

# Commercial Fertilizers in Kentucky, 1955

Including a Report on Official Fertilizer  
Samples Analyzed

July-December, 1955



University of Kentucky  
Agricultural Experiment Station  
Lexington

**FEEED AND FERTILIZER DEPARTMENT**  
**KENTUCKY AGRICULTURAL EXPERIMENT STATION**  
 Bruce Poundstone, Head of Department

**FIELD INSPECTION**

Robert Mathews  
Neville Hulette

Otis R. Wheeler

Noel J. Howard  
M. M. Davis

**LABORATORY**

Harry R. Allen  
Valva Midkiff  
Louise Jett

J. A. Shrader  
Joan Ryan  
Norma Holbrook

Lelah Gault  
Robert N. Price  
Charles Broaddus

---

**CONTENTS**

	Page
Tonnage of Fertilizer Sold . . . . .	3
Plant Food or Nutrients . . . . .	3
Fertilizer Grade . . . . .	3
Number of Grades Need in Kentucky . . . . .	3
Refunds . . . . .	4
Farmers' Samples . . . . .	4
Fertilizer Guaranty . . . . .	5
Penalties for Violating the Fertilizer Laws . . . . .	5
Distribution of Fertilizer Sales in Kentucky by Counties . . . . .	5
Tonnage of Mixed Fertilizer, Table A . . . . .	6
Tonnage of Materials, Table B . . . . .	7
Total Tonnage, Table C . . . . .	7
Explanation of "Standing of Manufacturers" . . . . .	8
Explanation of Tables, 1, 2 & 3 . . . . .	8
Standing of Manufacturers . . . . .	9-15
Analyses of Inspection Samples of Mixed Fertilizers, Super- phosphates, and Fertilizer Salts, Table 1 . . . . .	16
Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, Table 2 . . . . .	57
Analyses of Inspection Samples of Bones, Dried Manures, etc., Table 3 . . . . .	58

This bulletin contains analyses of commercial fertilizers made between July 1 and December 31, 1955. Analyses of samples made between January 1, 1955 and June 30, 1955 were published in Regulatory Bulletin 124.

#### TONNAGE OF FERTILIZER SOLD

Manufacturers reported that 519,143 tons of commercial fertilizer were sold in Kentucky during 1955. This was 10.6% less than in 1954. No superphosphate was distributed in Kentucky under the "Contractual Plan" by the Production and Marketing Administration during this period.

The tonnage of commercial fertilizer sold during 1955, as reported by manufacturers, is given in tables A, B and C.

#### PLANT FOODS OR NUTRIENTS

The minimum percentages of guaranteed plant foods, or nutrients, present in commercial fertilizer are printed on the bag as nitrogen, available phosphoric acid, and potash. These are the nutrients needed by plants in largest amounts and also those in which the soil is most likely deficient. The element corresponding to phosphoric acid is phosphorus and the element corresponding to potash is potassium. Boron may also be guaranteed.

#### FERTILIZER GRADE

Grade designates the minimum percentage of nitrogen, available phosphoric acid, and potash, in the fertilizer. A 5-10-15 grade means that the fertilizer contains 5 percent nitrogen, 10 percent available phosphoric acid, and 15 percent potash. The nutrients are always listed in this order. A 0-20-0 grade refers to a superphosphate fertilizer containing 20 percent available phosphoric acid. A 0-0-60 grade refers to a potash fertilizer containing 60 percent potash.

#### NUMBER OF GRADES NEEDED IN KENTUCKY

The Department of Agronomy of the Kentucky Agricultural Experiment Station considers that nine ratios and minimum grades of mixed fertilizer, together with superphosphate, nitrogen and potash salts will answer the present needs of Kentucky agriculture.

A list of the nine ratios and minimum grades and corresponding higher analysis grades recommended by the Agronomy Department for field crops are shown below:

<u>Ratio</u>	<u>Minimum Grades</u>	<u>Higher Analysis Grades</u>
0-1-1	0-12-12	0-14-14, 0-20-20, 0-24-24 0-30-30
0-1-2	0-10-20	
0-2-1	0-14-7	0-16-8
1-1-1	8-8-8	10-10-10, 12-12-12, 14-14-14
1-1-3	6-6-18	

<u>Ratio</u>	<u>Minimum Grade</u>	<u>Higher Analysis Grades</u>
1-2-2	5-10-10	6-12-12, 8-16-16
1-2-3	5-10-15	6-12-18
1-3-2	4-12-6	6-18-12
1-4-4	3-12-12	4-16-16, 5-20-20

Higher grades of any ratio also are both recommended and encouraged. None of the recommended minimum grades of mixed fertilizer contain less than 20 units of plant food. Low grade fertilizers are less economical because costs of mixing, bags, freight and other incidental costs are the same per bag regardless of analysis.

There also is a distinct advantage to the manufacturer to hold the number of grades to a minimum, since a smaller number of grades can be mixed and distributed more economically.

The Agronomy Department suggests grades in the following ratios for tobacco: 1-2-3, 1-2-2, 1-1-3. Apply needed potash as sulfate of potash for tobacco. The other ratios listed are for general field crops, meadows and pastures.

More detailed suggestions for fertilizing field crops, using the above ratios and grades, are contained in Miscellaneous Circular 10 from this Station.

#### REFUNDS

When a sample of fertilizer is below the guaranteed analysis to such an extent that the relative value index is deficient by more than 1.5 combined units per ton, the manufacturer of the fertilizer and the dealer from whom the sample was obtained are given a special notice.

When such a deficiency occurs it is suggested to the manufacturer that a proportionate refund be made to all purchasers of the stock of fertilizer whose names can be obtained from the dealer. If names of purchasers cannot be obtained, the refund may be made to charity in the county where the fertilizer was sold.

#### FARMERS' SAMPLES

Anyone in Kentucky who buys a commercial fertilizer for his own use may submit samples for free analysis to the Department of Feed and Fertilizer, Agricultural Experiment Station, Lexington 29, Kentucky.

1. Samples taken according to provisions of K. R. S. No. 250, 360 through No. 250, 480 (Kentucky Fertilizer Law). - To make the sample official it should be taken according to Section No. 250.440 of the statute referred to above. This section of the statute requires that witnesses be present when the sample is taken. Copies of the statute may be obtained from the Department of Feed and Fertilizer.

2. Unofficial samples. - If an analysis is wanted for the purchaser's information only, samples of fertilizer may be taken in the following manner:

Take portions (each about a handful) from 10 percent of the bags, unless this requires portions from more than 20 bags. If there are less than 10 bags, sample all. Take samples from as far down in the bags as possible. Place all portions on a clean paper and mix well. Place about one quart in a tight container, mark the container with name and address of the sender and send to the Department of Feed and Fertilizer, Agricultural Experiment Station, University of Kentucky, Lexington 29, Kentucky.

State in a letter the amount of fertilizer on hand, the number of bags sample, and the reason for wanting analysis. If analysis is materially below guaranty, a representative of the Feed and Fertilizer Department may be sent to take an inspector's sample.

#### FERTILIZER GUARATNY

The statute regulating the sale of commercial fertilizers in Kentucky was amended at the 1952 session of the Kentucky Legislature. In accord with the amendment to the statute, the official tag formerly issued by this Department to be attached to each bag of fertilizer is no longer required.

Before a manufacturer can sell fertilizer in Kentucky, he must register each brand or grade he proposed to sell with the Kentucky Agricultural Experiment Station in a manner prescribed by the Director. This registration is the guaranty of the manufacturer. This information must be printed on each bag of fertilizer offered for sale in Kentucky or on a label attached to each bag supplied by the manufacturer. The information is as follows:

Brand name of fertilizer  
Name and address of manufacturer  
Guaranteed analysis showing:  
    Nitrogen, percent  
    Available phosphoric acid, percent  
    Potash, from muriate or sulfate, percent

Total phosphoric acid is guaranteed in bone, dried manures and basic slag. Both total and available phosphoric acid are guaranteed in rock phosphate and in fused tricalcium phosphate.

#### PENALTIES FOR VIOLATING THE FERTILIZER LAW

Any manufacturer, firm, dealer, or vendor who sells or exposes for sale in Kentucky commercial fertilizer without complying with the provisions of the fertilizer law is subject to a fine of from \$100.00 to \$500.00 for each offense. Furthermore, if a fertilizer is short in net weight or short in the essential plant-food nutrients, a manufacturer, firm or dealer may not only be fined \$100.00 to \$500.00 for violating the fertilizer law, but "shall be liable for reasonable damages sustained by the purchaser of such fertilizer."

It is important, therefore, that the dealer should protect himself by purchasing from reliable firms who comply with the law. Otherwise, he will lay himself liable for selling fertilizers in violation of the law.

#### DISTRIBUTION OF FERTILIZER SALES IN KENTUCKY BY COUNTIES

Reports showing sales of fertilizer by grades by counties are now available for six month periods beginning July 1, 1954. These data were compiled from copies of invoices supplied by shippers of fertilizer. Copies may be had by writing to the Department of Feed and Fertilizer, Kentucky Agricultural Experiment Station.

TABLE A. - Mixed Fertilizer Sales by Grades, January 1, 1955 thru December 31, 1955,  
(Calendar Year) Kentucky.

Grade	January 1 thru	July 1 thru	Total
	June 30, 1955	December 31, 1955	
	(Tons)	(Tons)	(Tons)
0-10-20	383	213	596
0-12-12	2,173	698	2,871
0-14- 7	311	122	433
0-14-14	726	352	1,078
0-20-20	7,077	2,144	9,221
0-30-30	1,848	671	2,519
2-12- 6	26,185	5,349	31,534
2-12-12	123	123	246
3- 9- 6	21,346	1,397	22,743
3- 9-18	1,458	150	1,608
3- 9-27	258	43	301
3-12- 6	10,845	1,420	12,265
3-12-12	46,414	13,309	59,723
4- 8-12	1,458	53	1,511
4-12- 4	1,338	296	1,634
4-12- 8	45,940	17,790	63,730
4-12-12	213	41	254
4-16-16	6,211	2,054	8,265
4-24-12	387	54	441
5-10- 5	1,587	152	1,739
5-10-10	21,492	2,127	23,619
5-10-15	67,920	3,190	71,110
5-20-20	3,590	1,718	5,308
6- 6-18	8,948	213	9,161
6- 8- 6	35,655	1,228	36,883
6- 8- 8	866	22	888
6- 8-12	755	3	758
6- 8-16	498	4	502
6-10- 4	723	81	804
6-12-12	8,427	2,029	10,456
6-12-18	837	13	850
8- 8- 8	5,009	529	5,538
10- 6- 4	254	159	413
10-10-10	15,818	2,269	18,087
12-12-12	1,497	271	1,768
Miscellaneous*	5,823	1,236	7,059
<b>TOTAL</b>	<b>354,393</b>	<b>61,523</b>	<b>415,916</b>

\* Grades with less than 100 tons or grades registered by fewer than 3 companies.

TABLE B. - Fertilizer Sold as Straight Material and Miscellaneous Products by Types, January 1, 1955 thru December 31, 1955. (Calendar Year) Kentucky

Material	January 1 thru	July 1 thru	Total
	June 30, 1955	December 31, 1955	
	(Tons)	(Tons)	(Tons)
Nitrate of Soda, 16%	1,556	140	1,696
Ammonium Nitrate Lime 20.5%	47	---	47
Ammonium Sulfate, 20-21%	491	172	663
Cyanamid, 20-21%	289	1,206	1,495
Nitrogen Solutions, 24-41%	224	---	224
Ammonium Nitrate, 32.5-33.5%	18,090	5,979	24,069
Anhydrous Ammonia, 82%	719	327	1,046
Urea	205	22	227
<b>Total Nitrogen Material</b>	<b>21,621</b>	<b>7,846</b>	<b>29,467</b>
Soft Phosphate, 20% Total	1,418	90	1,508
Ground Rock Phosphate, 30-33% Total	4,419	8,413	12,832
Basic Slag, 8%	165	133	298
Superphosphate, 18-20% Available	24,727	4,583	29,310
Fused Tricalcium Phosphate, 28% Total	3,898	---	3,898
Triple Superphosphate, 45-50% Avail.	2,015	519	2,534
Calcium Metaphosphate, 60-62% Avail.	3,257	2,062	5,319
<b>Total Phosphate Material</b>	<b>39,899</b>	<b>15,800</b>	<b>55,699</b>
Sulfate of Potash Magnesia, 20-21%	171	60	231
Sulfate of Potash, 48-52%	6,770	164	6,934
Muriate of Potash, 60-61%	7,873	2,351	10,224
<b>Total Potash Material</b>	<b>14,814</b>	<b>2,575</b>	<b>17,389</b>
Dried Manures	89	54	143
Bone Meal	56	27	83
Sewage Sludge	60	150	210
Miscellaneous	92	144	236
<b>Total Miscellaneous</b>	<b>297</b>	<b>375</b>	<b>672</b>
<b>Total Materials</b>	<b>76,631</b>	<b>26,596</b>	<b>103,227</b>

TABLE C. - Summary, All Fertilizer Sold, January 1, 1955 thru December 31, 1955, (Calendar Year) Kentucky

Type	January 1 thru	July 1 thru	Total
	June 30, 1955	Dec. 31, 1955	
	(Tons)	(Tons)	(Tons)
Mixed Fertilizer (Table A)	354,393	61,523	415,916
Straight Materials (Table B)	76,631	26,596	103,227
<b>TOTAL</b>	<b>431,024</b>	<b>88,119</b>	<b>519,143</b>

## EXPLANATION OF "STANDING OF MANUFACTURERS"

The standings of manufacturers as determined by the results of analysis of official samples are given on page 9 to 15. Purchasers of fertilizer can learn through a study of this how well any manufacturer met his guarantee on the samples analyzed.

It should be noted that the first 3 columns of figures refer to number of samples and that the last 3 columns refer to number of analysis of nitrogen, phosphoric acid and potash. Attention is directed to the third column of figures which gives for each manufacturer, the percentage of samples which are equal to guaranty in all respects, and to column 6, which gives the percentage of analyses which are equal to guarantee or with the tolerance of 1/4 of 1 percent (the tolerance of the Kentucky Fertilizer Law).

## EXPLANATION OF TABLES 1, 2 &amp; 3

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

The results of analyses of all inspection samples are given in Tables 1, 2 and 3. If an analysis shows a deficiency of more than one-fourth of 1 percent below the amount claimed for nitrogen, phosphoric acid, or potash, or if the relative value is more than 1.5 below the guaranty, the result is indicated in the tables by an asterisk by the figures.



STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1955

COMPANY	Total		Samples Equal to guaranty in all respects		nitrogen, phosphoric acid and potash	Analyses of	
	Number	Percent*	Number	Percent*		Total	Number
					Number		
Bartlett & O'Bryan Fertilizer Company	39	28	11	28	106	77	73
Bluegrass Plant Foods Cynthiana, Kentucky	50	78	39	78	135	126	93
Danville, Kentucky	35	57	20	57	87	73	84
Bruce Ellen Company	2	---	2	---	6	6	---
The Buhner Fertilizer Company, Inc.	65	38	25	38	180	144	80
Bunton Seed Company	2	---	2	---	6	6	---
Burley Belt Plant Food Works	30	37	11	37	88	73	83
Carbola Chemical Company	1	---	1	---	3	3	---
Chilean Nitrate Sales Corporation	8	100	8	100	8	8	100
Commercial Solvents Corporation	8	63	5	63	8	8	100
Commonwealth Fertilizer Company, Inc.	30	53	16	53	87	74	85
Consolidated Chemical Company (See Price Chemical Company)	275	71	194	71	704	652	93
Cooperative Fertilizer Service	36	72	26	72	98	91	93
Darling & Company							

STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1955

COMPANY	Samples Equal to guaranty in all respects			Analyses of nitrogen, phosphoric acid and potash		
	Total Number	Number	Percent*	Total Number	Equal to guaranty or within tolerance**	
					Number	Percent*
Davison Chemical Corporation Columbus, Ohio	5	2	40	15	13	87
Nashville, Tennessee	130	64	49	331	274	83
New Albany	68	17	25	187	148	79
Deere & Company	1	---	---	1	1	---
J. H. Erbrich Products Company	2	2	---	6	6	---
E'Town Anhydrous Ammonia Company	1	1	---	1	1	---
E'Town Fertilizer Company	15	7	47	41	27	66
Farmers Fertilizer Company	2	---	---	6	2	---
Federal Chemical Company Columbus, Ohio	1	1	---	3	3	---
Henderson, Kentucky	1	---	---	2	1	---
Humboldt, Tennessee	30	13	43	85	69	81
Louisville, Kentucky	149	89	60	415	358	86
Nashville, Tennessee	76	14	18	213	139	65
Goulard and Olena Company	1	---	---	3	2	---
Hutson Chemical Company	28	12	43	80	65	81

STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1955

COMPANY	Samples Equal to guaranty in all respects		Analyses of nitrogen, phosphoric acid, and potash	
	Total Number	Number	Total Number	Equal to guaranty or within tolerance**
International Minerals & Chemical Corporation				
Carlsbad, New Mexico	6	5	6	6
Greenville, Tennessee	5	4	15	15
Chicago, Illinois	6	6	6	6
Cincinnati, Ohio	63	25	164	129
Clarksville, Tennessee	46	26	125	112
Somersset, Kentucky	43	29	123	111
Kentucky Fertilizer Works	52	25	144	119
Knoxville Fertilizer Company				
London, Kentucky	89	61	244	215
Knoxville, Tennessee	13	9	30	25
Nashville, Tennessee	72	35	202	170
Land O'Nan Warehouse	24	9	63	42
Lion Oil Company	6	6	6	6
Louisville Fertilizer Company (See Armour Fertilizer Works)				

STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1955

COMPANY	Samples Equal to guaranty in all respects		nitrogen, phosphoric acid and potash Equal to guaranty or within tolerance**	
	Total Number	Percent*	Total Number	Percent*
	Number	Percent*	Number	Percent*
Mathieson Chemical Corporation	11	82	32	97
Midsouth Chemical Company	11	91	13	92
Mississippi Chemical Corporation	4	---	4	---
Missouri Plant Food Company, Inc.	20	85	54	100
National Chemical Company	2	---	4	---
Nitrogen Fertilizer Service	1	---	1	---
North American Fertilizer Company	95	53	267	88
The Ohio Valley Fertilizer Corporation	35	14	96	66
Pacific Coast Borax Company	1	---	---	---
Phillips Chemical Company	4	---	4	---
Price Chemical Company (Consolidated Chemical Company)	69 9	54 22	194 27	86 74

STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1955

COMPANY	Samples Equal to guaranty in all respects		Analyses of nitrogen, phosphoric acid and potash Equal to guaranty or within tolerance**			
	Total Number	Number	Percent*	Total Number	Number	Percent*
Rigo Manufacturing Company	1	---	---	3	2	---
Robin Jones Phosphate Company	1	1	---	2	2	---
Rose Manufacturing Company	1	1	---	3	3	---
Schrock Fertilizer Service	3	3	---	3	3	---
O. M. Scott & Sons Comapny	3	2	---	9	8	---
The Smith Agricultural Chemical Company	4	4	---	12	12	---
Spencer Chemical Company	3	3	---	3	3	---
Stim U Plant Laboratories	1	1	---	3	3	---
Swift & Company	28	13	46	82	68	83
Chicago, Illinois	20	7	35	59	45	76
National Stock Yards, Illinois	1	1	---	3	3	---
Norfolk						
Tennessee Chemical Company (See Armour Fertilizer Works)						

STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1955

COMPANY	Samples Equal to guaranty in all respects			Analyses of nitrogen, phosphoric acid and potash		
	Total Number	Number	Percent*	Total Number	Equal to guaranty or within tolerance**	
					Number	Percent*
Tennessee Corporation	52	22	42	135	115	85
Cincinnati, Ohio	55	37	67	150	136	91
New Albany, Indiana						
Thompson Sales Company	1	1	---	1	1	---
Tobacco States Chemical Company	1	1	---	3	3	---
Tri-State Chemical Company	30	16	53	81	71	88
U. S. Steel Corporation	2	2	---	2	2	---
Valley Counties of Kentucky Cooperative, Inc.	27	19	70	31	25	81
Victor Chemical Works	1	---	---	3	2	---
Virginia-Carolina Chemical Corporation						
Cincinnati, Ohio	45	35	78	128	122	95
Hopkinsville, Kentucky	54	34	63	134	116	87
Mt. Pleasant, Tennessee	29	10	34	81	67	83
<b>TOTAL</b>	<b>2,847</b>	<b>1,577</b>	<b>55</b>	<b>7,453</b>	<b>6,374</b>	<b>86</b>

\* Percent is not indicated when number of samples is less than 5

\*\* "Tolerance" is 1/4 of 1 percent

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>AETNA OIL COMPANY</u>					
8109	029 019 0095M LIQUID AETNA OIL COMPANY LOUISVILLE	3	2	.1	105
<u>ALLIED CHEMICAL &amp; DYE CORP NIT DIV</u>					
7646	12 12 12M HAYDON COAL & OIL COMPANY	12.0	12.8	12.9	103
7789	V R SANDERS	12.4	12.9	12.6	105
8137	ROSCOE MORRIS	12.1	12.8	12.2	103
8486	LANDER HARDWARE COMPANY	12.1	13.0	12.1	103
8637	HALL SEED COMPANY	12.0	12.8	12.4	103
8686	THE EARLY & DANIEL COMPANY	12.3	12.0	12.2	102
7880	20 5 AMMONIUM NITRATE LIMESTONE HARLAN FARMERS SUPPLY	20.6			100
<u>AMERICAN AGRICULTURAL CHEMICAL CO</u>					
8376	0 20 20M LEBANON CARRIAGE & IMPLEMENT COMPANY		19.3*	22.2	101
8606	WOODSON LEWIS		18.8*	20.3	97*
8124	0 20 20M 4LB BORAX PER 100 LEBANON CARRIAGE & IMPLEMENT COMPANY (1)		18.8*	19.8	96*
7652	2 12 6M LEBANON CARRIAGE & IMPLEMENT COMPANY	2.2	11.5*	6.9	101
7648	3 12 12M LEBANON CARRIAGE & IMPLEMENT COMPANY	3.1	11.4*	12.4	99
7808	BEDFORD & TUTTLE	3.2	11.9	12.9	103
8010	READNOUR FEED & COAL	3.0	12.2	12.4	102
8113	WALTERS & THOMPSON	3.0	11.9	13.0	102
8125	LEBANON CARRIAGE & IMPLEMENT COMPANY	3.0	12.3	12.5	102
8399	LEBANON CARRIAGE & IMPLEMENT COMPANY	2.9	11.8	12.9	100
8604	WOODSON LEWIS	2.9	12.1	12.3	100
8685	MILLERSBURG COAL & LUMBER COMPANY	2.9	12.3	12.1	101
8695	JOHN A SHEEHAN	3.0	12.5	11.9	102
8750	BAUGHMAN MILLING COMPANY	2.9	12.3	12.4	102
7649	4 12 8M LEBANON CARRIAGE & IMPLEMENT COMPANY	3.9	12.8	8.2	103
7994	BRADLEY GROCERY	3.0*	13.5	9.4	103
8123	LEBANON CARRIAGE & IMPLEMENT COMPANY	3.4*	12.6	10.1	103
8694	JOHN A SHEEHAN	3.3*	12.9	9.4	103
7650	4 12 8S LEBANON CARRIAGE & IMPLEMENT COMPANY	3.9	12.1	8.4	101
7936	HARRY THORNTON	4.0	12.6	7.9	102
8020	JOHN A SHEEHAN	4.0	12.0	8.8	102
8112	4 16 16M WALTERS & THOMPSON	3.9	16.4	15.9	101
7651	5 10 15S LEBANON CARRIAGE & IMPLEMENT COMPANY	5.0	10.5	14.6*	101
7934	HARRY THORNTON	5.1	10.2	14.7*	101
8153	ROBERT B SIMON	5.0	9.8	15.0	99

(1) BORON GUARANTEED 0.45%-----FOUND 0.55%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>AMERICAN AGR CHEM CONTINUED</u>					
8009	6 6 18S READNOUR FEED & COAL	5.9	7.1	17.8 (1)	104
7935	18 SUPERPHOSPHATE HARRY THORNTON		18.1		100
7986	SAM LITTON JR		19.0		106
8605	WOODSON LEWIS		16.2*		90*
<u>AMERICAN CYANAMID CO</u>					
8045	21 CALCIUM CYANAMID ADAIR FARMERS SERVICE	21.0			100
8379	CARROLL COUNTY FARM BUREAU COOP	21.4			102
8438	YOUNG BROTHERS FEED STORE	21.1			100
<u>AMERICAN LIQUID FERTILIZER CO</u>					
8024	8 16 8M BIG FOUR FEED STORE	9.2	15.6*	8.7	105
<u>ANCO CHEMICAL CO</u>					
8106	22 33 11 GALLATIN COUNTY FARM SUPPLY	22.1	33.2	11.4	101
<u>ARMOUR FERTILIZER WORKS ATLANTA GA</u>					
8079	5 10 5M RATLUFF HARDWARE COMPANY	5.0	9.9	5.6	101
<u>ARMOUR FERTILIZER WORKS CINN OHIO</u>					
8289	0 12 12M N S DUDLEY & SON		12.0	12.0	100
8628	0 20 20M FARMERS UNION SUPPLY VERSAILLES		21.0	19.4*	102
8690	THE FARMERS SUPPLY CO WHITESBURG		20.3	20.5	102
7807	3 12 6M SPHAR & COMPANY	3.1	11.4*	6.6	99
7931	COLLINS HARDWARE	3.2	12.0	7.0	104
7718	3 12 12M N S DUDLEY & SON	3.1	12.0	11.9	100
7958	BI COUNTY FARM BUREAU COOPERATIVE	3.1	12.1	12.2	102
8004	SAM RYLE	3.0	11.9	12.5	101
8152	ROBERT B SIMON	3.1	11.8	12.8	102
8287	J C EVERETT COMPANY	2.9	12.2	11.9	100

(1) EXCESS MURIATE EQUIVALENT TO 0.6% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<i>ARMOUR CINCINNATI CONTINUED</i>					
	<i>4 12 8M</i>				
7586	WILLOUGHBY SUPPLY	4.2	11.7*	8.4	101
7719	N S DUDLEY & SON	4.1	11.7*	8.8	101
7946	ANDERSON & SPILLMAN	4.1	12.4	8.6	104
8007	KELLER HAY & GRAIN COMPANY	4.1	11.9	8.6	102
8021	PENDLETON COUNTY MILL	4.3	12.2	8.2	103
8150	CORNETTS MARKET	3.9	12.3	8.6	102
8284	W J AMBURGEY	4.1	12.1	8.4	102
	<i>4 12 8S</i>				
7928	TRIMBLE COUNTY FARM BUREAU COOP	3.9	12.7	8.3	103
7930	COLLINS HARDWARE	4.1	12.4	9.0 (1)	105
	<i>4 16 16M</i>				
7805	SPHAR & COMPANY	4.1	15.7*	16.5	100
7814	CORNETTS MARKET	4.1	15.6*	16.4	100
8147	CORNETTS MARKET	4.1	15.7*	16.3	100
	<i>5 10 10M</i>				
7591	CHRISTOPHER FARMERS SUPPLY	5.1	10.3	10.4	103
7947	ANDERSON & SPILLMAN	5.2	10.4	10.4	104
8012	BI COUNTY FARM BUREAU COOPERATIVE	5.1	10.3	10.6	103
	<i>5 10 15S</i>				
7932	COLLINS HARDWARE	4.9	9.9	15.1	99
8148	CORNETTS MARKET	5.1	10.0	14.9	100
	<i>5 20 20M</i>				
8689	SAM RYLE	4.9	19.7*	19.5*	98
	<i>6 8 6S</i>				
7585	WILLOUGHBY SUPPLY	5.7*	8.6	6.6	102
8008	KELLER HAY & GRAIN COMPANY	5.8	8.8	7.2 (2)	106
	<i>6 12 12M</i>				
8005	W C DICKEN	6.0	12.2	12.1	101
8149	CORNETT S MARKET	6.2	11.8	12.4	101
8290	N S DUDLEY & SON	6.0	12.1	11.8	100
	<i>6 12 12S</i>				
7682	PRENTISS MARTIN	6.5	11.9	12.4 (3)	103
8006	W C DICKEN	6.0	12.2	12.4 (4)	101
	<i>10 10 10M</i>				
7700	FARMERS UNION SUPPLY VERSAILLES	9.8	10.2	10.4	100
8011	BI COUNTY FARM BUREAU COOPERATIVE	9.5*	10.6	10.4	100
8627	FARMERS UNION SUPPLY VERSAILLES	9.7*	10.8	10.4	102
	<i>20 SUPERPHOSPHATE</i>				
7587	WILLOUGHBY SUPPLY		19.7*		98
7683	PRENTISS MARTIN		20.7		103
7933	JACOBS COAL & TRANSFER COMPANY		20.0		100
8291	N S DUDLEY & SON		20.4		102
	<i>48 SULFATE OF POTASH</i>				
7724	J C EVERETT COMPANY			50.3	105
	<i>60 MURIATE OF POTASH</i>				
7815	CORNETTS MARKET			60.6	101

(1) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.8% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 0.6% POTASH

(4) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>ARMOUR FERTILIZER WORKS E ST LOU ILL</u>					
12 12 12M					
8094	BIRMINGHAM MILLING COMPANY	11.4*	11.9	12.5	98
8757	YOPP SEED COMPANY	11.0*	13.2	12.0	99
<u>ARMOUR FERTILIZER WORKS JEFFER IND</u>					
0 20 20M					
7656	LORETTO FEED MILL		20.4	19.9	101
7927	TRIMBLE COUNTY FARM BUREAU COOP		19.7*	19.4*	98
8506	STINSON FARM SUPPLY		19.3*	20.4	98
8731	U L ROGERS & SON		19.6*	19.9	99
0 20 20M 5LB BORAX PER 100					
8398	LORETTO MILLING COMPANY (1)		19.9	19.9	100
8544	G M HAYCRAFT & SON (2)		20.1	19.9	100
2 12 6M					
7411	EARL H FROEDGE	2.3	11.9	6.3	103
7759	CAVE CITY ICE & COAL COMPANY	2.2	12.3	7.0	106
8621	IDEAL HARDWARE COMPANY	2.1	11.6*	6.2	99
3 12 6M					
7925	WATKINS BROTHERS	3.1	12.4	6.4	104
8187	J R WILLIAMS HARDWARE	3.1	12.3	6.6	104
8773	J R WILLIAMS HARDWARE	3.0	12.5	6.8	105
3 12 12M					
7693	T G SMITHER	2.7*	12.2	12.4	100
7896	MILL SPRINGS SUPPLY	3.0	12.0	11.6*	99
8049	FARMERS SUPPLY COMPANY HODGENVILLE	3.2	11.6*	13.0	102
8140	JASPER PRODUCE COMPANY	3.0	11.5*	12.8	100
8392	T F KEENE & SONS	3.1	11.6*	12.8	101
8513	FARMERS MILL & SUPPLY BROWNSVILLE	3.0	12.1	11.9	100
8596	HENDERSON FEED & COMMISSION COMPANY	3.4	12.9	11.1*	105
4 12 8M					
8103	IRVINGTON TRUCK LINES	4.0	12.3	8.3	102
8188	J R WILLIAMS HARDWARE	4.1	12.6	7.9	103
8333	FELTY PRODUCE COMPANY	3.9	12.3	8.6	102
8545	G M HAYCRAFT & SON	3.8	11.8	8.4	99
8622	IDEAL HARDWARE COMPANY	3.9	12.2	8.7	102
8629	FARM EQUIPMENT COMPANY BEDFORD	3.9	12.4	8.2	102
8734	W C BLAIR	3.9	12.2	8.0	100
4 12 8S					
7600	T H COFFEY STORE	4.4	12.0	8.3 (3)	103
5 10 15S					
7678	W H GRIMES	5.4	10.6	15.4	106
7995	STANLEY PENN & SONS	4.9	10.2	15.3	101
8189	J R WILLIAMS HARDWARE	5.1	10.0	15.3	101
5 20 20M					
8114	T F KEENE & SONS	4.7*	20.2	20.8	100
8234	CLARENCE COX	4.9	20.0	19.9	99
8739	MCWHORTER PRODUCE COMPANY	5.1	20.4	19.3*	101
6 6 18S					
7694	J A BENNETT HARDWARE	6.2	6.2	17.6*	101
6 12 12S					
8101	JEWELL & HAYDON	6.7	11.4*	12.0	102

(1) BORON GUARANTEED 0.57%-----FOUND 0.53%

(2) BORON GUARANTEED 0.57%-----FOUND 0.55%

(3) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>ARMOUR JEFFERSONVILLE CONTINUED</u>					
7806	10 10 10M SPHAR & COMPANY	9.7*	10.2	10.5	100
8190	J R WILLIAMS HARDWARE	8.7*	11.5	10.3	99
8397	LORETTO MILLING COMPANY	5.8*	13.1	12.7	94*
8048	12 12 12M FARMER S SUPPLY COMPANY HODGENVILLE	10.6*	12.2	12.4	95*
8167	BIG FOUR FEED & IMPLEMENT COMPANY	11.4*	12.1	12.7	99
7410	48 SULFATE OF POTASH EARL H FROEDGE			51.4	107
<u>ARMOUR FERTILIZER WORKS MEMPHIS TENN</u>					
8207	0 12 12M HOWE HILLIARD GRAIN COMPANY		10.9*	12.1	94*
8208	3 12 12M HOWE HILLIARD GRAIN COMPANY	3.1	11.9	12.1	100
7785	4 12 8M J B HATCHER COMPANY	4.5	11.3*	8.2	101
8198	WARREN SEED COMPANY	4.2	11.3*	8.7	100
8081	5 10 10M KUTTAWA MILLING COMPANY	4.9	9.8	10.0	98
8082	6 8 6 M KUTTAWA MILLING COMPANY	5.8	8.2	6.1	100
8209	6 12 12M HOWE HILLIARD GRAIN COMPANY	6.0	12.0	11.9	100
8197	20 SUPERPHOSPHATE WARREN SEED COMPANY		21.0		105
<u>ARMOUR FERTILIZER WORKS NASH TENN</u>					
7957	0 12 12M BARNETT BROTHERS		12.1	11.9	100
8078	ROBERT DRAKES STORE		11.9	12.9	102
8467	S E HALE & SON HARDWARE		13.0	12.3	106
7546	0 20 20M A C BUTTS & SON		20.2	20.3	101
8076	ROBERT DRAKES STORE		19.9	20.7	101
8407	A C BUTTS & SON		19.8	19.6*	99
8166	0 20 20M 3LB BORAX PER 100 BIG FOUR FEED & IMPLEMENT COMPANY (1)		17.9*	16.5*	87*
7404	2 12 6M W D CUNNINGHAM	2.1	12.0	6.5	102
7845	SALEM FEED & SEED COMPANY	2.1	12.3	6.3	103
8160	HATTER HARDWARE	2.2	12.7	6.3	106
8610	BIG FOUR FEED & IMPLEMENT COMPANY	2.0	11.9	5.9	99
8774	CADIZ HARDWARE COMPANY	2.0	11.9	6.0	99

(1) BORON GUARANTEED 0.34%-----FOUND 0.56%

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<i>ARMOUR NASHVILLE CONTINUED</i>					
8413	2 12 12M 3LB BORAX PER 100 GALLOWAY SEED COMPANY (1)	2.2	12.7	12.2	105
8002	3 9 18M AUBURN SEED COMPANY	3.1	9.4	17.2*	101
8003	3 9 18S AUBURN SEED COMPANY	3.2	9.9	15.9*(2)	101
7563	3 12 6M WALLACES HARDWARE	3.0	12.1	6.2	101
7868	HATCHETTS COMMUNITY STORE	3.0	12.1	6.5	102
8075	ROBERT DRAKES STORE	3.0	12.2	6.2	102
8128	GIBSON PRODUCE	3.1	12.6	7.2	107
8464	S E HALE & SON HARDWARE	3.1	11.3*	6.0	97
8478	BARNETT BROTHERS	3.1	11.9	6.3	101
8609	BIG FOUR FEED & IMPLEMENT COMPANY	3.0	11.6*	6.2	98
8737	MCWHORTER PRODUCE COMPANY	3.0	12.0	6.4	101
7786	3 12 12M J B HATCHER COMPANY	3.9	12.3	8.6*	100
8180	GALLOWAY SEED COMPANY	3.1	11.5*	11.8	98
8479	BARNETT BROTHERS	3.0	12.0	12.2	100
8597	HENDERSON FEED & COMMISSION COMPANY	3.0	12.4	11.5*	101
8735	FARMERS SERVICE STORE JAMESTOWN	3.1	13.4	11.9	107
7846	4 12 4M SALEM FEED & SEED COMPANY	3.9	12.7	4.1	103
7869	4 12 8M HATCHETTS COMMUNITY STORE	4.5	12.0	8.4	104
8447	GEORGE PATMOR & SON	3.9	12.2	7.8	100
8480	BARNETT BROTHERS	3.4*	12.4	7.5*	97
8515	PEOPLES ICE & COAL COMPANY	3.9	12.5	8.0	102
8542	M G FRUIT IMPLEMENT COMPANY	3.8	12.5	7.7*	100
8611	BIG FOUR FEED & IMPLEMENT COMPANY	3.8	12.5	7.9	101
8043	4 16 16M MCWHORTER PRODUCE	4.0	16.1	15.6*	100
8077	ROBERT DRAKES STORE	3.9	16.0	16.0	100
8178	BARDWELL FEED MILL	4.0	14.5*	14.3*	92*
8516	PEOPLES ICE & COAL COMPANY	3.9	15.0*	16.4	97*
7413	5 10 10M TRUMAN HOLLINSWORTH	4.6*	10.2	9.7*	98
7564	WALLACES HARDWARE	4.9	9.9	10.0	99
7870	HATCHETTS COMMUNITY STORE	5.3	9.9	10.3	102
7967	N T NUCKOLS	5.0	9.5*	10.5	99
8472	QUALITY GROCERY & HARDWARE COMPANY	5.1	10.1	10.4	102
8485	FORBES HARDWARE COMPANY	5.0	10.5	10.0	102
7412	5 10 10S S D HARLAN & COMPANY	4.9	10.2	10.3	101
8262	J S WHITTINGHILL FEED STORE	5.1	10.2	10.8	103
8179	6 8 6M THOMPSON FEED & SUPPLY COMPANY	5.8	8.1	6.1	99
8525	HATTER HARDWARE COMPANY	5.8	8.6	6.5	103
7798	6 8 6S HAYS FEED MILL	5.9	8.8	6.4	104
8161	HATTER HARDWARE	5.7*	9.3	5.8	104
8263	J S WHITTINGHILL FEED STORE	5.6*	9.0	6.2 (3)	102

(1) BORON GUARANTEED 0.34%-----FOUND 0.36%

(2) EXCESS MURIATE EQUIVALENT TO 5.6% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>ARMOUR NASHVILLE CONTINUED</u>					
7545	6 12 12M A C BUTTS & SON	5.7*	12.3	12.0	99
7799	FARMERS MILL & SUPPLY CO BROWNSVILLE	5.7*	11.9	11.9	98
8093	BIRMINGHAM MILLING COMPANY	5.8	12.4	11.4*	99
8100	BARDWELL FEED MILL	5.4*	12.1	12.2	97
8408	A C BUTTS & SON	5.7*	13.2	11.8	102
8416	BIRMINGHAM MILLING COMPANY	5.5*	12.0	12.3	98
8092	8 8 8M BIRMINGHAM MILLING COMPANY	6.4*	8.7	9.2	95*
8264	J S WHITTINGHILL FEED STORE	5.9*	7.9	7.0*	84*
7565	10 10 10M WALLACES HARDWARE	9.2*	10.5	9.6*	97*
7790	M G PRUITT IMPLEMENT COMPANY	9.2*	10.7	9.7*	98
8738	MCWHORTER PRODUCE COMPANY	9.8	10.5	10.0	101
7425	20 SUPERPHOSPHATE ADAIR MILLING COMPANY		20.8		104
7792	PEOPLES FARM SUPPLY CO SMITHS GROVE		21.0		105
8406	A C BUTTS & SON		20.3		102
8465	S E HALE & SON HARDWARE		20.8		104
8477	BARNETT BROTHERS		20.0		100
8514	PEOPLES ICE & COAL COMPANY		20.5		103
8612	BIG FOUR FEED & IMPLEMENT COMPANY		19.9		100
8736	FARMERS SERVICE STORE JAMESTOWN		20.7		103
8202	45 SUPERPHOSPHATE HAL SMITH		44.9		100
8466	S E HALE & SON HARDWARE		44.0*		98
8468	60 MURIATE OF POTASH S E HALE & SON HARDWARE			59.9	100
<u>ASSOCIATED COOPERATIVES INC</u>					
7722	14 14 14M SOUTHERN STATES FLEMINGSBURG COOP	14.6	15.0	15.1	106
8039	FARMERS SUPPLY COMPANY MONTICELLO	14.4	14.9	13.8	104
8269	K R MCKINNEY & SON	14.5	15.3	14.1	105
7952	33 5 AMMONIUM NITRATE SOUTHERN STATES HOPKINSVILLE COOP	33.4			100
8684	SOUTHERN STATES LEXINGTON COOP	33.6			100
8688	AMBURGEY S FARM SUPPLY	33.4			100
8213	48 SUPERPHOSPHATE HOWE HILLIARD GRAIN COMPANY		48.5		101
8272	HANCOCK COUNTY FARM SUPPLY		47.9		100
8033	49 SUPERPHOSPHATE FARMERS SERVICE STORE THOMPKINSVILLE		47.6*		97*
8126	60 CALCIUM METAPHOSPHATE RICHMOND FARM SUPPLY		59.0*		98
7721	61 CALCIUM METAPHOSPHATE SOUTHERN STATES FLEMINGSBURG COOP		61.4		101
8237	SOUTHERN STATES HARDIN COOPERATIVE		62.0		102
8682	SOUTHERN STATES LEXINGTON COOP		61.4		101

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>ASSOCIATED COOPERATIVES CONTINUED</u>					
8212	62 CALCIUM METAPHOSPHATE HOWE HILLIARD GRAIN COMPANY		63.0		102
8261	NEELS FARM STORE		63.0		102
<u>BARTLETT &amp; O BRYAN FERTILIZER CO</u>					
7574	3 9 18M BARTLETT & O BRYAN WAREHOUSE	3.0	10.3	18.5	107
7554	3 12 12M JAMES A LOGSDON	2.9	11.7*	11.7*	97
7835	R H JOHNSON	2.8	11.9	11.9	98
8430	BARTLETT & O BRYAN WAREHOUSE	3.0	12.7	12.6	104
7551	4 12 8M JAMES A LOGSDON	3.9	12.6	9.2	105
7836	R H JOHNSON	3.9	12.4	10.2	106
8431	BARTLETT & O BRYAN WAREHOUSE	3.9	11.7*	8.6	99
8432	4 16 16M BARTLETT & O BRYAN WAREHOUSE	3.9	15.9	16.5	100
7555	5 10 15S JAMES A LOGSDON	4.4*	10.6	15.0 (2)	99
7571	5 20 20M BARTLETT & O BRYAN WAREHOUSE	4.2*	20.2	18.3*	95*
8433	BARTLETT & O BRYAN WAREHOUSE	4.4*	20.1	19.2*	97*
7553	6 8 6S JAMES A LOGSDON	5.6*	8.3	7.0 (3)	101
7552	6 12 12M JAMES A LOGSDON	5.4*	13.5	12.3	103
7572	BARTLETT & O BRYAN WAREHOUSE	5.4*	11.9	11.9	96*
8434	BARTLETT & O BRYAN WAREHOUSE	5.4*	12.7	13.1	101
7573	8 8 8M BARTLETT & O BRYAN WAREHOUSE	7.5*	8.5	9.3	102
8435	10 10 10M BARTLETT & O BRYAN WAREHOUSE	9.2*	10.1	11.5	99
8429	20 SUPERPHOSPHATE BARTLETT & O BRYAN WAREHOUSE		20.0		100
8428	46 SUPERPHOSPHATE BARTLETT & O BRYAN WAREHOUSE		46.6		101
<u>BLUEGRASS PLANT FOODS INC CYNTHIANA</u>					
7998	0 10 20M 2LB BORAX PER 100 ATKINSON FARM SUPPLY (1)		12.0	20.5	111

(1) BORON GUARANTEED 0.22%-----FOUND 0.24%

(2) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>BLUEGRASS CYNTHIANA CONTINUED</u>					
7584	5 10 15S WALKER SUPPLY	4.9	10.8	14.5*	102
7741	6 8 6 M JULIUS & CARL FISTER	6.0	8.3	6.4	102
7595	6 8 6S W G CAMPBELL	6.1	8.1	7.6 (2)	105
7673	6 12 18S FLOYD TERRELL	6.4	12.7	18.6	105
7740	10 10 10M HILLENMEYER NURSERIES	9.8	10.5	10.2	101
7583	50 SULFATE OF POTASH WALKER SUPPLY			51.8	104
<u>BLUEGRASS PLANT FOODS INC DANVILLE</u>					
8104	0 10 20M 2LB BORAX PER 100 MAYES HELM & COYLE (1)		11.7	17.5*	102
8027	2 12 6M D B SAYLOR	2.6	11.8	7.9	109
7949	4 12 8S BLUEGRASS PLANT FOODS DANVILLE	4.2	11.9	8.5	102
7660	5 10 10M J T SHEARIN	5.5	10.4	10.3	106
7665	BLUEGRASS PLANT FOODS DANVILLE	5.3	10.3	10.0	103
7895	MILL SPRINGS SUPPLY	5.3	10.5	10.0	104
7666	5 10 15S BLUEGRASS PLANT FOODS DANVILLE	5.1	10.5	14.1*	101
7900	PEYTONS STORE	5.0	10.0	15.5	101
7948	6 6 18S BLUEGRASS PLANT FOODS DANVILLE	5.8	6.8	17.2*	100
7894	6 12 18S MILL SPRINGS SUPPLY	5.5*	12.7	16.6*	98
8502	10 10 10M BLUEGRASS PLANT FOODS DANVILLE	8.8*	11.0	10.2	98
8640	BLUEGRASS PLANT FOODS DANVILLE	8.9*	11.0	9.9	98
8503	20 SUPERPHOSPHATE BLUEGRASS PLANTS FOODS DANVILLE		20.0		100
8501	60 MURIATE OF POTASH PATTERSON & GUTHRIE			60.2	100

(1) BORON GUARANTEED 0.23%-----FOUND 0.29%

(2) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>BRUCE ELLEN COMPANY INC</u>					
	22 33 11				
7647	HAYDON MILL & GRAIN COMPANY	225	333	116	102
8105	HAYDON COAL & OIL COMPANY	219	331	117	100
<u>BUHNER FERTILIZER COMPANY</u>					
	0 9 27M 10LB BORAX PER 100				
7794	CARL NETHERLAND (1)		95	279	104
8241	CRUSE BROTHERS (2)		96	266*	102
	0 20 20M				
7923	BUHNER & COMPANY		196*	202	99
8235	NALL FEED STORE		202	200	101
8636	BUHNER & COMPANY		199	217	103
	2 12 6M				
7761	CRUSE BROTHERS FEED STORE	23	120	71	106
8292	SHIPP SEED HOUSE	19	123	62	101
	3 9 6M				
7795	CARL NETHERLAND	26*	89	65	97
7918	AUBURNDALE FEED & LUMBER CO	26*	90	64	98
	3 12 12M				
7907	FLOORES FEED STORE	33	125	130	106
	3 12 12S				
7684	FARMERS SUPPLY SHELBYVILLE	32	129	120	105
	4 12 8M				
7924	BUHNER & COMPANY	35*	116*	89	97
8294	SHIPP SEED HOUSE	33*	125	79	97
8300	FARMERS FEED & SUPPLY GREENSBURG	34*	123	86	99
8386	BUHNER & COMPANY	33*	131	90	103
	4 16 16M				
7793	CARL NETHERLAND	35*	174	161	102
7922	BUHNER & COMPANY	35*	160	178	100
8384	BUHNER & COMPANY	34*	160	163	98
	5 20 20M				
8635	BUHNER & COMPANY	42*	204	213	100
	6 6 18M				
7672	KENTUCKY STATE HOSPITAL	5.7*	60	205	103
	6 8 6 M				
7916	EDGEWOOD FEED & HARDWARE COMPANY	59	82	71	103
	6 8 6S				
7762	CRUSE BROTHERS FEED STORE	56*	85	70	102
	10 10 10M				
7681	DAWSON FEED & SUPPLY	103	106	120	107
8385	BUHNER & COMPANY	92*	101	115	99
	20 SUPERPHOSPHATE				
8601	FARMERS FEED & SUPPLY GREENSBURG		203		102

(1) BORON GUARANTEED 1.13%-----FOUND 1.00%

(2) BORON GUARANTEED 1.13%-----FOUND 0.96%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>BUHNER &amp; COMPANY CONTINUED</u>					
7685	60 MURIATE OF POTASH FARMERS SUPPLY SHELBYVILLE			59.8	100
<u>BUNTON SEED COMPANY</u>					
7920	6 12 6M BUNTON SEED COMPANY	7.0	11.9	6.7	107
<u>BURLEY BELT PLANT FOOD WORKS</u>					
7980	4 8 12S BURLEY BELT PLANT FOODS WORKS	3.9	8.1	12.0	100
7736	4 10 10M BURLEY BELT PLANT FOOD WORKS	4.2	10.3	10.4	104
7904	GENTRY MCCAULEY	4.3	10.0	10.7	104
7903	5 10 15S GENTRY MCCAULEY	4.8	10.1	15.4	100
7979	5 10 16S BURLEY BELT PLANT FOODS WORKS	4.9	9.7*	15.9	98
7737	6 6 18S BURLEY BELT PLANT FOOD WORKS	5.8	6.8	17.8 (1)	102
7978	BURLEY BELT PLANT FOODS WORKS	5.8	6.5	17.8 (2)	100
7735	6 8 6S BURLEY BELT PLANT FOOD WORKS	6.0	8.5	6.6	104
7594	10 10 10M W C TAYLOR	9.5*	10.0	10.4	98
7977	20 SUPERPHOSPHATE BURLEY BELT PLANT FOODS WORKS		20.1		100
<u>CARBOLA CHEMICAL COMPANY</u>					
8018	20 20 20S GEORGE W HILL COMPANY	20.7	21.2	20.7	104
<u>CHILEAN NITRATE SALES CORPORATION</u>					
7742	16 NITRATE OF SODA JULIUS & CARL FISTER	16.0			100
8173	H D JONES	16.1			101

(1) EXCESS MURIATE EQUIVALENT TO 0.9% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>COMMERCIAL SOLVENTS CORPORATION</u>					
7791	33 5 AMMONIUM NITRATE PEOPLES FARM SUPPLY CO SMITHS GROVE	33.6			100
<u>COMMONWEALTH FERTILIZER COMPANY</u>					
7800	3 9 6M M C WILLIAMS IMPLEMENT COMPANY	3.4	9.1	6.6	106
7839	SALEM FEED & SEED COMPANY	3.1	8.7*	6.2	100
7877	3 12 12M COOMER FEED STORE	3.5	12.2	13.1	107
7951	4 12 8M M G WILLIAMS IMPLEMENT COMPANY	4.3	12.0	7.7*	101
7971	COMMONWEALTH FERTILIZER COMPANY	4.1	11.7*	7.9	99
8186	JOHN CHILDERS	4.1	11.9	8.1	100
7970	4 16 16M COMMONWEALTH FERTILIZER COMPANY	4.4	14.6*	16.3	98
7876	5 10 10S COOMER FEED STORE	4.9	10.1	9.9	100
7972	COMMONWEALTH FERTILIZER COMPANY	5.1	9.9	10.6	102
7973	5 10 15S COMMONWEALTH FERTILIZER COMPANY	5.2	10.9	15.4	106
8192	J R WALLACE	5.0	9.9	15.1	100
8224	CRAFTON FARM STORE	5.0	10.0	15.7	101
7840	6 12 12M SALEM FEED & SEED COMPANY	5.9	11.4*	12.5	98
8225	CRAFTON FARM STORE	6.0	11.4*	12.0	98
7390	10 10 10M ROBERT PENCE	9.4*	10.0	10.3	98
7841	SALEM FEED & SEED COMPANY	9.4*	9.9	9.9	96*
797	COMMONWEALTH FERTILIZER COMPANY	9.5*	10.0	10.1	98
<u>COOPERATIVE FERTILIZER SERVICE</u>					
7723	0 14 14M 3LB BORAX PER 100 SOUTHERN STATES FLEMINGSBURG COOP (1)		13.9	15.5	103
8001	SOUTHERN STATES RUSSELLVILLE COOP (2)		13.8	14.6	100
8038	FARMERS SUPPLY COMPANY MONTICELLO (3)		14.4	15.9	106
8111	SOUTHERN STATES LEBANON COOPERATIVE (4)		14.6	14.4	104
8238	SOUTHERN STATES HARDIN COOPERATIVE (5)		14.2	14.4	102
8500	ELKTON FARM SUPPLY (6)		14.6	14.6	104
7781	0 30 30M SOUTHERN STATES BOWLING GREEN COOP		30.1	30.5	101
7975	SOUTHERN STATES RUSSELLVILLE COOP		29.3*	30.5	99
8118	SOUTHERN STATES BARDSTOWN COOP		29.8	30.2	100
8135	SOUTHERN STATES SOMERSET COOP		30.3	29.4*	100
8274	HANCOCK COUNTY FARM SUPPLY		30.6	29.6	101
8279	FARMERS SUPPLY COMPANY PAINTSVILLE		30.1	31.7	102
8286	SOUTHERN STATES CARLISLE COOPERATIVE		29.5	30.0	99
8295	SOUTHERN STATES CAMPBELLSVILLE COOP		29.9	29.0*	99
8439	SOUTHERN STATES MORGANFIELD COOP		30.0	29.4*	99
8538	SOUTHERN STATES BOWLING GREEN COOP		29.6	29.3*	98
8564	C S MCCULLY		29.9	30.3	100
8619	SOUTHERN STATES GLASGOW COOP		29.9	29.7	99

(1) BORON GUARANTEED 0.34%-----FOUND 0.37%  
 (2) BORON GUARANTEED 0.34%-----FOUND 0.34%  
 (3) BORON GUARANTEED 0.34%-----FOUND 0.37%  
 (4) BORON GUARANTEED 0.34%-----FOUND 0.33%  
 (5) BORON GUARANTEED 0.34%-----FOUND 0.37%  
 (6) BORON GUARANTEED 0.34%-----FOUND 0.34%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<u>COOPERATIVE FERTILIZER CONTINUED</u>					
0 30 30M CONTINUED					
8697	FARMERS SUPPLY COMPANY PAINTSVILLE		31.2	29.4*	102
8744	REXROAT SUPPLY COMPANY		30.2	30.3	101
2 12 6M					
7407	MCWHORTER BROTHERS	2.3	11.8	7.1	104
8531	SOUTHERN STATES SIMPSON COOP	2.1	12.0	6.5	102
8551	ELKTON FARM SUPPLY	2.2	12.0	6.9	104
3 12 12M					
7938	SOUTHERN STATES OWENTON COOPERATIVE	3.4	12.2	11.5*	102
8046	SOUTHERN STATES BARDSTOWN COOP	3.0	12.1	12.4	101
8127	FARMERS SUPPLY COMPANY MONTICELLO	2.9	12.4	13.4	104
8268	K R MCKINNEY & SON	3.2	11.9	13.1	103
8278	DEATON BROTHERS	2.7*	12.6	11.9	100
8282	ROWAN FARMERS SUPPLY	3.1	11.9	12.5	101
8288	SOUTHERN STATES FLEMINGSBURG COOP	3.1	11.2*	13.4	100
8296	SOUTHERN STATES CAMPBELLSVILLE COOP	3.2	12.0	13.0	104
8298	W C TURNER	3.2	11.8	12.1	101
8378	TRIMBLE COUNTY FARM BUREAU COOP	3.1	12.1	12.7	103
8389	SOUTHERN STATES SHELBYVILLE COOP	3.1	11.7*	12.8	101
8505	SOUTHERN STATES BOYLE COOP	2.9	11.5*	13.0	99
8563	SLAUGHTERS MERCANTILE COMPANY	3.2	11.8	13.5	104
8641	TRIMBLE COUNTY FARM BUREAU COOP	3.2	12.1	12.4	103
8745	REXROAT SUPPLY COMPANY	3.1	12.4	12.6	104
4 12 8M					
7419	METCALFE COUNTY FARM SUPPLY	4.3	12.6	8.6	102
8000	FARM & HOME STORE PRESTONSBURG	3.7*	12.7	9.7	105
8037	SOUTHERN STATES SOMERSET COOPERATIVE	4.3	11.9	8.8	103
8041	HARRISON BROS FARM SUPPLY	3.7*	12.3	10.3	105
8063	SOUTHERN STATES HARDIN COOPERATIVE	4.0	12.2	8.3	102
8121	FARMERS SERVICE STORE HARDINSBURG	4.1	12.7	8.4	105
8273	HANCOCK COUNTY FARM SUPPLY	4.2	12.4	8.9	105
8280	FARM & HOME STORE PRESTONSBURG	4.2	12.6	9.0	106
8285	MAGOFFIN FARMERS SUPPLY	3.9	12.3	9.0	103
8299	W C TURNER	4.1	12.2	8.6	103
8334	CANARY FARM SUPPLY	4.2	12.3	8.5	104
8377	TRIMBLE COUNTY FARM BUREAU COOP	4.1	12.3	8.4	103
8504	SOUTHERN STATES BOYLE COOP	3.9	12.1	8.4	101
8508	STINSON FARM SUPPLY	4.0	11.9	8.4	100
8561	SLAUGHTERS MERCANTILE COMPANY	4.1	12.2	8.9	104
8620	SOUTHERN STATES GLASGOW COOP	4.0	11.7*	8.4	100
8742	MCWHORTER BROTHERS FARM STORE	4.1	13.0	9.3	108
5 10 10M					
7643	DON ROGERS	5.0	9.7*	10.7	100
7661	J T SHEARIN	4.8	10.0	11.4	102
7696	JOHN C MILLER	5.1	10.8	10.5	105
8036	TAYLORS FARM SERVICE	4.8	10.3	11.7	104
8064	SOUTHERN STATES HARDIN COOPERATIVE	5.1	10.1	10.6	102
8141	FARM & HOME SUPPLY IRVINE	5.0	10.3	10.9	103
8281	PIKE COUNTY HATCHERY	4.8	10.6	10.6	103
8283	ROWAN FARMERS SUPPLY	4.6*	10.9	10.9	103
8383	SOUTHERN STATES LOUISVILLE COOP	5.0	10.1	10.3	101
8390	SOUTHERN STATES SHELBYVILLE COOP	5.1	10.1	10.3	102
8546	SOUTHERN STATES LEITCHFIELD COOP	4.9	9.7*	10.2	98
8562	SLAUGHTERS MERCANTILE COMPANY	5.0	10.1	10.4	101
8626	SOUTHERN STATES FRANKFORT COOP	4.8	11.0	11.0	105
5 10 15S					
7695	JOHN C MILLER	5.1	10.3	15.9	104
6 6 18S					
7886	CRAB ORCHARD FARM SERVICE	5.9	6.4	18.1	101
6 8 6S					
7588	RICHMOND FARM SUPPLY	5.8	8.7	6.8	104
7897	LINCOLN FARM SERVICE	5.8	9.3	6.5	106
7942	SOUTHERN STATES GEORGETOWN COOP	5.8	8.6	6.5	103

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>COOPERATIVE FERTILIZER CONTINUED</u>					
<u>8 8 8M</u>					
7422	ADAIR FARMERS SERVICE	8.8	8.2	9.0	108
7720	SOUTHERN STATES FLEMINGSBURG COOP	8.0	8.1	8.5	101
7725	SOUTHERN STATES MAYSVILLE COOP	7.9	8.5	8.1	102
7782	SOUTHERN STATES BOWLING GREEN COOP	8.2	8.4	9.5	106
8032	FARMERS EXCHANGE BURKESVILLE	7.9	8.1	9.0	102
8074	HICKORY BILLS FARM STORE	7.9	8.4	8.4	102
8229	SOUTHERN STATES CAMPBELLSVILLE COOP	7.8	8.5	8.4	102
8440	SOUTHERN STATES MORGANFIELD COOP	8.1	8.3	8.7	103
8630	CARROLL COUNTY FARM BUREAU COOP	8.4	7.9	8.7	104
<u>20 SUPERPHOSPHATE</u>					
8499	ELKTON FARM SUPPLY		20.4		102
8687	CAMARGO FARMERS SUPPLY		20.7		103
8696	FARMERS SUPPLY COMPANY PAINTSVILLE		20.1		100
<u>50 SULFATE OF POTASH</u>					
7898	TEATER & CASSITY			49.8	100
7937	SOUTHERN STATES OWENTON COOPERATIVE			51.4	103
<u>60 MURIATE OF POTASH</u>					
7744	SOUTHERN STATES LEXINGTON COOP			60.8	101
7766	CURTIS NUNN			60.5	101
7941	SOUTHERN STATES GEORGETOWN COOP			60.0	100
7993	SOUTHERN STATES CARLISLE COOPERATIVE			60.0	100
8034	FARMERS SERVICE STORE THOMPKINSVILLE			60.1	100
8393	SOUTHERN STATES GEORGETOWN COOP			55.8*	93*
8683	SOUTHERN STATES LEXINGTON COOP			60.8	101
<u>DARLING &amp; COMPANY</u>					
<u>0 20 20M</u>					
7529	FARMERS IMPLEMENT & SUPPLY HICKMAN		19.9	20.3	100
8762	KEVIL FEED & SUPPLY		20.2	20.2	101
<u>3 9 18M</u>					
7863	CITY COAL COMPANY	3.1	9.5	18.8	105
<u>3 9 27M</u>					
7858	FARMERS GIN COMPANY	3.0	9.2	27.7	102
<u>3 12 12M</u>					
7541	MAYFIELD SWEET FEED MILLS	3.0	12.2	12.5	102
7852	T C EDWARDS	2.9	12.4	12.5	102
<u>4 12 8M</u>					
7535	GRAVES COUNTY SOIL ASSOCIATION	4.1	12.7	8.2	104
7859	FARMERS GIN COMPANY	4.1	12.4	8.0	102
8205	CALLOWAY COUNTY SOIL IMPROV ASSOC	4.1	12.2	8.5	103
8768	BALLARD COUNTY COOPERATIVE	4.2	11.9	8.4	102
8787	MAYFIELD SWEET FEED MILL	4.2	12.5	7.9	103
<u>4 16 16M</u>					
7851	T C EDWARDS	3.9	16.0	17.2	102
7860	FARMERS GIN COMPANY	3.7*	15.8	16.5	99
<u>5 10 15S</u>					
7536	GRAVES COUNTY SOIL ASSOCIATION	5.2	10.8	15.5 (1)	105
7542	MAYFIELD SWEET FEED MILLS	5.3	10.7	15.6	106
7861	FARMERS GIN COMPANY	5.2	10.8	15.2 (2)	105

(1) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH  
(2) EXCESS MURIATE EQUIVALENT TO 1.3% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>DARLING &amp; COMPANY CONTINUED</u>					
	6 12 12M				
7531	FARMERS IMPLEMENT & SUPPLY HICKMAN	6.2	12.8	12.3	105
7853	T C EDWARDS	6.0	12.5	12.3	102
8085	HUNT BROTHERS	6.3	12.8	12.8	106
8764	KEVIL FEED & SUPPLY	6.0	12.6	12.2	103
8772	BARDWELL FEED MILL	6.1	12.1	12.4	102
	12 12 12M				
7530	FARMERS IMPLEMENT & SUPPLY HICKMAN	12.0	12.7	12.4	102
7537	GRAVES COUNTY SOIL ASSOCIATION	11.6*	13.0	12.4	102
7543	MAYFIELD SWEET FEED MILLS	12.1	12.0	12.8	102
8761	CAMPBELLS MILL	11.3*	13.3	12.5	101
8763	KEVIL FEED & SUPPLY	11.7*	12.3	13.1	101
	60 MURIATE OF POTASH				
8176	BARDWELL FEED MILL			61.0	102
8217	BALLARD COUNTY COOPERATIVE			61.8	103
8767	BALLARD COUNTY COOPERATIVE			60.1	100
<u>DAVISON CHEMICAL CORP COLUMBUS OHIO</u>					
	3 12 12M				
7730	LOGAN & HALL	3.2	11.0*	13.2	100
7990	MERCHANTS WHOLESALE INC	3.1	11.8	12.3	100
	5 10 10M				
7987	MERCHANTS WHOLESALE INC	4.9	10.1	10.8	102
	5 10 15S				
7989	MERCHANTS WHOLESALE INC	5.1	10.4	15.9	104
	6 12 12M				
7988	MERCHANTS WHOLESALE INC	6.1	11.2*	13.6	101
<u>DAVISON CHEMICAL CORP NASHVILLE TENN</u>					
	0 12 12M				
7857	T C EDWARDS		11.4*	12.6	98
8251	W I SMITH GENERAL STORE		12.1	13.3	104
8395	J H LYONS & SON		12.5	12.5	104
	0 20 20M				
8336	FARMERS COOPERATIVE MADISONVILLE		18.9*	19.0*	95*
8396	J H LYONS & SON		18.8*	18.9*	94*
8528	GILLISPIE SEED COMPANY		19.3*	19.1*	96*
	2 12 6M				
7400	MADISONVILLE FARMERS COOPERATIVE	2.5	11.2*	7.4	104
7418	METCALFE COUNTY FARM SUPPLY	2.2	13.4	5.1*	107
8047	E S FERRILL HARDWARE	2.4	12.0	6.7	105
8158	DEWEY STRICKLER	3.0	11.9	7.9	113
8529	GILLISPIE SEED COMPANY	1.9	12.0	6.4	100
	3 9 6M				
7415	H T BARTLEY	3.0	8.0*	7.1	97
7797	FARMERS HAY & SEED CO SMITHS GROVE	3.0	8.3*	6.8	98
	3 9 18M				
7528	T W MOORE & SON	3.4	10.3	14.7*	101

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>DAVISON NASHVILLE CONTINUED</u>					
3 12 12M					
7655	J H LYON	2.9	11.9	11.4*	98
8031	STOCKTON BROTHERS	2.8	12.3	11.5*	99
8265	WABASH ELEVATOR COMPANY	3.0	11.9	12.0	100
8337	FARMERS COOPERATIVE MADISONVILLE	3.4	11.7*	13.0	104
8589	RUARK TRUCK LINES	3.9	13.0	10.2*	106
	GRAYS & BISHOP	3.0	12.5	11.5*	101
	STOCKTON BROTHERS	3.0	13.6	10.5*	104
4 12 8M					
8157	DEWEY STRICKLER	4.1	12.3	8.8	104
8559	SMITH REYNOLDS COMPANY	4.0	12.3	9.1	104
8565	FARMERS COOPERATIVE MADISONVILLE	4.1	11.9	9.1	103
8582	BENNETT FARM SUPPLY	3.8	12.0	8.0	99
8613	ALLEN COUNTY FARMERS SERVICE	4.1	11.8	8.5	101
8681	C S BRENT SEED COMPANY	3.8	12.8	7.9	102
4 16 16M					
8266	WABASH ELEVATOR COMPANY	4.3	15.7*	16.2	101
8338	FARMERS COOPERATIVE MADISONVILLE	4.0	16.2	16.6	102
8527	GILLISPIE SEED COMPANY	3.9	16.3	16.5	101
8590	RUARK TRUCK LINES	4.0	16.3	17.5	104
5 10 10M					
7414	H T BARTLEY	4.8	10.9	10.3	103
7502	FARMERS COOPERATIVE MADISONVILLE	5.1	10.0	10.2	101
8169	ALLEN COUNTY FARMERS SERVICE	5.0	10.4	11.0	104
8588	MORGANFIELD HARDWARE COMPANY	4.7*	10.4	9.7*	100
5 10 15S					
7779	BROWN SEED CLEANING COMPANY	5.0	10.5	14.9	102
7902	GENTRY MCCAULEY	5.0	10.0	15.7	101
8099	MARSHALL COUNTY SOIL IMPROV ASSOC	4.9	10.1	17.6	105
5 20 20M					
7399	FARMERS COOPERATIVE MADISONVILLE	5.4	20.1	20.1	102
6 8 6 M					
8680	C S BRENT SEED COMPANY	5.5*	9.3	6.9	105
6 8 6S					
7654	J H LYON	3.9*	9.8	7.2 (1)	96
6 12 12M					
8067	H B LENEAVE & SON	6.1	12.6	12.2	103
8339	FARMERS COOPERATIVE MADISONVILLE	5.6*	12.0	13.1	100
8533	DEWEY STRICKLER	5.5*	13.4	11.6*	102
8560	SMITH REYNOLDS COMPANY	5.4*	12.9	12.1	100
8600	W I SMITH GENERAL STORE	5.6*	12.8	12.4	101
8 8 8M					
8088	HUNT BROTHERS	7.2*	8.2	8.1	96*
8583	BENNETT FARM SUPPLY	7.2*	8.5	8.2	98
10 10 10M					
7843	SALEM FEED & SEED COMPANY	9.7*	10.3	10.3	100
8068	H B LENEAVE & SON	9.7*	10.7	9.8	100
8267	WABASH ELEVATOR COMPANY	9.8	10.5	10.9	102
8532	DEWEY STRICKLER	9.8	10.6	10.0	101
8566	FARMERS COOPERATIVE MADISONVILLE	9.0*	11.0	10.9	100
8595	CRAFTON BROS & DUNCAN	9.8	10.8	10.6	103

(1) EXCESS MURIATE EQUIVALENT TO 3.0% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>DAVISON NASHVILLE CONTINUED</u>					
20 SUPERPHOSPHATE					
7780	BROWN SEED CLEANING COMPANY		21.4		107
7844	SALEM FEED & SEED COMPANY		20.0		100
8159	HUGHES HARDWARE COMPANY		20.1		100
8507	STINSON FARM SUPPLY		21.0		101
8534	DEWEY STRICKLER		20.0		100
8580	BENNETT FARM SUPPLY		20.5		103
8594	CRAFTON BROS & DUNCAN		20.1		100
8624	GRAYS & BISHOP		20.7		103
8679	C S BRENT SEED COMPANY		19.9		100
45 SUPERPHOSPHATE					
8412	GALLOWAY SEED COMPANY		45.5		101
8581	BENNETT FARM SUPPLY		45.5		101
50 SULFATE OF POTASH					
7503	FARMERS COOPERATIVE MADISONVILLE			50.9	102
60 MURIATE OF POTASH					
8512	FARMERS MILL & SUPPLY BROWNSVILLE			60.6	101
<u>DAVISON CHEMICAL CORP NEW ALBANY IND</u>					
0 20 20M					
8255	DELBERT HUFFMAN		19.7*	22.7	104
2 12 6M					
7756	R D REYNOLDS	2.0	11.7*	5.7*	98
7884	MCCARTY FARM SERVICE	2.2	11.5*	6.4	100
7915	JONES HARDWARE COMPANY	2.1	11.1*	7.0	99
8732	H H COOMER	2.2	12.0	6.9	104
3 12 12M					
7690	CLIMAX ROLLER MILLS	2.9	11.9	12.4	100
7908	BUECHEL PRODUCE EXCHANGE	3.0	11.3*	12.8	99
8117	JEWELL & HAYDEN COMPANY	3.3	11.7*	11.4*	99
8598	HENDERSON FEED & COMMISSION COMPANY	3.0	11.9	12.5	101
8631	DUNCAN & HUGHES COMPANY	3.7	12.2	12.1	106
4 12 8M					
7885	JOE WILLIS	3.9	10.6*	9.6	97
8271	EVERETT WOOSLEY GENERAL STORE	3.6*	12.3	7.6*	98
8549	CLARKSON FEED STORE	4.8	11.1*	9.2	104
8733	H H COOMER	3.7*	12.0	8.8	100
4 24 12M					
8256	DELBERT HUFFMAN	4.7	19.6*	12.5	91*
5 10 15S					
7697	DAN W TAYLOR	4.3*	11.0	17.3 (1)	104
7760	WARDS GROCERY	4.8	10.5	15.2 (2)	101
7926	DILLARD STANLEY	5.0	9.9	15.4 (3)	100
5 20 20M					
8632	DUNCAN HUGHES & COMPANY	4.5*	19.9	21.3	99
8639	BUECHEL PRODUCE EXCHANGE	4.8	19.9	21.4	101

(1) EXCESS MURIATE EQUIVALENT TO 2.2% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>DAVISON NEW ALBANY CONTINUED</u>					
	6 8 6 M				
7691	CLIMAX ROLLER MILLS	4.6*	8.6	6.6	94*
7909	BUECHEL PRODUCE EXCHANGE	5.9	8.2	6.6	102
8087	HUNT BROTHERS	5.9	8.5	7.4	105
8107	BUECHEL PRODUCE EXCHANGE	5.7*	8.4	7.2	103
8599	HENDERSON FEED & COMMISSION COMPANY	5.6*	8.0	7.2	100
	6 8 6S				
7395	KINCAID GENERAL MERCHANDISE	6.0	9.4	7.5 (1)	111
	12 12 12M				
8116	JEWELL & HAYDEN COMPANY	11.7*	12.8	12.4	102
8638	BUECHEL PRODUCE EXCHANGE	11.3*	12.8	12.8	100
	20 SUPERPHOSPHATE				
8270	EVERETT WOOSLEY GENERAL STORE		20.3		102
	45 SUPERPHOSPHATE				
7892	CORRELL STORE		43.9*		98
8102	JEWELL & HAYDON		44.7		99
	60 MURIATE OF POTASH				
7698	DAN W TAYLOR			59.4*	99
8115	JEWELL & HAYDEN COMPANY			57.8*	96*
<u>DEERE &amp; COMPANY DIV GRAND RIVER CHEM</u>					
	45 UREA COMPOUND				
7788	ELDON WELCH	4.4.6			99
<u>E TOWN FERTILIZER COMPANY</u>					
	0 20 20M				
8550	E TOWN FERTILIZER COMPANY		20.8	17.5*	99
	3 12 12M				
8244	E TOWN FERTILIZER COMPANY	3.2	12.8	12.9	107
	4 12 8M				
8243	E TOWN FERTILIZER COMPANY	3.8	12.4	9.3	103
	4 16 16M				
5245	E TOWN FERTILIZER COMPANY	4.1	16.8	17.5	106
<u>FARMERS FERTILIZER COMPANY</u>					
	5 10 10M				
8517	J H MADISON	4.7*	9.6*	10.8	98
	5 20 20M				
8518	E W MARTIN	5.2	18.4*	19.5*	96*

(1) EXCESS MURIATE EQUIVALENT TO 1.2% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>FEDERAL CHEMICAL CO HUMBOLDT TENN</u>					
7865	0 20 20M CITY COAL COMPANY		19.6*	19.5*	98
7532	3 9 18M E W JAMES GROCERY	3.1	9.1	16.8*	98
8199	3 12 12M L F THURMOND	3.1	12.2	12.3	102
8215	DAIRYMANS SUPPLY COMPANY	3.3	12.0	12.4	103
7864	4 8 8M CITY COAL COMPANY	4.3	8.0	8.7	104
7548	4 12 8M SOLON HENDRICKS GENERAL MERCHANDISE	4.5	11.9	8.5	104
8785	YOUNGBLOOD BROTHERS	4.2	11.2*	8.9	100
7866	4 16 16M CITY COAL COMPANY	4.0	15.4*	16.0	98
8216	DAIRYMANS SUPPLY COMPANY	3.9	16.0	15.7*	99
7549	5 10 15S SOLON HENDRICKS GENERAL MERCHANDISE	5.2	10.4	14.3*	101
7849	6 8 6 M MARTIN & DEWEESE	5.9	7.5*	6.1	97
7533	6 12 12M E W JAMES GROCERY	6.1	12.0	12.1	101
7550	SOLON HENDRICKS GENERAL MERCHANDISE	6.2	12.1	11.5*	101
7867	8 8 8M CORES STORE	7.8	8.5	8.4	102
7871	HATCHETTS COMMUNITY STORE	8.2	8.3	8.3	103
7850	10 10 10M MARTIN & DEWEESE	9.4*	10.2	10.3	98
8177	BARDWELL FEED MILL	9.4*	10.0	10.6	98
8786	YOUNGBLOOD BROTHERS	10.1	9.9	10.8	102
8784	20 SUPERPHOSPHATE YOUNGBLOOD BROTHERS		20.6		103
<u>FEDERAL CHEMICAL CO LOUISVILLE KY</u>					
7822	0 9 27M 5LB BORAX PER 100 FEDERAL CHEMICAL COMPANY WAREHOUSE (1)		9.5	22.6*	92*
8257	B CARDEN (2)		10.0	27.2	105
8678	FEDERAL CHEMICAL COMPANY WAREHOUSE (3)		9.5	26.6*	101
8730	0 20 10M U L ROGERS & SON		19.0*	10.0	96*
7999	0 20 20M H T DERICKSON JR		18.7*	18.9*	94*
8172	THOMERSON MILLING COMPANY		18.4*	20.9	96*
8617	H D JONES		20.0	18.6*	98
8676	FEDERAL CHEMICAL COMPANY WAREHOUSE		18.4*	21.2	97*

(1) BORON GUARANTEED 0.57%-----FOUND 0.34%

(2) BORON GUARANTEED 0.57%-----FOUND 0.52%

(3) BORON GUARANTEED 0.57%-----FOUND 0.56%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<i>FEDERAL LOUISVILLE CONTINUED</i>					
<i>2 12 6M</i>					
7733	GRAYSON MILLING COMPANY	2.6	11.7*	6.0	103
7774	ALLEN & JENKINS	3.4	12.2	6.7	
7821	FEDERAL CHEMICAL COMPANY WAREHOUSE	2.6	12.1	6.4	
8297	TAYLOR COUNTY IMPLEMENT COMPANY	2.6	11.9	6.9	107
8539	ALLEN & JENKINS	2.1	13.5	6.6	111
8548	GRAYSON COUNTY SUPPLY COMPANY	2.3	11.7*	6.8	103
8618	H D JONES	2.4	12.3	7.2	108
8729	U L ROGERS & SON	2.2	11.9	6.7	103
<i>3 9 6M</i>					
7557	TRUMAN ATHERTONS GROCERY	3.1	10.9	7.4	117
7879	HACKNEY HARLAN COMPANY	3.7	9.1	7.2	111
8236	BROWN SUPPLY COMPANY	3.4	10.1	8.2	117
<i>3 12 12M</i>					
7558	TRUMAN ATHERTONS GROCERY	2.9	11.7*	13.2	101
7639	BENSON VALLEY MILLING COMPANY	3.2	12.2	11.8	102
7770	GATTON PRICE	3.1	11.8	12.4	101
7823	FEDERAL CHEMICAL COMPANY WAREHOUSE	3.1	11.9	12.2	101
8616	H D JONES	2.8	11.3*	10.4*	92*
<i>4 12 8M</i>					
7731	LOGAN & HALL	4.7	11.0*	8.4	101
8026	FARMERS CASH STORE LIBERTY	4.6	11.2*	8.6	102
8029	FIECHTER HARDWARE COMPANY	4.2	11.7*	8.7	102
8122	A R DYER GENERAL STORE	4.1	11.6*	8.4	100
8547	GRAYSON COUNTY SUPPLY COMPANY	4.4	12.0	10.0	107
<i>4 16 16M</i>					
7559	TRUMAN ATHERTONS GROCERY	4.0	15.1*	15.3*	96*
7810	H T DERICKSON JR	4.7	15.0*	15.4*	99
7819	FEDERAL CHEMICAL COMPANY WAREHOUSE	4.2	15.4*	15.9	99
<i>5 10 15S</i>					
7560	TRUMAN ATHERTONS GROCERY	4.9	10.2	15.3	101
7593	M C ROBERTS COAL & FEED COMPANY	5.1	10.2	16.2	104
7676	SELBERT QUIRE	5.6	10.3	16.1	107
<i>5 20 20M</i>					
7820	FEDERAL CHEMICAL COMPANY WAREHOUSE	5.2	20.4	20.1	102
8258	B CARDEN	5.2	20.0	19.6*	100
8677	FEDERAL CHEMICAL COMPANY WAREHOUSE	5.2	20.1	20.5	102
<i>6 6 18S</i>					
7825	FEDERAL CHEMICAL COMPANY WAREHOUSE	5.9	6.6	18.1	102
<i>6 8 6 M</i>					
7561	TRUMAN ATHERTONS GROCERY	6.3	8.5	6.7	106
7729	LOGAN & HALL	6.1	8.4	6.5	104
<i>6 8 6S</i>					
8259	B CARDEN	6.4	9.5	8.0 (1)	116
<i>10 10 10M</i>					
7592	M C ROBERTS COAL & FEED COMPANY	10.0	10.0	10.7	101
7732	GRAYSON MILLING COMPANY	9.3*	11.3	10.2	101
7976	FEDERAL CHEMICAL COMPANY WAREHOUSE	10.1	10.1	10.6	102
<i>20 SUPERPHOSPHATE</i>					
7562	TRUMAN ATHERTONS GROCERY		20.7		103
8540	ALLEN & JENKINS		20.1		100
<i>50 SULFATE OF POTASH</i>					
7824	FEDERAL CHEMICAL COMPANY WAREHOUSE			50.9	102

(1) EXCESS MURIATE EQUIVALENT TO 1.4% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>FEDERAL CHEMICAL CO NASHVILLE TENN</u>					
8340	0 9 27M 5LB BORAX PER 100 W C BROOKS (1)		9.4	24.4*	96*
7507	0 20 10M W C BROOKS		17.8*	12.1	95*
8154	0 20 20M ROBERT JAMES FEED COMPANY		18.3*	18.5*	92
8575	DOUGLAS HELM		20.0	20.0	100
7847	2 12 6M SALEM FEED & SEED COMPANY	2.6	12.0	6.2	106
8524	ROBERT JAMES FEED COMPANY	2.8	11.4*	8.4	110
8552	BOND S FEED MILL	3.5	11.5*	8.0	115
7776	3 9 6M ALLEN & JENKINS	3.3	9.6	7.1	110
7829	CARLISLE & ABNER	3.3	8.5*	5.9	99
8487	LANDER HARDWARE COMPANY	3.2	9.1	5.7*	102
8553	BOND S FEED MILL	3.1	10.4	6.4	111
7416	3 12 6M COOK & MOORE	3.0	11.6*	6.9	100
7505	W C BROOKS	3.2	12.0	8.7	108
8170	PARIS PRODUCE COMPANY	3.1	10.8*	6.4	96*
8488	LANDER HARDWARE COMPANY	3.1	11.3*	6.7	99
8576	DOUGLAS HELM	3.0	11.4*	6.4	98
8171	3 12 12M THOMERSON MILLING COMPANY	3.2	11.1*	11.0*	95*
8521	ROBERT JAMES FEED COMPANY	2.7*	11.9	10.9*	95*
8567	W C BROOKS	3.2	11.4*	11.4*	97
8577	DOUGLAS HELM	3.9	11.9	11.7*	105
7777	4 12 8M ALLEN & JENKINS	4.0	12.5	7.8	102
8462	CARLISLE & ABNER	3.8	11.1*	7.8	94*
8523	ROBERT JAMES FEED COMPANY	2.9*	11.4*	10.1	95*
8541	ALLEN & JENKINS	3.9	11.3*	8.5	97
8554	BOND S FEED MILL	4.5	11.5*	8.9	103
8568	W C BROOKS	3.8	11.6*	8.9	99
8584	BENNETT FARM SUPPLY	4.0	11.3*	8.5	98
8522	4 16 16M ROBERT JAMES FEED COMPANY	4.6	17.9	15.3*	108
8246	4 16 16M 4LB BORAX PER 100 ROBERT JAMES FEED COMPANY	3.8	14.6*	15.5*	92*
8191	5 10 10M J R WALLACE	4.9	9.3*	10.1	96*
8260	B CARDEN	5.1	10.1	11.0	103
8578	DOUGLAS HELM	4.8	10.0	9.2*	97
7417	5 10 10S COOK & MOORE	4.9	9.7*	12.4 (2)	103
7506	W C BROOKS	4.7*	10.0	10.0	98
7392	5 10 15S H C ROBY	4.7*	9.9	14.7*(3)	97

(1) BORON GUARANTEED 0.45%-----FOUND 0.52%

(2) EXCESS MURIATE EQUIVALENT TO 0.6% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 0.8% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>FEDERAL NASHVILLE CONTINUED</u>					
8341	5 20 20M W C BROOKS	5.4	17.2*	16.4*	89*
7830	6 8 6M CARLISLE & ABNER	6.0	8.7	6.3	104
7831	6 8 6S CARLISLE & ABNER	5.3*	9.6	7.1 (1)	106
8569	6 12 12M W C BROOKS	6.3	11.9	10.8*	99
7391	8 8 8M H C ROBY	8.3	8.5	8.2	104
7848	SALEM FEED & SEED COMPANY	7.0*	8.8	8.3	98
7968	BONDS FEED MILL	7.5*	8.8	8.4	101
8069	H B LENEAVE & SON	7.8	8.1	8.5	100
8570	W C BROOKS	6.2*	9.7	8.8	98
8585	BENNETT FARM SUPPLY	6.3*	9.7	8.6	98
7393	10 10 10M H C ROBY	9.4*	10.3	10.3	98
7842	SALEM FEED & SEED COMPANY	9.3*	10.4	9.9	98
7969	BONDS FEED MILL	6.5*	9.3*	8.6*	78*
8342	W C BROOKS	9.1*	10.3	10.0	97*
8579	DOUGLAS HELM	9.7*	11.0	10.7	103
8155	20 SUPERPHOSPHATE ROBERT JAMES FEED COMPANY		16.9*		85*
8574	DOUGLAS HELM		20.7		103
8625	FEDERAL CHEMICAL COMPANY WAREHOUSE		20.9		105
<u>GOULARD &amp; OLENA INC</u>					
8019	5 6 15M GEORGE W HILL COMPANY	6.0	8.0	13.8*	114
<u>HUTSON CHEMICAL COMPANY</u>					
7534	4 12 8M COLLIER BROTHERS FEED MILL	4.2	11.9	8.8	103
8409	WINGO FEED & SUPPLY COMPANY	3.8	11.3*	10.3	101
8776	HUTSON CHEMICAL COMPANY WAREHOUSE	4.2	12.0	10.0	106
8782	WARREN SEED COMPANY	3.6*	12.2	8.7	100
7540	4 12 8M WITH 1 ALDRIN GRAVES COUNTY SOIL ASSOCIATION	4.0	12.0	8.1	100
7872	HATCHETTS COMMUNITY STORE	4.4	11.6*	9.1	103
7873	4 12 8S SMITH & OVERBY	4.3	11.6*	8.1	100
7544	5 10 15S WINGO FEED & SUPPLY	5.1	9.6*	15.5	100
7855	T C EDWARDS	5.0	9.6*	15.6	100

(1) EXCESS MURIATE EQUIVALENT TO 2.9% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>HUTSON CHEMICAL CONTINUED</u>					
7854	5 20 20M T C EDWARDS	5.2	19.9	21.0	102
7874	SMITH & OVERBY	4.8	20.1	19.7*	99
8066	ELLIS POPCORN COMPANY	4.8	20.2	20.7	101
7856	6 12 12M T C EDWARDS	5.8	11.7*	12.6	99
7875	SMITH & OVERBY	6.1	11.9	12.3	101
8410	WINGO FEED & SUPPLY COMPANY	5.3*	11.5*	12.1	94*
8777	HUTSON CHEMICAL COMPANY WAREHOUSE	5.7*	12.6	12.8	102
7862	8 8 8M FARMERS GIN COMPANY	7.1*	9.0	9.0	101
8771	48 SUPERPHOSPHATE FARMERS GIN COMPANY		47.9		100
8195	50 SULFATE OF POTASH WARREN SEED COMPANY			50.2	100
<u>INTERNATIONAL MIN &amp; CHEM CARLSBAD</u>					
7675	48 6 SULFATE OF POTASH RUFUS HUTCHERSON			51.8	106
<u>INTERNATIONAL MIN &amp; CHEM GREENVILLE</u>					
7816	3 9 6M LEWIS WHOLESALE COMPANY	3.0	9.0	6.3	101
7881	HARLAN FRUIT COMPANY	3.1	8.9	6.6	102
7882	5 10 5M HARLAN FRUIT COMPANY	5.1	9.9	5.9	102
<u>INTERNATIONAL MIN &amp; CHEM CHICAGO ILL</u>					
7775	48 6 SULFATE OF POTASH ALLEN & JENKINS			50.6	104
8242	60 MURIATE OF POTASH LEITCHFIELD TRANSFER			60.1	100
<u>INTERNATIONAL MIN &amp; CHEM CINCINNATI</u>					
8142	0 12 12M FARM & HOME SUPPLY IRVINE		12.1	12.6	102
8692	0 20 20M OWINGSVILLE FARMERS SUPPLY		20.3	22.3	105
7772	3 12 12M ROY RAGLAND	3.2	12.5	11.5*	102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>INTERNATIONAL CINCINNATI CONTINUED</u>					
7669	4 12 8M BARNETT SULLIVAN & COMPANY	3.9	12.1	9.4	103
7667	5 10 10M BARNETT SULLIVAN & COMPANY	5.1	9.8	9.9	100
7668	5 10 15S BARNETT SULLIVAN & COMPANY	6.4	9.8	15.2 (1)	108
7771	5 20 20M ROY RAGLAND	5.4	18.7*	18.6*	96*
8239	10 10 10M COOPER BROTHERS FEED STORE	9.7*	9.9	11.6	101
8555	20 SUPERPHOSPHATE FARMERS FEED STORE CENTRAL CITY		21.0		105
8691	OWINGSVILLE FARMERS SUPPLY		20.8		104
8749	W S ALLEN		20.5		103
8781	ROSS FEED COMPANY		21.1		105
<u>INTERNATIONAL MIN &amp; CHEM CLARKSVILLE</u>					
8401	0 12 12M HUNT BROTHERS		13.1	11.8	106
7518	0 20 20M PRINCETON MILLS		20.4	20.8	103
8402	HUNT BROTHERS		19.7*	20.0	99
7510	2 12 6M PRINCETON MILLS	2.4	12.4	7.6	110
8089	HUNT BROTHERS	2.2	12.0	6.6	103
8403	HUNT BROTHERS	2.4	11.9	7.6	107
8454	PRINCETON MILLS	2.3	11.9	7.5	106
8775	CADIZ HARDWARE COMPANY	2.4	11.9	7.3	106
7511	3 9 6M PRINCETON MILLS	3.1	9.3	6.8	105
8090	HUNT BROTHERS	3.0	9.0	6.6	102
8343	3 12 12M FARMERS COOPERATIVE STORE OWENSBORO	3.2	12.1	11.8	101
8455	PRINCETON MILLS	3.0	12.1	12.3	101
7512	4 12 8M PRINCETON MILLS	3.8	12.0	8.9	101
8091	HUNT BROTHERS	4.2	11.9	8.3	102
8344	FARMERS COOPERATIVE STORE OWENSBORO	4.6	12.0	8.6	105
8404	HUNT BROTHERS	4.4	11.7*	9.0	104
8456	PRINCETON MILLS	4.4	11.5*	9.1	103
8460	R D SANDERFUR	4.5	11.9	9.7	107
7514	4 12 8S PRINCETON MILLS	4.2	12.1	8.0	102
7515	5 10 10S PRINCETON MILLS	5.0	9.9	11.3	102

(1) EXCESS MURIATE EQUIVALENT TO 2.4% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>INTERNATIONAL CLARKSVILLE CONTINUED</u>					
8345	5 20 20M FARMERS COOPERATIVE STORE OWENSBORO	4.8	19.3*	20.5	98
7509	6 8 6M PRINCETON MILLS	6.0	8.2	7.0	104
8457	PRINCETON MILLS	5.6*	8.4	6.3	100
8556	FARMERS FEED STORE CENTRAL CITY	6.2	8.3	6.5	104
7513	6 8 6S PRINCETON MILLS	5.9	7.7*	7.9	102
7954	CAYCE & YOST COMPANY	6.0	9.9	7.9	114
8489	6 12 12M LANDER HARDWARE COMPANY	6.3	12.0	12.7	103
8557	FARMERS FEED STORE CENTRAL CITY	6.3	11.9	12.9	103
8346	6 12 12 9M 3S FARMERS COOPERATIVE STORE OWENSBORO	6.3	12.5	11.9 (2)	103
8458	PRINCETON MILLS	6.1	13.0	12.8	106
7516	10 10 10M PRINCETON MILLS	9.7*	10.4	10.9	101
7834	R D SANDERFUR	9.6*	10.4	11.2	101
8459	PRINCETON MILLS	9.3*	10.0	10.4	97*
8558	FARMERS FEED STORE CENTRAL CITY	9.0*	11.7	10.4	101
7508	20 SUPERPHOSPHATE PRINCETON MILLS		19.6*		98
7953	CAYCE & YOST COMPANY		20.8		104
7519	60 MURIATE OF POTASH PRINCETON MILLS			59.7	100
8453	PRINCETON MILLS			59.9	100
<u>INTERNATIONAL MIN &amp; CHEM SOMERSET</u>					
8727	0 14 7M JIM SQUIRES		14.3	8.9	107
7893	0 20 20M CITY FOOD MARKET		19.9	21.6	102
8603	0 20 20M 5LB BORAX PER 100 WOODSON LEWIS (1)		18.5*	20.1	95*
8748	2 12 6M W S ALLEN	2.0	12.2	6.3	102
7597	3 9 6S BOND & BOTNER	3.0	9.0	6.3	101
7891	3 12 12M SOMERSET SEED COMPANY	2.9	12.4	11.7*	100
8040	G M SANDIDGE	2.9	12.0	12.5	100
8044	HADIS HARVEY GENERAL STORE	3.3	12.0	12.2	102
8400	SPRINGFIELD FEED & GRAIN COMPANY	3.0	12.2	11.9	101
8726	JIM SQUIRES	3.1	12.2	12.8	103

(1) BORON GUARANTEED 0.57%-----FOUND 0.55%

(2) EXCESS MURIATE EQUIVALENT TO 5.4% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>INTERNATIONAL SOMERSET CONTINUED</u>					
7424	4 12 8M U L ROGERS & SONS	4.1	12.7	8.4	105
8134	TARTER PRODUCE	4.2	11.9	8.2	101
8602	WOODSON LEWIS	3.8	11.7*	8.0	97
8747	W S ALLEN	3.9	11.8	8.4	99
8028	4 12 8S BROWN FARM SUPPLY	4.1	11.8	8.2	100
8175	BUCKHORN COAL COMPANY	4.2	12.1	8.1	102
7406	5 10 15S CLAUDE BECK SERVICE STATION	5.2	10.0	15.2	102
7598	BOND & BOTNER	4.9	10.0	15.4	100
7409	5 20 20M FARMERS EXCHANGE BURKESVILLE	4.8	19.7*	21.0	100
8035	5 20 20M 5LB BORAX PER 100 ALBANY PRODUCE COMPANY	4.1*	17.1*	17.7*	86*
7421	6 8 6S ESTES & SHIRLEY	6.4	8.5	6.6	107
7596	W G CAMPBELL	6.1	8.0	6.6	102
7405	10 10 10M CLAUDE BECK SERVICE STATION	9.6*	10.5	10.9	101
7899	48 SULFATE OF POTASH RALPH HOVIOUS			49.9	104
<u>KENTUCKY FERTILIZER WORKS</u>					
7580	3 9 6M E C TUSSEY	3.1	8.4*	6.5	99
7812	STEVE ROSE MARKET	3.2	7.6*	6.4	95*
7662	3 12 12M FARMERS SUPPLY COMPANY DANVILLE	3.3	11.9	12.7	103
7813	4 6 15S STEVE ROSE MARKET	4.1	6.8	14.8	104
7582	4 12 8M ROBINSON & TURLEY	4.3	11.7*	8.1	101
7991	R T LITTLE	4.0	11.5*	9.3	101
7663	5 10 15S FARMERS SUPPLY COMPANY DANVILLE	5.1	9.9	15.9	102
7945	FARMERS SUPPLY COMPANY DANVILLE	5.2	10.0	15.8	103
7579	6 8 6S E C TUSSEY	6.3	7.9	6.4	103
7637	ELKHORN SUPPLY COMPANY	5.5*	8.6	6.0 (1)	99
7811	6 8 16S STEVE ROSE MARKET	6.0	8.3	16.9	103

(1) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>KENTUCKY FERTILIZER WORKS CONTINUED</u>					
7664	10 10 10M FARMERS SUPPLY COMPANY DANVILLE	10.2	10.1	10.4	102
7581	20 SUPERPHOSPHATE ROBINSON & TURLEY		20.2		101
7802	AGEES FARM SUPPLY		19.9		100
7804	60 MURIATE OF POTASH SPHAR & COMPANY			60.7	101
<u>KNOXVILLE FERTILIZER CO LONDON KY</u>					
7939	0 12 12M 3LB BORAX PER 100 G M TAYLOR SEED COMPANY (1)		12.0	12.7	102
8131	0 20 20M HOBERT & MILTON ROBERTS		18.4*	20.4	95*
7901	3 9 6M D H THOMAS	4.0	9.7	8.5	121
8139	A P VAUGHT & COMPANY	2.9	9.2	6.9	103
7644	3 9 18S VALLEY HILL STORE	3.4	8.9	19.3	105
7680	HENRY DUVAL	3.3	9.8	20.1	110
8129	3 12 12M HOBERT & MILTON ROBERTS	3.5	12.7	12.3	107
8293	4 12 8M SHIPP SEED HOUSE	3.9	12.0	8.7	101
7818	5 10 5M CASH WHOLESALE COMPANY	5.6	8.7*	5.9	100
8146	5 10 10M M C ROBERTS COAL & FEED COMPANY	4.7*	10.7	10.6	102
7589	5 10 15S FIKE & DENNIS FARM SUPPLY	5.1	10.3	15.6	103
7642	6 6 18S BILL QUARLES	6.0	6.2	17.5*	100
7638	6 8 6M KENTUCKY STATE INDUSTRIAL COLLEGE	6.1	8.3	7.0	105
7944	BARNETT SULLIVAN & COMPANY	6.2	8.2	7.4	106
8277	FAYETTE SEED COMPANY	5.9	8.1	7.2	103
7590	6 8 6S FIKE & DENNIS FARM SUPPLY	6.3	8.4	6.5	106
8138	33 5 AMMONIUM NITRATE ROSCOE MORRIS	33.5			100
7843	20 SUPERPHOSPHATE BARNETT SULLIVAN & COMPANY		21.0		105
8130	HOBERT & MILTON ROBERTS		20.5		103

(1) BORON GUARANTEED 0.34%-----FOUND 0.21%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<u>KNOXVILLE LONDON CONTINUED</u>					
7408	60 MURIATE OF POTASH CURTIS & MCCOMAS			62.7	104
<u>KNOXVILLE FERTILIZER CO KNOXVILLE</u>					
7677	3 9 6S CAREY A SHEETS	3.0	9.8	6.6	107
7817	5 10 10M CASH WHOLESALE COMPANY	5.0	9.9	9.9	99
7883	WILDER STORE	4.8	10.1	9.5*	98
7940	20 SUPERPHOSPHATE G M TAYLOR SEED COMPANY		19.9		100
<u>KNOXVILLE FERTILIZER CO NASHVILLE</u>					
8536	0 12 12M FARMERS FEED MARKET		13.6	12.4	110
8537	0 20 20M FARMERS FEED MARKET		18.7*	17.5*	92*
7521	2 12 6M PRINCETON MILLS	2.4	13.0	6.9	111
7784	FARMERS FEED MARKET BOWLING GREEN	2.3	13.2	6.6	111
7878	TRI STATE WHOLESALE	2.2	12.3	6.6	105
8136	ROSCOE MORRIS	2.2	12.2	6.7	105
8165	HARRIS FEED COMPANY	2.9	12.1	7.7	113
8520	HARRIS FEED COMPANY	2.1	11.6*	6.5	100
8615	ALLEN COUNTY MILLS	2.2	11.3*	6.5	99
8436	2 12 12M 3LB BORAX PER 100 YOUNG BROTHERS FEED STORE (1)	2.1	13.5	12.2	108
7783	3 9 6M FARMERS FEED MARKET BOWLING GREEN	3.1	11.9	6.4	120
8614	ALLEN COUNTY MILLS	2.9	10.0	6.4	106
8751	WYNDALL S FARM STORE	3.2	10.9	6.7	112
8181	3 12 12M GALLOWAY SEED COMPANY	3.1	12.0	12.3	101
8414	GALLOWAY SEED COMPANY	3.1	11.9	14.1	105
8752	WYNDALL S FARM STORE	2.9	12.8	12.0	103
8519	4 12 8M HARRIS FEED COMPANY	3.9	12.2	8.2	101
8535	FARMERS FEED MARKET	3.7*	12.5	8.1	100
8571	NEBO MILL	4.0	12.6	8.3	103
8753	WYNDALL S FARM STORE	3.8	12.5	8.1	101
8182	4 12 8M WITH 1 ALDRIN GALLOWAY SEED COMPANY	4.0	12.4	8.1	102
7397	4 12 8S YOUNG BROTHERS FEED STORE	4.0	11.6*	8.4	99
8754	5 10 5M WYNDALL S FARM STORE	4.8	11.1	6.2	107

(1) BORON GUARANTEED 0.34%-----FOUND 0.27%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>KNOXVILLE NASHVILLE CONTINUED</u>					
7398	5 10 10S YOUNG BROTHERS FEED STORE	4.4*	11.0	10.6	102
8183	GALLOWAY SEED COMPANY	4.3*	10.6	11.7	102
7396	5 10 15M YOUNG BROTHERS FEED STORE	4.8	10.8	14.7*	101
8755	6 8 4M WYNDALL S FARM STORE	5.8	9.9	5.3	112
7522	6 8 6M KENTUCKY STATE PENITENTIARY	5.6*	8.9	6.7	103
8164	6 12 12M HARRIS FEED COMPANY	5.4*	12.0	12.0	97*
8184	GALLOWAY SEED COMPANY	5.4*	11.9	11.5*	95*
8415	GALLOWAY SEED COMPANY	5.7*	12.2	12.6	100
8572	NEBO MILL	5.7*	12.0	12.1	99
7394	12 12 12M WYNDALLS FARM STORE	10.7*	12.3	12.3	96*
7520	60 MURIATE OF POTASH PRINCETON MILLS			60.3	100
8437	YOUNG BROTHERS FEED STORE			60.3	101
<u>LAND O NAN WAREHOUSE STURGIS KY</u>					
8446	0 20 20M LAND O NAN WAREHOUSE		19.8	20.6	100
8442	0 30 30M LAND O NAN WAREHOUSE		29.4*	28.7*	97*
8328	3 12 12M LAND O NAN WAREHOUSE	3.5	14.0	12.8	114
8443	6 12 12M LAND O NAN WAREHOUSE	6.5	12.8	13.9	109
8444	8 8 8M LAND O NAN WAREHOUSE	8.9	8.1	7.9	106
8445	10 20 20M LAND O NAN WAREHOUSE	8.7*	21.5	19.1*	98
8327	12 12 12M LAND O NAN WAREHOUSE	12.1	12.6	12.8	103
8275	60 MURIATE OF POTASH LAND O NAN WAREHOUSE			61.0	102
8441	10 24 16M LAND O NAN WAREHOUSE	9.5*	24.1	15.5*	98*

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>LION OIL CO</u>					
	33 5 AMMONIUM NITRATE				
8030	MCWHORTER PRODUCE	33.5			100
8145	TRUMAN HOLLINSWORTH & COMPANY	33.6			100
8473	QUALITY GROCERY & HARDWARE COMPANY	34.0			101
<u>LOUISVILLE FERTILIZER CO</u>					
	0 20 20M				
8080	RATLIFF HARDWARE COMPANY		20.3	19.5*	100
	4 12 8M				
8221	YOPP SEED COMPANY	4.3	11.9	8.4	102
	4 12 8S				
8174	H D JONES	4.1	12.2	7.9	101
	4 16 16M				
8758	YOPP SEED COMPANY	3.9	15.9	15.6*	99
	5 10 15S				
8252	TICHENOR BROTHERS GROCERY	5.1	10.5	14.8	102
	6 8 6S				
8253	TICHENOR BROTHERS GROCERY	5.8	9.5	5.8	106
	8 8 8M				
8254	TICHENOR BROTHERS GROCERY	8.1	10.5	9.7	115
<u>MATHIESON CHEMICAL CORP HOUSTON TEX</u>					
	6 24 24M				
8210	HOWE HILLIARD GRAIN COMPANY	6.0	26.0	24.5	105
8526	GILLISPIE SEED COMPANY	6.4	24.0	24.6	102
	10 20 20M				
8196	WARREN SEED COMPANY	9.6*	20.0	21.6	100
8211	HOWE HILLIARD GRAIN COMPANY	10.3	20.5	19.9	102
<u>MID SOUTH CHEMICAL COMPANY</u>					
	6 12 12M				
8411	WINGO FEED & SUPPLY	5.8	11.5*	12.9	99
<u>MISSISSIPPI CHEMICAL CORPORATION</u>					
	33 5 AMMONIUM NITRATE				
7769	CURTIS NUNN	33.4			100

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>MISSOURI PLANT FOOD CO INC</u>					
8765	3 12 12M COOPER SEED & FEED STORE BANDANA	4.3	12.3	13.8	114
8783	4 12 8M LYNN GROVE FEED & SEED COMPANY	3.9	12.1	9.3	103
7547	5 10 10S YOUNGBLOOD I G A MARKET	4.9	10.4	10.8	103
8206	LYNN GROVE FEED & SEED COMPANY	5.0	10.3	10.8	103
8218	5 10 15S BALLARD COUNTY COOPERATIVE	5.1	11.0	15.7 (1)	106
8219	8 8 8M BALLARD COUNTY COOPERATIVE INC	8.0	8.4	8.9	104
8220	50 SULFATE OF POTASH BALLARD COUNTY COOPERATIVE INC			50.4	101
<u>NORTH AMERICAN FERTILIZER CO</u>					
8530	2 12 6M GILLISPIE SEED COMPANY	2.0	12.5	6.1	103
8746	W D CUNNINGHAM	2.3	12.2	7.0	106
7906	3 12 12M LINCOLN INSTITUTE	2.9	11.7*	11.8	98
8227	SHIPP SEED HOUSE	3.0	11.9	12.2	100
8380	HANCOCKS FEED STORE	3.1	11.5*	12.4	99
8633	BUCKNER FEED & SUPPLY	3.1	11.3*	12.0	98
8247	4 12 8M YOUNGS SEED HOUSE	4.2	12.7	7.9	104
8634	BUCKNER FEED & SUPPLY	4.2	12.0	8.3	102
8743	VOILS & WARRINER	4.1	12.9	8.4	106
7887	4 16 16M LASWELL MILLING COMPANY	4.1	15.9	16.1	100
8042	5 10 10M N D CUNNINGHAM	4.9	10.0	10.2	100
8417	RAYMOND TATUM	4.6*	11.1	9.7*	102
7641	5 10 15S J M MILLING COMPANY	5.1	10.7	13.6*(2)	101
7679	HERBERT WEBB	5.4	10.5	15.1	105
7888	LASWELL MILLING COMPANY	5.3	10.1	15.9	104
8233	YOUNGS SEED HOUSE	4.8	10.8	15.1	102
7653	6 8 6M J B WADE	6.0	8.0	7.2	103
7919	BUNTON SEED COMPANY	6.0	7.8	6.6	100
8418	RAYMOND TATUM	5.9	10.3	6.0	111

(1) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>NORTH AMERICAN CONTINUED</u>					
6 8 6S					
7599	SCHOTTS STORE INC	6.1	8.1	6.0	101
7640	J M MILLING COMPANY	5.8	8.5	6.1 (3)	101
7763	RICHARDSON FEED COMPANY	6.0	8.5	6.5 (4)	104
10 10 10M					
7389	ROBERT PENCE	9.6*	10.4	10.4	100
7403	W D CUNNINGHAM	9.6*	10.5	10.6	101
8228	SHIPP SEED HOUSE	9.9	10.6	10.5	102
50 SULFATE OF POTASH					
7674	E A SLATTER			50.6	101
7750	EARL KENDALL			51.0	102
<u>THE OHIO VALLEY FERTILIZER CORP</u>					
0 14 14M 3LB BORAX PER 100					
7746	DOUGLAS MCLONEY (1)		13.4*	14.7	99
3 9 18M					
7748	DOUGLAS MCLONEY	3.0	9.7	17.1*	101
3 12 12M					
7745	DOUGLAS MCLONEY	3.0	12.8	11.9	103
5 10 10M					
7670	PATTERSON & GUTHRIE	4.8	9.6*	11.1	99
5 10 10S					
7992	GUY BLAIR	4.7*	10.2	10.2	99
5 10 15S					
7671	PATTERSON & GUTHRIE	4.6*	10.2	15.6	100
6 6 18S					
7747	DOUGLAS MCLONEY	6.0	6.4	17.2*	100
<u>PACIFIC COAST BORAX COMPANY</u>					
FERTILIZER BORATE 136 BORON					
8230	SOUTHERN STATES CAMPBELLSVILLE COOP (2)				
<u>PHILLIPS CHEMICAL CO</u>					
6 8 6S					
33 AMMONIUM NITRATE					
7504	MADISONVILLE FARMERS COOPERATIVE	33.5			102
7796	FARMERS HAY & SEED CO SMITHS GROVE	33.3			101
33 5 AMMONIUM NITRATE					
8098	MARSHALL COUNTY SOIL IMPROV ASSOC	33.6			100

(1) BORON GUARANTEED 0.34%-----FOUND 0.37%

(2) BORON GUARANTEED 13.6%-----FOUND 13.8%

(3) EXCESS MURIATE EQUIVALENT TO 0.8% POTASH

(4) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>PHILLIPS CHEMICAL CONTINUED</u>					
8326	45 SUPERPHOSPHATE LAND O NAN WAREHOUSE		45.1		100
<u>PRICE CHEMICAL CO</u>					
7997	0 20 20M 5LB BORAX PER 100 MONARCH MILLING COMPANY (1)		17.1*	21.1	92*
7837	2 12 6M B B LANDRUM	2.2	12.0	6.9	104
8050	HARDIN COUNTY MILLING COMPANY	2.4	12.1	6.2	104
8543	Y P SNELL	2.4	12.1	7.0	107
7765	3 12 12M JAMES BREWER	3.0	12.1	11.5*	99
7910	STOUTS FEED STORE	2.8	12.5	12.5	102
7985	CHARLES & WILLARD MANN	3.1	11.6*	12.2	99
7996	MONARCH MILLING COMPANY	3.2	11.9	13.1	103
7401	4 12 8M R J JONES	3.9	11.9	9.0	101
7764	STANLEY A HAGER	4.4	11.8	8.9	104
7768	CURTIS NUNN	3.9	12.3	8.5	102
7912	STOUTS FEED STORE	4.0	11.9	9.0	102
7984	CHARLES & WILLARD MANN	3.9	11.8	9.6	102
7402	4 16 16M R J JONES	4.1	15.5*	17.5	101
8741	STOCKTON BROTHERS	4.0	16.4	15.0*	100
7905	5 10 15S WOODFORD FEED COMPANY	5.4	10.2	15.5	104
7956	HENDERSON & UNDERWOOD IMPLMVNT CO	5.1	10.2	15.8	103
8240	HARDIN COUNTY MILLING COMPANY	4.6*	11.0	14.1*	100
7635	6 6 18S JETT COAL & SUPPLY COMPANY	5.7*	6.6	18.8	102
7838	6 8 8S B B LANDRUM	5.8	8.5	7.9	101
7911	STOUTS FEED STORE	5.7*	8.4	8.4	101
7917	VALLEY FARM STORE	6.1	8.7	8.2	105
8231	YOUNGS SEED HOUSE	5.3*	9.6	10.4 (2)	108
7636	10 10 10M JETT COAL & SUPPLY COMPANY	9.4*	10.0	12.8	102
7809	ROSCOE MEADOWS	9.7*	10.1	11.1	101
8062	20 SUPERPHOSPHATE HARDIN COUNTY MILLING COMPANY		20.8		104
8232	YOUNGS SEED HOUSE		20.8		104
<u>RIGO MANUFACTURING COMPANY</u>					
8144	20 20 20M ADAIR FARMERS SERVICE	19.1*	20.0	19.8	98

(1) BORON GUARANTEED 0.57%-----FOUND 0.66%

(2) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>ROBIN JONES PHOSPHATE COMPANY</u>					
8249	0 20 14M FARMERS FERTILIZER COMPANY		22.2	14.7	109
<u>ROSE MANUFACTURING COMPANY</u>					
8381	5 10 5M ST MATTHEWS FEED STORE	5.1	11.0	6.2	109
<u>SCHROCK FERTILIZER SERVICE</u>					
7570	21 AMMONIUM SULFATE CRAFTON BROTHERS & DUNCAN	20.9			100
8592	CRAFTON BROS & DUNCAN	21.1			100
8593	60 MURIATE OF POTASH CRAFTON BROS & DUNCAN			60.1	100
<u>O M SCOTT &amp; SONS CO</u>					
7739	9 7 4M HILLENMEYER NURSERIES	9.0	8.1	5.5	108
8387	JACK DAYTON & SONS	9.2	8.0	4.4	107
<u>THE SMITH AGRICULTURAL CHEMICAL CO</u>					
7738	4 12 4M HILLENMEYER NURSERIES	4.4	12.0	5.0	106
8015	BIG BEND GARDEN STORE	3.9	12.8	4.2	104
8388	10 3 7M BUNTON SEED COMPANY	10.3	3.5	7.8	106
7801	10 6 4M HILLENMEYER NURSERIES	10.1	6.0	5.2	103
<u>SWIFT &amp; CO CHICAGO ILL</u>					
7517	4 8 12S PRINCETON MILLS	5.4	9.7	12.4	(1) 120
8072	TRIGG COUNTY TRADING COMPANY	4.0	8.2	12.7	103
8222	4 12 4M YOPP SEED COMPANY	4.1	12.1	4.8	103
7955	6 10 4M CAYCE & YOST COMPANY	5.4*	9.6*	4.4	95

(1) EXCESS MURIATE EQUIVALENT TO 2.0% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>SWIFT CHICAGO CONTINUED</u>					
7921	6 10 4S HALL SEED COMPANY	6.5	9.7*	4.1	102
8014	GEORGE W HILL COMPANY	6.1	10.1	4.3	102
7743	12 12 12M STANLEY PENN & SON	8.3*	12.8	12.2	87*
8017	19 28 14M SEARS ROEBUCK & COMPANY	19.7	25.5*	15.6	99
<u>SWIFT &amp; CO NATIONAL STOCK YARDS ILL</u>					
8586	0 20 20M MORGANFIELD HARDWARE COMPANY		20.5	20.1	102
8587	3 9 27M MORGANFIELD HARDWARE COMPANY	2.9	9.0	26.9	99
8330	3 12 12M MORGANFIELD HARDWARE COMPANY	2.8	12.1	11.6*	98
8766	COOPER SEED & FEED STORE BANDANA	3.1	11.7*	13.1	102
8331	4 16 16M MORGANFIELD HARDWARE COMPANY	4.0	15.3*	16.5	99
8332	5 20 20M MORGANFIELD HARDWARE COMPANY	4.5*	20.3	18.6*	97*
8329	12 12 12M MORGANFIELD HARDWARE COMPANY	10.6*	13.2	12.4	98
8759	YOPP SEED COMPANY	11.4*	12.5	11.4*	98
<u>STIM U PLANT LABORATORIES</u>					
8382	5 10 5M ST MATTHEWS FEED STORE	5.2	10.0	5.7	103
<u>TENNESSEE CHEMICAL CO</u>					
8495	0 12 12M N T NUCKOLS		12.5	12.4	104
7965	2 12 6M N T NUCKOLS	2.1	12.0	6.1	101
8163	FARMERS ELEVATOR FRANKLIN	2.0	12.5	7.0	106
8496	N T NUCKOLS	2.0	12.1	6.0	101
8510	ELDON WELCH	2.1	11.9	6.0	100
8511	3 9 6M ELDON WELCH	3.0	9.0	6.6	102
7787	3 12 6M ELDON WELCH	2.8	13.1	5.7*	103
7966	N T NUCKOLS	3.1	12.1	6.5	103

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>TENNESSEE CHEMICAL CONTINUED</u>					
<u>3 12 6M CONTINUED</u>					
8162	FARMERS ELEVATOR FRANKLIN	3.0	12.2	6.6	103
8471	QUALITY GROCERY & HARDWARE COMPANY	3.0	12.0	6.0	100
8497	N T NUCKOLS	3.0	12.7	6.3	104
8509	ELDON WELCH	3.9	11.9	5.9	106
<u>3 12 12M</u>					
8348	HARRALSON SEED COMPANY	3.0	13.0	12.0	104
<u>4 12 8M</u>					
8349	HARRALSON SEED COMPANY	4.0	12.3	8.1	102
8498	N T NUCKOLS	3.9	12.6	7.9	102
<u>10 10 10M</u>					
8204	BROACHES GROCERY	9.6*	10.5	9.6*	99
<u>20 SUPERPHOSPHATE</u>					
7964	N T NUCKOLS		20.9		105
8347	HARRALSON SEED COMPANY		20.1		100
8469	QUALITY GROCERY & HARDWARE COMPANY		19.9		100
8494	N T NUCKOLS		20.5		103
<u>45 SUPERPHOSPHATE</u>					
8470	QUALITY GROCERY & HARDWARE COMPANY		44.9		100
<u>60 MURIATE OF POTASH</u>					
8350	HARRALSON SEED COMPANY			60.1	100
<u>TENNESSEE CORP CINCINNATI OHIO</u>					
<u>3 12 12M</u>					
8023	FALMOUTH FARM SUPPLY	3.3	11.8	12.6	102
<u>4 12 8M</u>					
8185	L B CARDEN	3.9	11.7*	8.5	99
8693	FALMOUTH FARM SUPPLY	3.9	13.4	9.3	109
<u>5 10 15S</u>					
7699	MCCAULEY BROTHERS SEED COMPANY	4.7*	10.6	15.7	102
8276	ALVA WHITE	4.7*	10.6	15.2	101
<u>5 20 20M</u>					
8013	BI COUNTY FARM BUREAU COOPERATIVE	4.8	21.1	20.9	103
<u>6 6 18S</u>					
7688	WALTERS & THOMPSON	6.2	6.7	17.7*	104
<u>6 8 6S</u>					
8022	FALMOUTH FARM SUPPLY	5.3*	10.3	7.1 (1)	109
<u>10 6 4M</u>					
7983	H T ROBERTS	9.9	6.3	5.0	103
<u>48 SULFATE OF POTASH</u>					
7929	GALLATIN COUNTY FARM SUPPLY			48.3 (2)	101

(1) EXCESS MURIATE EQUIVALENT TO 1.6% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 1.5% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>TENNESSEE CORP NEW ALBANY IND</u>					
8391	0 20 20M WALTERS & THOMPSON		20.0	21.4	102
8248	0 20 20M 10LB BORAX PER 100 COOPER BROTHERS (1)		19.8	18.8*	97*
8065	2 12 6M COOPER BROTHERS	2.0	11.5*	6.5	99
8168	ALLEN COUNTY FARMERS SERVICE	2.0	12.4	6.5	104
7689	3 12 12M WALTERS & THOMPSON	2.8	12.1	12.4	100
8394	COOPER BROTHERS	2.9	11.6*	12.4	98
7687	5 10 15S WALTERS & THOMPSON	5.4	10.5	14.9	104
7686	10 10 10M WALTERS & THOMPSON	10.2	10.6	10.0	103
7950	WALTERS & THOMPSON	9.6*	10.5	10.6	101
<u>TOBACCO STATES CHEMICAL COMPANY</u>					
8143	7 14 7M LIQUID FIKE & DENNIS SUPPLY	7.1	14.6	7.3	103
<u>TRI STATE CHEMICAL CO</u>					
7566	0 12 12M TRI STATE CHEMICAL COMPANY		12.1	12.6	102
7567	0 20 20M TRI STATE CHEMICAL COMPANY WAREHOUSE		20.3	20.4	102
8419	TRI STATE CHEMICAL COMPANY WAREHOUSE		18.5*	20.0	95*
8421	3 12 12M TRI STATE CHEMICAL COMPANY WAREHOUSE	3.7	12.0	12.4	106
8463	R D SANDERFUR	3.2	11.9	13.0	103
7832	4 12 8M R D SANDERFUR	4.1	11.8	10.0	104
8422	TRI STATE CHEMICAL COMPANY WAREHOUSE	3.9	12.2	10.0	105
8461	R D SANDERFUR	4.3	12.7	8.3	106
8573	NEBO MILL	3.9	13.0	8.9	106
7826	4 16 16M M F BRYANT & SONS MILLING COMPANY	4.0	15.6*	16.5	100
8426	TRI STATE CHEMICAL COMPANY WAREHOUSE	3.4*	16.1	17.9	101
7568	5 10 15S TRI STATE CHEMICAL COMPANY	5.0	10.2	14.5*	100
7833	R D SANDERFUR	5.0	10.6	15.6	104
7827	5 20 20M M F BRYANT & SONS MILLING COMPANY	4.9	20.3	20.6	101
8423	TRI STATE CHEMICAL COMPANY WAREHOUSE	5.3	18.0*	20.6	97*

(1) BORON GUARANTEED 1.13%-----FOUND 1.16%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>TRI STATE CHAMICAL CONTINUED</u>					
	6 8 6M				
7575	M F BRYANT & SONS MILLING COMPANY	6.0	8.5	6.2	103
8424	TRI STATE CHEMICAL COMPANY WAREHOUSE	6.5	8.5	7.5	110
	10 10 10M				
8425	TRI STATE CHEMICAL COMPANY WAREHOUSE	8.9*	12.2	10.9	103
	46 SUPERPHOSPHATE				
8420	TRI STATE CHEMICAL COMPANY WAREHOUSE		38.9*		85*
	50 SULFATE OF POTASH				
7828	M F BRYANT & SONS MILLING COMPANY			52.4	105
<u>U S STEEL CORP</u>					
	20 6 AMMONIUM SULFATE				
7749	EARL KENDALL	21.0			102
7773	ROY RAGLAND	21.1			102
<u>VALLEY COUNTIES OF KY COOP INC</u>					
	0 30 30M				
8779	VALLEY COUNTIES OF KY COOP WAREHOUSE		31.0	28.7*	101
	33 5 AMMONIUM NITRATE				
8097	MARSHALL COUNTY SOIL IMPROV ASSOC	33.6			100
8770	BALLARD COUNTY COOPERATIVE	33.4			100
	48 SUPERPHOSPHATE				
8760	MCCRACKEN COUNTY SOIL IMPROV ASSOC		48.5		101
	49 SUPERPHOSPHATE				
8223	MCCRACKEN COUNTY SOIL IMPROV ASSOC		49.6		101
8780	CALLOWAY COUNTY SOIL IMPROV ASSOC		48.1*		98
	50 SUPERPHOSPHATE				
8203	CALLOWAY COUNTY SOIL IMPROV ASSOC		50.0		100
	59 CALCIUM METAPHOSPHATE				
8095	MARSHALL COUNTY SOIL IMPROV ASSOC		60.0		102
	60 CALCIUM METAPHOSPHATE				
7539	GRAVES COUNTY SOIL ASSOCIATION		61.6		103
8096	MARSHALL COUNTY SOIL IMPROV ASSOC		59.9		100
	61 CALCIUM METAPHOSPHATE				
8493	CHRISTIAN CO FARM DEMONSTAT ASSOC		60.9		100
8769	BALLARD COUNTY COOPERATIVE		60.5		99
	62 CALCIUM METAPHOSPHATE				
8083	T R ACKRIDGE		62.6		101
	60 MURIATE OF POTASH				
7538	GRAVES COUNTY SOIL ASSOCIATION			60.7	101
8084	T R ACKRIDGE			60.0	100
8778	VALLEY COUNTIES OF KY COOP WAREHOUSE			59.1*	99

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>VICTOR CHEMICAL WORKS</u>					
7778	10 52 17 BROWN SEED CLEANING COMPANY	9.6*	52.7	18.6	101
<u>VIRGINIA CAROLINA CHEM HOPKINSVILLE</u>					
7959	0 12 12M 5LB BORAX PER 100 VIRGINIA CAROLINA CHEM HOPKINSVILLE (1)		12.7	12.4	105
8450	ROBINSON IMPLEMENT & MOTOR COMPANY (2)		12.6	12.8	106
5960	0 20 20M VIRGINIA CAROLINA CHEM HOPKINSVILLE		19.0*	19.1*	95*
8070	TRIGG COUNTY TRADING COMPANY		19.5*	19.8	98
7961	2 12 6M VIRGINIA CAROLINA CHEM HOPKINSVILLE	1.5*	8.8*	6.8	80*
8086	T R ACKRIDGE	1.9	8.3*	6.8	81*
8193	FOX HARDWARE COMPANY	2.2	8.6*	7.0	86*
7525	3 12 12M KUTTAWA FEED & SEED COMPANY	3.1	11.9	12.3	101
8200	MILLER SEED & POPCORN COMPANY	3.2	12.2	12.2	103
8474	PYLES & GOODWIN	3.0	12.2	12.9	103
8491	LANDER HARDWARE COMPANY	3.1	12.3	12.7	104
8482	CAYCE YOST COMPANY	3.1	12.7	12.3	104
8335	4 12 8M FOX HARDWARE COMPANY	4.0	11.9	8.2	100
8405	T R AKRIDGE	3.9	12.0	8.1	100
8448	MAXWELL FEED STORE	3.9	12.0	8.7	101
8476	PYLES & GOODWIN	3.9	12.0	8.0	99
8451	5 10 10M ROBINSON IMPLEMENT & MOTOR COMPANY	4.7*	9.4*	11.0	98
7526	5 10 10S KUTTAWA FEED & SEED COMPANY	5.2	10.1	9.8	101
8201	MILLER SEED & POPCORN COMPANY	4.9	10.2	10.2	101
7524	6 8 6M KUTTAWA FEED & SEED COMPANY	5.7*	9.1	6.6	105
8452	ROBINSON IMPLEMENT & MOTOR COMPANY	5.7*	8.5	6.5	102
7523	6 12 12M KUTTAWA FEED & SEED COMPANY	6.0	12.1	12.0	100
7527	8 8 8M KUTTAWA FEED & SEED COMPANY	7.9	8.6	8.4	103
7963	VIRGINIA CAROLINA CHEM HOPKINSVILLE	7.6*	8.6	8.4	101
8073	TRIGG COUNTY TRADING COMPANY	7.7*	8.2	8.4	100
8483	CAYCE YOST COMPANY	7.8	8.6	8.3	102
8492	LANDER HARDWARE COMPANY	7.9	8.7	8.3	103
8071	20 SUPERPHOSPHATE TRIGG COUNTY TRADING COMPANY		19.7*		99
8449	ROBINSON IMPLEMENT & MOTOR COMPANY		20.2		101
8475	PYLES & GOODWIN		20.5		103
8481	CAYCE YOST COMPANY		20.0		100
8490	LANDER HARDWARE COMPANY		20.0		100
7962	60 MURIA TE OF POTASH VIRGINIA CAROLINA CHEM HOPKINSVILLE			60.2	100

(1) BORON GUARANTEED 0.57%-----FOUND 0.57%

(2) BORON GUARANTEED 0.57%-----FOUND 0.56%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>VIRGINIA CAROLINA CHEM CINCINNATI</u>					
8119	0 20 20M GRIGSBY & COMPANY		20.2	18.3*	96*
7803	3 12 12M MONARCH MILLING COMPANY	3.1	12.4	12.3	103
8132	DUNNINGTON MILLING COMPANY	3.1	12.1	12.8	103
8728	U L ROGERS & SON	3.3	12.8	11.9	105
7734	4 12 8M GRAYSON MILLING COMPANY	4.2	12.4	8.8	105
7727	4 12 8S STAGGS BROTHERS	4.2	13.0	8.6	107
7659	4 16 16M E PAUL CLARK	4.1	17.0	16.5	105
7981	5 10 10M H T ROBERTS	5.1	10.4	10.7	104
8151	REUSCH & SONS	4.9	10.9	10.2	104
7692	5 10 10S SHELBY FEED & SEED COMPANY	5.0	11.3	10.8 (1)	108
7726	STAGGS BROTHERS	5.2	10.7	10.1	105
7890	J W PURKEY & SONS	5.0	11.2	10.0	105
7658	5 10 15S E PAUL CLARK	5.4	11.1	15.0	107
7889	J W PURKEY & SONS	5.2	10.6	15.9	105
7914	SHEPHERDSVILLE FEED MILL	5.3	10.7	15.1	105
7913	5 20 20M SHEPHERDSVILLE FEED MILL	5.0	20.8	18.7*	100
7728	6 8 6S STAGGS BROTHERS	6.1	9.4	6.8 (2)	110
8025	6 12 12M REUSCH & SONS	6.3	13.2	12.7	107
7423	6 12 12S U L ROGERS & SONS	6.3	13.8	12.0	108
7982	H T ROBERTS	5.9	13.4	12.7	106
8133	10 10 10M DUNNINGTON MILLING COMPANY	9.7*	10.7	10.6	102
8120	20 SUPERPHOSPHATE GRIGSBY & COMPANY		21.0		105
<u>VIRGINIA CAROLINA CHEM MT PLEASANT</u>					
7420	2 12 6M ESTES & SHIRLEY	2.3	13.2	6.1	109
8608	BIG FOUR FEED & IMPLEMENT COMPANY	2.1	11.6*	6.5	100

(1) EXCESS MURIATE EQUIVALENT TO 0.6% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<i>VA CAR CHEM MT PLEASANT CONTINUED</i>					
	<i>4 12 8M</i>				
7657	<i>E PAUL CLARK</i>	4.1	11.9	9.0	102
8484	<i>HOPKINSVILLE IMPLEMENT COMPANY</i>	3.9	12.0	8.0	99
	<i>5 10 10M</i>				
8607	<i>BIG FOUR FEED &amp; IMPLEMENT COMPANY</i>	4.7*	9.7*	10.8	98
	<i>5 10 10S</i>				
7758	<i>R D REYNOLDS</i>	5.0	9.9	10.0	100
	<i>20 SUPERPHOSPHATE</i>				
7757	<i>R D REYNOLDS</i>		18.9*		95
	<i>48 SULFATE OF POTASH</i>				
8194	<i>FARMERS SERVICE CENTER CERULEAN</i>			49.9 (1)	104

(1) EXCESS MURIATE EQUIVALENT TO 3.8% POTASH

TABLE 2 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, July-December, 1955

(Analyses deficient more than one-fourth of one percent indicated by asterisk).

Station Number	Manufacturer, Brand Name, and From Whom Obtained	Phosphoric Acid				Percent of Relative Value Found
		Available		Total		
		Guar. (Percent)	Found	Guar. (Percent)	Found	
<u>AMERICAN AGRICULTURAL CHEMICAL COMPANY</u>						
Rock Phosphate						
8698	Farmers Supply Company	3.0	3.1	30.0	30.8	100.2
<u>ASSOCIATED COOPERATIVES</u>						
Fused Tricalcium Phosphate						
7767	Curtis Nunn	20.0	20.0	28.0	27.9	99.9
<u>OWENS AGRICULTURAL PHOSPHATE COMPANY</u>						
Rock Phosphate						
8156	Southern States Simpson Coop.	2.0	2.6	30.0	31.2	102.0
8214	Howe, Hilliard Grain Company	2.0	2.8	30.0	30.9	102.0
<u>ROBIN JONES PHOSPHATE COMPANY</u>						
Rock Phosphate						
8427	Tri-State Chemical Company	3.0	2.6	30.0	29.8	99.5
<u>SCHROCK FERTILIZER SERVICE</u>						
Rock Phosphate						
7556	James A. Logsdon	---	4.1	33.0	33.0	100.0
7569	Crafton Brothers	---	4.3	33.0	33.4	100.2
8591	Crafton Brothers	---	3.9	33.0	33.6	100.3
<u>TENNESSEE COAL &amp; IRON DIVISION</u>						
Basic Slag						
8226	Shipp Seed Company	---	---	8.0	9.0	100.4

TABLE 3 - Analyses of Inspection Samples of Bone, Dried Manures, etc., July-December, 1955

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk).

Station Number	Manufacturer, Brand Name, and From Whom Obtained	Nitrogen Percent	Total Phosphoric Acid Percent	Potash Percent	Percent of Relative Value Found
<u>H. J. BAKER &amp; BROTHERS</u>					
Nitrogranic all Organic Fertilizer					
8110	Early & Daniel Warehouse	5.1	4.5		100.6
<u>SEARS, ROEBUCK &amp; COMPANY</u>					
2-26-0 Bone Meal					
8016	Sears, Roebuck & Co., Covington	2.5	26.5		101.0
<u>THE SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE</u>					
5.5-4-0 Milorganite					
8108	Bunton Seed Company	5.5	4.3		100.4
8756	Yopp Seed Company	5.5	4.3		100.4

4.5 M--6-56