

# Commercial Fertilizers in Kentucky, 1954

Including a Report on Official Fertilizer Samples  
Analyzed

July — December, 1954



Kentucky Agricultural Experiment Station  
University of Kentucky  
Lexington

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This bulletin contains analyses of commercial fertilizers made between July 1 and December 31, 1954. Analyses of samples made between January 1, 1954 and June 30, 1954 were published in Regulatory Bulletin 118.

#### TONNAGE OF FERTILIZER SOLD

Manufacturers reported that 580,410 tons of commercial fertilizer were sold in Kentucky during 1954, an increase of 3.5 percent from 1953. 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 1954, 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 Grade</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 \$1.50 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.

Refunds are also suggested on potash results when the guarantee is from sulfate and there is an excess of muriate present of more than \$1.00 a ton in relative value.

#### 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 sampled, 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 GUARANTY

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

A report showing sales of fertilizer by grades by counties is now available for the six month period beginning July 1, 1954. These data were compiled from copies of invoices supplied by shippers of fertilizer and are reported in a leaflet entitled "Distribution of Fertilizer Sales in Kentucky, July 1, 1954, through December 31, 1954". Copies of this publication 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, 1954 thru December 31, 1954, (Calendar Year) Kentucky.

Grade	January 1 thru	July 1 thru	Total
	June 30, 1954	December 31, 1954	
	(Tons)	(Tons)	(Tons)
0 10 20	3 57	162	519
0 12 12	5,352	1,545	6,897
0 14 7	6 03	245	848
0 14 14	1,566	443	2,009
0 20 20	7,641	3,027	10,668
0 30 30	993	909	1,902
2 12 6	35,647	8,000	43,647
2 12 12	214	144	358
3 9 6	27,547	1,684	29,231
3 9 27	218	64	282
3 12 6	10,508	1,120	11,628
3 12 12	51,693	16,873	68,566
4 8 12	5,102	166	5,268
4 12 4	1,643	302	1,945
4 12 8	37,568	9,048	46,616
4 12 12	5 80	29	609
4 16 16	5,159	1,974	7,133
4 24 12	7 34	139	873
5 10 5	2,549	110	2,659
5 10 10	27,147	2,372	29,519
5 10 15	64,426	4,010	68,436
5 20 20	2,139	1,008	3,147
6 6 18	6,781	520	7,301
6 8 6	52,300	2,159	54,459
6 8 8	1,358	55	1,413
6 8 12	2,262	151	2,413
6 8 16	2,624	4	2,628
6 10 4	1,170	185	1,355
6 12 12	4,693	1,580	6,273
6 12 18	1,379	6	1,385
8 8 8	9,570	997	10,567
10 6 4	2 55	208	463
10 10 10	10,547	1,837	12,384
12 12 12	1,773	506	2,279
Miscellaneous*	12,607	1,153	13,760
<b>TOTAL</b>	<b>396,705</b>	<b>62,735</b>	<b>459,440</b>

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

TABLE B. - Fertilizer Sold as Straight Material and Miscellaneous Products by Types, January 1, 1954 thru December 31, 1954, (Calendar Year) Kentucky

Material	January 1 thru	July 1 thru	Total
	June 30, 1954	Dec. 31, 1954	
	(Tons)	(Tons)	(Tons)
Nitrate of Soda, 16%	2,091	92	2,183
Ammonium Nitrate Lime, 20.5%	1,062	5	1,067
Ammonium Sulfate, 20-21%	1,168	96	1,264
Calcium Cyanamid, 20-21%	497	1,400	1,897
Ammonium Nitrate Sulfate, 26%	718	7	725
Nitrogen Solutions, 24-41%	356	---	356
Ammonium Nitrate, 32.5-33.5%	18,490	7,674	26,164
Anhydrous Ammonia, 82%	1,065	63	1,128
Urea	88	9	97
Total Nitrogen Material	25,535	9,346	34,881
Soft Phosphate, 20% Total	1,420	420	1,840
Ground Rock Phosphate, 30-33% Total	2,852	1,689	4,541
Basic Slag, 8% Total	653	231	884
Superphosphate, 18-20% Available	35,508	7,090	42,598
Fused Tricalcium Phosphate, 28% Total	6,386	3,681	10,067
Triple Superphosphate, 45-50% Available	2,076	719	2,795
Calcium Metaphosphate, 60-62% Available	1,919	1,427	3,346
Total Phosphate Material	50,814	15,257	66,071
Sulfate of Potash Magnesia, 21-22%	274	100	374
Sulfate of Potash, 48-52%	7,862	875	8,737
Muriate of Potash, 50%	41	---	41
Muriate of Potash, 60-61%	7,399	2,742	10,141
Total Potash Material	15,576	3,717	19,293
Dried Manures	191	120	311
Bone Meal	5	21	26
Sewage Sludge	45	131	176
Miscellaneous	153	59	212
Total Miscellaneous Products	394	331	725
<b>GRAND TOTAL</b>	92,319	28,651	120,970

TABLE C. - Summary, All Fertilizer Sold, January 1, 1954 thru December 31, 1954, (Calendar Year) Kentucky

Type	January 1 thru	June 1 thru	Total
	June 30, 1954	Dec. 31, 1954	
	(Tons)	(Tons)	(Tons)
Mixed Fertilizer (Table A)	396,705	62,735	459,440
Straight Materials (Table B)	92,319	28,651	120,970
<b>TOTAL</b>	489,024	91,386	580,410



## EXPLANATION OF "STANDING OF MANUFACTURERS"

The standings of manufacturers as determined by the results of analysis of official samples are given on page 10 to page 17. 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 \$1.50 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 - 1954

COMPANY	Samples			Analyses of nitrogen, phosphoric acid and potash		
	Total Number	Equal to guaranty in all respects		Total Number	Equal to guaranty or within tolerance ** Number	
		Number	Percent*			Number
Allied Chemical & Dye Corporation, Nitrogen Division	24	24	100	52	52	100
American Agricultural Chemical Company	84	51	61	216	196	91
American Cyanamid Company	10	10	100	12	12	100
American Liquid Fertilizer Company	1	1	---	3	3	---
Anco Chemical Company	3	3	---	9	9	---
Armour Fertilizer Works						
Atlanta, Georgia	3	2	---	9	9	---
Bartow, Florida	1	0	---	1	0	---
Chicago Heights, Illinois	1	0	---	3	2	---
Cincinnati, Ohio	165	64	39	433	341	79
East St. Louis, Illinois	1	0	---	3	2	---
Jeffersonville, Indiana	92	38	41	248	205	83
Nashville, Tennessee	98	47	48	244	202	83
Louisville Fertilizer Company	14	3	21	39	35	90
Tennessee Chemical Company	32	17	53	76	69	91
Associated Cooperatives Incorporated	36	32	89	51	49	96
H. J. Baker & Brothers	3	3	---	3	3	---

STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1954

COMPANY	Samples		Analyses of nitrogen, phosphoric acid and potash			
	Total Number	Equal to guaranty in all respects	Total Number	Equal to guaranty or within tolerance **		
		Number		Percent*	Number	Percent*
Bartlett & O'Bryan Fertilizer Company	32	18	56	76	65	86
Bluegrass Plant Foods Cynthiana, Kentucky	38	28	74	101	94	93
Danville, Kentucky	33	23	70	97	90	93
The Buhner Fertilizer Company, Inc.	20	9	45	60	51	85
Bunton Seed Company	2	1	---	6	5	---
Burley Belt Plant Food Works	25	3	12	70	52	74
Chilean Nitrate Sales Corporation	2	2	---	2	2	---
Commercial Solvents Corporation	13	6	46	13	11	85
Commonwealth Fertilizer Co., Inc.	27	18	67	73	66	90
Consolidated Chemical Company (See Price Chemical Company)	262	182	70	649	596	92
Cooperative Fertilizer Service	28	24	86	70	67	96
Cumberland Chemical Company	25	14	56	69	59	86
Darling & Company						



STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1954

COMPANY	Samples			Analyses of nitrogen, phosphoric acid and potash		
	Total Number	Equal to guaranty in all respects		Total Number	Equal to guaranty or within tolerance **	
		Number	Percent*		Number	Percent*
International Minerals & Chemical Corp.						
Greenville, Tennessee	7	5	71	20	18	90
Chicago, Illinois	2	2	---	2	2	---
Cincinnati, Ohio	66	32	49	169	140	83
Clarksville, Tennessee	22	14	64	57	49	86
Somerset, Kentucky	37	18	49	98	84	86
Thomson Phosphate Department	2	1	---	4	4	---
J. D. Jewell	1	0	---	3	2	---
Kentucky Fertilizer Works	38	24	63	95	84	89
Knoxville Fertilizer Company						
London, Kentucky	95	53	56	257	220	86
Knoxville, Tennessee	4	3	---	9	8	---
Nashville, Tennessee	66	32	49	169	139	82
Land O'Nan Warehouse	20	9	45	54	43	80
Lion Oil Company	1	1	---	1	1	---
Louisville Fertilizer Company (See Armour Fertilizer Works)						

STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1954

COMPANY	Samples			Analyses of nitrogen, phosphoric acid and potash		
	Total Number	Equal to guaranty in all respects		Total Number	Equal to guaranty or within tolerance **	
		Number	Percent*		Number	Percent*
J. A. McCarty Seed Company	1	1	---	1	1	---
Mathieson Chemical Corporation	1	1	---	1	1	---
Mid-South Chemical Company	1	1	---	1	1	---
Mississippi Chemical Corporation	1	1	---	1	1	---
Missouri Plant Food Co., Inc.	24	19	79	58	55	95
Monsanto Chemical Company	1	0	---	3	2	---
Na Churs Plant Food Company	2	1	---	6	5	---
National Chemical Company	5	2	40	14	12	86
North American Fertilizer Company	87	41	47	229	188	82
The Ohio Valley Fertilizer Corporation	32	14	44	86	71	83
Owens Agricultural Phosphate Corporation	1	0	---	1	0	---
Phillips Chemical Company	2	2	---	2	2	---
Price Chemical Company	43	21	49	116	102	88
Consolidated Chemical Company	10	4	40	30	26	87

STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1954

COMPANY	Samples			Analyses of nitrogen, phosphoric acid and potash		
	Total Number	Equal to guaranty in all respects		Total Number	Equal to guaranty or within tolerance **	
		Number	Percent*		Number	Percent*
A. F. Pringle & Company, Inc.	1	1	---	1	1	---
Rigo Manufacturing Company	1	1	---	3	3	---
Robin Jones Phosphate Co.	1	1	---	1	1	---
Ruhm Phosphate & Chemical Company	3	1	---	5	4	---
Schrock Fertilizer Service	5	5	100	6	6	100
O. M. Scott & Sons Company	3	3	---	9	9	---
Sewerage Commission of the City of Milwaukee	2	0	---	4	2	---
Spencer Chemical Company	10	10	100	10	10	100
Sphar & Company	1	1	---	1	1	---
Stim U Plant Laboratories	1	1	---	3	3	---
Stockdale Fertilizer Company	1	0	---	3	3	---
Swift & Company						
Chicago, Illinois	6	3	50	18	16	89
National Stock Yards, Illinois	35	7	20	103	76	74
Tennessee Chemical Company (See Armour Fertilizer Works)						

STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1954

COMPANY	Samples			nitrogen, phosphoric acid and potash	
	Total Number	Equal to guaranty in all respects		Total Number	Equal to guaranty or within tolerance **
		Number	Percent*		
Tennessee Coal & Iron Division (See U. S. Steel Corporation)	46	32	70	105	95
Tennessee Corporation Cincinnati, Ohio	35	28	80	82	78
New Albany, Indiana	1	1	---	2	2
Thompson Sales Company					
Thomson Phosphate Department (See International Minerals & Chemical Corp.)	27	4	15	73	48
Tri-State Chemical Company	2	2	---	2	2
U. S. Steel Corporation	1	1	---	1	1
Tennessee Coal & Iron Division	1	1	---	1	1
United Gas Company	25	19	76	34	29
Valley Counties of Kentucky Cooperative, Inc.					
Virginia Carolina Chemical Corporation	54	42	78	140	129
Cincinnati, Ohio	23	17	74	58	54
Hopkinsville, Kentucky	1	0	---	3	2
Lynchburg, Virginia	37	20	54	106	90
Mt. Pleasant, Tennessee					



STANDING OF MANUFACTURERS BASED ON SAMPLES EQUAL TO GUARANTY IN ALL RESPECTS  
AND ANALYSES WITHIN TOLERANCE - 1954

COMPANY	Samples			Analyses of nitrogen, phosphoric and potash	
	Total Number	Equal to guaranty in all respects		Total Number	Equal to guaranty or within tolerance **
		Number	Percent*		
Windy Hill Farm	1	1	---	3	---
Zircon Products Company	4	4	---	12	---
<b>TOTAL</b>	<b>2,399</b>	<b>1,346</b>	<b>56</b>	<b>6,037</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, 1954

(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>ALLIED CHEMICAL &amp; DYE CORP NIT DIV</u>					
	12 12 12M				
4991	BARNETTS FARM SUPPLY	12.1	12.4	13.0	103
5124	HOBART & MILTON ROBERTS	12.6	13.5	12.9	108
5358	HICKORY BILLS FARM STORE	12.9	13.2	12.5	108
5488	WYNDALLS FARM STORE	12.9	12.1	12.8	105
5516	WOODFORD SPEARS & SONS	12.7	12.9	13.0	107
5517	AMBURGEYS FARM SUPPLY	12.5	13.1	12.6	106
5548	RALPH HOVIOUS	13.0	13.3	12.8	109
5805	SHELBY FEED & SEED COMPANY	13.1	12.4	12.7	107
	45 UREA COMPOUND				
5739	YOPP SEED COMPANY	45.4			101
<u>AMERICAN AGRICULTURAL CHEMICAL CO</u>					
	0 10 20M				
5314	WALTERS AND THOMPSON		10.5	21.6	106
	0 20 20M				
5044	JOHNNYS GENERAL STORE		19.8	20.2	100
5427	J H FEDDERS INC		20.2	20.9	102
5505	MILLERSBURG COAL & LUMBER COMPANY		20.0	20.7	101
	2 12 6M				
5036	JOHN A SHEEHAN	2.1	11.1*	6.7	97
5323	LEBANON CARRIAGE & IMPLEMENT COMPANY	2.2	12.0	7.3	105
	3 12 12M				
5315	WALTERS & THOMPSON	3.0	12.1	12.6	102
5322	LEBANON CARRIAGE & IMPLEMENT COMPANY	3.1	11.9	12.5	101
5391	MCDONALD HARDWARE	3.1	12.3	12.6	103
5504	MILLERSBURG COAL & LUMBER COMPANY	3.0	12.2	12.4	102
5549	BAUGHMAN MILLING COMPANY	3.1	12.1	12.6	102
5839	KENTUCKY STATE REFORMATORY	3.0	12.0	12.2	100
<u>AMERICAN CYANAMID CO</u>					
	20 CALCIUM CYANAMID				
5122	MONTICELLO FARMERS SUPPLY COMPANY	20.8			104
5234	ALLEN & JENKINS	20.6			103
5397	SOMERSET FARMERS SUPPLY COMPANY	20.4			102
<u>ARMOUR FERTILIZER WORKS ATLANTA GA</u>					
	5 10 5M				
5056	ST MATTHEWS FEED STORE	5.3	9.8	7.1	106
<u>ARMOUR FERTILIZER WORKS CINN OHIO</u>					
	0 12 12M				
5295	KEITH & LYKINS		11.4*	12.7	99
5438	CAMARGO FARMERS SUPPLY		11.4*	12.7	99

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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 CINCINNATI CONTINUED</u>					
	0 20 20M				
4848	C A RABOURN & SONS		19.4*	21.4	100
4889	WILLOUGHBY SUPPLY COMPANY		18.9*	20.3	97*
4899	DENNIS CORNETT		19.7*	20.4	100
5299	J C EVERETT COMPANY		18.2*	23.5	100
	3 12 6M				
5267	EWEN & PALMER	3.2	13.1	8.0	112
	3 12 12M				
5297	J F BERTRAM & SON	2.8	11.9	13.5	102
5385	COFFEYS STORE	3.0	11.9	12.2	100
5503	E M BRYANT	3.0	12.0	12.1	100
5508	ROBERTS BROTHERS	2.8	11.9	12.6	100
5527	ANDERSON & SPILLMAN FEED MILL	2.7*	11.7*	13.2	99
	4 12 8M				
4849	VIRGIL STALLARD	4.4	12.1	9.1	106
5501	KEITH & LYKINS	4.2	12.1	8.2	102
5656	LOUISA SUPPLY COMPANY	3.7*	11.3*	8.6	96*
	4 12 8S				
5092	JOHN B PENN	4.4	12.0	8.8	105
	4 24 12M				
5292	GREENUP MILLING COMPANY	4.0	22.5*	12.4	96*
5446	GREENUP MILLING COMPANY	3.6*	24.0	11.5*	98*
	5 10 10M				
5655	LOUISA SUPPLY COMPANY	5.0	10.8	9.6*	103
	5 10 15S				
4890	WILLOUGHBY SUPPLY COMPANY	5.1	10.3	13.2* (1)	98
5654	VIRGIL STALLARD	4.7*	10.4	14.8 (2)	99
5659	ROBERTS BROTHERS	4.9	10.0	15.2	100
	5 20 20M				
5043	SAM RYLE	4.1*	16.6*	24.0	93*
5296	J F BERTRAM & SON	4.5*	21.9	15.5*	97*
5386	COFFEYS STORE	4.9	20.5	18.7*	99
5509	SAM RYLE	4.8	21.8	18.3*	102
5658	ROBERTS BROTHERS	5.1	18.4*	19.1*	95*
	6 8 6S				
4997	MT EDEN MILLS	5.7*	9.0	6.5	104
	6 12 12S				
5660	ROBERTS BROTHERS	5.8	12.0	12.4 (3)	100
	10 10 10M				
5042	SAM RYLE	10.3	9.7*	11.4	103
5077	FARMERS UNION SUPPLY	10.7	10.0	10.5	105
5298	J C EVERETT COMPANY	9.0*	10.8	11.1	100
5387	COFFEYS STORE	9.2*	10.2	10.8	98
5533	FARMERS UNION SUPPLY COMPANY	9.0*	10.6	11.0	99
	20 SUPERPHOSPHATE				
5437	CAMARGO FARMERS SUPPLY		19.9		100
5502	KEITH & LYKINS		19.7*		98

(1) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 1.7% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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 CINCINNATI CONTINUED</u>					
5526	45 SUPERPHOSPHATE ANDERSON & SPILLMAN FEED MILL		44.0*		98
5284	48 SULFATE OF POTASH BROWN HARDWARE AND ELECTRIC			50.0 (1)	104
5304	60 MURIATE OF POTASH VERSAILLES FARMERS UNION SUPPLY			60.9	102
5445	G W BOWLING & SONS			58.7*	98
<u>ARMOUR FERTILIZER WORKS JEFFER IND</u>					
4996	0 20 20M J A BENNETT HARDWARE		17.7*	18.5*	90*
5221	STEWART & COMPANY		19.1*	20.1	97*
5244	GLASGOW TRADING CENTER		20.3	19.8	101
5319	JEWELL & HAYDEN HARDWARE		19.8	20.6	100
4992	3 12 6M WATKINS BROTHERS	3.2	11.8	7.4	104
5072	THOMAS G SMITHER	3.2	12.1	6.6	104
5062	3 12 12M HENDERSON & HARDY COMPANY	3.1	11.9	12.3	101
5243	GLASGOW TRADING CENTER	3.1	12.2	11.8	101
5280	W J AMBURGEY	3.1	11.9	12.3	101
5316	T F KEENE & SONS	3.0	12.0	11.9	100
5539	HODGENVILLE FARMERS SUPPLY COMPANY	2.8	11.9	12.0	98
5635	GLASGOW TRADING CENTER	3.0	11.9	12.0	100
5837	TRIMBLE COUNTY FARM BUREAU COOP	2.9	12.1	12.0	100
5229	4 12 8M N L NUCKOLS	3.9	12.0	8.2	100
5061	4 12 8S HENDERSON & HARDY COMPANY	4.6	11.8	9.1 (2)	105
5835	5 10 15S SPARTA TRANSFER COMPANY	4.7*	10.3	15.0	99
5178	5 20 20M M J BRYANT & SONS MILLING COMPANY	4.6*	21.8	18.6*	101
5634	GLASGOW TRADING CENTER	4.8	20.2	20.2	100
4886	6 6 18S C T ASHLEY COMPANY	6.3	6.3	16.6*	100
4998	SMITH IMPLEMENT CO	5.7*	6.6	17.0*	99
5544	6 8 6M DUNAGAN SUPPLY	5.7*	9.1	6.7	105
5281	6 8 6S W J AMBURGY	5.9	8.4	6.9 (3)	104
5318	6 12 12M JEWELL AND HAYDEN HARDWARE	5.9	12.4	12.4	102

(1) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>					
5844	6 12 12S SPRINGFIELD FEED AND GRAIN COMPANY	5.6*	12.3	13.1	101
5245	20 SUPERPHOSPHATE GLASGOW TRADING CENTER		20.5		103
5540	HODGENVILLE FARMERS SUPPLY COMPANY		20.2		101
<u>ARMOUR FERTILIZER WORKS NASH TENN</u>					
5364	0 12 12M BIRMINGHAM MILLING COMPANY		12.1	12.1	101
5853	S E HALE & SON HARDWARE		11.9	12.6	101
5677	0 12 12M 3LB BORAX PER 100 SALEM FEED & SEED COMPANY (1)		12.1	13.4	104
5721	0 14 14M SLAUGHTERS MERCANTILE COMPANY		12.2*	9.6*	81*
5198	0 20 20M GALLOWAY SEED COMPANY		19.9	18.1*	96*
5237	0 20 20M 3LB BORAX PER 100 BIG FOUR FEED & IMPLEMENT COMPANY (2)		20.1	20.4	101
5180	2 12 6M GEORGE PATMOR & SON	2.0	12.0	6.2	101
5458	CADIZ HARDWARE COMPANY	2.1	12.0	5.9	101
5625	GEORGE PATMOR & SON	2.2	11.8	6.0	101
5642	BIG FOUR FEED & IMPLEMENT COMPANY	2.0	11.7*	6.6	100
5819	FORBES HARDWARE COMPANY	2.0	12.0	6.0	100
5402	3 9 6M AUBURN SEED COMPANY	3.0	8.5*	6.4	98
5541	3 12 6M GIBSON PRODUCE COMPANY	2.9	11.9	6.4	100
5576	DENTON HARDWARE COMPANY	2.7*	12.1	6.1	98
5641	BIG FOUR FEED & IMPLEMENT COMPANY	3.1	11.7*	6.6	101
5711	J R WILLIAM HARDWARE COMPANY	3.0	11.8	6.4	100
5705	WALLACES HARDWARE	2.7*	11.9	6.2	98
5813	FRANK BARNETT FEED STORE	2.9	11.7*	6.0	98
5197	3 12 12M GALLOWAY SEED COMPANY	3.3	12.0	11.9	102
5363	BIRMINGHAM MILLING COMPANY	2.8	11.9	12.1	98
5401	AUBURN SEED COMPANY	3.0	12.0	11.9	100
5556	MCWHORTER PRODUCE	3.0	12.2	10.4*	97
5803	PEOPLES ICE & COAL COMPANY	3.1	11.7*	12.0	99
5675	3 12 12M 3LB BORAX PER 100 GEORGE PATMOR & SON (3)	3.0	11.6*	12.0	98
5238	3 12 12M 4LB BORAX PER 100 W G ALDRIDGE (4)	3.0	12.1	11.7*	100

(1) BORON GUARANTEED 0.34%-----FOUND 0.14%  
 (2) BORON GUARANTEED 0.34%-----FOUND 0.34%  
 (3) BORON GUARANTEED 0.34%-----FOUND 0.46%  
 (4) BORON GUARANTEED 0.45%-----FOUND 0.48%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>					
	4 12 8M				
5250	AUBURN SEED COMPANY	4.0	11.8	7.9	99
5365	BIRMINGHAM MILLING COMPANY	4.0	11.9	7.6*	99
5483	ROSS FEED COMPANY	3.8	11.8	8.0	98
5555	MCWHORTER PRODUCE COMPANY	3.8	12.1	8.1	99
5640	BIG FOUR FEED & IMPLEMENT COMPANY	3.8	11.7*	8.0	97
5676	GEORGE PATMOR & SON	3.8	11.9	7.9	98
	4 12 8S				
5199	GALLOWAY SEED COMPANY	4.0	12.6	7.3*	101
	5 10 10M				
5552	W C BLAIR	4.9	10.0	10.2	100
5577	DENTON HARDWARE COMPANY	4.9	10.2	9.9	100
5706	WALLACES HARDWARE	4.7*	10.5	9.6*	99
5852	J S WHITTINGHILL FEED STORE	4.8	10.2	9.9	99
	5 10 10S				
4824	HUDSON FEED MILL	4.9	9.9	10.2	100
	6 8 6M				
5216	OWEN AYERS	6.0	8.4	6.2	102
5459	CADIZ HARDWARE COMPANY	5.7*	8.0	6.4	99
	8 8 8M				
5217	AUBURN SEED COMPANY	7.8	8.8	8.1	102
	10 10 10M				
5141	ROSS FEED COMPANY	9.7*	10.6	10.1	101
5196	GALLOWAY SEED COMPANY	9.5*	10.7	10.0	100
5722	SLAUGHTERS MERCANTILE COMPANY	9.7*	10.2	10.1	99
5855	S E HALE & SON HARDWARE	8.2*	10.7	10.5	94*
	12 12 12M				
5179	GEORGE PATMOR & SON	10.5*	12.7	11.0*	94*
	20 CALCIUM CYANAMID				
5461	CADIZ HARDWARE COMPANY	20.5			102
	20 SUPERPHOSPHATE				
5233	OWEN AYERS		20.5		103
5457	CADIZ HARDWARE COMPANY		19.9		100
5482	ROSS FEED COMPANY		19.6*		98
5836	SPARTA TRANSFER COMPANY		20.3		102
5854	S E HALE & SON HARDWARE		20.6		103
	60 MURIATE OF POTASH				
5460	CADIZ HARDWARE COMPANY			60.6	101
<u>ASSOCIATED COOPERATIVES INC</u>					
	14 14 14M				
5220	SOUTHERN STATES HARDIN COOP	14.7	14.1	15.8	105
5384	RICHMOND FARM SERVICE	14.2	15.0	15.5	105
	46 SUPERPHOSPHATE				
4952	MADISONVILLE FARMERS COOPERATIVE		48.6		106
	48 SUPERPHOSPHATE				
5013	SOUTHERN STATES LEITCHFIELD COOP		48.2		100
5531	SOUTHERN STATES BOYLE COOPERATIVE		48.0		100

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>					
4843	61 CALCIUM METAPHOSPHATE SOUTHERN STATES BOWLING GREEN COOP		60.8		100
5817	62 CALCIUM METAPHOSPHATE SOUTHERN STATES HOPKINSVILLE COOP		62.0		100
<u>BARTLETT &amp; O BRYAN FERTILIZER CO</u>					
5374	0 20 20M BARTLETT & O BRYAN FERTILIZER CO		21.6	21.6	108
5708	CANARY FARM SUPPLY		20.0	20.1	100
5724	BROOKS BROTHERS		20.4	21.3	104
5368	3 9 18M BARTLETT & O BRYAN FERTILIZER CO	3.4	10.2	17.8	108
5367	3 12 12M FLOYD DELACEY	2.9	12.1	12.4	101
5710	R H JOHSON	2.9	12.2	13.1	103
5723	BROOKS BROTHERS	3.1	11.9	13.0	102
5369	4 12 8M BARTLETT & O BRYAN FERTILIZER CO	3.8	11.8	8.8	100
5709	CANARY FARM SUPPLY	4.0	12.2	9.3	104
5370	4 16 16M BARTLETT & O BRYAN FERTILIZER CO	3.9	15.9	16.5	100
5371	6 12 12M BARTLETT & O BRYAN FERTILIZER CO	5.7*	11.9	12.3	99
5713	CARLISLE & ABNER	5.7*	12.2	12.5	100
5372	8 8 8M BARTLETT & O BRYAN FERTILIZER CO	7.6*	8.6	10.2	105
5497	EMMICK SERVICE STATION	6.4*	9.8	12.3	106
5373	20 SUPERPHOSPHATE BARTLETT & O BRYAN FERTILIZER CO		20.2		101
5375	50 SULFATE OF POTASH BARTLETT & O BRYAN FERTILIZER CO			46.5*(1)	93*
5451	60 MURIATE OF POTASH BARTLETT & O BRYAN FERTILIZER CO			58.0*	97*
5494	BARTLETT & O BRYAN FERTILIZER CO			60.2	100
<u>BLUEGRASS PLANT FOODS INC CYNTHIANA</u>					
5764	0 20 20M WHITESBURG FARMERS SUPPLY COMPANY		20.5	20.7	103
5361	3 12 12M KENTUCKY STATE PENITENTIARY	3.3	12.3	12.0	103

(1) EXCESS MURIATE EQUIVALENT TO 0.6% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>					
5033	5 10 15S FLOYD BARLOW	5.1	10.2	15.4	102
5032	6 8 12 3M 9S FLOYD BARLOW	6.2	8.0	12.0	101
5046	8 8 8M JULIUS & CARL FISTER	8.0	8.0	8.2	100
5047	20 6 AMMONIUM SULFATE JULIUS & CARL FISTER	21.0			102
5657	20 SUPERPHOSPHATE SOUTHERN STATES CAMPBELL COOPERATIVE		15.7*		78*
<u>BLUEGRASS PLANT FOODS INC DANVILLE</u>					
5206	2 12 6M I K MILLER & SON	2.5	12.0	6.9	107
5393	OSCAR BUIS	2.1	12.5	6.4	105
5566	I K MILLER & SON	2.4	12.4	6.5	107
5546	3 12 12M RALPH HOVIOUS	3.3	12.0	12.6	103
5205	4 12 8S I K MILLER & SON	4.2	11.9	8.0	101
5325	5 10 10M BLUEGRASS PLANT FOODS	5.1	10.2	11.2	104
5547	RALPH HOVIOUS	4.9	11.1	10.6	106
5204	5 10 15S I K MILLER & SON	5.0	11.8	14.8	107
4883	6 8 6S LEAR & BALLARD	6.2	8.1	6.2	102
<u>THE BUHNER FERTILIZER CO INC</u>					
5057	2 12 6M SHEPHERDSVILLE FEED MILL	2.5	11.8	6.2	103
5058	3 9 6M SHEPHERDSVILLE FEED MILL	2.8	9.0	6.9	100
5324	3 12 12M SPRINGFIELD FEED & GRAIN COMPANY	2.7*	12.0	11.9	98
5551	E R REXROAT	2.9	12.0	12.7	101
5303	4 12 8M FERN CREEK FEED & HARDWARE COMPANY	4.0	12.2	8.9	103
5841	FERN CREEK FEED & HARDWARE COMPANY	4.1	11.5*	8.8	100
4990	5 10 15S J W SETTLE FEED STORE	5.0	10.1	14.4*	99



TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>BUNTON SEED CO</u>					
5310	6 12 6M BUNTON SEED COMPANY	7.1	93*	8.7	101
<u>BURLEY BELT PLANT FOOD WORKS</u>					
5755	0 20 20M BRACK NOBLE		20.2	20.0	101
4898	4 10 10M WOOTEN GROCERY & FEED STORE	4.0	9.8	9.9	99
5266	SMATHERS & COMPANY	3.9	9.1*	9.9	95*
5285	ORMAND LEWIS	4.1	9.4*	9.8	98
4897	5 10 16S BRACK NOBLE	5.2	9.7*	16.0	100
5074	ANDERSON COUNTY FARM SERVICE	4.9	9.5*	16.6	99
5286	ORMAND LEWIS	5.1	9.5*	15.8	98
5076	6 6 18S MCCAULEY BROTHERS SEED COMPANY	5.7*	6.1	17.8 (1)	98
4893	6 8 6S HARDY BROTHERS	5.7*	7.9	6.6	99
5429	50 SULFATE OF POTASH C S BRENT SEED COMPANY			52.2	104
<u>COMMONWEALTH FERTILIZER CO INC</u>					
5176	0 20 20M CROFTON FARM STORE		20.3	21.2	103
5209	FRANKLYN FARMS		19.9	20.6	101
5247	COMMONWEALTH FERTILIZER COMPANY		20.9	19.8	103
5211	2 12 6M COMMONWEALTH FERTILIZER COMPANY	2.2	11.8	6.4	101
5212	3 9 6M LANES STORE	3.1	9.0	6.3	102
5815	M G WILLIAMS IMPLEMENT COMPANY	3.1	8.6*	6.3	99
5011	3 12 12M COMMONWEALTH FERTILIZER COMPANY	3.3	11.3*	10.9*	97*
5248	COMMONWEALTH FERTILIZER COMPANY	3.0	12.1	12.4	101
5012	4 12 8M COMMONWEALTH FERTILIZER COMPANY	4.2	11.8	8.0	100
5210	COMMONWEALTH FERTILIZER COMPANY	4.1	11.9	8.0	100
5454	J R WALLACE	4.1	11.4*	8.2	98
5816	M G WILLIAMS IMPLEMENT COMPANY	4.1	11.7*	8.6	101
5175	5 10 10S CROFTON FARM STORE	5.5	10.0	10.2	104
5010	8 8 8M COMMONWEALTH FERTILIZER COMPANY	8.0	8.1	8.8	102
5174	CROFTON FARM STORE	8.0	8.4	8.2	102

(1) EXCESS MURIATE EQUIVALENT TO 1.0% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>CONSOLIDATED CHEMICAL CO</u>					
3 9 6M					
5069	VALLEY FARM STORE	2.8	9.3	6.8	102
4 12 8M					
5554	STOCKTON BROTHERS	2.6*	12.0	9.6	94*
<u>COOPERATIVE FERTILIZER SERVICE</u>					
0 14 14M					
5225	SOUTHERN STATES RUSSELLVILLE COOP		13.5*	15.0	100
5251	SOUTHERN STATES LEXINGTON COOP		13.9	14.3	100
5268	STANTON FARMERS SUPPLY		14.0	14.1	100
5704	C S MCCULLY		13.3*	15.4	100
0 14 14M 3LB BORAX PER 100					
4836	SOUTHERN STATES SOMERSET COOPERATIVE <sup>(1)</sup>		14.2	15.0	103
5096	SOUTHERN STATES OWENTON COOPERATIVE <sup>(2)</sup>		13.5*	14.1	98
5224	SOUTHERN STATES RUSSELLVILLE COOP <sup>(3)</sup>		14.4	14.5	103
5309	SOUTHERN STATES LOUISVILLE COOP <sup>(4)</sup>		14.0	14.4	101
5426	SOUTHERN STATES MAYSVILLE COOP <sup>(5)</sup>		14.4	14.6	103
5703	C S MCCULLY <sup>(6)</sup>		12.8*	14.7	96*
5828	SOUTHERN STATES RUSSELLVILLE COOP <sup>(7)</sup>		14.3	14.2	102
0 30 30M					
5115	RICHMOND FARM SERVICE		27.2*	29.6	93*
5249	SOUTHERN STATES RUSSELLVILLE COOP		30.8	30.0	102
5290	SOUTHERN STATES LEXINGTON COOP		27.6*	27.4*	92*
5300	SOUTHERN STATES MAYSVILLE COOP		29.5	32.5	102
5306	SOUTHERN STATES BOYLE COOPERATIVE		29.6	30.5	100
5341	SOUTHERN STATES CRITTENDEN COOP		30.8	29.8	102
5378	SOUTHERN STATES SOMERSET COOPERATIVE		30.4	29.5	100
5428	SOUTHERN STATES LEXINGTON COOP		30.4	29.9	101
5450	SOUTHERN STATES FLEMINGSBURG COOP		29.4*	29.5*	98
5484	SOUTHERN STATES OWENSBORO COOP		29.7	29.5	99
5534	CARROLL COUNTY FARM BUREAU COOP		29.2*	29.5	98*
5536	SOUTHERN STATES GEORGETOWN COOP		29.3*	30.5	99
5575	SOUTHERN STATES MADISONVILLE COOP		30.2	31.0	102
5636	SOUTHERN STATES GLASGOW COOPERATIVE		29.7	30.4	100
5801	STINSON FARM SUPPLY		30.7	28.9*	100
5831	STEWART & COMPANY		29.5	29.9	99
2 12 6M					
5084	TRIMBLE COUNTY FARM BUREAU COOP	2.3	11.3*	7.0	101
5177	C S MCCULLY	2.1	12.4	6.6	105
5321	SOUTHERN STATES LEBANON COOPERATIVE	2.1	12.0	6.5	102
5543	MONTICELLO FARMERS SUPPLY	2.2	12.0	6.6	103
5563	SOUTHERN STATES CAMPBELLSVILLE COOP	2.2	12.2	7.0	106
5705	CANARY FARM SUPPLY	2.3	12.1	7.2	106
5720	SLAUGHTER MERCANTILE COMPANY	2.2	12.0	6.7	104
5838	SOUTHERN STATES LAGRANGE COOPERATIVE	2.4	11.9	6.8	105
3 12 12M					
4838	RALPH HOVIOUS	3.1	11.4*	12.3	100
5053	SOUTHERN STATES LAGRANGE COOPERATIVE	2.9	12.1	12.3	100
5121	MONTICELLO FARMERS SUPPLY COMPANY	3.1	11.2*	12.6	98
5294	SOUTHERN STATES FLEMINGSBURG COOP	3.1	11.5*	12.2	99
5350	SOUTHERN STATES HENDERSON COOP	3.0	12.4	11.9	102
5404	SOUTHERN STATES SIMPSON COOPERATIVE	3.0	12.2	12.7	102
5466	CALLOWAY COUNTY SOIL IMPROV ASSN	3.1	12.1	12.3	101
5507	SOUTHERN STATES MAYSVILLE COOP	3.0	12.1	12.8	102
5510	SOUTHERN STATES CAMPBELL COOPERATIVE	2.9	11.5*	12.8	99

(1) BORON GUARANTEED 0.34%-----FOUND 0.33%

(2) BORON GUARANTEED 0.34%-----FOUND 0.34%

(3) BORON GUARANTEED 0.34%-----FOUND 0.35%

(4) BORON GUARANTEED 0.34%-----FOUND 0.35%

(5) BORON GUARANTEED 0.34%-----FOUND 0.34%

(6) BORON GUARANTEED 0.34%-----FOUND 0.43%

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

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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
<b>COOPERATIVE FERTILIZER CONTINUED</b>					
<i>3 12 12M CONTINUED</i>					
5530	SOUTHERN STATES BOYLE COOPERATIVE	3.0	12.3	12.3	102
5535	CARROLL COUNTY FARM BUREAU COOP	3.3	11.5*	12.8	102
5537	SOUTHERN STATES GEORGETOWN COOP	3.1	11.5*	13.2	101
5574	SOUTHERN STATES MADISONVILLE COOP	2.9	12.5	12.6	103
5662	PAINTSVILLE FARMERS SUPPLY COMPANY	3.0	11.3*	12.8	99
5765	TOMPKINSVILLE FARMERS SERVICE STORE	2.9	12.1	13.0	102
5822	ELKTON FARM SUPPLIES	3.1	12.4	12.5	104
5830	EDMONSON COUNTY COOPERATIVE	3.1	12.2	12.6	103
<i>4 12 8M</i>					
5269	STANTON FARM SUPPLY	4.0	12.2	8.3	101
5270	CAMARGO FARM SUPPLY	4.1	11.4*	8.8	100
5278	PIKE COUNTY HATCHERY	4.2	11.5*	8.6	100
5342	SOUTHERN STATES CRITTENDEN COOP	4.0	11.8	8.6	100
5356	HANCOCK COUNTY FARM SUPPLY	4.1	12.2	8.3	102
5469	ALLOWAY COUNTY SOIL IMPROV ASSN	3.9	12.0	8.4	100
5506	SOUTHERN STATES MAYSVILLE COOP	4.1	12.0	8.3	101
5557	BURKESVILLE FARMERS EXCHANGE	4.2	11.9	8.4	102
5767	METCALFE COUNTY FARMERS SUPPLY	4.1	12.0	8.7	102
5829	EDMONSON COUNTY COOPERATIVE	3.9	12.2	8.3	101
5832	STEWART & COMPANY	3.9	12.0	8.8	101
<i>5 10 10M</i>					
4881	SOUTHERN STATES LONDON COOPERATIVE	4.9	9.7*	11.7	102
5070	SOUTHERN STATES LOUISVILLE COOP	5.1	10.0	11.0	102
5098	SOUTHERN STATES SHELBYVILLE COOP	4.9	10.0	10.7	101
5118	DEATON BROTHERS	4.9	10.8	10.3	104
5311	SOUTHERN STATES FRANKFORT COOP	4.9	9.9	10.3	102
5317	SOUTHERN STATES BARDSTOWN COOP	5.0	10.2	10.0	101
5359	HICKORY BILLS FARM STORE	5.0	9.6*	10.6	100
5395	SOUTHERN STATES SOMERSET COOPERATIVE	4.9	10.0	10.4	100
5407	SOUTHERN STATES HARDIN COOPERATIVE	5.9	10.5	10.4	102
5444	ROWAN FARMERS SUPPLY	4.8	10.1	10.3	100
5449	SOUTHERN STATES FLEMINGSBURG COOP	4.9	9.5*	10.1	97
5467	ALLOWAY COUNTY SOIL IMPROV ASSN	5.0	9.9	10.6	101
5631	SOUTHERN STATES HARDIN COOPERATIVE	4.8	10.0	10.5	100
5754	TAYLOR FARM SERVICE	5.0	10.0	10.8	102
<i>5 10 15S</i>					
4993	HENRY COUNTY FARM & HOME SERVICE	5.0	10.1	15.1	100
5089	SOUTHERN STATES GEORGETOWN COOP	4.9	10.1	15.4	101
5104	LINCOLN FARM SERVICE	4.9	10.1	15.3	101
5113	BURKESVILLE FARMERS EXCHANGE	5.0	10.8	15.2	104
<i>6 8 6S</i>					
5009	SOUTHERN STATES RUSSELLVILLE COOP	6.0	7.9	6.7	101
5090	SOUTHERN STATES GEORGETOWN COOP	5.6*	8.2	8.2	104
<i>8 8 8M</i>					
5293	SOUTHERN STATES FLEMINGSBURG COOP	7.9	8.5	8.7	103
5308	SOUTHERN STATES LOUISVILLE COOP	7.8	8.6	8.8	103
5468	ALLOWAY COUNTY SOIL IMPROV ASSN	7.6*	8.2	8.8	100
5558	ADAIR FARMERS SERVICE	7.4*	8.5	8.9	100
<i>13 13 13M</i>					
5289	SOUTHERN STATES ASHLAND COOPERATIVE	14.3	13.1	14.1	107
<i>14 14 14M</i>					
5343	K R MCKINNEY & SON	14.7	14.6	14.6	105
5513	SOUTHERN STATES LEXINGTON COOP	14.5	15.4	14.7	106
<i>33 5 AMMONIUM NITRATE</i>					
5515	SOUTHERN STATES LEXINGTON COOP	33.4			100
5652	FALMOUTH FARM SUPPLY	33.5			100
<i>61 CALCIUM METAPHOSPHATE</i>					
5599	SOUTHERN STATES MORGANFIELD COOP		61.5		101

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>					
5050	48 6 SULFATE OF POTASH SOUTHERN STATES LEXINGTON COOP			51.6	106
5035	50 5 SULFATE OF POTASH FALMOUTH FARM SUPPLY			52.0	103
4837	60 MURIATE OF POTASH RALPH HOVIOUS			61.5	102
4882	CRAB ORCHARD FARM SERVICE			58.8*	98
5052	SOUTHERN STATES HARRODSBURG COOP			60.2	100
5095	SOUTHERN STATES OWENTON COOPERATIVE			61.9	103
5097	SOUTHERN STATES SHELBYVILLE COOP			60.1	100
5312	SOUTHERN STATES HARRODSBURG COOP			61.7	103
5382	CRAB ORCHARD FARM SERVICE			58.9*	98
5442	PRESTONSBURG FARM & HOME STORE			54.2*	90*
5448	SOUTHERN STATES FLEMINGSBURG COOP			60.6	101
5514	SOUTHERN STATES LEXINGTON COOP			61.7	103
5598	SOUTHERN STATES MORGANFIELD COOP			61.2	102
5637	SOUTHERN STATES GLASGOW COOPERATIVE			60.9	102
<u>DARLING &amp; CO</u>					
5474	3 12 12M CALLOWAY COUNTY SOIL IMPROV ASSN	3.0	115*	11.9	98
5143	4 12 8M CALLOWAY COUNTY SOIL IMPROV ASSN	4.2	12.4	8.9	105
5347	BALLARD COUNTY COOPERATIVE	4.4	12.4	9.0	107
5475	CALLOWAY COUNTY SOIL IMPROV ASSN	4.3	12.1	8.9	105
5688	GRAVES COUNTY SOIL ASSOCIATION	4.3	11.9	8.4	102
5164	4 16 16M LAND O NAN WAREHOUSE	4.0	16.0	16.6	101
5689	GRAVES COUNTY SOIL ASSOCIATION	4.1	15.5*	17.2	101
5138	5 10 10S LYNN GROVE FEED & SEED COMPANY	5.2	10.2	10.5	103
5851	6 12 12M BALLARD COUNTY COOPERATIVE	5.9	11.5*	13.0	99
5348	10 10 10M BALLARD COUNTY COOPERATIVE	9.7*	10.5	11.1	102
5200	12 12 12M GRAVES COUNTY SOIL ASSOCIATION	10.1*	12.0	12.3	92*
5611	33 5 AMMONIUM NITRATE LAND O NAN WAREHOUSE	33.5			100
<u>DAVISON CHEMICAL CORP NASHVILLE TENN</u>					
5173	0 12 12M CORBIN BENNETT FARM SUPPLY		10.8*	14.0	99
5456	EMERY KELLER		12.3	11.5*	100
5714	SMITH & REYNOLDS COMPANY		12.1	12.8	103
5834	UPTON FARMERS SUPPLY COMPANY		12.6	12.1	104

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>DAVISON NASHVILLE CONTINUED</u>					
0 20 20M					
5193	T W MOORE & SON		18.3*	17.0*	89*
5430	C S BRENT SEED COMPANY		20.6	20.1	102
5716	SMITH & REYNOLDS COMPANY		20.5	20.3	102
2 12 6M					
4956	MADISONVILLE FARMERS COOPERATIVE	2.0	12.4	6.5	103
5616	CORBIN BENNETT FARM SUPPLY	2.1	12.0	6.7	103
5632	E S FERRILL HARDWARE	2.3	11.8	6.5	103
5638	GRAYS & BISHOP	2.1	12.0	6.0	101
5735	ROBINSON IMPLEMENT & MOTOR COMPANY	2.2	11.9	6.4	102
5833	UPTON FARMERS SUPPLY COMPANY	2.1	11.8	6.2	100
3 12 12M					
4957	MADISONVILLE FARMERS COOPERATIVE	3.5	11.7*	11.4*	100
5305	T F KEENE & SONS	3.1	12.3	11.4*	101
5405	DEWEY STRICKLER	2.8	12.4	11.9	100
5431	C S BRENT SEED COMPANY	3.0	12.5	12.1	102
5579	MADISONVILLE FARMERS COOPERATIVE	3.0	12.5	12.2	103
5613	LAND O NAN WAREHOUSE	3.3	12.0	12.1	102
5717	SMITH & REYNOLDS COMPANY	2.7*	12.5	12.0	100
4 12 8M					
5580	MADISONVILLE FARMERS COOPERATIVE	3.4*	11.4*	8.8	95*
5736	ROBINSON IMPLEMENT & MOTOR COMPANY	4.0	11.5*	8.6	99
5 10 10M					
4958	MADISONVILLE FARMERS COOPERATIVE	4.9	9.9	9.7*	98
5001	ALLEN COUNTY FARMERS SERVICE	5.5	8.9*	8.0*	94*
5215	FRANK SNODGRASS	5.0	10.7	10.2	103
5 10 15S					
4959	MADISONVILLE FARMERS COOPERATIVE	4.8	10.9	16.0	104
5008	DEWEY STRICKLER	4.4*	10.2	12.7*	92*
6 8 6M					
5214	ALLEN COUNTY FARMERS SERVICE	5.7*	8.6	6.6	102
5718	SMITH & REYNOLDS COMPANY	5.6*	8.5	6.5	101
5737	ROBINSON IMPLEMENT & MOTOR COMPANY	6.2	8.9	7.1	109
6 8 6S					
4960	MADISONVILLE FARMERS COOPERATIVE	5.8	10.0	6.9	110
6 12 12M					
5006	DEWEY STRICKLER	6.1	11.7*	12.5	100
5581	MADISONVILLE FARMERS COOPERATIVE	5.1*	12.6	10.8*	95*
5614	LAND O NAN WAREHOUSE	5.9	12.3	13.2	103
5719	SMITH & REYNOLDS COMPANY	5.8	12.3	12.4	101
8 8 8M					
5582	MADISONVILLE FARMERS COOPERATIVE	7.7*	7.9	8.9	100
10 10 10M					
5007	DEWEY STRICKLER	8.7*	10.2	11.3	96*
5583	MADISONVILLE FARMERS COOPERATIVE	9.5*	10.4	10.3	99
5615	LAND O NAN WAREHOUSE	9.1*	10.0	10.9	97*
33 5 AMMONIUM NITRATE					
5432	C S BRENT SEED COMPANY	33.4			100
20 SUPERPHOSPHATE					
4953	MADISONVILLE FARMERS COOPERATIVE		21.5		108
5235	ALLEN & JENKINS		20.3		102
5455	EMERY KELLER		19.9		100
5564	YOUNG SEED HOUSE		20.6		103

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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 CONTINUED					
5578	MADISONVILLE FARMERS COOPERATIVE		20.3		102
5610	LAND O NAN WAREHOUSE		19.9		100
5633	E S FERRILL HARDWARE		20.2		101
5715	SMITH & REYNOLDS COMPANY		20.2		101
5804	ALLEN & JENKINS		20.3		102
45 SUPERPHOSPHATE					
5406	GILLESPIE SEED COMPANY		44.0*		98
5609	LAND O NAN WAREHOUSE		45.0		100
50 SULFATE OF POTASH					
4961	MADISONVILLE FARMERS COOPERATIVE			51.0 (1)	102
60 MURIATE OF POTASH					
4954	MADISONVILLE FARMERS COOPERATIVE			59.2*	99
5433	C S BRENT SEED COMPANY			60.2	100
5693	GALLOWAY SEED COMPANY			60.2	100
5802	J B HATCHER COMPANY			60.6	101
<u>DAVISON CHEMICAL CORP NEW ALBANY IND</u>					
2 12 6M					
5066	LOUISVILLE RURAL SUPPLY COMPANY	2.2	12.0	8.3	108
5099	BUECHEL PRODUCE EXCHANGE	2.8	12.4	8.6	116
5394	OSCAR BUIS	2.2	12.0	7.2	105
3 12 12M					
5100	BUECHEL PRODUCE EXCHANGE	3.3	11.9	12.6	103
5302	BUECHEL PRODUCE EXCHANGE	3.1	12.5	12.8	105
5380	MT VERNON FARMERS FEED & SUPPLY	3.2	11.9	13.0	103
5453	WILLIAM FISCHER	2.8	12.2	11.4*	98
5492	HENDERSON FEED & COMMISSION COMPANY	3.1	12.3	14.0	106
4 16 16M					
5452	WILLIAM FISCHER	4.0	15.6*	16.6	100
5493	HENDERSON FEED & COMMISSION COMPANY	3.9	15.6*	16.3	99
5 10 15S					
5071	M V FRISBY	5.2	10.2	14.7*(2)	101
5091	MORGAN & CRENSHAW	4.5*	10.5	16.4 (3)	101
5 20 20M					
4964	BAKERS PHOSPHATE & FERTILIZER SERV	5.0	20.9	18.5*	100
5222	RALPH DURBIN	4.6*	20.7	20.2	101
5379	MT VERNON FARMERS FEED & SUPPLY	4.7*	21.0	21.1	103
6 8 6M					
5068	FRANKES FEED STORE	5.9	8.7	7.2	106
5301	BUECHEL PRODUCE EXCHANGE	5.9	8.3	7.7	105
6 8 6S					
4892	CHRISTOPHER FARMERS SUPPLY	6.0	8.6	5.5*(4)	102
<u>E I DUPONT DE NEMOURS &amp; COMPANY</u>					
45 NU GREEN					
5702	FEDERAL CHEMICAL COMPANY	45.4			101

(1) EXCESS MURIATE EQUIVALENT TO 0.9% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

(4) EXCESS MURIATE EQUIVALENT TO 0.9% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>J H ERBRICH PRODUCTS COMPANY</u>					
4823	6 18 6M LIQUID BIG FOUR FEED & IMPLEMENT COMPANY	5.1*	18.6	6.0	98
<u>ELIZABETHTOWN FERTILIZER CO</u>					
5018	0 20 20M ELIZABETHTOWN FERTILIZER COMPANY		19.5*	19.9	98
5016	2 12 12M ELIZABETHTOWN FERTILIZER COMPANY	2.4	11.3*	11.6*	99
5408	3 12 12M ELIZABETHTOWN FERTILIZER COMPANY	3.1	11.6*	12.6	100
5017	4 8 12M ELIZABETHTOWN FERTILIZER COMPANY	4.0	7.9	11.9	99
5015	5 10 10M JESSE SHIPP	4.9	9.6*	10.3	98
5019	6 12 12S ELIZABETHTOWN FERTILIZER COMPANY	5.1*	11.7*	11.5*(1)	93*
5020	8 8 8M ELIZABETHTOWN FERTILIZER COMPANY	7.5*	8.3	8.5	99
<u>FEDERAL CHEMICAL CO HENDERSON TENN</u>					
5592	0 20 20M RUARK TRUCK LINES		19.6*	20.0	99
5593	3 12 12M RUARK TRUCK LINES	2.0*	12.0	13.2	96
<u>FEDERAL CHEMICAL CO HUMBOLDT TENN</u>					
5195	0 12 12M HOWE HILLIARD & BUTTERWORTH		13.0	11.9	105
4846	3 12 12M EARL WARDS MILL	3.2	12.4	11.3*	101
5685	DAIRYMANS SUPPLY COMPANY	3.7	11.7*	12.4	104
5134	4 12 8M OUTLAND SEED & POPCORN COMPANY	4.4	12.3	8.5	105
5476	L F THURMOND	4.3	11.9	8.4	102
5684	J B JORDAN & SON	4.1	12.1	8.6	102
5686	DAIRYMANS SUPPLY COMPANY	4.1	12.0	8.5	102
5133	4 12 8S OUTLAND SEED & POPCORN COMPANY	4.5	11.6*	8.6 (2)	103

(1) EXCESS MURIATE EQUIVALENT TO 2.5% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.8% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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 HUMBOLDT CONTINUED</u>					
5194	5 10 15S HOWE HILLIARD & BUTTERWORTH	5.2	10.5	14.5*	102
4845	6 8 6M THOMPSONS FEED MILL	6.1	11.2	9.5	125
5132	6 12 12M L F THURMOND	5.1*	12.2	12.3	96*
4844	8 8 8M THOMPSONS FEED MILL	7.3*	8.9	9.9	104
5192	CLINTON HATCHERY	7.9	8.8	8.4	103
5692	YOUNGBLOOD BROTHERS	7.0*	9.5	9.3	102
5687	20 CALCIUM CYANAMID DAIRYMANS SUPPLY COMPANY	20.1			100
5691	60 MURIATE OF POTASH YOUNGBLOOD BROTHERS			60.3	100
<u>FEDERAL CHEMICAL CO LOUISVILLE KY</u>					
5520	0 12 12M FEDERAL CHEMICAL COMPANY WAREHOUSE		11.9	12.1	100
5568	FIECHTER HARDWARE COMPANY		11.8	12.0	99
5570	TRIPLETTS STORE		12.3	11.9	101
5230	0 20 20M U L ROGERS & SONS		19.6*	20.4	99
5524	FEDERAL CHEMICAL COMPANY WAREHOUSE		19.3*	18.5*	95*
5109	2 12 6M DIXIE FEED COMPANY	2.2	12.0	6.3	102
5812	GRAYSON COUNTY SUPPLY COMPANY	2.3	12.1	6.8	105
5826	BONDS FEED MILL	2.4	12.1	6.7	106
4994	3 9 6M SMITH & JACKSON	3.0	9.3	6.7	103
5120	THE MIDGET MILLS	3.2	9.7	6.7	108
5699	3 9 27M FEDERAL CHEMICAL COMPANY	2.0*	9.2	25.6*	93*
5119	3 12 12M THE MIDGET MILLS	3.5	12.6	12.1	106
5231	U L ROGERS & SONS	3.4	12.1	12.5	104
5522	FEDERAL CHEMICAL COMPANY WAREHOUSE	3.0	11.7*	12.6	100
5811	GRAYSON COUNTY SUPPLY COMPANY	3.1	12.0	12.2	101
5827	BONDS FEED MILL	4.0	11.8	11.9	106
5102	4 12 8M CRAFT GROCERY	4.1	12.3	8.4	103
5108	TRIPLETTS STORE	4.0	12.5	8.1	102
5569	TRIPLETTS STORE	4.5	11.2*	8.9	102
5700	4 16 16M FEDERAL CHEMICAL COMPANY	3.9	16.4	16.7	102
5277	5 10 10S FRANCIS WHOLESALE COMPANY	5.2	10.2	10.4	103



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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 LOUISVILLE CONTINUED</u>					
5078	5 10 15S P J HONAKER	5.2	10.6	15.2	104
5518	FEDERAL CHEMICAL COMPANY WAREHOUSE	4.9	10.3	15.0	101
5519	6 6 18S FEDERAL CHEMICAL COMPANY WAREHOUSE	5.5*	6.5	18.9	101
5521	6 8 6M FEDERAL CHEMICAL COMPANY WAREHOUSE	6.2	8.0	7.1	104
4995	10 10 10M J A BENNETT HARDWARE	9.3*	10.1	10.2	971
5326	H C ROBY	10.0	10.1	10.0	100
5443	HALLS FEED STORE	9.4*	10.3	9.9	98
5523	FEDERAL CHEMICAL COMPANY WAREHOUSE	9.3*	10.6	10.7	100
5701	FEDERAL CHEMICAL COMPANY	9.3*	10.5	11.0	100
5651	33 5 AMMONIUM NITRATE FEDERAL CHEMICAL COMPANY WAREHOUSE	33.8			101
5381	20 SUPERPHOSPHATE TRIPLETTS STORE		20.7		103
5661	SHELBY MURPHY		19.1*		95
5810	GRAYSON COUNTY SUPPLY COMPANY		20.6		103
5525	21 SULFATE OF POTASH MAGNESIA FEDERAL CHEMICAL COMPANY WAREHOUSE			22.1	105
5079	50 SULFATE OF POTASH P J HONAKER			49.9	100
<u>FEDERAL CHEMICAL CO NASHVILLE TENN</u>					
5725	0 12 12M BROOKS BROTHERS		11.9	11.5*	98
5129	0 20 20M PAT DAVIS GENERAL MERCHANDISE		13.9*	12.1*	67*
5617	CORBIN BENNETT FARM SUPPLY		18.2*	18.2*	91*
5127	2 12 6M PAT DAVIS GENERAL MERCHANDISE	2.2	12.2	6.0	103
5620	DOUGLAS HELM	2.5	12.4	6.4	108
5646	ROBERT JAMES FEED COMPANY	2.3	12.0	6.8	105
5650	ALLEN & JENKINS	2.5	12.2	6.7	107
5246	3 12 12M THOMERSON MILLING COMPANY	3.3	11.9	12.1	102
5621	DOUGLAS HELM	3.3	11.8	12.0	101
5766	COOK & MOORE	3.4	11.7*	11.9	101
5128	5 10 10S PAT DAVIS GENERAL MERCHANDISE	5.2	10.0	10.3 (1)	102
5618	6 12 12M CORBIN BENNETT FARM SUPPLY	5.8	12.2	12.1	100
5619	8 8 8M CORBIN BENNETT FARM SUPPLY	6.2*	11.0	9.7	105
5622	DOUGLAS HELM	8.5	9.6	9.0	112

(1) EXCESS MURIATE EQUIVALENT TO 1.0% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>					
5645	20 SUPERPHOSPHATE ROBERT JAMES FEED COMPANY		19.6*		98
<u>FERTILENE CORP OF AMERICA</u>					
4841	32 NITROGEN SOLUTION WEST END SEED COMPANY	31.8			93
5201	W C TURNER	32.2			101
5223	AUBURN SEED COMPANY	30.6*			96*
<u>GARDEN PRODUCTS COMPANY</u>					
5004	6 12 6M LIQUID BALE HARDWARE COMPANY	6.2	12.9	6.8	102
<u>HUTSON CHEMICAL CO</u>					
5168	0 20 20M PRINCETON MILLS		19.9	21.1	102
5137	4 12 8M LYNN GROVE FEED & SEED COMPANY	3.9	12.5	7.6*	101
5478	HUTSON CHEMICAL COMPANY	4.0	12.1	8.7	102
5140	5 20 20M ELLIS POPCORN COMPANY	5.1	18.9*	18.8*	96*
5477	6 12 12M HUTSON CHEMICAL COMPANY	5.8	12.0	12.8	100
5479	50 SULFATE OF POTASH HUTSON CHEMICAL COMPANY			52.4	105
<u>INTERNATIONAL MIN &amp; CHEM GREENVILLE</u>					
5763	0 20 20M HARLAN FRUIT COMPANY		21.5	18.5*	102
5762	5 10 10M HARLAN FRUIT COMPANY	5.0	10.0	10.6	101
<u>INTERNATIONAL MIN &amp; CHEM CHICAGO</u>					
5005	50 SUPERPHOSPHATE J W EDWARDS & SON		50.8		102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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 MIN &amp; CHEM CINCINNATI</u>					
4891	0 12 12M FARM & HOME SUPPLY		11.5*	12.7	99
5629	COOPER BROTHERS FEED STORE		11.8	13.5	103
5037	2 12 6M JOHN A SHEEHAN	3.3	12.7	8.1	120
5627	3 12 12M COOPER BROTHERS FEED STORE	2.7*	11.8	12.9	99
4847	4 12 8M OWINGSVILLE FARMERS SUPPLY	3.8	12.4	9.5	104
5653	OWINGSVILLE FARMERS SUPPLY	4.1	11.6*	8.9	101
5000	4 12 8S BARNETT SULLIVAN COMPANY	3.9	12.2	8.2	101
5287	5 20 20M WHEELERS GENERAL MERCHANDISE	4.7*	21.8	19.0*	102
5088	6 8 6S LIPSCOMB COAL & FEED COMPANY	5.6*	8.8	7.4 (1)	104
5021	6 8 16S COOPER BROTHERS FEED STORE	5.4*	8.5	16.5	99
5051	BARNETT SULLIVAN & COMPANY	5.8	8.8	15.4*	101
5628	20 SUPERPHOSPHATE COOPER BROTHERS FEED STORE		20.8		104
5252	21 SULFATE OF POTASH MAGNESIA H F ASBURY			22.9	109
5253	49 SULFATE OF POTASH AL MARKS			52.7	108
<u>INTERNATIONAL MIN &amp; CHEM CLARKSVILLE</u>					
5587	0 20 20M OWENSBORO FARMERS COOPERATIVE STORE		20.6	20.0	102
5729	2 12 6M PRINCETON MILLS	2.1	12.7	6.2	105
5861	LANDER HARDWARE COMPANY	2.0	12.6	5.9	103
5166	3 9 6M PRINCETON MILLS	3.2	9.4	6.3	105
5732	PRINCETON MILLS	3.9	11.1	7.3	125
5588	3 12 12M FARMERS COOPERATIVE STORE	2.9	12.2	12.3	101
5730	PRINCETON MILLS	2.9	12.0	12.8	101
5142	4 12 8M ROSS FEED COMPANY	4.4	12.7	7.6*	105
5481	ROSS FEED COMPANY	3.7*	11.5*	8.2	96*
5589	FARMERS COOPERATIVE STORE	4.1	12.7	7.6*	103
5731	PRINCETON MILLS	3.9	11.9	8.1	99

(1) EXCESS MURIATE EQUIVALENT TO 1.9% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>INTERNATIONAL CLARKSVILLE CONTINUED</u>					
5590	5 20 20M OWENSBORO FARMERS COOPERATIVE STORE	4.5*	20.7	20.0	100
5733	6 8 6M PRINCETON MILLS	5.7*	8.5	6.7	102
5167	6 12 12M PRINCETON MILLS	6.2	12.0	12.7	102
5591	10 10 10M OWENSBORO FARMERS COOPERATIVE STORE	9.9	10.0	10.6	100
5480	20 SUPERPHOSPHATE ROSS FEED COMPANY		20.8		104
5586	OWENSBORO FARMERS COOPERATIVE STORE		20.6		103
5728	PRINCETON MILLS		21.0		105
<u>INTERNATIONAL MIN &amp; CHEM SOMERSET</u>					
5758	0 20 20M INTERNATIONAL MIN & CHEM PLANT		20.8	19.6*	102
5389	2 12 6M W S ALLEN & COMPANY	1.9	12.4	7.2	105
5392	G M SANDIDGE	2.2	12.6	6.3	106
5388	3 12 12M W S ALLEN & COMPANY	3.0	12.2	11.9	101
5753	4 12 8M GIBSON FARM & HOME SERVICE	4.3	11.8	8.0	101
5202	4 12 8S BUCKHORN COAL COMPANY	3.9	12.0	9.2(1)	102
5203	5 10 15S BUCKHORN COAL COMPANY	4.9	10.2	14.9(2)	100
5559	5 20 20M U L ROGERS	4.9	19.7*	20.7	100
<u>KENTUCKY FERTILIZER WORKS</u>					
5288	0 20 20M L F WELLMAN HARDWARE		20.8	18.3*	100
5528	3 12 12M DANVILLE FARMERS SUPPLY COMPANY	3.2	11.0*	12.4	98
5275	4 6 15S STEVE ROSE MARKET	4.2	6.2	15.0	102
5114	5 10 10M ROBINSON & TURLEY	5.0	10.0	11.2	103

(1) EXCESS MURIATE EQUIVALENT TO 1.6% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>KENTUCKY FERTILIZER WORKS CONTINUED</u>					
5273	5 10 15S CHARLES H LINDON	5.3	9.7*	15.4	101
4887	6 8 16S ROBINSON & TURLEY	6.4	7.9	16.1	102
4985	JETT COAL & SUPPLY COMPANY	6.0	8.3	16.3	101
5274	STEVE ROSE	6.3	8.7	15.5*	103
4986	8 8 8 M JETT COAL & SUPPLY COMPANY	8.0	8.0	8.6	101
4888	10 10 10M ROBINSON & TURLEY	9.8	9.9	10.4	99
4850	20 SUPERPHOSPHATE L F WELLMAN HARDWARE		20.6		103
5529	DANVILLE FARMERS SUPPLY COMPANY		20.8		104
4895	50 SULFATE OF POTASH OWSLEY FARM SERVICE			52.8(1)	106
5255	60 MURIATE OF POTASH SPHAR & COMPANY			59.9	100
<u>KNOXVILLE FERTILIZER CO LONDON KY</u>					
5390	0 12 12M KENNEDY SUPPLY COMPANY		12.6	10.7*	100
5751	WILDERS STORE		11.4*	13.0	99
5760	2 12 6M HOBART & MILTON ROBERTS	2.3	12.3	6.4	105
5396	3 9 6M ROSCOE MORRIS	3.1	9.8	8.1	112
5545	A P VAUGHT & COMPANY	3.0	8.8	7.3	103
5105	3 12 12M BAUGHMAN MILLING COMPANY	3.1	12.3	13.0	104
5117	FIKE & DENNIS FARM SUPPLY	3.1	12.3	11.7*	101
5561	W D TURNER	3.2	11.8	12.1	101
5567	C E HERRIN	3.0	11.8	13.2	102
5538	3 12 12M 3LB BORAX PER 100 J M TAYLOR SEED COMPANY (2)	3.3	12.3	12.7	105
5271	4 8 12S AMBURGEYS FARM SUPPLY	3.7*	9.9	10.3*	103
5759	4 12 4M HOBART & MILTON ROBERTS	4.5	11.5*	4.6	103
5123	4 12 8M HOBART & MILTON ROBERTS	4.2	11.6*	8.8	101
5276	PAINTSVILLE GROCERY	4.3	11.5*	8.6	101
5756	JACKSON COUNTY FARM SERVICE	3.8	11.8	9.3	101
5101	4 12 8S CAMPBELL WHOLESALE COMPANY	3.7*	10.2*	9.8	94*

(1) EXCESS MURIATE EQUIVALENT TO 1.5% POTASH

(2) BORON GUARANTEED 0.34%-----FOUND 0.39%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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 LONDON CONTINUED</u>					
5103	4 12 12S JACKSON STORE	4.6	12.0	12.3	104
4900	5 10 5M HAZARD CASH WHOLESALE	5.0	10.4	5.4	103
5752	5 10 10M WILDERS STORE	5.1	10.3	10.0	102
4894	5 10 15S FIKE FARM SUPPLY	5.1	10.4	13.9*	102
5107	SANDERS SUPPLY	5.3	10.4	14.6*	103
5093	6 6 18S G M TAYLOR SEED COMPANY	6.0	6.6	18.5	103
5512	6 8 6M FAYETTE SEED COMPANY	6.0	9.1	6.5	107
5094	6 8 6S G M TAYLOR SEED COMPANY	6.6	8.4	6.7	108
5511	8 8 8M FAYETTE SEED COMPANY	8.4	8.6	8.5	106
5383	10 10 10M SANDERS SUPPLY	9.3*	9.6*	10.5	96*
5116	20 SUPERPHOSPHATE FIKE & DENNIS FARM SUPPLY		20.0		100
5377	PATRICK STORE		19.3*		97
5440	AMBURGEYS FARM SUPPLY		20.2		101
5761	HOBART & MILTON ROBERTS		20.4		102
4999	48 SULFATE OF POTASH BARNETT SULLIVAN & COMPANY			48.9	102
<u>KNOXVILLE FERTILIZER CO KNOXVILLE</u>					
5376	0 12 12M WILLIAMSBURG HARDWARE COMPANY		14.0	10.0*	106
5639	2 12 6M G H BOWLES & SON	2.3	12.6	6.6	108
<u>KNOXVILLE FERTILIZER CO NASHVILLE</u>					
5196	0 20 20M PRINCETON MILLS		11.4*	12.2*	58*
5647	2 12 6M HARRIS FEED COMPANY	2.4	12.4	6.8	108
5860	BOBB & ROBERTSON COMPANY	2.8	13.2	6.5	115
4842	2 12 12M HARRIS FEED COMPANY	2.0	12.5	12.4	103

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>					
5734	3 9 6M PRINCETON MILLS	3.0	11.1	7.5	117
5648	3 12 12M BOWLING GREEN FARMERS FEED MARKET	3.2	12.3	12.1	103
5170	4 12 8M PRINCETON MILLS	5.6	11.4*	9.4	111
5191	ARLINGTON FARMERS FEED & SUPPLY CO	3.9	11.5*	8.0	97
5487	WYNDALLS FARM STORE	4.1	11.9	8.6	102
5495	YOUNG BROTHERS FEED STORE	3.8	11.1*	8.0	95*
5649	BOWLING GREEN FARMERS FEED MARKET	4.0	13.0	8.4	105
5190	6 8 6S ARLINGTON FARMERS FEED & SUPPLY CO	5.3*	10.4	7.1 <sup>(1)</sup>	110
5496	60 MURIATE OF POTASH YOUNG BROTHERS FEED STORE			60.0	100
<u>LAND O NAN WAREHOUSE STURGIS KY</u>					
5165	0 12 12M LAND O NAN WAREHOUSE		11.9	14.1	105
5605	0 20 20M LAND O NAN WAREHOUSE		20.4	20.5	102
5162	0 30 30M LAND O NAN WAREHOUSE		30.6	28.8*	100
5600	LAND O NAN WAREHOUSE		30.4	28.8*	100
5159	3 12 12M LAND O NAN WAREHOUSE	3.1	14.8	11.6*	112
5601	LAND O NAN WAREHOUSE	3.3	12.6	12.7	106
5608	4 16 16M LAND O NAN WAREHOUSE	4.2	16.8	16.5	104
5606	5 10 10M LAND O NAN WAREHOUSE	4.8	10.4	10.9	102
5612	LAND O NAN WAREHOUSE	5.2	11.8	10.5	110
5156	5 15 30M LAND O NAN WAREHOUSE	4.7*	15.4	30.0	99
5602	5 20 20M LAND O NAN WAREHOUSE	4.9	20.1	20.5	101
5603	6 24 24M LAND O NAN WAREHOUSE	6.1	25.2	24.5	104
5158	10 10 10M LAND O NAN WAREHOUSE	9.9	10.8	9.6*	102
5160	10 20 20M LAND O NAN WAREHOUSE	9.3*	22.3	19.7*	102
5604	LAND O NAN WAREHOUSE	9.9	19.6*	20.3	99
5607	60 MURIATE OF POTASH LAND O NAN WAREHOUSE			61.2	102

(1) EXCESS MURIATE EQUIVALENT TO 1.5% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>LOUISVILLE FERTILIZER CO</u>					
5740	3 12 12M YOPP SEED COMPANY	2.9	11.7*	12.2	98
5741	4 12 8M YOPP SEED COMPANY	4.0	11.8	7.9	99
5742	4 16 16M YOPP SEED COMPANY	3.9	16.4	15.8	100
5743	5 20 20M YOPP SEED COMPANY	5.0	19.3*	20.8	99
5744	6 8 6 M YOPP SEED COMPANY	5.8	8.0	6.0	98
5745	8 8 8M YOPP SEED COMPANY	7.8	7.7*	8.0	98
<u>MID SOUTH CHEMICAL COMPANY</u>					
4833	82 ANHYDROUS AMMONIA SHAKER SEED & FEED COMPANY	82.0			100
<u>MISSISSIPPI CHEMICAL CORPORATION</u>					
5219	33 5 AMMONIUM NITRATE RUSSELLVILLE SOUTHERN STATES COOP	33.7			100
<u>MISSOURI PLANT FOOD CO INC</u>					
5184	0 20 20M COOPER SEED & FEED STORE		20.0	21.5	102
5188	BARDWELL SWEET FEED MILL		20.2	20.0	101
5183	3 12 12M COOPER SEED & FEED STORE	3.3	12.4	12.8	106
5344	COOPER SEED & FEED STORE	3.3	12.4	12.2	104
5749	COOPER SEED & FEED STORE	3.3	11.9	12.8	103
5135	4 12 8M LYNN GROVE FEED & SEED COMPANY	4.2	12.1	8.7	103
5683	LYNN GROVE FEED & SEED COMPANY	4.1	12.0	8.7	102
5136	6 12 12M LYNN GROVE FEED & SEED COMPANY	6.0	12.6	11.9	102
5187	8 8 8M BARDWELL SWEET FEED MILL	8.4	8.7	8.4	106
5189	20 5 AMMONIUM NITRATE LIMESTONE BARDWELL SWEET FEED MILL	20.6			100
5139	21 AMMONIUM SULFATE LYNN GROVE FEED & SEED COMPANY	20.8			99



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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 CONTINUED</u>					
5186	20 SUPERPHOSPHATE BARDWELL SWEET FEED MILL		20.3		102
5750	60 MURIATE OF POTASH COPPER SEED & FEED STORE			61.4	102
<u>NORTH AMERICAN FERTILIZER CO</u>					
4839	0 12 12M GEORGE FREND JR		12.1	12.0	101
5357	0 20 20M A RAY DYER		19.4*	21.8	101
5400	2 12 6M RENFRO SUPPLY	2.0	11.9	5.5*	98
5565	SHIPP SEED HOUSE	2.4	12.3	7.5	109
5054	3 12 12M HANCOCKS FEED STORE	3.2	11.5*	12.1	100
5265	H T DERICKSON JR	3.0	12.0	12.6	101
5307	HANCOCKS FEED STORE	2.9	12.9	12.1	104
5328	JAMES A LOGSDON	3.0	12.2	12.7	102
5550	W D CUNNINGHAM	2.9	11.9	12.5	100
5067	3 12 12M 5LB BORAX PER 100 EMBRY TRACTOR & SUPPLY COMPANY (1)	2.7*	11.1*	10.8*	91*
4840	4 16 16M GEORGE FREMS JR	4.1	16.2	15.6*	100
5112	FLETCHER TAYLOR & SONS	4.0	14.7*	18.3	100
5757	FLETCHER TAYLOR & SONS	3.9	15.3*	16.7	98
4884	6 6 18S FLETCHER TAYLOR & SONS	6.1	6.1	17.6*	100
5029	EARL A KENDALL	6.0	8.2	18.1	109
4885	6 8 6M FLETCHER TAYLOR & SONS	5.7*	8.6	7.0	103
5030	EARL A KENDALL	6.0	9.5	6.2	108
5055	HANCOCKS FEED STORE	6.0	8.2	6.4	100
5327	JAMES A LOGSDON	5.3*	10.0	5.8	104
4989	6 8 6S J M MILLING COMPANY	6.0	7.9	7.2	102
5028	EARL A KENDALL	5.9	8.1	6.4	101
5111	10 10 10M FLETCHER TAYLOR & SONS	9.6*	10.0	10.2	98
5859	20 SUPERPHOSPHATE EVERETT WOOSLEY GENERAL STORE		20.2		101
4988	50 SULFATE OF POTASH J M MILLING COMPANY			50.0(2)	100

(1) BORON GUARANTEED 0.50%-----FOUND 0.75%

(2) EXCESS MURIATE EQUIVALENT TO 2.5% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>THE OHIO VALLEY FERTILIZER CORP</u>					
5045	5 10 10M LEXINGTON FARMERS FEED MILL	5.0	9.9	10.4	100
5435	33 5 AMMONIUM NITRATE BRENT & COMPANY	33.9			101
5031	50 SULFATE OF POTASH DOUGLAS MCLONEY			51.1	102
5434	60 MURIATE OF POTASH BRENT & COMPANY			60.4	101
<u>PRICE CHEMICAL CO</u>					
5439	0 12 12M 2 5LB BORAX PER 100 MONARCH MILLING COMPANY(1)		12.4	12.6	104
5023	2 12 6M HARDIN COUNTY MILL	2.4	12.0	7.2	107
5064	STAUTS FEED STORE	2.2	11.9	7.1	104
5073	J W DAWSON	2.3	11.8	7.0	104
5257	M B FOX	2.5	11.6*	7.6	106
5320	PRICE & O BRYAN	1.9	11.4	6.1	96
5065	3 12 12M STAUTS FEED STORE	3.3	12.0	13.1	104
5840	STAUTS FEED STORE	1.9*	12.7	12.5	97
5626	4 16 16M TUXEDO FEED STORE	3.8	16.5	15.9	100
5258	5 10 15S M B FOX	5.0	9.8	15.5	100
5272	MONARCH MILLING COMPANY	4.9	10.2	15.9	102
4987	6 8 8S ELKHORN SUPPLY COMPANY	5.7*	8.7	8.6	103
5025	HARDIN COUNTY MILLS	5.9	8.5	8.5	102
5256	M B FOX	5.9	8.3	9.1(2)	104
5260	FOX BROTHERS	6.0	8.0	8.7	102
5063	8 8 8M STAUTS FEED STORE	7.5*	8.4	8.7	100
5075	WOODFORD FEED COMPANY	7.6*	8.5	8.4	100
5259	FOX BROTHERS	8.3	7.7*	10.0	104
5291	60 MURIATE OF POTASH MONARCH MILLING COMPANY			61.4	102
<u>RIGO MANUFACTURING COMPANY</u>					
5218	20 20 20 AUBURN SEED COMPANY	20.2	21.2	20.0	103

(1) BORON GUARANTEED 0.28%-----FOUND 0.22%

(2) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>SCHROCK FERTILIZER SERVICE</u>					
5694	21 AMMONIUM SULFATE CRAFTON BROTHERS & DUNCAN	21.0			100
<u>O M SCOTT &amp; SONS CO</u>					
5279	9 7 4M PIKEVILLE FARMERS SUPPLY COMPANY	9.5	7.9	4.4	108
5768	THE MITCHELL COMPANY	8.9	8.6	5.9	111
<u>SPENCER CHEMICAL CO</u>					
4835	82 ANHYDROUS AMMONIA NITROGEN FERTILIZER SERVICE	82.0			100
<u>SWIFT &amp; CO NATIONAL STOCK YARDS ILL</u>					
5337	0 20 20M MORGANFIELD HARDWARE COMPANY		19.3*	20.7	99
5338	3 12 12M MORGANFIELD HARDWARE COMPANY	3.2	11.7*	13.5	103
5345	COOPER SEED & FEED COMPANY	3.7	11.1*	12.9	103
5336	4 16 16M MORGANFIELD HARDWARE COMPANY	4.0	15.7*	17.6	102
5181	4 24 12M GEORGE PATMOR & SON	4.5	23.8	11.3*	100
5747	6 10 4M YOPP SEED COMPANY	5.3*	11.0	5.4	103
5842	BUNTON SEED COMPANY	5.6*	10.6	5.3	103
5027	12 12 12M STANLEY PENN & SONS	11.5*	12.4	12.3	99
<u>TENNESSEE CHEMICAL CO</u>					
4968	0 12 12M HARRALSON SEED STORE		12.3	12.9	104
5227	0 12 12M 3LB BORAX PER 100 N L NUCKOLS <sup>(1)</sup>		12.4	11.8	102
4970	0 20 20M HARRALSON SEED COMPANY		19.5*	19.6*	98
4967	3 9 18M HARRALSON SEED COMPANY	3.1	9.3	17.5*	100
5226	3 12 6M N L NUCKOLS	2.9	12.5	6.1	102
5498	W H ARNOLD & COMPANY	2.9	11.5*	6.0	97
5857	QUALITY GROCERY & HARDWARE COMPANY	3.3	12.0	6.8	104

(1) BORON GUARANTEED 0.34%-----FOUND 0.39%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>					
4974	3 12 12M HARRALSON SEED COMPANY	3.1	11.8	11.9	99
5490	HENDERSON FEED & COMMISSION COMPANY	3.1	11.9	11.9	100
4969	3 12 12S HARRALSON SEED COMPANY	3.1	11.1*	11.9	96*
5333	4 12 8M HARRALSON SEED COMPANY	4.0	11.5*	7.8	97
5820	NUCKOLS SEED COMPANY	4.2	12.1	7.9	102
4972	5 10 10S HARRALSON SEED COMPANY	4.9	9.8	11.3	101
4965	5 10 15S HARRALSON SEED COMPANY	5.1	10.0	15.5	102
5330	6 8 6M HARRALSON SEED COMPANY	5.8	8.0	6.2	99
5491	HENDERSON FEED & COMMISSION COMPANY	5.6*	7.9	6.2	97
4973	6 8 6S HARRALSON SEED COMPANY	6.2	8.1	6.9	104
5334	8 8 8M HARRALSON SEED COMPANY	7.8	8.4	7.8	100
5335	10 6 4M HARRALSON SEED COMPANY	9.5*	6.0	4.5	98
5332	10 10 10M HARRALSON SEED COMPANY	10.0	10.3	10.0	101
4971	20 SUPERPHOSPHATE HARRALSON SEED COMPANY		20.6		103
5228	N L NUCKOLS		22.8		113
5331	HARRALSON SEED COMPANY		20.2		101
5821	NUCKOLS SEED COMPANY		20.0		100
5856	QUALITY GROCERY & HARDWARE COMPANY		19.7*		98
<u>TENNESSEE CORP CINCINNATI OHIO</u>					
5039	3 12 12M BI COUNTY FARM BUREAU COOPERATIVE	3.3	12.6	12.2	105
5441	4 12 8M R T ROBERTS	4.1	12.0	8.5	102
5085	5 10 10S GALLATIN COUNTY FARM SUPPLY	5.1	10.8	10.7	106
5110	5 10 15S HARRISON BROTHERS FARM SUPPLY	5.0	10.1	15.0	100
5282	H T ROBERTS	5.1	10.4	14.8	101
5038	10 10 10M BI COUNTY FARM BUREAU COOPERATIVE	9.0*	10.6	10.9	99

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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 CONTINUED</u>					
5283	33 5 AMMONIUM NITRATE H T ROBERTS	33.9			101
5040	20 SUPERPHOSPHATE BI COUNTY FARM BUREAU COOPERATIVE		19.4*		97
5049	48 SULFATE OF POTASH SOUTHERN STATES LEXINGTON COOP			50.7	106
5086	GALLATIN COUNTY FARM SUPPLY			49.6	103
5048	52 SULFATE OF POTASH FISTER BROTHERS			51.2*	99
5034	60 MURIATE OF POTASH FALMOUTH FARM SUPPLY			61.1	102
5087	GALLATIN COUNTY FARM SUPPLY			61.0	102
<u>TENNESSEE CORP NEW ALBANY IND</u>					
5630	0 20 20M COOPER BROTHERS FEED STORE		21.1	19.2*	102
5241	0 20 20M 10LB BORAX PER 100 WILSON BRAY COMPANY(1)		21.0	20.1	104
5808	2 12 6M LEITCHFIELD TRANSFER	2.1	12.0	6.9	103
5014	3 12 12M LEITCHFIELD TRANSFER	2.9	12.4	12.4	102
5242	WILSON BRAY COMPANY	3.0	12.6	12.2	103
5643	ALLEN COUNTY FARMERS SERVICE	3.0	12.4	12.0	102
5809	LEITCHFIELD TRANSFER	3.0	12.3	12.4	102
5532	3 12 12M 12LB BORAX PER 100 MCCAULEY BROTHERS SEED COMPANY(2)	2.9	12.2	12.2	101
5409	4 12 8M ALLEN COUNTY FARMERS SERVICE	4.0	12.3	8.7	103
5644	4 16 16M ALLEN COUNTY FARMERS SERVICE	3.9	16.4	16.1	101
4825	4 24 12M ALLEN COUNTY FARMERS SERVICE	3.7*	24.4	12.5	101
5022	5 10 15S COOPER BROTHERS FEED STORE	5.1	9.9	15.7	101
5807	20 SUPERPHOSPHATE LEITCHFIELD TRANSFER		21.1		105
5236	60 MURIATE OF POTASH M G PRUITT IMPLEMENT COMPANY			60.8	101

(1) BORON GUARANTEED 1.13%-----FOUND 1.33%

(2) BORON GUARANTEED 1.37%-----FOUND 1.50%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>TRI STATE CHEMICAL CO</u>					
5695	0 20 20M TRI STATE CHEMICAL COMPANY		19.1*	21.6	100
5150	3 12 12M TRI STATE CHEMICAL COMPANY	2.6*	11.9	12.2	97*
5171	WATSON COAL & FEED COMPANY	3.1	11.4*	11.9	97
5353	TRI STATE CHEMICAL COMPANY	2.9	11.6*	12.6	98
5623	NEBO MILL	3.1	12.0	11.1*	99
5726	MADISONVILLE FARMERS COOPERATIVE	3.2	12.6	14.0	108
5697	4 12 8M TRI STATE CHEMICAL COMPANY	3.7*	12.5	9.4	103
5712	R D SANDERFUR	3.5*	13.1	9.5	105
5148	4 16 16M TRI STATE CHEMICAL COMPANY	3.9	15.9	16.5	100
5351	TRI STATE CHEMICAL COMPANY	4.0	15.6*	17.2	100
5584	MADISONVILLE FARMERS COOPERATIVE	3.7*	17.0	17.2	104
5151	5 10 10S TRI STATE CHEMICAL COMPANY	4.6*	9.9	10.4(1)	98
5172	WATSON COAL & FEED COMPANY	5.0	8.9*	10.2	95*
5696	TRI STATE CHEMICAL COMPANY	4.7*	9.8	9.8	97
5149	5 20 20M TRI STATE CHEMICAL COMPANY	4.3*	17.4*	18.7*	89*
5355	TRI STATE CHEMICAL COMPANY	4.6*	19.2*	20.7	97
5585	MADISONVILLE FARMERS COOPERATIVE	4.9	20.0	20.8	101
5146	6 8 6M NORRIS HARDWARE COMPANY	5.5*	8.5	7.0	102
5154	TRI STATE CHEMICAL COMPANY	5.8	8.4	5.8	100
5354	TRI STATE CHEMICAL COMPANY	5.4*	8.6	6.8	101
5489	NORRIS HARDWARE COMPANY	5.5*	9.0	6.5	102
5147	8 8 8M TRI STATE CHEMICAL COMPANY	7.1*	8.1	8.5	96*
5352	10 10 10M TRI STATE CHEMICAL COMPANY	9.1*	11.0	12.2	102
5153	20 SUPERPHOSPHATE TRI STATE CHEMICAL COMPANY		20.6		103
5155	45 SUPERPHOSPHATE TRI STATE CHEMICAL COMPANY		44.0*		98
5698	TRI STATE CHEMICAL COMPANY		43.0*		96*
<u>U S STEEL CORP</u>					
5207	20 6 AMMONIUM SULFATE DUDGEON & ROBINSON	20.9			102
<u>VALLEY COUNTIES OF KY COOP INC</u>					
5346	0 30 30M BALLARD COUNTY COOPERATIVE		29.9	30.6	100
5403	SOUTHERN STATES SIMPSON COOPERATIVE		30.6	29.4*	101
5472	CALLOWAY COUNTY SOIL IMPROV ASSN		30.2	30.3	101
5679	LIVINGSTON COUNTY COOPERATIVE		30.1	30.2	100

(1) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>VALLEY COUNTIES OF KY COOP CONTINUED</u>					
5486	14 14 14M SOUTHERN STATES OWENSBORO COOP	14.7	14.9	14.7	105
5678	33 5 AMMONIUM NITRATE LIVINGSTON COUNTY COOPERATIVE	33.6			100
5144	48 SUPERPHOSPHATE CALLOWAY COUNTY SOIL IMPROV ASSN		47.3*		99
5471	49 SUPERPHOSPHATE CALLOWAY COUNTY SOIL IMPROV ASSN		49.0		100
5680	LIVINGSTON COUNTY COOPERATIVE		48.9		100
5485	60 CALCIUM METAPHOSPHATE SOUTHERN STATES OWENSBORO COOP		59.1*		98
5473	61 CALCIUM METAPHOSPHATE CALLOWAY COUNTY SOIL IMPROV ASSN		61.4		101
5682	LIVINGSTON COUNTY COOPERATIVE		61.6		101
5690	62 CALCIUM METAPHOSPHATE GRAVES COUNTY SOIL ASSOCIATION		62.3		100
5470	50 SULFATE OF POTASH CALLOWAY COUNTY SOIL IMPROV ASSN			50.9	102
5360	50 MURIATE OF POTASH KENTUCKY STATE PENITENTIARY			51.2	102
5145	60 MURIATE OF POTASH CALLOWAY COUNTY SOIL IMPROV ASSN			60.6	101
5366	MARSHALL COUNTY SOIL IMPROV ASSN			59.1*	98
5681	LIVINGSTON COUNTY COOPERATIVE			60.7	101
<u>VIRGINIA CAROLINA CHEM HOPKINSVILLE</u>					
5725	0 12 12M E L BARNES & SON		12.9	12.9	108
5738	ROBINSON IMPLEMENT & MOTOR COMPANY		12.5	12.9	105
5239	0 12 12M 5LB BORAX PER 100 (1) VIRGINIA CAROLINA CHEMICAL CORP		12.8	12.2	105
5126	2 12 6M CERULEAN FARMERS SERVICE CENTER	2.0	11.6*	6.6	99
5340	GUESS & HUNT	2.7	10.7*	7.2	102
5465	TRIGG COUNTY TRADING COMPANY	1.8	12.5	6.0	101
5500	FOX HARDWARE COMPANY	1.7*	12.6	6.2	101
5130	3 12 12M R M MILLER SEED & POPCORN COMPANY	3.2	12.1	12.3	102
5362	KUTTAWA FEED & SEED COMPANY	3.1	12.3	12.8	104
5572	BASIL M BROOKS	3.1	12.4	12.1	103
5804	CAYCE YOST COMPANY	3.4	12.4	12.3	105
5858	GREENVILLE IMPLEMENT COMPANY	3.2	12.0	12.7	103

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

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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>VIRGINIA CAROLINA CHEM CONTINUED</u>					
	4 12 8M				
5339	GUESS & HUNT	4.0	12.8	8.5	105
5463	TRIGG COUNTY TRADING COMPANY	4.0	12.6	7.8	102
5499	FOX HARDWARE COMPANY	4.1	12.5	8.6	104
	6 8 6M				
5464	TRIGG COUNTY TRADING COMPANY	5.9	8.4	6.6	103
	6 12 12M				
5131	R M MILLER SEED & POPCORN COMPANY	6.1	12.0	12.1	101
	8 8 8M				
5240	VIRGINIA CAROLINA CHEMICAL CORP	7.9	8.8	8.9	105
5862	LANDER HARDWARE COMPANY	7.7*	8.9	8.2	102
	20 SUPERPHOSPHATE				
4975	CERULEAN FARMERS SERVICE CENTER		21.1		105
5462	TRIGG COUNTY TRADING COMPANY		20.9		105
5571	BASIL M BROOKS		21.4		107
5624	MAXWELL ICE & COAL		20.4		102
<u>VIRGINIA CAROLINA CHEM CINCINNATI</u>					
	0 20 20M				
5261	HARDIN KENNON		20.4	20.4	102
	2 12 6M				
5082	BEDFORD FARM EQUIPMENT COMPANY	2.3	12.2	6.5	105
5447	GRAYSON MILLING COMPANY	2.1	12.0	6.1	101
	3 12 12M				
5081	BEDFORD FARM EQUIPMENT	3.0	12.2	12.5	102
5313	SHELBY FEED & SEED COMPANY	3.0	12.1	12.9	102
	4 12 8S				
5264	HARDIN KENNON	4.0	12.8	8.1	104
	4 16 16M				
5059	SHEPHERDSVILLE FEED MILL	4.1	16.0	16.6	102
5080	BEDFORD FARM EQUIPMENT COMPANY	4.2	16.0	16.7	102
	5 10 10M				
5060	SHEPHERDSVILLE FEED MILL	5.1	11.0	10.1	105
	5 10 16S				
5398	DUNNINGTON MILLING COMPANY	4.9	10.4	16.5	102
	10 10 10M				
5106	SANDERS SUPPLY	9.9	10.6	10.1	102
5262	HARDIN KENNON	9.9	10.8	10.2	102
	33 5 AMMONIUM NITRATE				
5436	WOODFORD SPEARS & SONS	33.8			101
	20 SUPERPHOSPHATE				
5024	HARDIN COUNTY MILLS		20.3		101
	48 SULFATE OF POTASH				
5083	BEDFORD FARM EQUIPMENT COMPANY			52.8	110



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1954

(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 MT PLEASANT</u>					
5823	0 12 12M MISS AGNES DAVIS		12.5	12.5	104
5213	3 9 6M CLAY & JOHNSON	3.3	9.4	6.8	108
5553	3 12 12M ELFORD HAYES	3.1	12.2	13.1	104
5560	U L ROGERS	3.1	12.1	12.9	103
5595	MORGANFIELD FARMERS SUPPLY COMPANY	2.6*	12.0	12.5	98
5824	MISS AGNES DAVIS	3.1	12.5	12.4	104
5399	4 12 8M DUNNINGTON MILLING COMPANY	4.0	12.1	8.5	102
5596	MORGANFIELD FARMERS SUPPLY COMPANY	3.3*	12.5	7.9	97
4950	5 10 16S ROBINSON IMPLEMENT & MOTOR COMPANY	4.8	10.3	15.7*	99
5002	PAUL CRABTREE GENERAL STORE	5.2	10.0	16.0	101
5597	5 20 20M MORGANFIELD FARMERS SUPPLY COMPANY	4.7*	21.4	18.1*	100
5003	6 8 6S PAUL CRABTREE GENERAL STORE	6.0	8.1	6.7	101
5825	20 SUPERPHOSPHATE MISS AGNES DAVIS		20.1		100
<u>WINDY HILL FARM</u>					
5208	10 15 5M LIQUID HAYS FEED MILL	11.4	17.4	5.2	114
<u>ZIRCON PRODUCTS CO</u>					
4962	6 18 6M LIQUID WYDALLS FARM STORE	6.1	19.8	7.6	109

TABLE 2 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, July-December, 1954

(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						
4951	Madisonville Farmers Cooperative	3.0	3.0	30.0	31.3	104
<u>AMERICAN CYANAMID COMPANY</u>						
Rock Phosphate						
5125	Somerset Southern States Coop.	3.0	4.0	33.0	33.4	101
5594	Ruark Truck Lines	3.0	3.7	33.0	33.5	102
<u>ASSOCIATED COOPERATIVES</u>						
Fused Tricalcium Phosphate						
5232	Richard Thomas	20.0	20.2	28.0	28.0	101
5542	Monticello Farmers Supply	20.0	20.7	28.0	28.0	104
5562	Campbellsville S. S. Coop.	20.0	21.1	28.0	28.1	103
5818	Hopkinsville S. S. Coop.	20.0	20.0	28.0	28.1	100
<u>COOPERATIVE FERTILIZER SERVICE</u>						
Fused Tricalcium Phosphate						
5573	Madisonville S. S. Coop.	20.0	20.4	28.0	28.2	101
<u>RUHM PHOSPHATE CHEMICAL COMPANY</u>						
Rock Phosphate						
4963	Bakers Phosphate & Fertilizer	---	---	30.0	29.9	99
5806	B. P. Eddie	3.0	2.8	30.0	29.7*	99
<u>SCHROCK FERTILIZER SERVICE</u>						
Rock Phosphate						
5041	Erlanger Bi-County Farm Bureau	3.0	3.9	33.0	33.7	102
5329	James A. Logsdon	---	---	33.0	33.3	101
5349	Crofton Bros., Duncan & Sinkhorn	---	---	33.0	34.1	104
<u>THOMPSON SALES COMPANY</u>						
Soft Phosphate with Colloidal Clay						
5748	Yopp Seed Company	2.0	2.8	20.0	20.1	101

TABLE 2 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, July-December, 1954 (Continued)

(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	

THOMSON PHOSPHATE DEPARTMENT

Rock Phosphate

5182	George Patmor & Son	3.0	2.9	30.0	30.1	101
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TABLE 3 - Analyses of Inspection Samples of Bones, Dried Manures, etc., July-December, 1954

(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
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THE SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE

6-4-0 Milorganite

5746	Yopp Seed Company	5.7*	4.8	---	98.0
5843	Bunton Seed Company	5.4*	5.0	---	94.0**

TENNESSEE CHEMICAL COMPANY

1.5-1-2 Sheep Manure

4966	Harralson Seed Company	1.4	1.6	4.7	121.0
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5M - 6-55