

Commercial Fertilizers in Kentucky, 1953

Including a Report on Official Fertilizer Samples
Analyzed

July — December, 1953



Kentucky Agricultural Experiment Station
University of Kentucky
Lexington

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CONTENTS

	Page		Page
Tonnage of fertilizer sold	3	Tonnage of mixed fertilizer containing borax, table 5	9
Plant food or nutrients	3	Average analysis of mixed fertilizer, 1940-1953, table 6	10
Fertilizer grade	3	Samples equal to guaranty and analyses within tolerance, by companies, table 7	11
Number of grades needed in Kentucky	3	Analyses of inspection samples of mixed fertilizers, superphosphates, and fertilizer salts, table 8	15
Refunds	4	Analyses of inspection samples of rock phosphate, basic slag, fused tricalcium phosphate, table 9	75
Farmers' samples	4	Analyses of inspection samples of bones, dried manures, etc., table 10	76
Fertilizer guaranty	5		
Penalties for violating the fertilizer law	5		
Explanation of tables 7, 8, 9 and 10	6		
Tonnage of mixed fertilizer, table 1	7		
Tonnage of materials, table 2	8		
Total tonnage, table 3	8		
Tonnage of mixed fertilizer containing sulfate of potash, table 4	9		

This bulletin contains analyses of commercial fertilizers made between July 1 and December 31, 1953. Analyses of samples made between January 1, 1953 and June 30, 1953 were published in Regulatory Bulletin 109.

TONNAGE OF FERTILIZER SOLD

Manufacturers reported that 563,228 tons of commercial fertilizer were sold in Kentucky during 1953, a decrease of 8.9 percent from 1952. The decrease was partly due to the extreme drouth. 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 1953, as reported by manufacturers, is given in tables 1, 2 and 3. Tonnage of sulfate of potash, by grades, is given in table 4, and tonnage of fertilizers containing boron will be found in table 5. Table 6, giving the average analysis of mixed fertilizers from 1940 to 1953 inclusive, shows that the amount of nutrients in mixed fertilizers increased by more than 40 percent during that time.

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:

Ratio	Minimum Grade	Higher Analysis Grades
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	4-12-8	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. 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 Circular 70 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 \$1.00 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 can not 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 proposes 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.

EXPLANATION OF TABLES 7, 8, 9 AND 10

The standings of manufacturers as determined by the results of analysis of official samples are given in Table 7. Purchasers of fertilizer can learn through a study of this table, how well any manufacturer met his guarantee on the samples analyzed.

It should be noted that the first 3 columns of figures in Table 7 refer to number of samples and that the last 3 columns refer to number of analyses 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 within the tolerance of $1/4$ of 1 percent (the tolerance of the Kentucky Fertilizer Law).

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 8, 9, and 10. 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 \$1.00 below the guaranty, the result is indicated in the tables by underlining the figures.

TABLE 1. - Mixed Fertilizer Sales by Grades
January 1 thru December 31, 1953, Kentucky

Grade	January 1 thru June 30 (Tons)	July 1 thru December 31 (Tons)	Total (Tons)
0-10-20.....	327	103	430
0-12-12.....	13,624	2,825	16,449
0-14-7.....	2,274	567	2,841
0-14-14.....	2,701	703	3,404
0-15-15.....	236	24	260
0-20-20.....	5,566	2,322	7,888
0-24-24.....	138	7	145
0-30-30.....	816	424	1,240
2-12-6.....	41,323	9,842	51,165
2-12-12.....	94	68	162
3-9-6.....	32,909	1,963	34,872
3-9-18.....	1,773	81	1,854
3-12-6.....	11,694	1,309	13,003
3-12-12.....	44,073	14,495	58,568
3-13-12.....	-----	102	102
4-6-15.....	994	6	1,000
4-8-12.....	13,235	739	13,974
4-8-16.....	1,642	53	1,695
4-10-10.....	860	123	983
4-12-4.....	2,446	518	2,964
4-12-8.....	37,139	4,173	41,312
4-12-12.....	1,261	15	1,276
4-16-16.....	1,679	922	2,601
4-24-12.....	500	93	593
5-10-5.....	1,321	58	1,379
5-10-10.....	26,476	1,583	28,059
5-10-15.....	21,278	3,776	25,054
5-10-16.....	14,327	93	14,420
5-20-20.....	371	310	681
6-6-18.....	1,924	35	1,959
6-8-6.....	64,224	3,174	67,398
6-8-8.....	2,652	80	2,732
6-8-12.....	4,151	98	4,249
6-8-16.....	2,531	47	2,578
6-10-4.....	1,338	190	1,528
6-12-12.....	4,217	456	4,673
6-12-18.....	1,276	80	1,356
8-8-8.....	7,610	1,135	8,745
9-7-4.....	112	69	181
10-6-4.....	138	149	287
10-8-6.....	234	11	245
10-10-10.....	3,191	914	4,105
12-12-12.....	223	82	305
Miscellaneous*.....	512	110	622
Total.....	375,410	53,927	429,337

*Grades with less than 100 tons included here. A list of these grades showing the tonnage may be secured upon request. Write the Department of Feed & Fertilizer, Kentucky Agricultural Experiment Station, Lexington, Kentucky.

TABLE 2. - Fertilizer Sold as Straight Material and Miscellaneous Products by Types, January 1 thru December 31, 1953, Kentucky

Material	Jan 1 thru June 30	July thru December 31	Total
	(Tons)	(Tons)	(Tons)
Nitrate of Soda, 16%.....	2,129	130	2,259
Ammonium Nitrate Lime, 20.5%.....	2,462	15	2,477
Ammonium Sulfate, 20-21%.....	1,541	104	1,645
Calcium Cyanamid, 20-21%.....	801	1,162	1,963
Ammonium Nitrate Sulfate, 26%.....	1,134	-----	1,134
Nitrogen Solution, 32%.....	55	109	164
Nitrogen Solution, 40.8%.....	-----	77	77
Ammonium Nitrate, 32.5%-33.5%.....	16,099	11,215	27,314
Nu Green, 45%.....	85	-----	85
Anhydrous Ammonia, 82%.....	381	252	633
Total Nitrogen Material.....	24,687	13,064	37,751
Soft Phosphate, 20% Total.....	1,619	872	2,491
Ground Rock Phosphate, 30-33% Total.....	6,220	3,029	9,249
Basic Slag, 8% Total.....	456	140	596
Superphosphate, 18-20% Avail.....	46,350	11,147	57,497
Fused Tricalcium Phosphate, 28% Total....	1,485	444	1,929
Triple Superphosphate, 45-49%.....	4,035	2,098	6,133
Calcium Metaphosphate, 62%.....	2,244	1,200	3,444
Total Phosphate Material.....	62,409	18,930	81,339
Sulfate of Potash Magnesia, 21-22%.....	503	78	581
Sulfate of Potash, 48-50.5%.....	7,005	1,101	8,106
Muriate of Potash, 50%.....	782	41	823
Muriate of Potash, 60%.....	3,278	1,435	4,713
Total Potash Material.....	11,568	2,655	14,223
Dried Manures.....	146	129	275
Bone Meal.....	49	5	54
Sewage Sludge.....	44	168	212
Miscellaneous.....	10	27	37
Total Miscellaneous Products.....	249	229	578
GRAND TOTAL.....	98,913	34,978	133,891

TABLE 3. - Summary, All Fertilizer Sold, January 1 thru December 31, 1953, Kentucky

Type	January 1 thru June 30	July 1 thru December 31	Total
	(Tons)	(Tons)	(Tons)
Mixed Fertilizer (Table 1).....	375,410	53,927	429,337
Straight Materials (Table 2).....	98,913	34,978	133,891
TOTAL.....	474,323	88,905	563,228

TABLE 4. - Mixed Fertilizer Containing Sulfate of Potash, Sales by Grades, January 1 thru December 31, 1953, Kentucky*

Grade of Mixed Fertilizer	Potash From		Total (Tons)
	Part Muriate Part Sulfate (Tons)	All Sulfate (Tons)	
3-9-6	416	4,395	4,811
3-9-18	-----	814	814
3-12-6	-----	10,008	10,008
3-12-12	210	332	542
4-6-15	-----	920	920
4-8-12	-----	13,171	13,171
4-8-16	1	1,594	1,595
4-12-8	12	11,872	11,884
4-12-12	-----	1,201	1,201
5-10-10	-----	17,253	17,253
5-10-15	-----	25,053	25,053
5-10-16	-----	14,420	14,420
6-6-18	-----	1,959	1,959
6-8-6	210	44,408	44,618
6-8-8	-----	1,616	1,616
6-8-12	2,871	1,221	4,092
6-8-16	-----	2,578	2,578
6-12-12	1,330	21	1,351
6-12-18	-----	1,307	1,307
8-8-8	-----	74	74
Miscellaneous**	-----	141	141
Total	5,050	154,358	159,408

* The tonnage reported in this table is also included in Table 1 and Table 3.

** Grades with less than 50 tons included in Miscellaneous. A list of these grades showing tonnage may be secured upon request.

TABLE 5. - Mixed Fertilizer Containing Borax, Sales by Grades and Amount of Borax per 100#, January 1 thru December 31, 1953, Kentucky*

Grade of Mixed Fertilizer	Pounds of Borax per 100#							Total (Tons)
	2 lb. (Tons)	3 lb. (Tons)	4 lb. (Tons)	5 lb. (Tons)	6 lb. (Tons)	7 lb. (Tons)	10 lb. (Tons)	
0-10-20	152	3	---	---	---	---	---	155
0-12-12	165	36	---	289	19	---	---	509
0-14-14	---	201	---	---	---	---	---	201
0-20-20	---	51	84	18	20	---	---	173
2-12-12	---	39	---	---	---	---	---	39
3-12-12	---	187	---	---	---	---	1	188
5-20-20	---	---	---	3	---	---	---	3
6-8-6	---	---	---	---	---	2	---	2
6-8-12	---	---	---	128	---	---	---	128
Total	317	517	84	438	39	2	1	1,398

*The tonnage reported in this table is also included in Table 1 and Table 3.

Regulatory Bulletin 111
TABLE 6. - Average Analysis of Mixed Fertilizer by Years,
1940-1953, Kentucky

Year	Nitrogen	Available Phosphoric Acid	Potash	Total
	(Percent)	(Percent)	(Percent)	(Percent)
1940.....	2.9	9.1	5.0	17.0
1941.....	2.9	9.2	5.1	17.2
1942.....	2.9	9.4	5.4	17.7
1943.....	2.2	11.3	6.4	19.9
1944.....	3.1	10.7	6.0	19.8
1945.....	3.3	10.5	6.3	20.1
1946.....	3.2	10.4	6.1	19.7
1947.....	3.4	10.4	5.7	19.5
1948.....	3.3	10.6	6.0	19.9
1949.....	3.5	10.6	6.4	20.5
1950.....	3.8	10.5	6.9	21.2
1951.....	3.5	10.7	7.8	22.0
1952.....	3.6	10.6	8.7	22.9
1953.....	3.9	10.7	9.6	24.2

Table 7. - Samples Equal to Guaranty in All Respects, and Analyses Within Tolerance, by Companies, 1953

COMPANY	Samples			Analyses of		
	Total number	Equal to guaranty in all respects		nitrogen, phosphoric acid and potash Equal to guaranty or within tolerance**	Total number	Percent*
		Number	Percent*			
Price Chemical Company	56	42	75	152	148	97
Consolidated Chemical Company	12	7	58	34	32	94
A. F. Pringle & Company, Inc.	32	22	69	82	74	90
Ruhm Phosphate & Chemical Company	2	2	---	4	4	---
Schrock Fertilizer Service	6	5	83	6	5	83
O. M. Scott & Sons Company	6	2	33	18	15	83
Sewage Commission of City of Milwaukee	2	0	---	4	2	---
Smith Agricultural Chemical Company	2	2	---	6	6	---
Spencer Chemical Company	6	6	100	6	6	100
Swift & Company, Plant Food Division	38	19	50	111	91	82
Tennessee Chemical Company (See Armour Fertilizer Works)						
Tennessee Coal, Iron & R. R. Company (See U. S. Steel Corporation)	86	60	70	204	178	87
Tennessee Corporation	1	0	---	1	0	---
U. S. Phosphoric Corporation	1	1	---	2	2	---
Tennessee Plant Food Company	3	3	---	6	6	---
Thompson Sales Company						
Thomson Phosphate Company (See International Minerals & Chemical Corp.)						
U. S. Phosphoric Corporation (See Tennessee Corporation)	2	2	---	2	2	---
U. S. Steel Corporation	3	3	---	3	3	---
Tennessee Coal, Iron & R. R. Company						
Valley Counties of Kentucky Cooperative, Inc.	21	13	62	30	22	73

Table 7. - Samples Equal to Guaranty in All Respects, and Analyses Within Tolerance, by Companies, 1953

COMPANY	Samples			nitrogen, phosphoric acid and potash		Analyses of	
	Total number	Equal to guaranty		Total number	Number	Equal to guaranty or within tolerance**	
		in all respects	Percent*			Percent*	Number
Davison Chemical Corporation,							
Columbus Division	6	4	67	18	16	89	
Nashville Division	126	47	37	309	237	77	
New Albany Division	58	38	66	166	153	92	
Duval Sulphur & Potash Company	1	1	---	1	1	---	
Elizabethtown Anhydrous Ammonia Company	2	2	---	2	2	---	
Empire State Chemical Company	1	0	---	1	0	---	
Federal Chemical Company	181	98	54	495	433	87	
C. B. Fox Company	2	2	---	2	2	---	
Hercules Powder Company	4	3	---	4	3	---	
Hutson Chemical Company	8	6	75	22	19	86	
International Minerals & Chemical Corporation							
Thomson Phosphate Company	151	115	76	372	357	96	
Kentucky Fertilizer Works	2	1	---	4	3	---	
Knoxville Fertilizer Company	37	23	62	89	73	82	
Lion Oil Company	169	88	52	439	371	85	
Louisville Fertilizer Company	3	3	---	3	3	---	
(See Armour Fertilizer Works)							
J. A. McCarty Seed Company	1	1	---	1	1	---	
Mid-South Chemical Company	1	1	---	1	1	---	
Mississippi Chemical Corporation	1	1	---	1	1	---	
Missouri Plant Food Company	17	11	65	46	40	87	
Morris Fertilizer Company							
(See Armour Fertilizer Works)							
North American Fertilizer Company	112	28	25	306	230	75	
Ohio Valley Fertilizer Corporation	27	16	59	78	70	90	
Phillips Chemical Company	6	6	100	6	6	100	

Table 7. - Samples Equal to Guaranty in All Respects, and Analyses Within Tolerance, by Companies, 1953

COMPANY	Samples Equal to guaranty in all respects		Analyses of nitrogen, phosphoric acid and potash Equal to guaranty or within tolerance**	
	Total number	Percent*	Total number	Percent*
	Number	Percent*	Number	Percent*
Allied Chemical & Dye Corporation, Nitrogen Division	8	88	8	88
American Agricultural Chemical Company	88	74	232	218
American Cyanamid Company	15	93	16	16
Armour Fertilizer Works	336	60	859	765
Louisville Fertilizer Company	11	45	28	22
Morris Fertilizer Company	6	67	14	13
Tennessee Chemical Company	41	56	100	83
Associated Cooperatives	32	69	38	30
H. J. Baker & Bro.	12	100	12	12
Bartlett & O'Bryan Fertilizer Company	19	42	50	41
Beigameric, Inc.	1	---	1	1
Blue Grass Plant Foods, Inc.	44	66	125	116
Bradley & Baker	2	---	2	2
Buhner Fertilizer Company	35	46	101	82
Bunton Seed Company	1	---	3	3
Burley Belt Plant Food Works	39	44	106	91
Chemical Formulators	10	10	30	19
Chilean Nitrate Sales Corporation	3	---	3	3
Commercial Solvent Corporation	2	---	2	0
Commonwealth Fertilizer Company	33	61	85	74
Consolidated Chemical Company (See Price Chemical Company)	168	88	441	429
Cooperative Fertilizer Service	3	---	3	3
Covington Fertilizer Company	43	74	109	100
Cumberland Chemical Company	19	47	54	44
Darling and Company				

Table 7. - Samples Equal to Guaranty in All Respects, and Analyses Within Tolerance, by Companies, 1953

COMPANY	Samples		Analyses of nitrogen, phosphoric acid and potash	
	Total number	Equal to guaranty in all respects Number Percent*	Total number	Equal to guaranty or within tolerance** Number Percent*
Virginia-Carolina Chemical Corporation	107	65 61	275	244 89
Tom J. Weaver	2	2 ---	2	2 ---
Total	2275	1393 61	5736	5038 88

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

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

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953

Analyses deficient by more than one-fourth of one percent and relative values deficient by more than \$1.00 per ton are underlined. When guaranty for sulfate was not met, the amount of excess muriate is given in a footnote. Analyses for boron are also given in footnotes.

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
ALLIED CHEMICAL AND DYE CORPORATION, Nitrogen Division, New York, N. Y., Hopewell, Virginia				
16% Nitrate of Soda				
2141 Husa Butler, Dyer	16.06	-----	-----	100.4
20.5% Ammonium Nitrate Limestone				
2140 Brock Brothers Grain Company, Maysville	20.44	-----	-----	99.7
2383 Hutson Chemical Company, Murray	20.96	-----	-----	102.2
32.7% Uran Solution				
2852 Haydon Coal and Oil Co., Springfield	<u>31.23</u>	-----	-----	<u>95.5</u>
AMERICAN AGRICULTURAL CHEMICAL COMPANY Cincinnati, Ohio				
0-12-12 Muriate				
2853 J. W. Davidson, Science Hill	-----	12.20	12.36	102.1
2954 J. W. Davidson, Science Hill	-----	12.00	12.59	101.6
2-12-6 Muriate				
2388 Caulk Hardware, Campbellsville	2.01	<u>11.00</u>	6.32	<u>95.4</u>
2639 J. W. Davidson, Science Hill	2.11	<u>11.30</u>	6.23	<u>97.8</u>
2923 Lebanon Carriage and Implement Company, Lebanon	2.08	<u>11.45</u>	6.89	100.1
2953 J. W. Davidson, Science Hill	2.03	<u>11.45</u>	6.13	97.6
3-9-6 Muriate				
2233 Rowland Hardware and Feed Co., Owensboro	3.17	<u>8.70</u>	6.33	100.7
3-12-12 Muriate				
2231 Rowland Hardware and Feed Co., Owensboro	3.00	12.10	11.98	100.4
2232 W. G. Cox, Plummers Landing	2.94	<u>11.65</u>	12.07	98.2
2387 Walters and Thompson, Shelbyville	3.05	12.18	12.36	101.9
2517 Carroll County Farm Bureau Cooperative, Carrollton	3.12	11.90	12.27	101.0
2952 J. W. Davidson, Science Hill	3.02	<u>11.30</u>	12.17	<u>97.4</u>
2963 Walters and Thompson, Shelbyville	3.00	<u>11.50</u>	12.07	<u>97.9</u>
3044 A. T. Hayes and Son Hardware, Glendale	2.89	12.25	11.86	100.1

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
AMERICAN AGRICULTURAL CHEMICAL COMPANY (Cont'd)				
4-12-8 Muriate				
2515 Dairyman's Supply Co., Mayfield	4.04	12.15	8.24	101.5
2638 Lebanon Carriage and Implement Company, Lebanon	3.89	12.10	8.51	100.9
4-12-8 Sulfate				
2230 Henderson & Hardy, Shepherdsville	3.89	11.90	7.99	98.8
2516 Burlington Lumber and Building Supply, Burlington	4.12	12.05	7.95	100.9
5-10-10 Muriate				
2514 L. F. Willmon, Louisa	4.96	10.30	10.23	101.6
5-10-15 Sulfate				
2385 Woodford Spears, Paris	5.01	10.10	15.15	100.8
2386 Anderson Ice Company, Lawrenceburg	4.88	9.90	15.03	98.9
2513 Austin Barnett, Campbellsburg	5.01	10.20	15.09	96.7
2759 Bedford and Tuttle, Winchester	4.82	10.45	14.75	100.2
6-8-6 Sulfate				
2227 W. G. Cox, Plummers Landing	6.11	8.00	5.96	100.7
2228 Henderson and Hardy, Shepherdsville	6.06	8.20	6.19	101.9
2384 Weisenberger Flour Mill, Midway	6.13	8.10	6.09	101.7
2512 Roberts Brothers, Burlington	6.13	8.30	6.36	103.4
6-8-6 Muriate 3, Sulfate 3				
2229 Rowland Hardware and Feed Store, Owensboro	6.08	8.10	6.08	101.3
6-10-4 Muriate				
3147 J. H. Fedders, Inc., Covington	6.07	10.60	4.83	105.3
18% Superphosphate				
2124 Lebanon Carriage and Implement Company, Lebanon	-----	18.90	-----	105.0
2125 Boughman Milling Co., Stanford	-----	19.20	-----	106.7
2234 Woodson Lewis, Greensburg	-----	18.60	-----	103.3
2235 Rowland Hardware and Feed Co., Owensboro	-----	18.10	-----	100.6
2518 Carroll County Farm Bureau Cooperative, Carrollton	-----	18.50	-----	102.8
2924 Lebanon Carriage and Implement Company, Lebanon	-----	19.00	-----	105.6
3045 A. T. Hayes & Son Hardware, Glendale	-----	18.30	-----	101.7
3148 Norman & Robert Taylor, Augusta	-----	18.40	-----	102.2

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
AMERICAN CYANAMID COMPANY				
New York, N. Y.				
20% Calcium Cyanamid				
2979 Southern States Owensboro Cooperative, Owensboro	20.28	-----	-----	101.4
3046 U. C. Jones, Gradyville	20.16	-----	-----	100.8
33.5% Ammonium Nitrate				
3058 Southern States Cooperative, London	33.52	-----	-----	100.1
3210 Brent and Company, Paris	33.36	-----	-----	99.6
3261 Sphar and Company, Winchester	33.72	-----	-----	100.6
ARMOUR FERTILIZER WORKS				
Cincinnati, Ohio, Nashville, Tenn., Jeffersonville, Ind.				
0-12-12 Muriate				
2138 J. F. Berton and Son, Vanceburg	-----	12.00	12.82	102.3
2247 Thompson Wholesale Grocery, Booneville	-----	11.90	12.34	100.4
2395 W. D. Bryant, Williamsburg	-----	11.63	12.62	99.7
2396 Smith Implement Co., Waddy	-----	12.10	12.29	101.4
2534 Mt. Eden Mills, Mt. Eden	-----	12.30	12.18	102.2
2769 C. T. Ashley and Co., Nicholasville	-----	12.30	12.01	101.7
2955 Louisa Supply Co., Louisa	-----	12.30	11.56	100.4
3049 Ideal Hardware, Glasgow	-----	12.15	12.15	101.2
3132 Brown's Hardware and Electric, West Liberty	-----	12.40	13.42	106.2
3190 Louisa Supply Co., Louisa	-----	11.90	12.46	100.7
4039 S. W. Hale & Son Hardware, Greenville	-----	12.15	13.38	104.7
0-14.7 Muriate				
2533 Guy Orndorff Hardware, Adairville	-----	13.60	7.32	98.6
2768 George Patmor and Son, Marion	-----	15.30	8.91	112.9
3063 Big Four Feed & Implement Co., Scottsville	-----	14.10	7.93	103.2
4038 Irvington Truck Lines, Irvington	-----	14.15	8.29	104.5
0-20-20 Muriate				
2137 J. A. Bennett Hardware, Taylorsville	-----	19.50	20.54	99.2
2245 Liberty Hardware Co., Liberty	-----	19.90	19.42	98.7
2246 The Farmers Supply, Whitesburg	-----	19.80	20.22	99.7

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
ARMOUR FERTILIZER WORKS (Cont d)				
0-20-20 Muriate (Cont d)				
2394 W. C. Blair, Russell Springs	-----	<u>19.63</u>	19.92	98.6
2652 Carl Bryant, Whitley City	-----	<u>20.10</u>	20.70	101.5
2859 The T. J. Turley Co., Owensboro	-----	<u>14.30</u>	21.24	83.1
2949 Glasgow Trading Center, Glasgow	-----	<u>19.70</u>	<u>19.44</u>	<u>98.1</u>
3032 T. F. Keene & Sons, Bardstown	-----	<u>19.80</u>	19.98	99.3
3127 Farmers Service Store, Jamestown	-----	<u>19.45</u>	20.02	<u>98.2</u>
3200 W. D. Cunningham, Webbs Cross Roads	-----	<u>19.27</u>	20.48	98.4
4037 S. E. Hale & Son Hardware, Greenville	-----	<u>18.75</u>	21.82	98.9
0-20-20 Muriate with 3% Borax				
2926 M. G. Pruitt, Bowling Green (1)	-----	<u>19.60</u>	<u>18.56</u>	<u>96.3</u>
2-12-6 Muriate				
2243 Central Grocery Co., Morehead	2.16	11.90	6.36	101.8
2244 Joe McBrayer, Morehead	2.22	11.90	7.19	104.6
2393 Tri-State Wholesale, Middlesboro	2.04	12.20	6.78	103.6
2532 Farm Equipment Co., Bedford	2.09	12.20	5.98	101.8
2651 Ideal Hardware Co., Glasgow	1.88	12.20	6.13	100.5
2900 Coffey's Store, Yosemite	2.64	11.78	6.47	105.4
3140 U. L. Rogers & Son, Columbia	1.98	12.25	6.50	102.6
3152 M. G. Pruitt Implement Co., Bowling Green	1.93	12.20	6.21	101.1
3153 Guy Orndorff, Adairville	2.03	<u>11.65</u>	6.52	99.8
3154 George Patmor & Son, Marion	1.99	<u>11.95</u>	6.35	100.6
3155 Felty Produce Co., Beaver Dam	2.15	<u>11.35</u>	6.29	98.4
3198 Cadiz Hardware Co., Cadiz	2.07	11.95	6.52	101.8
3199 Bale Hardware & Implement Co., Horse Cave	1.99	11.95	6.19	100.2
3216 Big Four Feed & Implement Co., Scottsville	2.10	11.80	6.41	100.9
3268 Hatter Hardware Co., Franklin	2.23	<u>11.68</u>	7.08	103.1
4002 Guy Orndorff Hardware, Adairville	2.06	<u>11.00</u>	6.23	<u>95.6</u>
4035 Hinch & Company, Marion	2.28	<u>11.75</u>	6.63	102.7
4036 Mill Springs Supply, Mill Springs	2.14	<u>11.00</u>	6.32	<u>96.5</u>
4089 Farmers Supply Co., White Plains	2.10	<u>11.55</u>	6.73	100.4
3-9-6 Muriate				
2136 Nu-Hardware and Service Station, Island	2.80	9.90	6.07	103.8
2650 Truman Hollingsworth and Co., Tompkinsville	3.19	9.10	6.18	102.9

(1) Boron guaranteed 0.34% — found 0.39%

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
AP.MOUP FERTILIZER WORKS (Cont'd)				
2-12-6 Muriate (Cont'd)				
4089 Farmers Supply Co., White Plains	2.10	<u>11.55</u>	6.73	100.4
3-9-6 Muriate				
2136 Nu-Hardware and Service Station, Island	2.80	9.90	6.07	103.8
2650 Truman Hollingsworth and Co., Tompkinsville	3.19	9.10	6.18	102.9
2767 Owen Ayers, Morgantown	3.03	8.90	6.67	101.7
3-9-6 Sulfate				
2392 Smith Implement Co., Waddy	3.14	9.90	6.75 ^a	109.0
2858 The T. J. Turley Co., Owensboro	3.25	10.60	6.93	114.8
3-12-6 Muriate				
2135 Wells Brothers, Glasgow	2.95	12.20	6.04	101.0
2391 Jeff Rowland, London	3.12	11.80	6.37	100.8
2528 Owen Ayers, Morgantown	3.05	12.10	6.95	103.3
2529 Watkins Brothers, Smithfield	2.97	12.40	5.92	101.6
2530 Pendleton County Mills, Falmouth	3.11	12.00	6.24	101.5
2648 B. C. Norris, McKinney	3.10	12.00	6.05	100.9
2649 Sam L. Isaacs. Gravel Switch	3.14	12.20	6.36	103.0
2765 Ralph Berry, Port Royal	3.37	11.80	6.24	102.4
2766 London Hardware, London	3.25	11.90	6.73	103.3
2982 Felty Produce Co., Beaver Dam	3.17	12.15	6.86	104.3
3062 J. F. Beard Feed Store, Crofton	2.98	11.90	6.01	99.4
3150 J. R. Williams Hardware Co., Beaver Dam	3.03	12.10	6.40	101.8
3151 Felty Produce Co., Beaver Dam	3.05	<u>11.60</u>	5.90	98.1
4034 S. E. Hale & Son Hardware, Greenville	3.04	12.00	6.50	101.6
4087 Farmers Supply Co., White Plains	3.02	<u>11.45</u>	6.63	98.9
4088 Denton Hardware Co., Madisonville	3.13	12.00	6.18	101.5
3-12-6 Sulfate				
2531 Mt. Eden Mills, Mt. Eden	3.15	12.10	6.56 ^b	103.1
3-12-12 Muriate				
2134 Lloyd Yates and Son, Maud	3.02	12.50	12.03	102.4
2241 Brown's Auto Electric, West Liberty	3.26	11.90	13.01	103.5
2242 Central Grocery Co., Morehead	2.93	12.00	12.51	100.7
2390 McWhorter Produce Co., Albany	3.26	12.10	<u>10.45</u>	98.7

a. Excess muriate equivalent to 0.83% potash

b. Excess muriate equivalent to 4.87% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
ARMOUR FERTILIZER WORKS (Cont'd)				
3-12-12 Muriate (Cont'd)				
2526 Trimble County Farm Bureau Cooperative, Milton	3.09	12.00	12.21	101.1
2764 J. A. Bennett Hardware, Taylorville	3.06	12.40	<u>11.62</u>	101.3
2964 J. C. Everett Co., Maysville	3.15	11.85	<u>12.32</u>	101.0
3031 Anderson and Spillman, Danville	2.85	11.80	<u>11.59</u>	97.2
3047 W. C. Blair, Russell Springs	3.13	11.95	<u>12.29</u>	101.3
3048 Farmers Supply Co., Hodgenville	2.88	11.95	<u>11.59</u>	98.1
3060 N. T. Nuckols, Elkton	2.99	11.90	<u>12.06</u>	101.8
3061 Trimble County Farm Bureau Cooperative, Milton	2.88	<u>11.60</u>	11.96	<u>97.3</u>
3189 J. L. O'Bryan, Greenup	2.82	12.05	12.13	99.3
3197 Galloway Seed Co., Mayfield	3.36	11.90	12.13	102.2
3215 Farmers Supply Co., Hodgenville	3.06	11.95	<u>11.70</u>	99.5
4033 Hinch and Co., Marion	3.00	12.15	<u>12.28</u>	101.3
4086 Denton Hardware Co., Madisonville	3.00	12.10	12.68	102.0
3-12-12 Sulfate				
2527 Peoples Ice and Coal Co., Smith Grove	2.91	12.70	<u>11.38^a</u>	101.1
2647 Truman Hollingsworth and Co., Tompkinsville	3.80	12.80	<u>8.20</u>	100.4
2857 Truman Hollingsworth and Co., Tompkinsville	3.57	13.30	<u>11.43^b</u>	108.2
4-12-4 Muriate				
2646 Truman Hollingsworth and Co., Tompkinsville	4.04	12.20	4.87	103.5
2856 Allegre Milling Co., Allegre	3.88	11.80	6.11	102.4
4-12-8 Muriate				
2855 Willoughby Supply Co., Richmond	3.98	13.10	11.23	112.0
3139 U. L. Rogers & Son, Columbia	<u>3.62</u>	12.80	8.75	102.8
3196 Galloway Seed Co., Mayfield	<u>4.22</u>	11.80	8.29	101.2
3214 Slaughters Mercantile Co., Slaughters	3.99	<u>11.65</u>	8.30	99.0
3266 Rose Feed & Seed Store, Ezel	4.01	<u>11.75</u>	8.38	99.8
4-12-8 Sulfate				
2133 Carlisle Mill and Supply Co., Carlisle	4.35	12.00	8.05	102.7
2525 Fred Bishop, Owenton	4.19	11.95	9.20	103.8
3267 Sparta Transfer Co., Sparta	4.00	12.00	9.43 ^c	103.2

a. Excess muriate equivalent to 0.92% potash

b. Excess muriate equivalent to 2.40% potash

c. Excess muriate equivalent to 0.91% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
ARMOUR FERTILIZER WORKS (Cont'd)				
4-16-16 Muriate				
2131 G. M. Haycraft, Leitchfield	3.95	16.00	16.28	100.2
2132 Keith Hardware, Lebanon	3.88	15.60	16.13	98.3
2240 Central Grocery, Morehead	4.18	16.30	16.01	101.9
2644 Wells Brothers, Glasgow	4.06	14.50	13.96	91.9
2645 T. F. Keene & Sons, Bardstown	3.76	16.10	16.62	100.2
3059 Big Four Feed & Implement Co., Scottsville	3.77	15.15	14.16	93.0
3213 Big Four Feed & Implement Co., Scottsville	3.87	15.75	15.00	96.8
4-24-12 Muriate				
2130 T. F. Keene and Sons, Bardstown	3.71	23.90	12.01	98.5
3030 T. F. Keene and Sons, Bardstown	3.80	23.80	12.03	98.6
5-10-5 Muriate				
2763 E. H. Meredith Grocery, Morgantown	4.71	10.40	5.74	101.7
3094 St. Matthews Feed Store, St. Matthews	4.70	10.55	6.58	104.4
5-10-10 Muriate				
2238 Lilly Brothers Seed Co., Hopkinsville	5.11	10.10	9.70	100.5
2389 Prentiss Martin, Lawrenceburg	4.96	12.10	10.46	110.1
2522 M. G. Pruitt Implement Co., Bowling Green	4.95	10.00	9.90	99.4
3187 Louisa Supply Co., Louisa	4.79	10.25	10.25	100.3
3188 Anderson and Spillman, Danville	4.70	10.05	10.50	99.3
3212 Cadiz Hardware Co., Cadiz	4.80	9.95	9.59	97.5
4032 S. E. Hale & Son Hardware, Greenville	4.53	10.05	9.50	96.0
4085 Harrelson Seed Company, Owensboro	4.88	10.00	9.96	99.1
5-10-10 Sulfate				
2128 G. M. Haycraft, Leitchfield	5.16	10.20	10.01	102.0
2129 Jewell and Hayden Co., Bardstown	5.00	10.50	10.12	102.5
2239 Liberty Hardware Co., Liberty	5.51	10.00	10.27	104.0
2523 Cadiz Hardware Co., Cadiz	5.26	10.10	10.35	103.0
2524 Leonard Wells, Brownsville	5.55	9.30	10.40	101.4
3265 Sparta Transfer Co., Sparta	4.92	10.50	10.71	103.3
5-10-16 Sulfate				
2521 H. L. Sparks and Co., Pleasureville	5.01	10.10	15.84	100.1

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
ARMOUR FERTILIZER WORKS (Cont'd)				
5-10-16 Sulfate (Cont'd)				
2642 Coffey Store, Yosemite	4.90	10.70	<u>15.18</u>	100.5
2643 Ideal Hardware Co., Glasgow	5.01	10.30	<u>15.76</u>	100.8
6-8-6 Muriate				
2127 Kuttawa Milling Co., Kuttawa	<u>5.29</u>	8.00	6.66	<u>96.3</u>
2761 Auburn Seed Co., Auburn	<u>5.12</u>	8.60	6.83	<u>98.5</u>
2854 Bale Hardware & Implement Co., Horse Cave	<u>5.32</u>	<u>7.55</u>	6.27	<u>93.3</u>
3005 Owen Ayers, Morgantown	<u>5.37</u>	8.10	6.52	<u>97.1</u>
3211 Slaughters Mercantile Co., Slaughters	5.76	7.95	6.77	99.9
4031 S. E. Hale & Son Hardware, Greenville	5.85	8.00	6.91	101.2
6-8-6 Sulfate				
2520 Sparta Transfer Co., Sparta	5.85	8.05	6.15	99.5
2762 Willoughby Supply Co., Richmond	6.12	8.00	6.35	101.8
6-18-12 Muriate				
2237 Butterworth Seed Co., Mayfield	5.95	17.95	12.50	100.4
10-6-4 Muriate				
2641 Allensville Grain Co., Allensville	<u>8.82</u>	6.50	4.08	<u>94.6</u>
10-10-10 Muriate				
2519 Peoples Ice and Coal Co., Smith Grove	<u>7.04</u>	11.60	<u>9.18</u>	<u>89.2</u>
2925 Allens Coal Service, Brandenburg	<u>9.84</u>	10.05	<u>10.54</u>	<u>100.3</u>
3149 J. C. Everett Co., Maysville	<u>9.08</u>	10.10	10.55	<u>96.6</u>
12-12-12 Muriate				
2236 Harrolson Seed Co., Owensboro	11.76	12.10	<u>11.68</u>	98.8
20% Superphosphate				
2248 Auburn Seed Co., Auburn	-----	20.20	-----	101.0
2535 Farmers Supply Co., Eminence	-----	<u>18.90</u>	-----	<u>94.5</u>
2901 B. C. Norris, McKinney	-----	<u>20.10</u>	-----	<u>100.5</u>
2902 Coffey's Store, Yosemite	-----	20.30	-----	101.5
2983 Felty Produce Co., Beaver Dam	-----	20.55	-----	102.8
3006 Owen Ayers, Morgantown	-----	20.60	-----	103.0
3050 G. M. Haycraft & Son, Leitchfield	-----	20.20	-----	101.0
3156 N. S. Dudley & Son, Flemingsburg	-----	20.30	-----	101.5
3157 M. G. Pruitt Implement Co., Bowling Green	-----	20.30	-----	101.5

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
ARMOUR FERTILIZER WORKS (Cont'd)				
20% Superphosphate (Cont'd)				
3191 Myers & Clark Co., Inc., Ashland	-----	20.35	-----	101.8
3217 Cadiz Hardware Co., Cadiz	-----	20.00	-----	100.0
3269 Hatter Hardware Co., Franklin	-----	20.10	-----	100.5
3270 Rose Feed & Seed Store, Ezel	-----	20.45	-----	102.3
4040 S. E. Hale & Son Hardware, Greenville	-----	20.00	-----	100.0
4041 Elburn Keith, Monticello	-----	20.00	-----	100.0
4042 Irvington Truck Lines, Irvington	-----	20.60	-----	103.0
4091 Carmargo Farmers Supply, Mt. Sterling	-----	20.00	-----	100.0
4092 Farmers Supply Co., White Plains	-----	19.90	-----	99.5
48% Sulfate of Potash				
2249 Frank Hinton, Plummers Landing	-----	-----	50.04	104.2
2399 Brent and Company, Paris	-----	-----	50.40	105.0
50% Sulfate of Potash				
2536 Peoples Ice and Coal Co., Smith Grove	-----	-----	55.16 ^a	104.6
2537 Cadiz Hardware Co., Cadiz	-----	-----	51.04	102.1
2653 Alvin McCord, Hopkinsville	-----	-----	52.84	105.7
50% Muriate of Potash				
2139 J. A. Bennett Hardware, Taylorsville	-----	-----	49.88	99.8
2397 Brent and Company, Paris	-----	-----	50.32	100.6
2398 Farmers Union Supply, Versailles	-----	-----	51.72	103.4
LOUISVILLE FERTILIZER COMPANY				
Division of Armour Fertilizer Works Jeffersonville, Ind., Nashville, Tenn.				
0-12-12 Muriate				
2188 H. D. Jones, Glasgow	-----	12.00	12.41	101.2

a. Excess muriate equivalent to 12.30% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
LOUISVILLE FERTILIZER COMPANY (Cont'd)				
0-14-7 Muriate 4070 Lilly Brothers Feed Store, Hopkinsville	-----	14.30	7.45	103.0
0-20-20 Muriate 2187 Tichenor Brothers, Calhoun	-----	<u>19.50</u>	<u>19.46</u>	<u>97.4</u>
2-12-6 Muriate 2186 H. D. Jones, Glasgow	2.03	12.10	6.36	101.8
3024 H. D. Jones, Glasgow	1.96	12.10	5.93	100.0
3-9-6 Muriate 2721 Lilly Brothers Seed Company, Hopkinsville	3.04	8.90	6.52	101.3
3-12-12 Muriate 2185 Tichenor Brothers, Calhoun	2.85	12.30	<u>11.73</u>	99.7
4-12-8 Sulfate 2184 H. D. Jones, Glasgow	4.05	12.20	8.13	101.5
4-16-16 Muriate 2183 H. D. Jones, Glasgow	4.02	<u>15.55</u>	16.06	98.7
10-6-4 Muriate 2318 Lilly Brothers Seed Co., Hopkinsville	<u>9.68</u>	6.60	4.50	101.6
20% Superphosphate 2319 Lilly Brothers Seed Co., Hopkinsville	-----	<u>19.55</u>	-----	97.8
MORRIS FERTILIZER COMPANY Division of Armour Fertilizer Works, Nashville, Tenn.				
2-12-6 Muriate 2321 Alvin McCord, Hopkinsville	2.37	12.00	6.41	104.2
2604 Young Lumber Co., Beaver Dam	2.14	12.20	5.93	102.1
6-8-6 Sulfate 2320 Alvin McCord, Hopkinsville	5.76	8.00	6.53 ^a	99.5
20% Superphosphate 2322 Alvin McCord, Hopkinsville	-----	20.90	-----	104.5
2605 Young Lumber Co., Beaver Dam	-----	20.00	-----	100.0

a. Excess muriate equivalent to 0.66% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
TENNESSEE CHEMICAL COMPANY Division of Armour Fertilizer Works Nashville, Tenn.				
0-12-12 Muriate				
2747 N. T. Nuckols, Elkton	-----	12.50	13.32	106.4
4075 Quality Grocery & Hardware Co., Greenville	-----	12.60	<u>11.47</u>	101.9
0-14-7 Muriate				
2746 M. G. Williams Implement Co., Hopkinsville	-----	14.10	7.70	102.6
0-14-14 Muriate				
2620 A. L. Carter, Philpot	-----	14.00	14.69	101.6
0-20-20 Muriate				
2362 Harrolson Seed Co., Owensboro	-----	19.90	20.24	100.1
3182 Harrolson Seed Co., Owensboro	-----	<u>19.20</u>	20.59	98.3
2-12-6 Muriate				
2361 M. G. Williams Implement Co., Hopkinsville	2.14	12.10	6.35	102.7
3091 N. T. Nuckols, Elkton	2.01	<u>11.45</u>	6.04	97.1
3-9-6 Muriate				
2206 Harrolson Seed Co., Owensboro	3.42	8.85	6.31	103.5
3-12-6 Muriate				
2895 N. T. Nuckols, Elkton	3.06	12.00	6.24	101.1
3125 W. H. Arnold & Co., Madisonville	2.98	12.00	6.64	101.5
3-12-12 Muriate				
2360 Harrolson Seed Co., Owensboro	2.97	12.30	11.93	101.0
3124 Harrolson Seed Co., Owensboro	3.10	<u>11.65</u>	12.00	99.1
3208 Harrolson Seed Co., Owensboro	3.24	11.85	12.50	102.0
4074 Quality Grocery & Hardware Co., Greenville	2.94	12.00	<u>11.72</u>	99.0
4-12-4 Muriate				
2058 Harrolson Seed Co., Owensboro	3.94	12.00	4.40	100.6
4-12-8 Muriate				
2745 N. T. Nuckols, Elkton	3.91	11.75	8.13	98.5
3090 N. T. Nuckols, Elkton	3.96	12.05	8.61	101.3
6-8-6 Muriate				
2619 Harrolson Seed Co., Owensboro	5.99	8.20	6.38	101.9
3181 Harrolson Seed Co., Owensboro	<u>5.71</u>	8.80	6.63	103.4

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ----- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
TENNESSEE CHEMICAL COMPANY (Cont'd)				
6-8-6 Sulfate 2358 Harrolson Seed Co., Owensboro	<u>5.73</u>	8.60	6.52	102.3
8-8-8 Muriate 3123 Harrolson Seed Co., Owensboro	7.91	8.25	7.90	100.3
10-6-4 Muriate 2357 Harrolson Seed Co., Owensboro	<u>8.06</u>	6.90	4.74	<u>92.9</u>
3180 Harrolson Seed Co., Owensboro	<u>9.90</u>	8.50	5.85	<u>114.2</u>
10-8-6 Muriate 2356 Harrolson Seed Co., Owensboro	<u>9.22</u>	8.10	6.50	<u>96.8</u>
10-10-10 Muriate 2894 N. T. Nuckols, Elkton	<u>7.64</u>	10.60	9.89	<u>90.0</u>
20% Superphosphate 2363 M. G. Williams, Hopkinsville	-----	20.00	-----	100.0
2748 N. T. Nuckols, Elkton	-----	20.95	-----	104.7
3183 Harrolson Seed Co., Owensboro	-----	20.30	-----	101.5
4076 Quality Grocery & Hardware Co., Greenville	-----	20.20	-----	101.0
45% Superphosphate 3255 Brooks Brothers, Slaughters	-----	<u>44.30</u>	-----	98.4
60% Muriate of Potash 3126 Harrolson Seed Co., Owensboro	-----	-----	59.92	99.9
ASSOCIATED COOPERATIVES, INC. Sheffield, Alabama				
33.5% Ammonium Nitrate 2401 Graves County Soil Association, Mayfield	33.32	-----	-----	99.5
2860 Hadden Farm and Home Service, Elkton	33.56	-----	-----	100.2
2965 Brooksville Farm Supply, Brooksville	<u>33.04</u>	-----	-----	<u>98.6</u>
3159 Land O'Nan Warehouse, Sturgis	<u>33.12</u>	-----	-----	<u>98.9</u>
3218 Carmargo Farmers Supply, Carmargo	<u>33.20</u>	-----	-----	99.1
46% Superphosphate 2984 Southern States Cooperative, Owensboro	-----	48.00	-----	104.3
3008 Bridwell's Feed Mill, Mt. Washington	-----	46.60	-----	101.3

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
ASSOCIATED COOPERATIVES, INC. (Cont'd)				
47% Superphosphate 3007 Southern States Cooperative, Campbellsville	-----	47.50	-----	101.1
48% Superphosphate 2654 Southern States Cooperative, Somerset	-----	48.30	-----	100.6
49% Superphosphate 2539 Harris Feed Co., Franklin	-----	<u>48.35</u>	-----	98.7
61% Calcium Metaphosphate 3158 Southern States Crittenden Cooperative, Marion	-----	61.20	-----	100.3
62% Calcium Metaphosphate 2538 Southern States Cooperative, Bowling Green	-----	62.00	-----	100.0
2927 Morrison & Wallace, Hodgenville	-----	62.80	-----	101.3
2985 Southern States Cooperative, Owensboro	-----	<u>61.40</u>	-----	99.0
H. J. BAKER AND BROTHERS New York, N. Y.				
20.5% Ammonium Nitrate Limestone 2655 Leitchfield Transfer Co., Leitchfield	20.68	-----	-----	100.9
26% Ammonium Sulfate Nitrate 2402 Jeff Rowland, London	26.20	-----	-----	100.8
2403 U. L. Rogers & Sons, Columbia	26.12	-----	-----	100.5
BARTLETT AND O'BRYAN FERTILIZER COMPANY Owensboro, Kentucky				
0-20-20 Muriate 2254 Bartlett & O'Bryan Fertilizer Co., Owensboro	-----	<u>19.60</u>	20.40	99.3
3-9-18 Muriate 2862 Bartlett & O'Bryan Fertilizer Co., Owensboro	3.44	<u>8.70</u>	<u>17.14</u>	99.7
2863 Young Brothers Feed Store, Lewisport	3.16	9.20	18.82	103.8

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 --- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
BARTLETT AND O'BRYAN FERTILIZER COMPANY (Cont'd)				
3-12-12 Muriate				
2253 Bartlett & O'Bryan Fertilizer Co., Owensboro	3.09	<u>11.65</u>	12.36	99.8
2986 R. H. Johnson, Beaver Dam	2.99	<u>11.95</u>	13.29	102.6
4096 Bartlett & O'Bryan Fertilizer Co., Owensboro	3.31	13.00	13.47	109.7
4-8-12 Muriate				
2252 Bartlett & O'Bryan Fertilizer Co., Owensboro	4.33	8.00	12.68	104.2
4-16-16 Muriate				
4095 Bartlett & O'Bryan Fertilizer Co., Owensboro	4.29	15.90	17.66	103.9
5-20-20 Muriate				
4094 Bartlett & O'Bryan Fertilizer Co., Owensboro	5.22	<u>19.35</u>	21.32	100.9
6-8-6 Muriate				
2250 Bartlett & O'Bryan Fertilizer Co., Owensboro	5.82	7.90	6.69	99.9
2540 J. R. Shively, Whitesville	6.08	8.00	7.04	103.2
2541 R. H. Johnson, Beaver Dam	<u>5.00</u>	8.80	11.13	109.3
6-8-6 Sulfate				
2251 Bartlett & O'Bryan Fertilizer Co., Owensboro	6.06	8.30	6.96	104.4
2542 J. R. Shively, Whitesville	6.11	8.20	6.63	103.4
2861 Taylor's Grocery, Utica	6.23	<u>7.50</u>	7.15	102.1
8-8-8 Muriate				
4093 Bartlett & O'Bryan Fertilizer Co., Owensboro	7.92	8.45	8.98	103.4
20% Superphosphate				
2255 Bartlett & O'Bryan Fertilizer Co., Owensboro	-----	<u>14.80</u>	-----	<u>74.0</u>
4097 Leonard Nalley, Utica	-----	<u>19.70</u>	-----	<u>98.5</u>
50% Sulfate of Potash				
2256 Bartlett & O'Bryan Fertilizer Co., Owensboro	-----	-----	49.76	99.5

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
BELGAMERIC, INC. New York, N. Y.				
20.5% Ammonium Nitrate Limestone 2656 Brown Supply Center, Vine Grove	20.52	-----	-----	100.1
BLUEGRASS PLANT FOODS, INC. Cynthiana, Kentucky				
0-12-12 Muriate 3010 Caulk Hardware Co., Campbellsville	-----	12.10	13.11	103.6
0-20-20 Muriate 2144 Stagg Brothers, Vanceburg	-----	19.60	20.24	99.1
2258 Brock Noble, Jackson	-----	19.10	20.36	97.6
3133 The Farmers Supply, Whitesburg	-----	19.05	21.48	99.3
3-12-12 Muriate 3009 Caulk Hardware Co., Campbellsville	3.29	11.80	12.61	102.4
3034 Ice's Produce, Bardstown	3.19	12.15	12.88	103.9
4-8-12 Sulfate 2143 Stagg Brothers, Vanceburg	4.17	8.20	12.49	103.5
2405 Clinton Duvall, Stamping Ground	4.19	8.00	12.28	102.1
2406 Buntain Feed & Seed Co., Alton	4.14	8.05	12.74	103.2
6-8-6 Muriate 2864 Walker Supply Co., Richmond	6.14	7.90	6.52	101.8
6-8-6 Sulfate 2257 Walker Supply Co., Richmond	6.07	8.10	6.33	104.4
3141 Caulk Hardware Co., Campbellsville	5.86	7.50	9.26	104.6
6-8-12 Muriate ³ , Sulfate 9 2404 J. W. Palmer, Stamping Ground	6.08	8.05	12.21	101.2
6-12-18 Sulfate 2142 J. R. Prather, Maysville	6.02	11.10	18.00	97.1
2657 J. H. Myers, Ewing	5.83	12.10	18.04	99.6
8-8-8 Muriate 2977 Johnson Brothers, Lexington	8.19	8.10	8.33	102.3
2978 Johnson Brothers, Lexington	8.15	8.10	7.80	100.9
10-6-4 Muriate 3033 Ice's Produce, Bardstown	9.38	6.45	4.81	99.7

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
BRADLEY AND BAKER New York, N. Y.				
20. 5% Ammonium Nitrate Limestone 2259 Carl J. Hagneau, Cloverport	20.84	-----	-----	101.6
BUHNER FERTILIZER COMPANY Seymour, Ind.				
0-12-12 Muriate 2775 Caneyville Roller Mills, Caneyville	-----	<u>11.30</u>	12.51	97.5
2-12-6 Muriate 2260 Paul Brites Mills, Hardinsburg 3065 J. L. Wilson, Canmer	2.00 2.19	12.00 <u>10.98</u>	6.27 7.20	100.8 99.2
3-9-6 Muriate 2774 Farmers Supply Co., Shelbyville	2.91	9.70	7.01	106.5
3-12-12 Muriate 2660 C. W. Conn, Clarkson 2661 Floore's Feed Store, Jeffersontown 2866 Nall Feed Store, Vine Grove 3011 Hamock's Feed Store, Middletown 3035 Springfield Feed and Grain Co., Springfield	2.88 3.04 2.96 3.06 3.11	12.00 12.00 <u>11.60</u> <u>12.70</u> 12.05	12.98 12.48 12.07 12.41 12.34	101.4 101.3 98.1 104.4 101.7
3-12-12 Sulfate 2408 J. W. Dawson, Lawrenceburg 2773 J. W. Dawson, Lawrenceburg	2.90 2.89	<u>11.60</u> <u>11.30</u>	11.91 11.77	<u>97.4</u> <u>95.6</u>
4-12-8 Muriate 2659 Nall Feed Store, Vine Grove 3095 Buhner and Co., Louisville	4.02 4.00	12.30 11.90	9.20 9.37	104.2 102.6
4-12-8 Sulfate 2543 Pleasureville Lumber Co., Pleasureville	<u>3.58</u>	12.50	9.04 ^a	101.8
6-8-6 Sulfate 2145 Rizer Brothers, Bardstown 2407 J. W. Dawson, Lawrenceburg 2658 C. W. Conn, Clarkson 2772 Caneyville Roller Mills, Caneyville	6.16 5.88 <u>5.60</u> 6.48	7.90 <u>7.25</u> 7.90 <u>7.15</u>	6.36 7.04 ^b 6.96 ^c 6.08	101.6 98.0 98.9 99.6

a. Excess muriate equivalent to 0.38% potash

b. Excess muriate equivalent to 0.51% potash

c. Excess muriate equivalent to 0.59% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
BUHNER FERTILIZER COMPANY (Cont'd)				
8-8-8 Muriate				
2865 Nall Feed Store, Vine Grove	<u>7.62</u>	8.80	9.17	103.4
20% Superphosphate				
4043 Nall Feed Store, Vine Grove	-----	20.70	-----	103.5
BUNTON SEED COMPANY				
Louisville, Ky.				
4-12-4 Muriate				
3012 Bunton Seed Co., Louisville	4.33	12.50	5.88	109.7
BURLEY BELT PLANT FOOD WORKS				
Lexington, Ky.				
0-12-12 Muriate				
2868 Bradie Teater, Nicholasville	-----	<u>11.55</u>	12.48	98.8
0-20-20 Muriate				
3036 Brack Noble, Jackson	-----	19.78	21.06	101.0
3271 Brack Noble, Jackson	-----	20.30	20.10	101.2
3-9-6 Muriate				
2263 Brack Noble, Jackson	3.11	8.80	6.84	102.3
2264 Orus White, Richmond	2.98	<u>8.35</u>	6.50	97.4
2411 Gentry McCauley, Versailles	3.28	<u>8.90</u>	6.26	102.7
2546 L. F. Wellmon, Louisa	3.08	<u>8.65</u>	6.14	99.0
2547 Charles and Willard Monn, Wellington	3.14	8.90	5.93	100.4
2777 Hardy Brothers, Rice Station	3.12	8.80	6.03	100.0
3-9-6 Sulfate				
2265 Armond Lewis, Pomp	3.01	<u>8.30</u>	6.55 ^a	97.5
4-8-12 Sulfate				
2545 L. F. Wellmon, Louisa	3.75	7.90	12.65	99.2
4-10-10 Muriate				
2410 Gentry McCauley, Versailles	4.02	10.00	10.13	100.4
4-12-8 Sulfate				
2262 Armond Lewis, Pomp	4.14	11.75	8.40	100.7
2544 Southern States Owenton Cooperative, Owenton	4.09	<u>11.50</u>	8.23	98.9
2662 Dorvin Henry, Mt. Sterling	4.17	<u>11.60</u>	8.29	100.0

a. All potash from muriate

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
BURLEY BELT PLANT FOOD WORKS (Cont'd)				
5-10-16 Sulfate				
2146 Southern States Maysville Cooperative, Maysville	5.04	10.20	16.30	101.6
2409 Gentry McCauley, Versailles	5.04	10.20	16.03	101.1
6-8-6 Sulfate				
2261 Orus White, Richmond	6.00	7.65	6.58	99.7
2867 R. C. Strader, Chilesburg	6.02	8.00	6.23	100.7
6-8-12 Sulfate				
2776 Richmond Farm Service, Richmond	5.98	8.30	11.81	100.8
20% Superphosphate				
2266 Armond Lewis, Pomp	-----	20.50	-----	102.5
60% Muriate of Potash				
3160 Farmers Union Supply Co., Versailles	-----	-----	60.12	100.2
3272 Brack Noble, Jackson	-----	-----	60.20	100.3
CHEMICAL FORMULATORS				
North Charleston, West Virginia				
5-10-10 Muriate				
2549 S. M. Roberson, South Shore	4.30	10.80	10.51	100.0
2550 Farmers Supply, Cattlettsburg	4.28	11.30	10.81	102.8
CHILEAN NITRATE SALES CORPORATION				
New York, N. Y.				
16% Nitrate of Soda				
2412 L. J. Thurwoud, Murray	16.24	-----	-----	101.5
COMMERCIAL SOLVENTS CORPORATION				
New York, N. Y.				
33.5% Ammonium Nitrate				
3201 Stinson Farm Supply, Horse Cave	32.92	-----	-----	98.3
3273 Hatter Hardware Co., Franklin	32.86	-----	-----	98.1
COMMONWEALTH FERTILIZER COMPANY				
Russellville, Ky.				
0-12-12 Muriate				
3163 Commonwealth Fertilizer Co., Russellville	-----	12.00	12.64	101.8

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
COMMONWEALTH FERTILIZER COMPANY (Cont'd)				
0-14-14 Muriate				
4003 Commonwealth Fertilizer Co., Russellville	-----	14.35	14.60	103.1
0-20-20 Muriate				
2552 Robert Pence, Philpot	-----	20.30	21.54	103.6
2781 Commonwealth Fertilizer Co., Russellville	-----	20.60	<u>19.40</u>	101.0
2988 Commonwealth Fertilizer Co., Russellville	-----	20.15	20.06	100.6
2-12-6 Muriate				
2780 Farmers Supply Co., Morgantown	2.19	12.05	6.15	102.3
2872 Farmers Supply Co., Morgantown	2.29	11.90	6.41	103.0
2873 John K. Wallace, Cromwell	2.48	11.75	6.55	104.1
3-9-6 Muriate				
2779 Jewell Jennings, Russellville	3.01	9.10	6.52	102.3
2928 Commonwealth Fertilizer Co., Russellville	3.23	9.00	6.50	103.6
4045 M. G. Williams Implement Co., Hopkinsville	3.16	9.00	6.49	102.9
3-12-6 Muriate				
2871 Farmers Feed Store, Central City	3.03	<u>11.35</u>	6.33	97.7
4-12-8 Muriate				
2551 McKnights Farm Store, Dawson Springs	4.11	12.00	8.46	101.8
2664 M. G. Williams Implement Co., Hopkinsville	4.00	<u>11.65</u>	7.85	98.1
2870 M. G. Williams Implement Co., Hopkinsville	3.95	12.30	8.64	102.5
2987 Commonwealth Fertilizer Co., Russellville	4.22	<u>11.70</u>	8.67	101.6
3128 Farmer's Supply Co., Morgantown	4.10	<u>11.45</u>	8.79	100.0
4044 M. G. Williams Implement Co., Hopkinsville	4.01	11.80	8.72	100.8
4-12-8 Sulfate				
2778 Commonwealth Fertilizer Co., Russellville	4.09	<u>11.10</u>	7.87 ^a	<u>96.2</u>
6-8-6 Muriate				
2267 Edward C. Bryant Co., Rumsey	6.14	8.20	6.50	103.3

a. Excess muriate equivalent to 0.98% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
COMMONWEALTH FERTILIZER COMPANY (Cont'd)				
6-8-6 Sulfate				
2268 Edward C. Bryant Co., Rumsey	5.58	8.15	6.36	98.5
2663 M. G. Williams Implement Co., Hopkinsville	5.99	8.60	6.42	104.0
48% Sulfate of Potash				
2553 Robert Pence, Philpot	-----	-----	50.44	105.1
60% Muriate of Potash				
2782 Farmers Supply Co., Morgantown	-----	-----	61.48	102.5
CONSOLIDATED CHEMICAL COMPANY (See Price Chemical Company)				
COOPERATIVE FERTILIZER SERVICE Baltimore, Md., Louisville, Ky., Winchester, Ky.				
0-14-14 Muriate				
2273 Ralph Hoveous, Hustonville	-----	14.35	14.71	105.7
2274 Hancock County Farm Supply, Hawesville	-----	14.40	14.61	103.4
2788 Stanton Farmers Supply, Stanton	-----	14.10	14.54	101.8
2906 Southern States Leitchfield Cooperative, Leitchfield	-----	13.80	14.89	101.2
2957 Southern States Cooperative, Somerset	-----	13.90	15.23	102.4
3016 Stinson Farmer's Supply, Horse Cave	-----	14.40	15.73	106.0
3068 Carroll County Farm Bureau Cooperative, Carrollton	-----	14.30	13.95	101.3
3219 Southern States Louisville Cooperative, Louisville	-----	14.10	15.34	103.7
0-14-14 Muriate with 3% Borax				
2905 Ralph Hovious, Hustonville (1)	-----	13.70	14.69	100.2
2991 Southern States Cooperative, Hopkinsville (2)	-----	13.65	15.12	101.0
3037 Southern States Danville Cooperative, Danville (3)	-----	13.80	14.81	101.0
2-12-6 Muriate				
2930 Southern States Lebanon Cooperative, Lebanon	2.18	12.00	6.36	102.5
3014 Southern States Cooperative, Glasgow	2.04	12.10	7.40	104.8

(1) Boron guaranteed 0.34% — found 0.28%

(2) Boron guaranteed 0.34% — found 0.27%

(3) Boron guaranteed 0.34% — found 0.36%

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
COOPERATIVE FERTILIZER SERVICE (Cont'd)				
2-12-6 Muriate (Cont'd)				
3015 Shepherdsville Feed Mills, Shepherdsville	2.03	12.30	6.94	104.5
3193 Southern States Lebanon Cooperative, Lebanon	2.27	12.00	7.70	107.0
3-12-6 Muriate				
2152 Morgan Farm Store, West Liberty	3.24	11.90	6.16	101.7
3-12-12 Muriate				
2271 Southern States Louisville Cooperative, Louisville	3.07	12.20	12.45	101.7
2272 Southern States Cooperative, Hopkinsville	3.14	12.20	12.47	102.4
2555 Trimble County Farm Bureau Cooperative, Milton	3.23	12.70	12.59	106.0
2556 R. R. Boggs, Blaine	3.15	12.50	11.93	103.1
2557 Ward's Self Service Feed and Seed, Centertown	3.04	12.40	12.17	102.4
2666 Stinson Farm Service, Horse Cave	3.09	12.00	12.06	100.7
2667 Muse's General Store, Rineyville	3.01	12.30	12.15	101.7
2787 Rockcastle Farm Service, Mt. Vernon	3.06	12.10	12.41	101.8
2904 Harrison Brothers Farm Supply, Berea	2.95	<u>11.70</u>	12.13	98.6
2950 Farmers Service Store, Tompkinsville	3.03	12.40	12.23	102.5
2989 Southern States Simpson Cooperative, Franklin	3.07	12.20	13.02	103.6
2990 Southern States Cooperative, Hopkinsville	3.01	11.95	12.52	101.0
3013 Southern States Cooperative, Louisville	3.06	12.20	12.86	103.3
3066 Carroll County Farm Bureau Cooperative, Carrollton	2.99	12.00	<u>11.68</u>	99.2
3067 Southern States Shelbyville Cooperative, Shelbyville	2.94	12.50	12.04	101.9
3096 Southern States Lagrange Cooperative, Lagrange	3.02	12.25	12.41	102.2
3097 Southern States Louisville Cooperative, Louisville	2.96	12.25	12.44	101.8
3102 Cooperative Fertilizer Service, Winchester	2.97	11.90	12.88	101.3
3134 Farmers Supply Co., Paintsville	3.01	11.90	12.88	101.6
3192 Southern States Lebanon Cooperative, Lebanon	3.05	12.00	12.97	102.5

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
COOPERATIVE FERTILIZER SERVICE (Cont'd)				
4-8-12 Sulfate				
2415 Southern States Cooperative, Campbellsville	4.09	8.05	12.17	101.4
3101 Richmond Farm Service, Richmond	3.99	8.40	12.48	103.1
3277 Carroll County Farm Bureau Cooperative, Carrollton	3.94	8.20	12.47	101.7
3278 Henry County Farm & Home Service, Eminence	3.85	8.30	12.30	101.1
4-12-8 Muriate				
2150 Meade Farm Service, Brandenburg	4.16	12.10	8.30	102.2
2151 Southern States Cooperative, Bardstown	4.07	12.70	8.18	104.1
2270 Morrisson and Wallace, Hodgenville	4.17	12.15	8.23	102.4
2414 Farm and Home Store, Prestonsburg	4.14	12.20	7.90	101.6
2554 Southern States Owenton Cooperative, Owenton	4.21	12.00	9.35	104.5
2665 Stinson Farm Supply, Horse Cave	4.08	12.55	7.98	103.0
2785 Anderson County Farm Service, Lawrenceburg	4.03	12.40	8.00	102.0
2786 Hiatt and Parsons, Wildie	4.06	12.70	8.21	104.1
2869 Southern States Hopkinsville Cooperative, Hopkinsville	4.19	11.75	7.94	100.0
2929 Southern States Bardstown Cooperative, Bardstown	3.96	11.85	8.63	100.5
2966 Anderson County Farm Service, Lawrenceburg	3.95	11.80	8.20	99.2
3100 Cooperative Fertilizer Service, Winchester	4.16	11.25	8.63	99.1
3161 Canary Supply Co., Hartford	3.78	12.05	8.88	100.7
4046 Major's Poultry House, Central City	3.82	12.60	8.71	103.1
5-10-10 Muriate				
2149 Southern States Bardstown Cooperative, Bardstown	5.30	10.40	10.44	104.8
2784 Stanton Farmers Supply, Stanton	5.39	10.20	11.25	106.3
5-10-15 Sulfate				
3274 Henry County Farm & Home Service, Eminence	4.99	10.50	15.36	102.6
3275 Carroll County Farm Bureau Cooperative, Carrollton	5.09	10.35	15.32	102.6

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
COOPERATIVE FERTILIZER SERVICE (Cont'd)				
5-10-15 Sulfate (Cont'd)				
3276 Farmers Service Store, Tompkinsville	5.10	10.40	15.32	102.8
4099 Richmond Farm Service, Richmond	4.97	10.35	15.31	101.8
6-8-6 Sulfate				
2148 Orville Strange, Chaplin	6.28	8.00	6.22	102.6
2413 Clintons Farmers Supply, Albany	6.12	8.05	6.76	103.0
2783 C. T. Ashley Co., Nicholasville	6.18	8.30	6.98	105.3
4098 Richmond Farm Service, Richmond	5.87	8.60	7.45 ^a	105.6
48.6% Sulfate of Potash				
2789 Magoffin Farmers Supply, Salyersville	-----	-----	49.88	102.6
50.5% Sulfate of Potash				
3220 Southern States Cooperative, Glasgow	-----	-----	51.12	101.2
3279 Southern States Shelbyville Cooperative, Shelbyville	-----	-----	50.72	100.4
60% Muriate of Potash				
2153 Southern States Cooperative, Leitchfield	-----	-----	60.20	100.3
2668 Hadden Farm and Home Service, Elkton	-----	-----	61.60	102.7
2931 Washington Farm Service, Springfield	-----	-----	60.16	100.3
2932 Morrison and Wallace, Hodgenville	-----	-----	61.32	102.2
2967 Southern States Cooperative, Flemingsburg	-----	-----	<u>58.96</u>	98.3
CUMBERLAND CHEMICAL COMPANY Hopkinsville, Kentucky				
0-12-12 Muriate				
4049 Lander Hardware Co., Lafayette	-----	12.50	12.91	105.3
0-12-12 Muriate with 5% Borax				
2994 Cumberland Chemical Co., Hopkinsville (1)	-----	12.30	12.34	102.6

(1) Boron guaranteed 0.57% — found 0.53%
a. Excess muriate equivalent to 0.44% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
CUMBERLAND CHEMICAL COMPANY (Cont'd)				
2-12-6 Muriate				
2677 Smith and Reynolds Co., Slaughters	2.26	12.05	6.26	103.2
3070 Nelson's Feed Store, Marion	2.07	12.10	<u>5.68</u>	100.2
3071 Robinson Implement and Motor Co., Princeton	2.18	11.85	6.04	100.8
3105 Fox Hardware Co., Madisonville	2.11	11.90	5.79	99.8
3222 Trigg County Trading Co., Cadiz	2.01	12.10	7.16	103.8
3-12-6 Muriate				
2281 Cumberland Chemical Co., Hopkinsville	3.21	12.00	6.37	102.6
4048 Lander Hardware Co., Lafayette	2.92	12.40	6.05	101.6
3-12-12 Muriate				
2280 Cumberland Chemical Co., Hopkinsville	2.95	12.10	12.28	100.7
2676 Fox Hardware Co., Madisonville	3.17	12.15	13.02	104.1
2993 S. N. Gerfuster, Crayne	3.01	12.40	11.96	101.8
3104 Fox Hardware Co., Madisonville	2.94	12.00	12.62	101.0
4-12-8 Muriate				
2278 Cumberland Chemical Co., Hopkinsville	4.22	11.85	8.55	102.1
2673 Lander Hardware Co., Lafayette	4.25	12.05	8.77	103.7
2674 Smith & Reynolds Co., Slaughters	4.08	12.35	8.66	103.6
3069 T. R. Ackridge, Fredonia	4.13	11.90	9.28	103.3
3103 Fox Hardware Co., Madisonville	3.81	12.20	9.04	102.0
3162 Ratliff Hardware Co., Princeton	4.05	11.90	8.98	102.1
3221 Smith & Reynolds Co., Slaughters	4.02	12.00	8.46	101.2
4047 Cumberland Chemical Co., Hopkinsville	4.03	12.00	8.85	102.1
4-12-8 Sulfate				
2279 Cumberland Chemical Co., Hopkinsville	4.52	12.10	<u>6.27</u>	100.1
2675 Smith & Reynolds Co., Slaughters	4.58	12.00	<u>6.19</u>	99.8
5-10-10 Sulfate				
2277 Cumberland Chemical Co., Hopkinsville	5.19	10.35	10.10	103.0
2672 Smith & Reynold Co., Slaughters	5.22	10.45	9.78	103.0
6-8-6 Muriate				
2276 Trigg County Trading Center, Cadiz	6.82	8.40	6.98	110.6
2671 Robinson Implement & Motor Co., Princeton	6.09	8.50	6.73	106.2

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
CUMBERLAND CHEMICAL COMPANY (Cont'd)				
8-8-8 Muriate				
2275 Cumberland Chemical Co., Hopkinsville	7.84	8.70	7.93	101.8
2669 Robinson Implement & Motor Co., Princeton	<u>7.61</u>	8.50	7.84	99.3
2670 Lander Hardware Co., Lafayette	<u>7.43</u>	8.95	<u>7.71</u>	99.8
2907 Cumberland Chemical Co., Hopkinsville	<u>7.45</u>	8.30	8.44	98.7
2992 W. G. Duncan, Greenville	<u>6.85</u>	8.90	9.17	99.0
20% Superphosphate				
2558 Hayes Hardware Co., Dawson Springs	-----	21.20	-----	106.0
2678 Cumberland Chemical Co., Hopkinsville	-----	<u>19.70</u>	-----	98.5
3072 Robinson Implement & Motor Co., Princeton	-----	20.90	-----	104.5
3073 T. R. Ackridge, Fredonia	-----	20.20	-----	101.0
4050 Cumberland Chemical Co., Hopkinsville	-----	20.10	-----	100.5
50% Sulfate of Potash				
2679 Fox Hardware Co., Madisonville	-----	-----	51.32	102.6
60% Muriate of Potash				
3262 Cumberland Chemical Co., Hopkinsville	-----	-----	<u>57.40</u>	<u>95.7</u>
DARLING AND COMPANY Cairo, Illinois				
0-20-20 Muriate				
2682 City Coal Co., Fulton	-----	<u>19.30</u>	20.54	98.6
3-9-18 Muriate				
2561 Farmers Gin Co., Clinton	2.90	8.90	18.74	100.5
3-12-12 Muriate				
2284 Ballard County Cooperative, LaCenter	<u>2.71</u>	12.60	13.03	103.0
2560 Farmers Gin Co., Clinton	<u>3.06</u>	12.00	12.92	102.4
3075 Ballard County Cooperative, LaCenter	3.03	12.50	12.51	103.6

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
DARLING AND COMPANY (Cont'd)				
4-12-8 Muriate				
2283 Ballard County Cooperative, LaCenter	4.00	12.00	8.60	101.4
2681 Ballard County Cooperative, LaCenter	4.00	11.95	8.98	102.0
2790 Graves County Soil Association, Mayfield	3.89	<u>11.55</u>	8.20	97.6
3074 Ballard County Cooperative, LaCenter	4.32	12.05	8.96	104.6
3223 Galloway County Soil Improvement Association, Murray	4.09	<u>11.68</u>	8.36	100.0
4005 Yopp Seed Co., Paducah	4.08	<u>11.35</u>	9.78	101.6
4-16-16 Muriate				
2680 City Coal Co., Fulton	4.16	15.90	16.52	101.3
6-12-12 Muriate				
2559 Farmers Gin Co., Clinton	6.01	<u>11.25</u>	13.63	100.3
8-8-8 Muriate				
2282 Ballard County Cooperative, LaCenter	<u>7.59</u>	8.40	8.18	99.5
10-10-10 Muriate				
2154 Ballard County Cooperative, LaCenter	9.94	10.20	10.43	101.1
4004 Ballard County Cooperative, LaCenter	<u>9.36</u>	10.25	10.94	99.2
50% Sulfate of Potash				
2285 Ballard County Cooperative, LaCenter	-----	-----	51.40	102.8
DAVISON CHEMICAL CORPORATION Columbus, Ohio				
3-12-12 Muriate				
2573 Elwood Logan, Greenup	3.23	<u>11.35</u>	12.77	98.1
2875 Elwood Logan, Greenup	3.09	<u>11.90</u>	12.58	101.4
5-10-10 Muriate				
2292 Roberts Model Grocery, Olive Hill	4.92	9.95	10.90	101.2

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
DAVISON CHEMICAL CORPORATION Nashville, Tenn.				
0-12-12 Muriate				
2159 C. W. Conn, Clarkson	-----	<u>9.90</u>	16.92	102.0
2696 Cayce and Yoist, Hopkinsville	-----	11.90	<u>11.62</u>	98.4
2697 W. I. Smith General Store, Sebree	-----	<u>11.15</u>	12.01	<u>95.3</u>
3165 Corbin-Bennett Farm Supply, Providence	-----	11.75	12.89	101.1
4054 Corbin-Bennett Farm Supply, Providence	-----	<u>10.85</u>	11.75	<u>92.9</u>
0-14 14 Muriate				
2430 Henry Durham and Son, Greensburg	-----	<u>13.45</u>	<u>6.08</u>	<u>78.5</u>
0-20-20 Muriate				
2935 T. F. Keene and Sons, Bardstown	-----	<u>18.60</u>	19.98	<u>95.3</u>
3080 J. B. Hatcher Co., Park City	-----	<u>18.88</u>	<u>19.30</u>	<u>95.1</u>
3228 J. B. Hatcher Co., Park City	-----	<u>17.85</u>	<u>19.64</u>	<u>92.2</u>
3229 Crafton Brothers and Duncan, Henderson	-----	<u>18.95</u>	20.22	<u>96.9</u>
4012 Morganfield Hardware, Morganfield	-----	<u>18.80</u>	19.92	<u>95.9</u>
4053 Land O'Nan Warehouse, Sturgis	-----	<u>19.50</u>	20.66	99.4
2-12-6 Muriate				
2429 Henry Durham and Son, Greensburg	5.76	11.95	12.14	148.1
2695 Farmers Cooperative, Madisonville	2.15	12.10	6.57	103.4
3038 J. H. Lyon, Loretto	2.25	11.80	6.47	102.3
3079 J. B. Hatcher Co., Park City	2.21	<u>11.50</u>	6.57	100.6
4011 Dewey Strickler, Franklin	2.07	<u>11.50</u>	6.42	99.0
3-9-6 Muriate				
2291 Henry Durham and Son, Greensburg	3.50	9.40	7.72	112.2
2571 Clyde Logsdon Feed Store, Whitesville	3.29	9.00	6.35	103.7
3078 Farmers Hay & Seed Co., Smith Grove	2.89	<u>8.55</u>	6.32	97.2
2572 Frank Snodgrass, Morgantown	2.99	<u>8.78</u>	6.17	99.1
3-9-18 Muriate				
2694 Kentucky Cotton and Grain Co., Hickman	3.45	9.30	19.04	106.7
4010 Land O'Nan Warehouse, Sturgis	2.95	9.25	<u>17.24</u>	99.1

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
DAVISON CHEMICAL CORPORATION (Cont'd)				
Nashville, Tenn.				
3-12-12 Muriate				
2570 Clyde Logsdon Feed Store, Whitesville	3.54	12.20	11.49	103.4
2693 Grays and Bishop, Glasgow	3.32	11.90	12.28	102.3
2797 Frank Snodgrass, Morgantown	3.12	12.00	11.56	99.8
2934 T. F. Keene & Sons, Bardstown	2.62	11.75	12.03	96.4
3051 Stockton Brothers, Albany	3.07	12.10	11.76	100.4
3109 Farmers Cooperative, Madisonville	3.08	11.45	12.61	99.4
3226 Crafton Brothers and Duncan, Henderson	2.95	12.75	10.80	100.3
3227 Farmers Cooperative, Madisonville	3.08	11.80	12.08	99.8
4008 Land O'Nan Warehouse, Sturgis	2.68	12.65	12.19	101.2
4009 Morganfield Hardware Co., Morganfield	3.11	12.40	11.47	101.3
4052 Mill Springs Supply, Mills Springs	3.07	12.30	13.52	105.2
4-12-4 Muriate				
2158 Atherton Lumber Co., Livermore	4.34	11.60	5.08	103.2
2428 Bell County Supply, Middlesboro	4.34	12.20	4.94	105.9
3225 Marshall County Soil Improvement Association, Benton	3.94	12.50	4.10	102.3
4-12-8 Muriate				
2567 Simpson County Seed Co., Franklin	3.82	11.90	7.60	97.4
2568 L. F. Thurmond, Murray	3.98	11.70	7.71	95.8
2796 Graves County Soil Association, Mayfield	4.60	12.80	10.01	112.3
2933 Frank Snodgrass, Morgantown	3.71	11.90	8.60	98.9
3076 L. F. Thurmond, Murray	3.90	11.93	8.12	99.3
3077 Allen County Farmers Service, Scottsville	3.52	11.53	7.98	94.5
3108 Farmers Cooperative, Madisonville	3.39	12.10	8.15	96.6
4-12-8 Sulfate				
2569 Simpson Feed Co., Franklin	4.41	10.68	6.50 ^a	93.4
2692 Farmers Cooperative, Madisonville	4.06	11.50	8.55 ^b	99.4
5-10-10 Muriate				
2566 Farmers Hay and Seed Co., Smith Grove	5.04	10.20	10.06	101.3
2689 Robinson Implement and Motor Co., Princeton	4.65	9.85	9.76	96.5
2795 Frank Snodgrass, Morgantown	4.34	9.85	9.35	93.5

a. Excess muriate equivalent to 1.56% potash

b. Excess muriate equivalent to 1.30% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
DAVISON CHEMICAL CORPORATION (Cont'd)				
Nashville, Tenn.				
5-10-10 Muriate (Cont'd)				
4051 Land O'Nan Warehouse, Sturgis	<u>4.51</u>	10.00	9.95	<u>96.6</u>
5-10-10 Sulfate				
2426 J. K. Miller, Campbellsville	5.20	10.90	10.12 ^a	105.6
2427 L. J. Thurmond, Murray	6.37	10.00	9.76 ^b	108.6
2690 Grays and Bishop, Glasgow	<u>4.58</u>	10.60	10.32 ^c	100.6
2691 T. F. Keene and Sons, Bardstown	<u>4.47</u>	10.40	10.98 ^d	100.4
6-8-6 Muriate				
2565 Dewey Strickler, Franklin	<u>5.70</u>	8.10	6.04	98.4
6-8-6 Sulfate				
2289 Atherton Lumber Co., Livermore	<u>5.70</u>	7.90	6.21	97.8
2290 Henry Durham & Son, Greensburg	6.03	8.10	6.36	101.6
6-12-12 Muriate				
2156 T. F. Keene and Sons, Bardstown	6.15	12.20	12.57	102.6
2157 Frank Ballard, Springfield	5.83	<u>11.60</u>	12.84	99.1
2425 L. J. Thurmond, Murray	<u>5.47</u>	<u>12.40</u>	<u>11.60</u>	<u>97.8</u>
2687 J. B. Hatcher Co., Park City	<u>3.94</u>	<u>9.55</u>	<u>17.60</u>	<u>89.8</u>
2688 Stull Brothers, Inc., Sebree	<u>5.62</u>	12.85	12.01	101.0
2794 Allen County Farmers Service, Scottsville	<u>5.02</u>	<u>10.90</u>	<u>13.20</u>	<u>92.7</u>
3107 Farmers Cooperative, Madisonville	<u>5.35</u>	<u>11.30</u>	<u>12.06</u>	<u>93.9</u>
4007 Land O'Nan, Sturgis	<u>5.65</u>	<u>11.75</u>	<u>11.27</u>	<u>95.6</u>
8-8-8 Muriate				
2793 Wabash Elevator Co., Uniontown	<u>7.38</u>	9.20	9.02	103.2
3164 Land O'Nan Warehouse, Sturgis	<u>7.15</u>	8.85	8.11	98.4
8-24-8 Muriate				
3224 Crafton Brothers & Duncan, Henderson	8.49	<u>21.90</u>	9.14	<u>98.0</u>
10-10-10 Muriate				
4006 Land O'Nan Warehouse, Sturgis	<u>8.06</u>	11.75	10.03	<u>96.2</u>
20% Superphosphate				
2909 Farmers Supply Co., Upton	-----	20.00	-----	100.0
2995 Southern States Owensboro Cooperative, Owensboro	-----	20.60	-----	103.0

a. Excess muriate equivalent to 1.43% potash

b. Excess muriate equivalent to 1.16% potash

c. Excess muriate equivalent to 0.34% potash

d. Excess muriate equivalent to 2.30% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
DAVISON CHEMICAL CORPORATION (Cont'd)				
Nashville, Tenn.				
20% Superphosphate (Cont'd)				
2996 Southern States Simpson Cooperative, Franklin	-----	20.50	-----	102.5
3019 C. Lawrence General Store, Reedyville	-----	20.60	-----	103.0
3039 J. H. Lyons, Loretto	-----	20.35	-----	101.8
3202 Farmers Exchange, Burkesville	-----	20.35	-----	101.8
3230 Smith and Reynolds Co., Slaughters	-----	21.00	-----	105.0
3231 Shoemaker Seed Co., Murray	-----	20.20	-----	101.0
4013 Allen & Jenkins, Bowling Green	-----	20.45	-----	102.2
4014 George Patmor and Son, Marion	-----	20.70	-----	103.5
4055 Corbin-Bennett Farm Supply, Providence	-----	20.30	-----	101.5
4056 Mill Springs Supply, Mills Springs	-----	20.00	-----	100.0
50% Sulfate of Potash				
2160 Frank Ballard, Springfield	-----	-----	51.56	103.1
2699 Farmers Cooperative, Madisonville	-----	-----	50.56	101.1
60% Muriate of Potash				
2698 Farmers Cooperative, Madisonville	-----	-----	60.00	100.0
3110 Farmers Cooperative, Madisonville	-----	-----	61.60	102.7
DAVISON CHEMICAL CORPORATION				
New Albany, Ind.				
0-12-12 Muriate				
2423 McCarthy Farm Service, Pineville	-----	11.40	12.44	97.9
2908 McCarthy Farm Service, Pineville	-----	11.70	12.46	99.6
4020 Ruark Truck Lines, Morganfield	-----	12.30	12.52	103.1
2-12-6 Muriate				
2421 Monarch Milling Co., Mt. Sterling	2.03	11.60	6.24	98.7
2422 The Big Store, Harrodsburg	1.97	11.80	6.61	100.3
2564 Mt. Eden Mills, Mt. Eden	2.02	11.90	6.89	102.1
2685 Cas Prewitt, Mt. Sterling	2.08	11.20	6.45	97.5
2686 Duncan Hughes & Co., LaGrange	2.08	11.70	6.13	99.4
3018 Duncan-Hughes & Co., LaGrange	2.17	12.50	6.60	105.9
4018 Henderson Feed and Commission Co., Henderson	2.18	12.20	6.53	104.1
3-12-12 Muriate				
2419 McCarty Farm Service, Pineville	2.94	12.10	12.22	98.5
2420 Monarch Milling Co., Mt. Sterling	3.07	12.00	11.99	100.4

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
DAVISON CHEMICAL COMPANY (Cont'd) New Albany, Ind.				
3-12-12 Muriate (Cont'd)				
2684 Hancock's Feed Store, Middletown	3.08	12.15	12.34	102.0
2968 Climax Roller Mills, Shelbyville	2.94	12.15	11.99	100.2
3017 Duncan-Hughes and Co., LaGrange	2.95	12.20	12.83	102.4
3106 Lincoln Farm Service, Stanford	2.99	<u>11.60</u>	12.82	100.0
4016 Henderson Feed and Commission Co., Henderson	2.92	12.65	11.86	102.0
4017 Ruark Truck Lines, Morganfield	3.00	12.75	12.17	103.7
4-8-12 Sulfate				
2155 Crossroad General Store, Custer	3.98	8.70	12.07 ^a	103.5
2287 Duncan-Hughes and Co., LaGrange	4.16	8.00	12.48	102.4
2288 Brown and Jones, Shepherdsville	4.07	8.30	12.05	102.2
2417 Robert Baker & Son, Crab Orchard	4.19	8.15	12.08	102.4
2418 Broshear Market, Corbin	3.97	8.70	11.78 ^b	102.7
2792 F. G. Burd, Frankfort	4.10	8.40	11.98	102.7
4-16-16 Muriate				
2563 R. H. Johnson, Beaver Dam	3.83	15.90	<u>15.49</u>	<u>98.0</u>
5-10-15 Sulfate				
3280 Climax Roller Mills, Shelbyville	5.02	10.20	15.16	101.4
6-8-6 Muriate				
2286 Duncan-Hughes and Co., LaGrange	6.05	8.05	6.55	102.0
4015 Henderson Feed & Commission Co., Henderson	5.96	8.90	6.33	105.0
6-8-6 Sulfate				
2416 The Big Store, Harrodsburg	6.05	8.05	5.98	100.6
2562 Henderson Feed & Commission Co., Henderson	5.94	8.80	6.50 ^c	104.8
2683 Buechel Produce Exchange, Buechel	5.98	8.35	5.98	101.6
2791 J. L. Wilson, Canmer	5.89	8.90	6.29	104.4
48% Sulfate of Potash				
2424 Climax Roller Mills, Shelbyville	-----	-----	51.08	106.4

a. Excess muriate equivalent to 1.53% potash

b. Excess muriate equivalent to 1.43% potash

c. Excess muriate equivalent to 0.55% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
ELIZABETHTOWN ANHYDROUS AMMONIA COMPANY Elizabethtown, Ky.				
82% Anhydrous Ammonia				
2851 Elizabethtown Anydrous Ammonia Co., Elizabethtown	82.00	-----	-----	100.0
FEDERAL CHEMICAL COMPANY Louisville, Ky., Nashville, Tenn.				
0-12-12 Muriate				
2580 Grayson Milling Co., Grayson	-----	12.22	13.44	105.2
3239 Corbin-Bennett Farm Supply, Providence	-----	11.70	12.18	98.8
3260 Brooks Brothers, Slaughters	-----	<u>11.40</u>	12.62	98.4
0-20-20 Muriate				
2804 J. A. Bennett Hardware, Taylorsville	-----	20.40	<u>18.44</u>	98.7
2-12-6 Muriate				
2579 Allen and Jenkins, Bowling Green	2.39	11.78	6.13	102.4
2937 Brown Supply Co., Vine Grove	2.27	12.50	6.41	106.2
3020 Thomerson Milling Co., Glasgow	2.30	12.25	6.08	104.1
3168 Farmers Supply Co., Henderson	2.17	11.90	6.61	102.6
3169 Allen and Jenkins, Bowling Green	2.10	12.60	6.37	105.2
3170 Robert James Feed Store, Franklin	2.18	12.20	6.39	103.5
3238 Douglas Helm, Nebo	2.17	12.20	6.47	103.8
3263 Thomas Warren, Guthrie	2.10	12.50	6.32	104.5
4063 J. B. Barnes, Somerset	2.39	12.50	8.57	113.2
3-9-6 Muriate				
2298 Carl J. Hagman, Cloverport	2.83	9.30	6.47	101.7
2705 Allensville Grain Co., Allensville	3.56	9.20	5.92	106.1
3167 Husa Butler, Dyer	3.03	8.90	6.29	100.5
3-9-18 Muriate				
2297 Young Brothers Feed Store, Lewisport	3.06	<u>8.60</u>	17.96	98.5
3-12-12 Muriate				
2296 M. S. Qualls, Olive Hill	2.98	12.00	12.56	101.1
2432 Fiechter Hardware Co., London	3.53	12.30	11.91	104.4
2433 Stockton Brothers, Albany	3.42	11.95	11.99	102.6
2434 J. T. Freeman and Son, Harrodsburg	3.59	<u>11.15</u>	13.14	102.7
2703 Grayson County Supply, Leitchfield	2.78	12.40	13.26	103.1

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
FEDERAL CHEMICAL COMPANY (Cont'd)				
3-12-12 Muriate (Cont'd).				
2704 Benson Valley Milling Co., Frankfort	3.10	12.30	12.30	102.7
2936 Feichter Hardware Co., London	3.07	11.90	13.11	102.5
3098 Hall Seed Co., Louisville	3.04	12.10	12.47	101.8
3112 Douglas Helm, Nebo	3.45	11.40	12.18	100.7
3130 Stockton Brothers, Albany	3.01	12.05	12.26	100.9
3194 The Midget Mills, Somerset	2.79	12.00	11.92	98.4
3203 Elford Hays, Russell Springs	2.91	13.00	12.17	104.2
3237 Dairyman's Supply Co., Mayfield	3.30	12.50	12.42	105.2
4059 Corbin-Bennett Farm Supply, Providence	3.28	12.30	12.22	103.7
4060 Shelby Yadon, Somerset	2.90	12.30	11.86	100.4
4061 J. E. Ward, Central City	3.09	12.30	12.68	103.4
4062 A. Ray Dyer, McQuady	2.90	12.30	12.83	102.5
4-12-4 Muriate				
2803 Salem Feed Co., Salem	4.11	11.60	4.45	100.0
4022 Bond Feed Mill, Russellville	3.34	12.10	4.84	97.6
4-12-8 Muriate				
2431 U. L. Rogers and Son, Columbia	4.14	11.10	7.95	96.8
2578 Shaker Feed and Seed Co., South Union	3.92	12.10	8.65	99.3
3232 Clinton Hatchery, Clinton	4.15	11.90	8.74	101.9
3233 W. L. Farris, Farmington	4.21	11.90	8.86	102.9
3234 Youngblood Brothers, Mayfield	4.25	12.15	8.61	103.8
3235 J. B. Jordan and Son, Murray	4.16	11.90	8.72	102.3
3236 Brooks Brothers, Slaughters	3.90	11.80	8.56	99.7
4-12-8 Sulfate				
2802 Youngblood Brothers, Mayfield	4.41	12.10	8.49 ^a	104.4
4-16-16 Muriate				
2801 Youngblood Brothers, Mayfield	4.11	15.70	16.30	100.0
5-10-10 Muriate				
2577 Shaker Feed and Seed Co., South Union	4.85	9.45	8.98	94.3
2798 Ellis Popcorn Co., Murray	5.19	9.80	9.14	98.5
2876 Morgantown Feed Mill, Morgantown	5.40	10.20	9.57	102.6
2951 Twin Oak, Scottsville	4.38	11.00	9.19	98.5
4021 Robert James Feed Store, Franklin	3.80	10.90	8.78	93.3

a. Excess muriate equivalent to 0.90% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 --- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
FEDERAL CHEMICAL COMPANY (Cont'd)				
5-10-10 Sulfate				
2161 Allen Coal Co., Brandenburg	4.79	10.10	10.04 ^a	99.1
2799 Nelson Alexander, Ravenna	4.96	9.90	10.64 ^b	100.7
2800 J. A. Bennett Hardware, Taylorsville	4.96	<u>9.70</u>	10.41 ^c	99.3
5-10-15 Sulfate				
2702 Thomerson Milling Co., Glasgow	4.98	9.80	<u>12.53</u> ^d	<u>94.1</u>
3166 Clarence Lebus, Cynthiana	5.05	10.35	15.87	103.4
3282 Carter's Supply Co., Forks of Elkorn	5.02	10.65	15.00	102.7
6-8-6 Muriate				
2293 Edward C. Bryant Co., Rumsey	<u>5.45</u>	8.40	6.80	99.9
2294 Loyd Alexander, Salt Lick	<u>5.89</u>	7.95	7.09	101.6
2575 J. W. Bond, Russellville	5.88	8.40	6.07	101.3
2701 Grayson County Supply, Leitchfield	<u>5.74</u>	8.40	7.37	103.5
4058 Corbin-Bennett Farm Supply, Providence	<u>5.01</u>	9.20	7.66	102.7
6-8-6 Sulfate				
2295 Carl J. Hagneau, Cloverport	5.95	8.45	7.03	104.4
2576 Allen & Jenkins, Bowling Green	6.05	8.30	6.05 ^e	102.0
3281 Carter's Supply Company, Forks of Elkhorn	6.10	8.25	6.81	104.0
6-12-12 Muriate				
2700 Smith and Wells, Temple Hill	<u>4.84</u>	13.00	13.44	99.9
8-8-8 Muriate				
2574 Shelby Murphy, Mt. Sterling	<u>7.48</u>	8.50	7.92	98.7
3111 Douglas Helm, Nebo	<u>5.33</u>	10.80	8.77	<u>96.6</u>
4057 Corbin-Bennett Farm Supply, Providence	<u>6.87</u>	9.50	8.44	100.1
20.5% Ammonium Nitrate Limestone				
2163 Husa Butler, Dyer	21.04	-----	-----	102.6
19% Superphosphate				
2162 Allen Coal Co., Brandenburg	-----	19.40	-----	102.1

a. Excess muriate equivalent to 0.32% potash

b. Excess muriate equivalent to 0.90% potash

c. Excess muriate equivalent to 0.39% potash

d. Excess muriate equivalent to 0.78% potash

e. Excess muriate equivalent to 0.98% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
FEDERAL CHEMICAL COMPANY (Cont'd)				
20% Superphosphate				
2938 Feichter Hardware Co., London	-----	20.70	-----	103.5
3171 Farmers Supply Co., Henderson	-----	20.65	-----	103.2
3172 Robert James Feed Store, Franklin	-----	20.20	-----	101.0
4064 Farmers Cash Store, Liberty	-----	20.80	-----	104.0
4065 J. E. Ward, Central City	-----	20.50	-----	102.5
50% Sulfate of Potash				
2164 Argo's Hardware and Supply, Ewing	-----	-----	50.44 ^a	100.9
C. B. FOX AND COMPANY New Orleans, La.				
20.5% Ammonium Nitrate Limestone				
2805 Howe, Hilleard and Butterworth, Mayfield	20.44	-----	-----	99.7
2706 Lincoln Farm Service, Stanford	20.40	-----	-----	99.5
HERCULES POWDER COMPANY Wilmington, Delaware.				
33.5% Ammonium Nitrate				
2435 Bennet-Sullivan & Co., Harrodsburg	34.16	-----	-----	102.0
2436 Camargo Farmers Supply, Camargo	<u>33.20</u>	-----	-----	99.1
2806 Spar and Company, Winchester	<u>33.48</u>	-----	-----	99.9
HUTSON CHEMICAL COMPANY Murray, Ky.				
3-12-12 Muriate				
3241 Bugg Brothers Feed and Supply Co., Clinton	2.94	12.65	12.41	103.4
4-12-8 Muriate				
2581 Hutson Chemical Co., Murray	3.95	12.90	7.98	103.7
3081 Ellis Popcorn Co., Murray	3.94	12.85	8.04	103.5
3240 Hutson Chemical Co., Murray	4.15	12.18	9.53	105.3
4-12-8 Sulfate				
2437 Hutson Chemical Co., Murray	3.97	12.15	8.46	101.5

a. Excess muriate equivalent to 1.42% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
HUTSON CHEMICAL COMPANY (Cont'd)				
5-20-20 Muriate				
2807 Ellis Popcorn Co., Murray	<u>4.30</u>	<u>19.20</u>	<u>18.52</u>	<u>93.1</u>
50% Sulfate of Potash				
2438 Shoemaker Seed Co., Murray	-----	-----	49.92	99.8
INTERNATIONAL MINERALS AND CHEMICAL CORPORATION Cincinnati, Ohio, Somerset, Ky.				
0-12-12 Muriate				
2176 Springfield Feed & Grain Co., Springfield	-----	12.30	12.94	104.3
2309 Carl J. Hagman, Cloverport	-----	12.10	12.31	101.4
2310 Ralph Hoveous, Hustonville	-----	12.55	12.99	105.8
2450 Gibson Farm and Home Supply, Barbourville	-----	12.10	13.09	103.6
3083 Gibson Farm and Home Service, Barbourville	-----	12.00	13.35	103.8
3204 U. L. Rogers & Son, Columbia	-----	12.00	13.87	105.2
0-14-7 Muriate				
2594 Baker and Hulley, Alexandria	-----	15.00	8.07	108.8
2711 Marvin May, Eubank	-----	14.45	7.45	103.8
3136 Harlan Fruit Co., Harlan	-----	14.50	7.29	103.7
0-20-20 Muriate				
2175 Springfield Feed and Grain Co., Springfield	-----	<u>19.40</u>	20.24	98.4
2308 Shepherdsville Feed Mill, Shepherdsville	-----	20.70	19.90	102.2
2449 W. J. Amburgy, Means	-----	20.30	20.48	101.8
2879 Claud Beck Service Station, Jamestown	-----	20.00	20.40	100.7
3135 Harlan Fruit Co., Harlan	-----	20.00	<u>19.64</u>	99.4
2-12-6 Muriate				
2174 C. L. Clemons, Pearman	2.20	12.10	6.37	103.2
2306 Hal Young Seed Store, Hawesville	2.11	11.90	6.14	100.8
2307 Carl J. Hagman, Cloverport	2.12	11.90	6.24	101.1
2447 Crab Orchard Lumber Co., Crab Orchard	2.01	12.15	6.61	102.6
2448 Gibson Farm and Home Service, Barbourville	2.32	12.10	6.42	104.4
2591 Baker and Hulley, Alexandria	2.15	12.10	6.35	102.8
2592 Lipscomb Coal and Feed Co., Walton	2.17	12.00	6.44	102.6
2593 Lawson Hardware, Greenup	2.07	12.10	6.49	102.5

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
INTERNATIONAL MINERALS AND CHEMICAL CORPORATION (Cont'd)				
2-12-6 Muriate (Cont'd)				
3022 Caneyville Roller Mill, Caneyville	2.25	12.40	7.06	107.2
3052 Hadis Harvey General Store, Breeding	2.18	12.35	6.99	106.2
3082 Gibson Farm and Home Service, Barbourville	2.11	12.35	6.50	104.2
3-9-18 Muriate				
2446 Farmers Supply Store, Owensboro	3.00	9.20	18.48	102.0
3-12-12 Muriate				
2172 Farmers Supply Co., Somerset	3.00	12.10	12.18	100.8
2173 Mackeys General Store, Utica	3.11	12.20	12.27	102.2
2305 J. C. Eldridge, Morehead	3.35	12.10	12.00	102.8
2589 Burlington Lumber & Building Supply, Burlington	3.03	12.00	12.60	101.5
2590 Baker & Hulley, Alexandria	3.14	12.30	12.41	103.2
2709 W. S. Allen Co., Liberty	3.13	11.95	13.23	103.4
2710 Cooper Brothers Feed Store, Elizabethtown	3.12	12.70	12.41	104.8
3023 Dudgeon and Robinson, Campbellsville	2.77	12.10	12.01	98.9
4066 G. M. Sandidge, Eubank	2.85	12.00	13.35	102.0
4067 Somerset Feed Co., Somerset	2.80	12.20	12.99	101.8
4068 Ralph Hovious, Hustonville	2.80	12.00	12.82	100.5
4-12-8 Muriate				
2169 C. L. Clemons, Pearman	4.15	12.00	8.81	102.9
2170 Mackeys General Store, Utica	4.10	12.90	9.32	107.8
3021 Caneyville Roller Mill, Caneyville	<u>3.73</u>	12.50	8.92	102.5
4-12-8 Sulfate				
2171 J. R. Prather, Maysville	3.95	12.20	7.95 ^a	100.4
2586 Loveson Hardware, Greenup	4.09	11.80	8.08	99.9
2587 Lipscomb Coal and Feed Co., Walton	4.28	11.73	8.67	102.2
2588 Carmack and Son, Alexandria	<u>3.48</u>	<u>12.90</u>	9.71 ^b	104.4
2708 Irving's Market, Greenville	3.81	12.80	9.21 ^c	105.1

a. Excess muriate equivalent to 0.66% potash

b. Excess muriate equivalent to 2.68% potash

c. Excess muriate equivalent to 1.52% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
INTERNATIONAL MINERALS AND CHEMICAL CORPORATION (Cont'd)				
5-10-10 Muriate				
2168 C. L. Clemons, Pearman	4.85	10.80	10.77	104.3
2304 Hal Young & Son, Hawesville	5.01	10.50	10.56	103.5
2585 Lipscomb Coal and Feed Co., Walton	<u>4.43</u>	10.20	10.76	98.8
2707 M. G. Williams Implement Co., Hopkinsville	<u>4.29</u>	10.60	10.45	98.9
5-20-20 Muriate				
2167 Cooper Brothers Feed Store, Elizabethtown	4.88	<u>18.05</u>	22.46	<u>97.6</u>
2445 Farmers Cooperative Store, Owensboro	5.04	<u>18.90</u>	21.06	98.7
2997 Farmers Cooperative Store, Owensboro	4.86	19.90	19.82	98.9
3173 Farmers Cooperative Store, Owensboro	4.94	21.09	<u>19.10</u>	101.5
6-8-6 Sulfate				
2166 Cooper Brothers Feed Store, Elizabethtown	5.85	9.40	6.53 ^a	107.2
2303 Carl J. Hagman, Cloverport	6.11	8.25	6.50	103.3
2444 Jett Coal and Supply Co., Jett	6.02	8.20	6.83 ^b	103.2
2584 Baker & Hulley, Alexandria	6.13	8.50	6.14	103.8
2878 Edward Bryant, Waterview	6.16	8.20	6.18	102.6
6-8-16 Sulfate				
2443 N. B. Smith, Harrodsburg	6.34	8.20	16.56	104.0
2877 Lawson Hardware, Greenup	5.91	8.50	15.96	101.4
6-12-12 Muriate				
2583 Burlington Lumber and Building Supply, Burlington	6.06	12.10	12.42	101.5
6-12-12 Muriate 3, Sulfate 9				
2165 Springfield Feed and Grain Co., Springfield	5.97	12.50	12.34	102.3
2299 J. C. Eldridge, Morehead	6.05	12.00	<u>11.72</u>	99.8
2300 Woodson Lewis, Greensburg	5.96	12.10	<u>12.41</u>	100.9
2301 Hal Young Feed Store, Hawesville	5.82	12.05	12.26	99.7
2302 Shepherdsville Feed Mill, Shepherdsville	5.94	12.10	12.12	100.2

a. Excess muriate equivalent to 0.42% potash

b. Excess muriate equivalent to 0.30% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
INTERNATIONAL MINERALS AND CHEMICAL CORPORATION (Cont'd)				
6-12-12 Muriate 3, Sulfate 9 (Cont'd)				
2440 Claude Beck Service Station, Jamestown	6.04	12.55	12.62	103.4
2441 Walker Greer, Camargo	5.84	12.40	12.40	101.3
2442 W. J. Amburgy, Means	6.02	11.90	12.14	100.0
8-8-8 Muriate				
2582 Burlington Lumber and Supply, Burlington	<u>7.33</u>	8.60	8.89	100.2
10-10-10 Muriate				
2439 Claude Beck Service Station, Jamestown	9.76	10.30	11.11	101.7
2981 Farmers Cooperative Store, Owensboro	10.04	10.25	10.15	101.3
16% Nitrate of Soda				
2010 Harlan Fruit Co., Harlan	16.04	-----	-----	100.2
20% Superphosphate				
2312 Hal Young Feed Store, Hawesville	-----	20.85	-----	104.2
2313 J. C. Eldridge, Morehead	-----	20.40	-----	102.0
2595 Carmack & Son, Alexandria	-----	20.10	-----	100.5
2712 G. M. Haycraft and Son, Leitchfield	-----	20.50	-----	102.5
2958 Farmers Supply Co., Somerset	-----	19.80	-----	99.0
2998 Farmers Cooperative Store, Owensboro	-----	21.15	-----	105.8
3205 U. L. Rogers & Son, Columbia	-----	20.50	-----	102.5
3264 Andrew Porter, Plummers Landing	-----	21.38	-----	106.9
21.5% Sulfate of Potash Magnesia				
3174 Clarence LeBus, Cynthiana	-----	-----	22.56	104.9
48% Sulfate of Potash				
2177 Mackeys General Store, Utica	-----	-----	50.92	106.1
2713 Southern States Cooperative, Somerset	-----	-----	51.64	107.6
2808 W. L. Rogers and Son, Columbia	-----	-----	49.88	103.9
60% Muriate of Potash				
2451 Shoemaker Seed Co., Murray	-----	-----	60.52	100.9

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
KENTUCKY FERTILIZER WORKS Winchester, Ky.				
0-20-20 Muriate 2881 Wilbur D. Wills, Mt. Sterling	-----	<u>19.30</u>	<u>19.30</u>	<u>96.5</u>
3-9-6 Muriate 2314 Roberts Model Grocery, Olive Hill	3.26	<u>8.73</u>	5.86	100.3
3-12-12 Muriate 2455 Dr. W. Snyder, Frankfort	3.29	12.30	12.29	103.9
2939 Farmers Supply Co., Danville	3.05	12.35	13.29	104.8
4-6-15 Sulfate 2454 Henry Besuden, Winchester	4.29	6.20	<u>14.27</u>	101.4
6-8-6 Sulfate 2179 Davis Gillispie, Flemingsburg	6.32	8.00	5.75	101.8
6-8-12 Muriate 3, Sulfate 9 2811 Johnson Brothers, Lexington	<u>5.48</u>	<u>7.70</u>	11.90	<u>95.1</u>
6-8-16 Sulfate 2178 Farmers Supply Co., Danville	5.97	8.20	16.48	101.6
2809 Woodford Feed Co., Versailles	6.09	8.20	16.06	101.5
2810 Robinson and Turley, Richmond	6.15	8.10	16.25	101.8
6-12-12 Muriate 2453 Dr. W. S. Snyder, Frankfort	6.16	12.00	<u>11.62</u>	100.2
8-8-8 Muriate 2452 Woodford Feed Co., Versailles	<u>7.56</u>	7.90	8.28	<u>97.4</u>
2880 Robinson and Turley, Richmond	<u>7.56</u>	8.00	8.15	<u>97.6</u>
10.25-0-25 Sulfate 2882 Estes Brothers, Winchester	<u>9.98</u>	-----	25.66	99.7
20.5% Ammonium Sulfate 2457 Bourbon Farmers Supply, Paris	21.00	-----	-----	102.4
20% Superphosphate 2180 Farmers Supply Co., Danville	-----	20.60	-----	103.0
2940 Farmers Supply Co., Danville	-----	20.10	-----	100.5
50% Sulfate of Potash 2456 Jett Coal and Company, Jett	-----	---	51.20	102.4
2812 Sphar and Co., Winchester	-----	----	51.24	102.5

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
KNOXVILLE FERTILIZER COMPANY London, Ky, Knoxville, Tenn., Nashville, Tenn.				
0-12-12 Muriate				
2182 A. P. Vaught and Co., Science Hill	-----	<u>10.00</u>	16.96	102.7
2471 Creech and Son, Corbin	-----	<u>12.35</u>	12.04	102.0
2885 City Supply Co., Columbia	-----	<u>12.60</u>	<u>11.13</u>	100.9
2913 Patrick Store, Williamsburg	-----	<u>10.80</u>	<u>9.90</u>	87.5
3053 Grayson Supply Co., Leitchfield	-----	<u>12.20</u>	<u>13.52</u>	105.3
3084 Patrick Store, Williamsburg	-----	<u>14.10</u>	<u>8.55</u>	102.1
3085 Knoxville Fertilizer Co., London	-----	<u>11.98</u>	<u>12.74</u>	101.9
3119 Clay County Farm Service, Manchester	-----	<u>13.45</u>	14.98	116.3
4024 Farmers Feed Market, Bowling Green	-----	<u>12.70</u>	11.89	103.6
0-20-20 Muriate				
2470 Wyndalls Farm Store, Owensboro	-----	<u>18.70</u>	<u>16.40</u>	<u>89.7</u>
2942 Farmers Feed Market, Bowling Green	-----	<u>18.55</u>	<u>12.23</u>	<u>82.2</u>
3000 Farmers Feed Market, Bowling Green	-----	<u>19.75</u>	<u>18.28</u>	<u>96.3</u>
2-12-6 Muriate				
2719 Jack Shirley, Edmonton	2.26	12.30	6.73	105.9
2720 Nebo Exchange Mill, Nebo	2.24	12.10	6.56	104.1
2819 London Grocery, London	2.11	12.20	<u>5.71</u>	101.2
2820 Jellico Grocery, Corbin	2.08	<u>11.05</u>	7.20	98.7
2912 Shippes Seed House, Campbellsville	2.31	<u>11.75</u>	6.08	101.4
2961 Roscoe Morris Feed Store, Somerset	2.43	<u>11.30</u>	6.60	101.4
3118 Nebo Exchange Mill, Nebo	2.99	<u>12.30</u>	8.46	116.8
3175 Farmers Feed Market, Bowling Green	2.10	12.60	6.67	106.0
3176 Harris Feed Store, Franklin	2.10	12.50	6.78	105.8
2-12 12 Muriate with 3% Borax				
2818 Farmers Feed Market, Bowling Green (1)	2.24	12.40	<u>10.73</u>	100.6
2941 Harris Feed Store, Franklin (2)	<u>1.60</u>	13.50	<u>8.51</u>	<u>96.0</u>
3-9-6 Muriate				
2468 Mt. Vernon Produce Co., Mt. Vernon	3.08	9.65	6.58	106.4

(1) Boron guaranteed 0.34% — found 0.34%

(2) Boron guaranteed 0.34% — found 0.48%

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
KNOXVILLE FERTILIZER COMPANY (Cont'd)				
3-9-6 Muriate (Cont'd)				
2602 Babb and Robertson Implement Co., Adairville	3.21	9.80	6.27	101.5
2817 Barnett Sullivan and Co., Harrodsburg	2.93	9.20	6.61	102.4
2999 Farmers Feed Market, Bowling Green	2.89	11.10	6.19	112.3
3041 Sanders Supply Co., Lancaster	4.02	11.60	6.68	127.1
3-9-6 Sulfate				
2469 Jack Shirley, Edmonton	3.04	9.90	6.38	107.0
2718 Jack Shirley, Edmonton	3.29	9.50	6.56	107.4
3-9-18 Sulfate				
2601 Farmers Feed Market, Bowling Green	3.50	8.80	19.78 ^a	106.4
2816 Barnett Sullivan Co., Harrodsburg	2.92	9.10	17.76	99.4
3-12-6 Muriate				
2717 Nebo Exchange Mill, Nebo	<u>2.44</u>	11.95	5.80	<u>94.9</u>
3117 Nebo Exchange Mill, Nebo	<u>2.28</u>	12.90	5.88	<u>98.8</u>
3-12-12 Muriate				
2317 Kentucky State Reformatory, LaGrange	3.09	12.10	12.34	101.8
2466 Farm and Home Store, Prestonsburg	2.81	12.20	12.72	101.2
2716 Kentucky State Hospital, Danville	3.15	12.65	12.73	105.5
2911 Shipp's Seed House, Campbellsville	4.05	<u>10.95</u>	<u>8.92</u>	<u>95.5</u>
2970 McCauley Brothers Seed Co., Versailles	3.33	11.85	12.54	102.7
3040 Sanders Supply Co., Lancaster	3.11	12.10	12.41	102.1
3115 Nebo Exchange Mill, Nebo	2.96	12.00	<u>11.46</u>	98.5
3116 Barnett-Sullivan Co., Harrodsburg	3.03	13.00	<u>11.67</u>	103.9
3137 Farm and Home Store, Prestonsburg	2.99	12.60	13.17	105.2
3242 G. H. Bowles & Son, Glasgow	2.78	12.70	12.01	101.7
4023 Harris Feed Store, Franklin	3.23	12.40	12.13	103.6
3-12-12 Muriate with 3% Borax				
2960 Roscoe Morris Feed Store, Somerset (1)	4.25	<u>10.30</u>	<u>8.50</u>	<u>93.0</u>
3-12-12 Sulfate				
2467 Wyndalls Farm Store, Owensboro	3.30	12.55	12.76 ^b	106.1

(1) Boron guaranteed 0.34% — found 0.32%

a. Excess muriate equivalent to 2.29% potash

b. Excess muriate equivalent to 0.39% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
KNOXVILLE FERTILIZER COMPANY (Cont'd)				
4-6-15 Sulfate				
2815 McCauley Brothers Seed Co., Versailles	4.32	9.90	<u>13.71</u> ^a	119.2
4-8-12 Sulfate				
2465 R. M. Stacy, Frankfort	3.81	8.60	<u>11.70</u>	100.8
4-8-16 Sulfate				
2464 McCauley Brothers Seed Co., Versailles	4.02	9.50	15.79 ^b	106.5
2715 Amburgey's Farm Supply, Mt. Sterling	<u>3.55</u>	9.60	<u>13.27</u>	98.0
4-12-4 Muriate				
2463 Curtis-McComas, Burksville	4.32	12.20	4.78	105.4
2959 Hobart & Milton Roberts Warehouse, Monticello	3.97	<u>11.10</u>	5.17	98.2
4069 Hobart & Milton Roberts Warehouse, Monticello	4.45	12.00	4.78	105.3
4-12-8 Muriate				
2600 Bugg Brothers Feed and Supply, Clinton	3.87	<u>10.75</u>	9.92	97.8
3114 Nebo Exchange Mill, Nebo	<u>3.65</u>	11.90	9.00	99.4
4-12-8 Sulfate				
2462 Jack Shirley, Edmonton	4.14	11.35	8.26 ^c	99.7
2814 Farmers Feed Market, Bowling Green	4.04	<u>11.35</u>	8.15 ^d	97.7
4-12-12 Muriate				
2316 Young Brothers Feed Store, Lewisport	3.76	<u>11.65</u>	11.84	96.7
4-12-12 Sulfate				
2884 Kennedy Supply Co., Liberty	4.04	12.40	12.06	101.0
5-10-5 Muriate				
2461 Wyndalls Farm Store, Owensboro	5.27	<u>9.70</u>	5.26	101.2
2813 McCauley Brothers Seed Co., Versailles	<u>4.61</u>	11.40	7.01	109.1

a. Excess muriate equivalent to 3.10% potash

b. Excess muriate equivalent to 2.35% potash

c. All potash from muriate

d. Excess muriate equivalent to 0.80% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
KNOXVILLE FERTILIZER COMPANY (Cont'd)				
5-10-10 Muriate				
2315 Young Brothers Feed Store, Lewisport	4.90	10.05	10.15	99.9
5-10-10 Sulfate				
2714 Hogan Landrum and Stone, Tompkinsville	<u>4.65</u>	9.05	11.59 ^a	97.0
2883 Hogan Landrum and Stone, Tompkinsville	4.89	10.80	10.41 ^b	103.7
6-8-6 Muriate				
2458 Carter & Sadler Wholesale Co., Pikeville	<u>5.17</u>	8.60	6.83	98.8
3113 Barnett-Sullivan and Co., Harrodsburg	6.02	8.50	6.41	103.7
6-8-6 Sulfate				
2181 Wade R. Cooper, Flemingsburg	5.84	8.00	6.63 ^c	100.4
2459 Curtis and McComas, Burksville	6.01	8.10	6.63	102.2
2460 Jack Shirley, Edmonton	5.82	9.00	6.61	105.2
8-6-10 Muriate				
2969 McCauley Brothers Seed Co., Versailles	7.93	6.00	10.74	101.2
8-8-8 Muriate				
2599 Farmers Feed Market, Bowling Green	<u>7.70</u>	8.40	8.74	101.3
10-6-4 Muriate				
2597 Bugg Brothers Feed & Supply, Clinton	<u>8.54</u>	8.80	4.50	103.7
2598 Shaker Feed and Seed Co., South Union	9.86	7.20	4.95	106.4
10-10-10 Muriate				
2596 Bugg Brothers Feed and Supply, Clinton	<u>8.58</u>	11.30	9.90	<u>97.1</u>
33.5% Ammonium Nitrate				
3120 Clay County Farm Service, Manchester	<u>32.96</u>	-----	----	<u>98.4</u>

a. Excess muriate equivalent to 1.58% potash

b. Excess muriate equivalent to 0.39% potash

c. Excess muriate equivalent to 0.91% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
KNOXVILLE FERTILIZER COMPANY (Cont'd)				
20% Superphosphate				
2914 Shipp's Seed House, Campbellsville	-----	20.60	-----	103.0
2962 Hobart & Milton Roberts Warehouse, Monticello	-----	<u>19.40</u>	-----	97.0
3001 Farmers Feed Market, Bowling Green	-----	20.50	-----	102.5
3086 Hamlin and Sears, Corbin	-----	20.60	-----	103.0
3087 Patrick Store, Williamsburg	-----	20.10	-----	100.5
3177 Princeton Mills, Princeton	-----	19.95	-----	99.8
48% Sulfate of Potash				
2472 Barnett-Sullivan & Co. Harrodsburg	-----	-----	48.28	100.6
2821 Barnett-Sullivan & Co., Harrodsburg	-----	-----	50.36 ^a	104.9
LION OIL COMPANY El Dorado, Arkansas				
33.5% Ammonium Nitrate				
3243 J. B. Jordan & Son, Murray	33.80	-----	-----	100.9
LOUISVILLE FERTILIZER COMPANY (See Armour Fertilizer Works)				
J. A. MCCARTY SEED COMPANY Evansville, Ind.				
45% Superphosphate				
2603 J. R. Shively, Whitesville	-----	45.80	-----	101.8
MISSISSIPPI CHEMICAL CORPORATION Yazoo City, Miss.				
33.5% Ammonium Nitrate				
2189 Ballard County Cooperative, LaCenter	33.65	-----	-----	100.4
MISSOURI PLANT FOOD COMPANY Sikeston, Missouri				
0-20-20 Muriate				
3246 T. W. Moore and Son, Clinton	-----	<u>18.40</u>	22.68	99.1

a. Excess muriate equivalent to 2.45% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
MISSOURI PLANT FOOD COMPANY (Cont'd)				
3-12-12 Muriate				
3245 Lynn Grove Feed & Seed Co., Lynn Grove	3.07	11.90	13.26	102.8
4026 Cooper Seed & Feed Co., Bandana	3.28	12.25	12.74	104.6
4-12-8 Muriate				
2724 Cooper Seed & Feed Store, Bandana	4.33	<u>11.45</u>	8.69	101.3
2725 Lovelaceville Feed Mill, Lovelaceville	4.36	<u>11.65</u>	8.70	102.4
3088 Lynn Grove Feed & Seed Co., Lynn Grove	3.94	12.10	9.06	102.4
4-16-16 Muriate				
2823 Lynn Grove Feed & Seed Co., Lynn Grove	4.42	<u>15.70</u>	16.26	101.5
6-8-6 Sulfate				
2191 Campbells Mill, Kevil	6.32	8.90	7.08	109.6
2722 Cooper Feed & Seed Store, Bandana	6.24	8.60	6.86	107.0
2723 Lovelaceville Feed Mill, Lovelaceville	6.33	8.25	6.73	105.6
6-12-12 Muriate				
3244 T. W. Moore and Son, Clinton	6.26	12.15	13.32	104.4
8-8-8 Muriate				
2190 Cambells Mill, Kevil	8.12	8.30	8.49	103.0
12-12-12 Muriate				
2822 Lynn Grove Feed & Seed Co., Lynn Grove	11.86	<u>10.75</u>	13.55	<u>98.1</u>
4025 Yopp Seed Co., Paducah	11.96	<u>12.10</u>	<u>11.65</u>	<u>99.6</u>
21% Ammonium Sulfate				
2192 Campbells Mill, Kevil	20.92	-----	-----	99.6
60% Muriate of Potash				
2726 Cooper Seed & Feed Store, Bandana	-----	---	60.16	100.3
MORRIS FERTILIZER COMPANY (See Armour Fertilizer Works)				

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
NORTH AMERICAN FERTILIZER COMPANY Louisville, Ky.				
0-12-12 Muriate				
2828 George Frimd, Jr., Eminence	-----	9.50	12.23	86.8
2888 Floyd Dudgeon, Cane Valley	-----	13.60	11.95	108.8
0-12-12 Muriate with 5% Borax				
2611 Jesse Morgan, Smithfield (1)	----	11.40	12.46	97.9
0-20-20 Muriate				
2339 Hal Young Feed Store, Hawesville	-----	18.30	17.84	90.7
2732 George Baugh, Valley Station	-----	15.40	19.42	83.7
3054 Leitchfield Transfer Co., Leitchfield	-----	20.90	21.08	104.8
3206 W. D. Cunningham, Webbs Cross Road	-----	19.55	20.30	99.0
2-12-6 Muriate				
2337 Carl J. Hagman, Cloverport	2.40	10.20	6.57	94.9
2338 George R. Phillips, Campbellsville	2.20	10.97	5.88	95.6
2475 Farmers Cooperative Store, Owensboro	2.47	11.25	6.63	101.5
2476 Renfro Supply Co., Williamsburg	2.27	11.45	6.02	99.2
2610 Ward's Self Service Feed & Seed Store, Centertown	2.06	11.70	6.88	101.3
3003 J. B. Lucas Seed Co., Franklin	2.39	11.35	6.01	99.7
3131 Gilbert Carrier, Millwood	2.58	13.80	6.11	115.1
3144 Young's Seed House, Campbellsville	2.00	11.70	6.97	101.0
3-9-6 Muriate				
2196 W. G. Feathers & Son, Parksville	3.74	8.50	6.21	104.3
2333 Hal Young Feed Store, Hawesville	3.21	8.60	6.17	100.0
2334 Young Seed Company, Campbellsville	3.64	9.40	6.21	108.9
2335 Redwine's Farm Supply, Sandy Hook	3.13	8.57	6.29	99.4
2336 Carl J. Hagman, Cloverport	3.30	8.50	6.66	101.7
2731 Frank Ballard, Springfield	3.63	8.55	7.25	106.8
3-12-12 Muriate				
2331 Carl J. Hagman, Cloverport	3.44	11.28	11.33	98.2
2332 Central State Hospital, Lakeland	3.37	11.35	12.51	100.7
2474 Kentucky Training Home, Frankfort	3.24	11.50	12.01	99.4
2729 Dorsey Brothers & Fisher, Carlisle	3.51	11.20	12.75	101.5

(1) Boron guaranteed 0.57% — found 0.48%

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Percent of Guar. Relative Value Found
NORTH AMERICAN FERTILIZER COMPANY (Cont'd)				
3-12-12 Muriate (Cont'd)				
2730 A. M. Huffaker, Monticello	3.04	<u>11.15</u>	13.11	99.0
2827 George Frimd, Jr., Eminence	3.37	<u>11.45</u>	11.90	99.8
3002 J. B. Lucas Seed Co., Franklin	3.20	<u>12.75</u>	11.75	104.1
3248 Laswill Milling Co., Brodhead	3.28	11.95	13.11	104.1
4-8-12 Sulfate				
2195 J. H. Myers, Ewing	4.20	8.00	12.03	101.6
2330 Hal Young Feed Store, Hawesville	3.95	7.75	12.27	99.0
4-16-16 Muriate				
3143 Young's Seed House, Campbellsville	4.08	15.90	16.72	101.3
5-10-10 Sulfate				
2826 Morgantown Feed Mill, Morgantown	<u>4.64</u>	<u>8.70</u>	11.08 ^a	<u>94.2</u>
5-10-15 Sulfate				
2194 J. H. Myers, Ewing	5.05	<u>9.70</u>	15.60	100.3
2473 Farmers Cooperative Store, Owensboro	4.98	9.95	<u>14.41</u>	98.5
2609 Jesse Morgan, Smithfield	<u>4.68</u>	12.88	<u>13.21</u> ^b	106.0
6-8-6 Muriate				
2325 Embry Tractor & Supply Co., Shively	<u>5.59</u>	7.85	5.85	<u>95.8</u>
2326 V. J. Shine, Campbellsville	<u>5.90</u>	8.18	6.39	101.1
2607 Ward's Self Service Feed & Seed Store, Centertown	<u>5.49</u>	8.50	6.21	99.2
2727 George Baugh, Valley Station	<u>6.03</u>	7.75	7.53	102.8
2728 Hurst Feed and Supply, Bardstown	<u>5.64</u>	8.25	7.47	102.2
2824 Morgantown Feed Mills, Morgantown	<u>5.67</u>	<u>7.60</u>	6.80	97.5
2886 Leitchfield Transfer, Leitchfield	<u>5.05</u>	<u>8.00</u>	7.33	<u>96.2</u>
2915 C. J. Miracle, Berea	<u>5.74</u>	8.10	6.72	100.4
3099 Bunton Seed Co., Louisville	<u>6.09</u>	7.85	6.86	102.1
6-8-6 Sulfate				
2193 W. E. Martin Store, Mt. Olivet	5.76	7.95	7.11	100.5
2327 George R. Phillips, Campbellsville	5.90	8.10	6.78	101.7
2328 Hal Young Feed Store, Hawesville	<u>5.60</u>	<u>7.53</u>	6.67	<u>96.3</u>
2329 Carl J. Hagman, Cloverport	<u>5.81</u>	<u>7.90</u>	7.29 ^c	101.3
2608 Ward's Self Service Feed & Seed Store, Centertown	5.88	8.10	5.96	99.5

a. Excess muriate equivalent to 4.70% potash

b. Excess muriate equivalent to 1.56% potash

c. Excess muriate equivalent to 0.99% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
NORTH AMERICAN FERTILIZER COMPANY (Cont'd)				
6-8-6 Sulfate (Cont'd)				
2825 Burns Feed Store, Taylorsville	5.87	9.10	6.08	104.7
2887 J. W. Settle Feed Store, Frankfort	5.80	7.85	6.78	99.7
10-6-4 Muriate				
3247 Embry Tractor & Supply Co., Shively	<u>9.74</u>	<u>4.65</u>	6.52	97.9
10-10-10 Muriate				
2606 Sweet Feeds, Henderson	<u>8.50</u>	10.50	10.13	<u>94.4</u>
3142 Shipp's Seed House, Campbellsville	<u>9.50</u>	10.70	<u>9.48</u>	99.0
10-52-17 Muriate				
2323 V. J. Shine, Campbellsville	10.42	52.50	17.70	102.0
2324 Young Seed Store, Hawesville	<u>9.42</u>	52.60	19.48	101.3
20% Superphosphate				
3249 Leitchfield Transfer, Leitchfield	-----	20.20	-----	101.0
48% Sulfate of Potash				
2829 Fletcher Taylor and Sons, Nicholasville	-----	-----	48.48	101.0
OHIO VALLEY FERTILIZER CORPORATION Maysville, Ky.				
0-12-12 Muriate				
2197 T. M. Ruggles, Vanceburg	-----	<u>11.70</u>	<u>11.70</u>	97.5
0-14-14 Muriate with 3% Borax				
2971 Adams & Moore, Cynthiana (1)	-----	<u>12.90</u>	14.70	<u>96.4</u>
2-12-6 Muriate				
2340 Virgil Stallard, Olive Hill	1.95	11.90	6.00	99.0
3-9-6 Sulfate				
2734 Montgomery Feed Store, Grayson	3.21	8.90	6.60	103.1
3-12-12 Muriate				
2478 Howard Wholesale, Allen	3.03	11.85	11.98	99.5
5-10-15 Sulfate				
2477 Farmers Union Supply, Versailles	5.03	10.20	15.31	101.6
2733 Gorman-Brown Hardware, Flemingsburg	5.23	10.05	15.35	102.3
3178 T. P. Black, Augusta	5.10	<u>9.70</u>	15.37	100.1

(1) Boron guaranteed 0.34% — found 0.32%

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
PHILLIPS CHEMICAL COMPANY				
Bartlesville, Oklahoma				
33% Ammonium Nitrate				
2198 Glasgow Trading Center, Glasgow	33.35	-----	-----	101.1
2735 Farmers Cooperative, Madisonville	33.52	-----	-----	101.6
3004 Southern States Owensboro Cooperative, Owensboro	33.32	-----	-----	101.0
PRICE CHEMICAL COMPANY				
Louisville, Ky.				
0-20-20 Muriate				
2739 St. Matthews Produce Exchange, St. Matthews	-----	20.20	20.36	101.3
3146 Leitchfield Transfer Co., Leitchfield	-----	<u>19.25</u>	20.82	98.9
2-12-6 Muriate				
2346 J. A. Murphy, Clementsville	2.31	11.90	6.79	104.2
2614 Ralph & O'Dell, Whitesville	2.26	12.00	7.85	107.3
2615 Charles and Willard Monn, Wellington	2.02	12.20	5.85	100.9
2738 Cahoe & O'Brien, New Haven	2.61	12.20	6.44	107.4
2832 M. B. Fox, Winchester	2.48	<u>11.00</u>	6.94	100.2
3042 Cahoe and O'Brian, New Haven	2.08	12.35	6.50	104.0
3055 Tuxedo Feed Store, Hodgenville	2.51	11.90	7.51	107.9
3122 Monarch Milling Co., Mt. Sterling	2.02	12.60	7.14	106.7
4072 Henderson-Underwood Implement Co., Hopkinsville	2.05	12.40	9.92	113.5
3-9-6 Muriate				
2345 Walker Supply Co., Richmond	3.17	8.85	7.33	104.7
3-12-12 Muriate				
2343 Farmers Feed Mill, Cloverport	3.34	12.50	12.50	105.6
2344 St. Matthews Produce Exchange, St. Matthews	3.32	11.90	12.22	102.2
2737 St. Matthews Produce Exchange, St. Matthews	3.35	12.40	11.93	104.0
2831 Tuxedo Feed Store, Hodgenville	3.31	12.50	12.35	105.1
3121 Monarch Milling Co., Mt. Sterling	3.42	12.70	12.40	106.8
3145 Leitchfield Transfer Co., Leitchfield	2.95	13.20	12.99	107.2
5-10-15 Sulfate				
2342 Walker Supply Co., Richmond	5.62	9.95	15.90	105.3
2479 J. W. Dawson, Lawrenceburg	5.48	9.90	16.54	105.8

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
PRICE CHEMICAL COMPANY (Cont'd)				
5-10-15 Sulfate (Cont'd)				
2480 Jack Shirley, Edmonton	5.22	10.00	16.07 ^a	103.5
2613 C. W. Ashby & Co., Mt. Eden	5.73	9.90	15.80	105.6
2830 A. L. Hazel, Hodgenville	5.26	10.10	15.10	102.2
6-8-8 Muriate				
2736 Cahoe & O'Brian, New Haven	6.09	7.90	8.83	102.1
6-8-8 Sulfate				
2199 J. C. Robinson, Millsburg	6.32	8.05	9.01	104.9
2341 Farmers Feed Mill, Cloverport	6.28	7.75	8.94	103.0
2612 Y. P. Snell, Bowling Green	5.84	9.00	8.33	104.4
20% Superphosphate				
3207 Stockton Brothers, Albany	-----	19.85	-----	99.2
CONSOLIDATED CHEMICAL COMPANY Division of Price Chemical Company Louisville, Ky.				
2-12-6 Muriate				
2269 Farmers Feed Mill, Cloverport	2.38	12.05	7.06	106.4
2874 J. A. Murphy General Store, Clements ville	3.57	11.90	7.99	118.0
3-12-12 Muriate				
3129 Stockton Brothers, Albany	2.94	13.00	12.89	106.0
5-10-15 Sulfate				
2147 Haydon Coal and Oil Co., Springfield	5.29	10.10	15.73	103.6
6-8-8 Sulfate				
2903 Fred Spurlock, Gray Hawk	6.29	<u>7.50</u>	9.34	102.9
A. F. PRINGLE AND COMPANY, INC. Charleston, South Carolina				
3-12-12 Muriate				
2351 Rowan Farmers Supply, Morehead	2.92	12.00	12.21	99.9
2352 Hancock County Farm Supply, Hawesville	3.27	11.90	12.18	101.8
2353 J. A. Murphy, Clementsville	3.24	11.90	12.69	102.7

a. Excess muriate equivalent to 0.32% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
A. F. PRINGLE AND COMPANY, INC. (Cont'd)				
3-12-12 Muriate (Cont'd)				
2483 Southern States Cooperative, Frankfort	2.88	12.30	11.89	100.1
2484 Southern States Cooperative, London	2.89	11.90	13.26	101.6
2485 Southern States Cooperative, Shelbyville	3.16	12.30	12.48	103.5
2741 Southern States Maysville Cooperative, Maysville	3.34	12.50	<u>11.50</u>	103.4
2890 Farmers Supply, Catlettsburg	3.07	12.20	<u>12.23</u>	101.9
5-10-10 Muriate				
2203 Stinson Farm Supply, Horse Cave	4.87	10.40	10.59	102.2
2204 Lincoln County Farm Service, Stanford	4.75	10.10	10.72	100.4
2349 Hancock County Farm Supply, Hawesville	<u>4.64</u>	9.90	10.75	98.8
2350 J. A. Murphy General Store, Clements ville	<u>4.72</u>	10.00	10.60	99.5
2740 Southern States Cooperative, Hopkinsville	5.02	10.30	<u>8.52</u>	98.2
2889 Farmers Supply, Catlettsburg	5.11	10.50	<u>10.12</u>	103.2
5-10-15 Sulfate				
2200 Southern States Carlisle Cooperative, Carlisle	5.33	10.70	14.98	104.8
2201 Lincoln County Farm Service, Stanford	4.93	10.55	15.44	102.7
2202 Southern States Flemingsburg Cooperative, Flemingsburg	5.29	10.60	<u>14.19</u>	102.5
2347 Morgan Farm Store, West Liberty	5.25	11.10	<u>14.70</u>	105.3
2348 Richmond Farm Service, Richmond	4.95	11.00	<u>14.79</u>	103.3
2481 Southern States Shelbyville Cooperative, Shelbyville	5.14	11.10	<u>14.11</u>	103.5
2482 Farmers Exchange, Burksville	5.16	10.70	<u>14.90</u>	103.6
20% Superphosphate				
2972 Southern States Cooperative, Flemingsburg	-----	20.00	-----	100.0
SCHROCK FERTILIZER SERVICE				
Congerville, Illinois				
21% Ammonium Sulfate				
3253 Crafton Brothers and Duncan, Henderson	21.04	-----	-----	100.2

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
SCHROCK FERTILIZER SERVICE (Cont'd)				
60% Muriate of Potash				
2486 Farmers Cooperative Store, Owensboro	-----	-----	59.96	99.9
3254 Crafton Brothers & Duncan, Henderson	-----	-----	60.96	101.6
O. M. SCOTT AND SONS COMPANY Marysville, Ohio				
9-7-4 Muriate				
2892 Jack Dayton and Son, Louisville	<u>7.82</u>	7.60	6.50	100.4
3025 Jack Dayton and Son, Louisville	<u>8.66</u>	7.90	6.42	107.1
3138 Farmers Supply Co., Pikeville	<u>8.47</u>	8.25	5.69	105.8
3250 Jack Dayton and Son, Louisville	<u>9.06</u>	8.00	5.10	107.3
SMITH AGRICULTURAL CHEMICAL COMPANY Indianapolis, Indiana				
4-12-4 Muriate				
2893 Peoples Feed Store, Clay	3.99	11.90	5.46	103.1
SPENCER CHEMICAL COMPANY Kansas City, Missouri				
33.5% Ammonium Nitrate				
2891 Caneyville Salting Co., Caneyville	33.84	-----	-----	101.0
3089 C. E. Herrin, Willailla	33.72	-----	-----	100.6
SWIFT AND COMPANY Plant Food Division National Stock Yards, Illinois				
3-12-12 Muriate				
2837 George Patmor and Son, Marion	3.08	12.00	<u>11.70</u>	99.9
4-8-12 Sulfate				
2205 Farmers Supply, Danville	4.13	8.50	<u>11.64</u>	102.6
2355 Trigg County Trading Co., Cadiz	4.00	8.60	<u>11.98</u>	103.0
2489 J. W. Settle, Frankfort	4.31	8.60	11.83	104.9
2490 Farmers Cooperative Store, Owensboro	4.29	9.00	12.05a	107.3
2743 Cas Prewitt, Mt. Sterling	3.97	8.20	12.09	101.0
2744 Dorvin Henry, Mt. Sterling	3.92	8.90	<u>11.10</u>	101.6
4-12-4 Muriate				
2836 George Patmor and Son, Marion	4.96	12.40	5.21	112.2
4073 Yopp Seed Co., Paducah	3.97	12.00	4.22	100.3

a. Excess muriate equivalent to 0.26% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
SWIFT AND COMPANY (Cont'd)				
4-16-16 Muriate				
2742 Hickman Hardware Co., Hickman	3.60	15.00	19.40	100.3
2835 George Patmor and Son, Marion	4.06	15.90	16.16	100.2
6-8-6 Sulfate				
2354 Trigg County Trading Center, Cadiz	6.26	8.60	6.79 ^a	106.9
2488 J. W. Settle, Frankfort	6.01	8.50	6.39 ^b	103.6
6-10-4 Muriate				
2618 Lester L. Lynd & Sons, Ashland	5.96	10.30	3.94	101.0
4001 Bunton Seed Co., Louisville	5.42	10.25	4.19	97.6
6-12-18 Muriate				
4028 George Patmor and Son, Marion	6.36	12.55	17.64	103.0
12-12-12 Muriate				
2487 Farmers Cooperative Store, Owensboro	11.12	12.90	12.08	98.9
2833 George Patmor and Son, Marion	11.22	13.00	12.09	99.6
2834 George Patmor and Son, Marion	12.04	11.60	11.84	98.8
4027 George Patmor and Son, Marion	11.28	11.35	13.13	96.8
20% Superphosphate				
3179 Farmers Cooperative Store, Owensboro	-----	20.20	-----	101.0
TENNESSEE CHEMICAL COMPANY (See Armour Fertilizer Works).				
TENNESSEE CORPORATION Cincinnati, Ohio, New Albany, Ind.				
0-20-20 Muriate				
2366 Cayce-Yost Co., Hopkinsville	-----	18.68	20.06	95.7
2496 Farmers Cooperative Store, Owensboro	-----	19.95	21.00	101.5
0-20-20 Muriate with 10% Borax				
2497 Spears Kiser, Paris (1)	-----	19.30	20.86	99.1
2898 Mill Springs Supply, Mill Springs (2)	-----	18.95	21.44	98.9
2916 Farmers Supply, Monticello (3)	-----	19.55	19.56	97.8

(1) Boron guaranteed 1.13% — found 1.00%

(2) Boron guaranteed 1.13% — found 1.17%

(3) Boron guaranteed 1.13% — found 1.29%

a. Excess muriate equivalent to 0.86% potash

b. Excess muriate equivalent to 0.26% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
TENNESSEE CORPORATION (Cont'd)				
0-24-24 Muriate				
2214 Milton Meers, Vine Grove	-----	24.30	<u>23.44</u>	100.0
2215 Ice's Produce, Bardstown	-----	23.75	<u>24.70</u>	100.3
2944 Ice's Produce, Bardstown	-----	<u>22.90</u>	<u>21.98</u>	<u>94.1</u>
2-12 6 Muriate				
2364 Cayce-Yost Co., Hopkinsville	2.31	12.60	7.15	109.1
2365 Campbellsville Milling Co., Campbellsville	2.04	12.10	6.10	101.2
2495 H. R. Squares, Greensburg	2.33	14.15	6.73	116.7
2897 Leitchfield Transfer Co., Leitchfield	2.12	12.50	6.44	105.0
3027 I. K. Miller and Son, Campbellsville	2.14	12.80	6.40	106.7
3056 Cooper Brothers Feed Store, Elizabethtown	1.99	12.65	6.47	104.8
3195 Ice's Produce, Bardstown	2.09	12.80	6.67	107.0
3209 H. R. Squares, Greensburg	2.02	12.50	6.65	104.8
4078 A. Ray Dyer, McQuady	2.06	12.60	6.63	105.6
3-12-12 Muriate				
2213 Ice's Produce, Bardstown	3.21	11.85	12.80	102.5
2493 Spears Kiser, Paris	3.36	12.00	12.08	102.6
2494 Walters and Thompson, Shelbyville	3.15	12.00	12.64	102.4
2840 Walters and Thompson, Shelbyville	3.08	<u>11.70</u>	12.58	100.5
2896 Cooper Brothers Feed Store, Elizabethtown	2.94	12.60	11.95	102.2
3184 Sam Ryle, Burlington	3.12	12.10	12.75	102.9
4-12-8 Sulfate				
2492 H. R. Squares, Greensburg	4.06	<u>10.70</u>	8.93	<u>96.6</u>
2751 Cayce-Yost, Hopkinsville	3.92	<u>11.65</u>	8.49	<u>99.0</u>
2838 L and R Feed Store, Owenton	4.09	<u>11.30</u>	8.60 ^a	98.8
2839 D. B. Saylor, Mt. Vernon	3.90	<u>11.60</u>	8.24	98.3
4-24-12 Muriate				
2212 Milton Meers, Vine Grove	3.99	<u>23.15</u>	12.92	98.9
4077 Milton Meers, Vine Grove	<u>3.72</u>	<u>24.80</u>	12.41	101.6
5-10-10 Muriate				
2210 Ice's Produce, Bardstown	4.99	<u>9.70</u>	10.71	100.2
5-10-10 Sulfate				
2211 Davis Gillispie, Flemingsburg	5.35	9.90	10.81	103.7
2750 Ice's Produce, Bardstown	5.15	10.20	11.66	105.6

a. Excess muriate equivalent to 0.32% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
TENNESSEE CORPORATION (Cont'd)				
5-10-15 Sulfate				
2208 Davis Gillispie, Flemingsburg	4.88	10.10	15.06	99.8
2209 Haydon Mill and Grain Co., Springfield	4.86	10.15	15.34	100.4
2491 F. E. Boone, Lexington	5.16	10.40	15.48	103.5
2749 Farmers Supply Co., Monticello	<u>4.71</u>	10.35	14.95 ^a	99.6
10-10-10 Muriate				
2207 Milton Meers, Vine Grove	10.06	10.15	10.24	101.2
20% Superphosphate				
2367 Campbellsville Milling Co., Campbellsville	-----	20.00	-----	100.0
2498 H. R. Squares, Greensburg	-----	20.65	-----	103.2
2841 D. B. Saylor, Mt. Vernon	-----	20.00	-----	100.0
3185 Sam Ryle, Burlington	-----	20.30	-----	101.5
46% Superphosphate				
2216 Somerset Seed Co., Somerset	-----	46.05	-----	100.1
48% Sulfate of Potash				
2217 Davis Gillispie, Flemingsburg	-----	-----	48.48	101.0
2218 Washington Farm Service, Springfield	-----	-----	50.24	104.7
2500 Spears Kiser Paris	-----	-----	48.44	100.9
2622 Southern States Owenton Cooperative, Owenton	-----	-----	49.78	103.7
50% Sulfate of Potash				
2843 Southern States Cooperative, Shelbyville	-----	-----	50.48	101.0
2844 J. K. Miller, Campbellsville	-----	-----	<u>47.60</u>	<u>95.2</u>
60% Muriate of Potash				
2499 Spears Kiser, Paris	-----	-----	60.40	100.7
2842 Walters and Thompson, Shelbyville	-----	-----	<u>59.72</u>	99.5
2973 Walters and Thompson, Shelbyville	-----	-----	<u>59.12</u>	98.5
U. S. PHOSPHORIC PRODUCTS Division of Tennessee Corporation Tampa, Florida				
46% Superphosphate				
2219 A. P. Beauchamp, Leitchfield	-----	<u>45.50</u>	-----	98.9

a. Excess muriate equivalent to 0.52% potash

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
TENNESSEE PLANT FOOD COMPANY Clarksville, Tenn.				
0-12-12 Muriate 2752 Southern States Cooperative, Hopkinsville	-----	12.55	12.34	104.0
U. S. PHOSPHORIC PRODUCTS (See Tennessee Corporation)				
UNITED STATES STEEL COMPANY Pittsburgh, Pennsylvania				
20.6% Ammonium Sulfate 2388 Farmers Service Store, Hardinsburg	21.04	-----	-----	102.1
VALLEY COUNTIES OF KENTUCKY COOPERATIVE Murray, Ky.				
0-30-30 Muriate 2220 Southern States Cooperative, Glasgow	-----	31.90	<u>27.10</u>	101.0
2369 Ballard County Cooperative, LaCenter	-----	34.23	<u>24.56</u>	103.2
2623 Bugg Brothers Feed and Supply, Clinton	-----	<u>28.98</u>	30.40	<u>98.2</u>
2917 Ballard County Cooperative, LaCenter	-----	31.70	<u>29.00</u>	102.7
2945 Glasgow Southern States Cooperative, Glasgow	-----	32.20	<u>27.84</u>	102.5
3092 Southern States Clinton Cooperative, Clinton	-----	32.65	<u>28.12</u>	103.8
3256 Valley Counties of Kentucky Cooperative, Murray	-----	30.65	30.70	102.2
46% Superphosphate				
2846 Graves County Soil Association, Mayfield	-----	47.00	-----	102.2
3186 Canary Supply Co., Hartford	-----	46.10	-----	100.2
47% Superphosphate				
2624 Graves County Soil Association, Mayfield	-----	48.03	-----	102.2
4082 Southern States Cooperative, Hopkinsville	-----	47.20	-----	100.4
48% Superphosphate				
3258 Calloway County Soil Improvement Association, Murray	-----	<u>47.16</u>		<u>98.2</u>

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
VALLEY COUNTIES OF KENTUCKY COOPERATIVE (Cont'd)				
61% Calcium Metaphosphate 3257 Valley Counties of Kentucky Cooperative, Murray	-----	61.30	-----	100.5
50% Sulfate of Potash 2946 Ballard County Cooperative, LaCenter	-----	-----	46.36	92.7
3093 Valley Counties of Kentucky Cooperative, Murray	-----	-----	48.44	96.9
60% Muriate of Potash 2626 Marshall County Soil Improvement Association, Benton	-----	-----	61.92	103.2
2918 Ballard County Cooperative, LaCenter	-----	-----	60.08	100.1
3259 Valley Counties of Kentucky Cooperative, Murray	-----	-----	60.04	100.1
VIRGINIA-CAROLINA CHEMICAL CORPORATION Cincinnati, O., Mt. Pleasant, Tenn.				
0-12-12 Muriate 2637 R. E. Woods & Co., Webbville	-----	11.90	11.91	99.2
2757 Robinson Implement & Motor Co., Princeton	-----	12.50	11.90	102.5
2975 Stagg Brothers, Vanceburg	-----	12.80	12.32	105.3
3028 Dudgeon & Robinson, Campbellsville	-----	12.60	12.82	105.6
0-14-7 Muriate 2372 W. L. Rogers & Son, Columbia	-----	14.40	7.38	103.4
0-20-20 Muriate 2511 Elford Hays, Russell Springs	-----	19.85	19.96	99.4
2-12-6 Muriate 2510 Knox County Supply, Barbourville	2.07	12.25	6.21	102.6
2634 Grayson Milling Co., Grayson	2.70	12.20	6.48	108.3
2635 Sam Nahm, Bowling Green	2.16	12.40	6.26	104.3
2636 Miss Agnes Davis, Russellville	2.07	11.90	6.68	101.9
2947 Grigsby and Co., Bardstown	2.21	12.20	6.75	104.9
2974 Stagg Brothers, Vanceburg	2.30	12.15	7.84	108.4
4030 Farmers Supply Co., Morganfield	2.05	12.80	7.06	107.8
4084 Hopkinsville Implement Co., Hopkinsville	2.02	11.75	7.22	102.2

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer S lts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
VIRGINIA-CAROLINA CHEMICAL CORPORATION (Cont'd)				
3-9-6 Muriate				
2509 Francis Wholesale Co., Prestonsburg	3.31	9.80	6.21	108.3
2633 R. E. Woods & Co., Webbville	3.46	<u>8.60</u>	6.35	102.8
3-9-18 Muriate				
2508 Bisset and Cummins, Harrodsburg	3.50	9.65	<u>17.00</u>	104.0
3-12-12 Muriate				
2224 Grisby and Co., Bardstown	3.14	12.15	12.46	102.6
2225 Oscar Buis, Eubank	3.07	12.50	11.80	102.2
2899 Elford Hayes, Russell Springs	3.12	12.05	12.38	101.9
2921 Shelbyville Feed and Seed Co., Shelbyville	3.11	<u>11.30</u>	11.98	<u>97.6</u>
3043 Grigsby and Co., Bardstown	2.95	<u>12.35</u>	12.64	<u>102.6</u>
4083 Farmers Supply Co., Morganfield	3.22	11.90	12.75	102.7
3-12-12 Muriate 3, Sulfate 9				
2507 Shelbyville Feed and Seed Co., Shelbyville	3.25	12.25	11.85	102.4
2632 Miss Agnes Davis, Russellville	3.16	12.03	12.34	102.0
4-12-8 Muriate				
2630 Young Lumber Co., Beaver Dam	4.20	<u>11.67</u>	8.27	100.5
2756 Hopkinsville Implement Co., Hopkinsville	4.22	<u>11.20</u>	7.90	97.6
3057 Hardin Company Mills, Elizabethtown	3.98	12.15	8.36	101.4
4029 Farmers Supply Co., Morganfield	4.16	<u>11.70</u>	8.40	100.6
4-12-8 Sulfate				
2631 Miss Agnes Davis, Russellville	4.04	11.80	8.79	101.2
2850 Shelbyville Feed and Seed Co., Shelbyville	4.27	12.05	8.95	104.2
5-10-10 Muriate				
2222 Grigsby and Co., Bardstown	4.93	10.20	10.43	101.4
2505 Shelbyville Feed and Seed Co., Shelbyville	5.13	10.10	11.11	103.8
2755 Robinson Implement & Motor Co., Princeton	4.85	9.90	10.04	98.6
2920 Shelbyville Feed and Seed Co., Shelbyville	4.93	11.35	10.03	105.6
5-10-10 Sulfate				
2223 Mayes and Helm, Perryville	5.07	10.15	10.80	102.9
2506 Woodford Spears, Paris	5.09	9.90	10.30	100.8
2629 Greenup Milling Co., Greenup	5.07	<u>9.50</u>	10.30	98.9

TABLE 8. - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July - December, 1953 ---- Continued

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
VIRGINIA-CAROLINA CHEMICAL CORPORATION (Cont'd)				
5-10-16 Sulfate				
2502 Knox County Supply, Barboursville	4.69	11.15	15.16	101.0
2503 Anderson Ice Co., Lawrenceburg	4.86	10.70	16.16	102.2
2504 Woodford Spears and Son, Paris	4.91	10.70	16.15	102.5
2754 Southern States Maysville Cooperative, Maysville	4.99	10.25	15.93	100.8
6-8-6 Muriate				
2847 Farmers Supply, Mayfield	5.78	8.40	6.13	100.7
2848 U. L. Rogers and Sons, Columbia	5.69	8.80	6.16	102.1
6-8-6 Sulfate				
2221 Mayes and Helm, Perryville	5.81	7.95	6.32	99.1
2371 W. L. Rogers and Son, Columbia	5.55	7.70	6.42	96.2
2501 Woodford Spears, Paris	5.59	9.05	6.48 ^a	103.4
2627 Young Lumber Co., Beaver Dam	5.62	7.75	6.52	97.2
2628 H. T. Roberts, Frenchburg	5.82	8.40	6.21	101.2
2849 Sam Nahm, Bowling Green	5.74	8.00	6.58	99.5
10-10-10 Muriate				
2370 Hopkinsville Implement Co., Hopkinsville	9.32	10.40	10.02	98.0
2753 Robinson Implement and Motor Co., Princeton	9.72	10.20	10.23	99.6
2919 Shelbyville Feed and Seed Co., Shelbyville	9.38	11.20	10.50	101.7
16% Nitrate of Soda				
2374 Madison Farmers Supply, Richmond	15.96	-----	-----	99.8
20% Superphosphate				
2226 Oscar Buis, Eubank	-----	21.00	-----	104.6
2373 Farmers Service Store, Hardinsburg	-----	20.30	-----	101.5
2922 Jay R. Miller, Louisa	-----	21.30	-----	106.5
2948 Grigsby and Co., Bardstown	-----	20.80	-----	104.0
2976 Stagg Brothers, Vanceburg	-----	21.20	-----	105.2
3029 U. L. Rogers and Son, Columbia	-----	19.90	-----	99.5

a. Excess muriate equivalent to 0.40% potash

TABLE 9. -Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate - July - December, 1953

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Phosphoric Acid				Percent of Guar. Relative Value Found
	Available		Total		
	Guar.	Found	Guar.	Found	
AMERICAN AGRICULTURAL CHEMICAL COMPANY, CINCINNATI, OHIO					
Rock Phosphate					
2640 Elizabethtown Fertilizer Co., Elizabethtown	3.00	3.30	30.00	30.40	101.3
2980 Felty Produce Company, Beaver Dam	3.00	3.35	30.00	30.00	100.0
AMERICAN CYANAMID COMPANY, NEW YORK, N. Y.					
Rock Phosphate					
2760 Farm and Home Store, Prestonsburg	3.00	3.60	33.00	33.10	100.3
ASSOCIATED COOPERATIVE, INC., SHEFFIELD, ALABAMA					
Fused Tricalcium Phosphate					
2400 Metcalfe Farmers Supply, Edmonton	16.00	16.98	28.00	28.60	104.4
2770 Southern States Cooperative, Owenton	16.00	15.80	28.00	28.10	99.4
2771 Allen County Farmers Service, Scottsville	16.00	17.40	28.00	28.65	105.9
2956 Farmers Supply Co., Monticello	16.00	15.95	28.00	27.95	99.8
3064 Hadden Farm & Home Service Elkton	16.00	19.45	28.00	28.30	112.6
INTERNATIONAL MINERAL AND CHEMICAL CORPORATION, CINCINNATI, OHIO, SOMERSET, KY.					
Rock Phosphate					
2311 W. P. Burchett, Morehead	----	----	31.00	31.40	101.3
THOMSON PHOSPHATE DIVISION, CHICAGO, ILLINOIS INTERNATIONAL MINERALS AND CHEMICAL CORPORATION					
Rock Phosphate					
2845 George Patmor & Son, Marion	3.00	2.90	30.00	30.70	101.8
4079 George Patmor & Son, Marion	3.00	2.40	30.00	30.40	101.3
RUHM PHOSPHATE AND CHEMICAL COMPANY, MT. PLEASANT, TENN.					
Rock Phosphate					
2617 Farmers Supply Company, Henderson	3.00	3.70	30.00	30.35	101.2
2943 Bakers Phosphate & Fertilizer Co., Owensboro	3.00	2.90	30.00	30.40	100.9

TABLE 9. - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate - July - December, 1953

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Phosphoric Acid		Total		Percent of Guar. Relative Value Found
	Available Guar. Found	Guar. Found	Guar. Found	Guar. Found	
SCHROCK FERTILIZER SERVICE, CONGERVILLE, ILL.					
Rock Phosphate					
3251 Shaffer Phosphate Service, Sturgis	----	----	33.00	33.20	100.6
3252 Crafton Brothers and Duncan, Henderson	----	----	33.00	33.50	101.5
TENNESSEE COAL, IRON, AND R. R. COMPANY, DIV. U. S. STEEL CORPORATION, BIRMINGHAM, ALABAMA					
Basic Slag					
2621 Graves County Soil Association, Mayfield	----	----	8.00	8.80	110.0
3026 Shipp's Seed House, Campbellsville	----	----	8.00	11.90	148.8
THOMPSON SALES COMPANY, MONTGOMERY, ALABAMA					
Soft Phosphate with Colloidal Clay					
4080 Somerset Seed Company, Somerset	2.00	2.10	20.00	20.20	101.0
4081 W. P. Moss, Munfordville	2.00	2.60	20.00	19.90	99.5
THOMSON PHOSPHATE (See International Minerals and Chemical Corporation)					
VALLEY COUNTIES OF KENTUCKY COOPERATIVE, MURRAY, KY.					
Fused Tricalcium Phosphate					
2625 Hutson Chemical Co., Murray	16.00	18.60	28.00	28.55	110.0

TABLE 10. Analyses of Inspection Samples of Bones, Dried Manures, etc.
July-December 1953

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Percent of Guar. Relative Value Found
ARMOUR FERTILIZER WORKS, CINCINNATI, O., NASHVILLE, TENN., & JEFFERSONVILLE, IND.				
1. 25-1-2 Sheep Manure				
4090 Harralson Seed Company, Owensboro	1.38	1.30	2.05	111.5
THE SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE, MILWAUKEE, WIS.				
6-2. 75-0 Milorganite				
4000 Dixie Lawn Supply, Louisville	5.72	3.80	-----	99.2
4071 Yopp Seed Co., Paducah	5.68	3.70	-----	98.2