

Commercial Fertilizers in Kentucky, 1952

Including a Report on Official Fertilizer Samples
Analyzed

July — December, 1952



Kentucky Agricultural Experiment Station
University of Kentucky
Lexington

FEED AND FERTILIZER DEPARTMENT
KENTUCKY AGRICULTURAL EXPERIMENT STATION

Bruce Poundstone, Head of Department

FIELD INSPECTION

Robert Mathews **Clay W. Ratliff N. J. Howard
Neville Hulette **Arvy G. Sims Josiah E. Anderson
*Elmer B. Stephenson

LABORATORY

Harry R. Allen J. A. Shrader Lelah Gault
Valva Midkiff *Elizabeth Swift Rose Blanchet
*Rodney M. Hays Rose J. Ruh Robert N. Price

CONTENTS

	Page		Page
Sales by grade, 1952		Explanation of Tables 3,	
Table 1 -----	3	4, 5, and 6 -----	8
Fertilizer used in Kentucky,		Standing of manufacturers,	
1918-52, Table 2 -----	4	Table 3A -----	9
Plant foods or nutrients -----	5	Standing of manufacturers,,	
Fertilizer grade -----	5	Table 3B -----	11
Number of grades needed		Analyses of inspection	
in Kentucky -----	5	samples of mixed ferti-	
Refunds -----	6	lizers, superphosphates	
Farmers' samples -----	6	and fertilizer salts,	
Fertilizer guaranty -----	7	Table 4 -----	13
Penalties for violating the		Analyses of inspection	
fertilizer law -----	7	samples of rock phos-	
		phate, bones, basic	
		slag, etc. Table 5 -----	57
		Analyses of inspection	
		samples of bones, dried	
		manures, etc. Table 6 -----	58

* Resigned during 1952
** Employed December 1, 1952

COMMERCIAL FERTILIZERS IN KENTUCKY, 1952

This bulletin contains analyses of official samples of commercial fertilizers made between July 1 and December 31, 1952. Analyses of samples made between January 1, 1952 and June 30, 1952 were published in Regulatory Bulletin 101.

Manufacturers reported that 618,332 tons of commercial fertilizer were sold in Kentucky in 1952. This was an increase of about 9.6 percent over the tonnage reported for 1951. In addition, 2,040 tons of 20-percent superphosphate were distributed in Kentucky under the "Contractual Plan" by the Production and Marketing Administration, Field Service Branch.

SALES BY GRADE, 1952

A summary of fertilizer sales by grade, as reported by manufacturers, is given in Table 1. Fertilizer sold in Kentucky, by grade, Jan. 1 to Dec. 31, 1952.

Grade	Tons	Materials	Tons
6-8-6	90,613	20% Superphosphate	46,200
2-12-6	70,737		
3-12-12	53,056	Ammonium Nitrate	26,927
3-9-6	50,815		
4-12-8	50,041	Rock Phosphate	18,352
0-12-12	28,541		
4-8-12	22,672	Triple Superphosphate	10,667
5-10-10	21,011		
3-12-6	14,891	Sulfate of Potash	6,935
5-10-16	11,685		
0-14-7	9,679	Muriate of Potash	4,878
5-10-15	7,047		
8-8-8	5,117	Calcium Metaphosphate	4,229
0-20-20	5,079		
6-8-12	4,670	18% Superphosphate	3,935
6-12-12	4,537		
0-14-14	4,370	Calcium Cyanamid	3,838
4-12-4	4,343		
6-8-8	3,579	Tricalcium Phosphate	3,003
4-8-16	2,255		
4-6-15	1,841	Nitrate of Soda	2,253
4-12-12	1,651		
4-16-16	1,437	Florida Waste Pond Phosphate	1,654
6-8-16	1,297		
5-10-5	1,085	Sulfate of Ammonia	1,418
3-9-18	1,080		
7-12-12	982	Sulfate of Potash-Magnesia	1,081
10-10-10	897		
4-24-12	841	Ammonium Nitrate Limestone	707
4-16-8	552		
0-30-30	461	Basic Slag	701
5-20-20	457		
3-18-9	398	Anhydrous Ammonia	482
12-12-12	326		
0-10-20	285	Dried Manures	410
10-6-4	242		
4-8-8	181	Other Nitrogen Solutions	111
0-24-24	173		
3-18-12	148	Miscellaneous	66
4-10-6	139		
4-4-16	125	Total	137,847
6-12-18	111		
Miscellaneous	1,038		
Total	480,485		

TABLE 2.--FERTILIZER USED IN KENTUCKY, 1918-52

Year	Fertilizer purchased ^a	AAA 20-percent superphosphate or equivalent	Total fertilizer
	Tons	Tons	Tons
1918.....	134,000	.....	134,000
1919.....	102,000	.....	102,000
1920.....	88,000	.....	88,000
1921.....	62,131	.....	62,131
1922.....	85,203	.....	85,203
1923.....	90,958	.....	90,958
1924.....	85,000	.....	85,000
1925.....	93,000	.....	93,000
1926.....	91,500	.....	91,500
1927.....	70,000	.....	70,000
1928.....	92,000	.....	92,000
1929.....	93,000	.....	93,000
1930.....	114,000	.....	114,000
1931.....	105,000	.....	105,000
1932.....	55,000	.....	55,000
1933.....	58,000	.....	58,000
1934.....	62,000	.....	62,000
1935.....	73,000	.....	73,000
1936.....	89,000	.....	89,000
1937.....	117,078	18,000	135,078
1938.....	110,201	33,000	143,201
1939.....	119,400	37,000	156,400
1940.....	123,090	41,500	164,590
1941.....	121,975	187,481 ^b	309,456
1942.....	146,416	221,171 ^b	367,587
1943.....	164,016	105,272	269,288
1944.....	246,168	67,000	313,168
1945.....	282,000	119,820 ^c	401,820
1946.....	328,800	44,205	373,005
1947.....	465,500	36,515	502,015
1948.....	554,058	38,580	592,638
1949.....	501,300	36,293	537,593
1950.....	607,168	11,872	619,040
1951.....	564,204	5,320	569,524
1952.....	618,332	2,040	620,372

a Calculated from stamp receipts, 1918 through 1950. 1951 and 1952 based upon reports from manufacturers

b Includes 58,000 tons of 47-percent triple superphosphate in 1941, and 12,367 tons in 1942

c The AAA also distributed 8,800 tons of rock phosphate in 1945

Commercial Fertilizers In Kentucky, 1952

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 to be 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 4-16-8 grade means that the fertilizer contains 4 percent nitrogen, 16 percent available phosphoric acid, and 8 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 Departments of Agronomy and Horticulture of the Kentucky Agricultural Experiment Station consider that eleven 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 recommended by the Agronomy Department for field crops is shown below:

<u>Ratio</u>	<u>Minimum grade</u>	<u>Ratio</u>	<u>Minimum grade</u>
0-1-2	0-10-20	1-3-2	4-12-8
0-1-1	0-12-12	1-2-2	5-10-10
0-2-1	0-14-7	1-1-1	8-8-8
1-4-4	3-12-12	1-2-3	4-8-12
1-4-2	4-16-8		

Two additional grades, recommended by the Horticultural Department for truck crops and ornamental plants, are 5-10-5 and 10-6-4.

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 the following cropping uses of the recommended minimum grades:

For general field crops, meadows and pastures, 4-12-8, 4-16-8, 8-8-8, 3-12-12, 0-14-7, 0-12-12 and 0-10-20.

COMMERCIAL FERTILIZERS IN KENTUCKY, 1952

For tobacco 8-8-8, 5-10-10, 4-8, 12.

It is further recommended that in fertilizers for tobacco three-fourths of the potash be from sulfate and not over one-fourth from muriate.

More detailed suggestions for fertilizing field crops, using the above ratios and minimum grades, are contained in the new 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 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, include a tag from one of the bags, 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.

Commercial Fertilizers in Kentucky, 1952

FERTILIZER GUARANTY

The statute regulating the sale of commercial fertilizers in Kentucky was amended at the last 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 3, 4, 5 AND 6

The standings of manufacturers as determined by the results of analysis of official samples are given in Table 3. 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 3 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 with in 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 over-run 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 4, 5 and 6. 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 3-A - Samples Equal to Guaranty in All Respects, And Analyses Within Tolerance, By Companies Selling Chiefly Mixed Fertilizers, 1952

	Number of inspection samples	Equal to guaranty in all respects		Number of analyses made	Equal to guaranty or within tolerance ***	
		Number	Percent**		Number	Percent **
					Nitrogen, Phosphoric acid & Potash	
American Agricultural Chem. Co.	88	60	68	231	211	91
Apco Fertilizer Company	2	2	-	6	6	-
Armour Fertilizer Works Louisville Fertilizer Co.	339	186	55	865	759	88
Tennessee Chemical Company	4	2	-	11	9	-
Blue Grass Plant Foods, Inc.	20	12	60	49	42	86
Buhner Fertilizer Company	41	29	71	111	100	90
Burley Belt Plant Food Works	40	13	33	110	94	85
Chemical Formulators	35	21	60	101	94	93
Commonwealth Fertilizer Company	4	0	-	12	7	-
Consolidated Chemical Company (See Price Chemical Co.)	29	24	83	79	76	96
Cooperative Fertilizer Service	161	143	89	424	418	99
Cumberland Chemical Company	36	28	78	88	82	93
Davison Chemical Corporation						
Hopkins Fertilizer Div. Nashville Div. Welsh Div.	66	50	76	183	171	93
	157	75	48	388	317	82
	5	1	20	14	10	71
Federal Chemical Company	161	76	47	434	363	84
Hutson Chemical Company	9	3	33	25	20	80
International Min. & Chem. Corp.	111	77	69	269	244	91
Interstate Fertilizer Company	29	21	72	70	65	93
Kentucky Fertilizer Works	37	13	35	102	85	83
Knoxville Fertilizer Company	164	101	62	437	382	87
Louisville Fertilizer Company (See Armour Fertilizer Works)						
Missouri Plant Food Company	7	6	86	18	17	94

Table 3-A (Continued)

North American Fertilizer Company	102	27	26	270	190	70
Ohio Valley Fertilizer Corp.	6	3	50	16	12	75
Price Chemical Company	57	38	67	158	144	91
Consolidated Chemical Co.	12	6	50	36	34	94
O. M. Scott & Sons Company	3	3	-	9	9	-
Smith Agricultural Chemical Co.	3	0	-	9	7	-
Swift & Company, Plant Food Div.	47	19	40	140	123	88
Tennessee Chemical Company (See Armour Fertilizer Works)						
Tennessee Corporation	90	50	56	244	223	91
Virginia-Carolina Chemical Corp.	113	84	74	290	270	93
Totals, Table 3-A	1978	1173	59	5199	4584	88

* All samples of the above companies are in this table.

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

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

Table 3-B - Samples Equal to Guaranty in All Respects, and Analyses Within Tolerance, By Companies Selling Chiefly Straight Fertilizers, 1952

	Number of inspection samples		Equal to guaranty in all respects		Number of analyses made	Equal to guaranty or within tolerance***	
	Number	Percent**	Number	Percent**		Number	Percent**
Allied Dye & Chemical Corp.							
Nitrogen Division	5	100	5	100	5	5	100
American Cyanamid Company	12	100	12	100	17	17	100
Associated Cooperatives	34	88	30	88	40	37	93
Chilean Nitrate Sales Corporation	2	-	2	-	2	2	-
Covington Fertilizer Company	4	-	3	-	4	4	-
Lion Oil Company	3	-	3	-	3	3	-
Mid-South Chemical Company	2	-	2	-	2	2	-
Midwestern Phosphate Corporation	3	-	2	-	4	2	-
National Tube Co. (See U. S. Steel)							
Nitrogen Division							
(See Allied Dye & Chemical Corp.)							
Phillips Chemical Company	2	-	2	-	2	2	-
A. F. Pringle Company	8	38	3	38	8	5	63
Robin Jones Phosphate Company	3	-	3	-	5	5	-
Ruhm Phosphate & Chemical Company	3	-	2	-	3	2	-
Schrock Fertilizer Service	6	83	5	83	6	6	100
Sewage Commission of City of Milwaukee	2	-	1	-	4	3	-
Spencer Chemical Company	5	100	5	100	5	5	100
Tennessee Coal, Iron & R. R. Co. (See U. S. Steel)							
Tennessee Plant Food Company	21	43	9	43	24	13	54
Thompson Sales Company	2	-	1	-	2	1	-
Thomson Phosphate Company							
Dept. of International Min. & Chemical Corporation	4	-	3	-	4	3	-
U. S. Phosphoric Corporation, Div. of Tennessee Corp.	3	-	3	-	3	3	-

Commercial Fertilizers in Kentucky, 1952

TABLE 4 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1952

Analyses deficient by more than one-fourth of one percent and relative values deficient by more than \$1.00 per ton are underlined. Footnotes are given when the guarantee for sulfate was not met.

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ALLIED CHEMICAL & DYE CORP.					
Nitrogen Division, New York, N. Y.					
Nitrate of Soda 16% Arcadian					
286 Southern States Co-op, Owensboro	16.20	.....	.....	48.0	48.6
20.50% Ammonium Nitrate Limestone					
990 G. M. Sandidge, Eubanks	20.84	.....	.....	41.0	41.7
THE AMERICAN AGRICULTURAL CHEMICAL CO.					
Cincinnati, Ohio					
6-8-6 (Sulfate)					
169 Roberts Bros., Burlington	5.87	8.40	6.55	35.6	36.4
6-8-6 (Muriate 3, Sulfate 3)					
252 Denton Hardware Co., Madisonville	<u>5.73</u>	8.80	5.91	35.6	35.9
4-12-8 (Muriate)					
939 Norris Hdwe. & Seed Co., Henderson	4.07	12.25	8.18	38.4	39.0
4-12-8 (Sulfate)					
253 Carroll Co. Farm Bureau, Carrollton	4.15	11.90	8.09	38.4	38.8
4-8-12 (Sulfate)					
170 Bedford & Tuttle, Winchester	3.80	9.00	<u>11.65</u>	37.6	38.1
254 Carroll Co. Farm Bureau, Carrollton	3.92	8.20	<u>11.99</u>	37.6	37.7
255 Douglas McLoney, Cynthia	3.99	8.35	11.91	37.6	37.9
3-12-12 (Muriate)					
256 Douglas McLoney, Cynthia	3.06	12.05	12.05	40.4	40.6
511 Dairman's Supply Co., Mayfield	2.97	11.95	<u>11.72</u>	40.4	40.0
673 A. T. Hayes & Son, Glendale	3.04	12.30	<u>12.43</u>	40.4	41.3
829 J. W. Davidson, Science Hill	2.95	12.20	12.56	40.4	41.1
850 Walters & Thompson, Shelbyville	3.01	11.95	12.13	40.0	40.5
981 Baughman Milling Co., Stanford	2.97	12.05	11.97	40.4	40.4
2-12-6 (Muriate)					
257 Denton Hdwe. Co., Madisonville	2.14	12.30	5.95	32.4	33.0
258 Lebanon Carriage & Implement Co., Lebanon	1.90	<u>11.58</u>	6.17	32.4	31.9
674 A. T. Hayes & Son, Glendale	1.99	<u>12.10</u>	6.38	32.4	32.9
692 Carroll Co. Farm Bureau, Carrollton	1.78	11.83	6.63	32.4	32.4

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
THE AMERICAN AGRICULTURAL CHEMICAL CO. (Cont'd.)					
2-12-6 (Muriate) (Cont'd.)					
731 Lebanon Carriage & Implement Co. Lebanon	1.97	11.55	6.60	32.4	32.4
802 John A. Sheehan, Falmouth	2.01	11.90	6.55	32.4	32.8
830 Farmers Supply Co., Somerset	2.09	12.00	6.65	32.4	33.2
860 Lauder Hdwe. Co., Lafayette	2.03	12.20	6.13	32.4	32.8
940 Norris Hdwe & Seed Co., Henderson	2.03	11.55	6.19	32.4	32.1
0-12-12 (Muriate)					
171 J.H. Fedders, Inc., Covington	....	12.20	12.24	32.4	32.9
259 Carroll Co. Farm Bureau, Carrollton ...	....	12.15	12.20	32.4	32.8
512 Monarch Milling Co., Mt. Sterling	....	12.10	11.93	32.4	32.5
513 Mackey's General Store, Utica	....	12.10	12.56	32.4	33.1
0-10-20 (Muriate)					
693 Carroll Co. Farm Bureau, Carrollton ....	....	9.95	20.74	38.0	38.7
18% Superphosphate					
260 Farmers Supply Co., Harrodsburg	....	18.50	....	23.4	24.1
261 Douglas McLoney, Cynthiana	....	17.95	....	23.4	23.3
675 A. T. Hayes & Son, Glendale	....	18.22	....	23.4	23.7
732 Lebanon Carriage & Implement Co., Lebanon	....	18.80	....	23.4	24.1
694 Carroll Co. Farm Bureau, Carrollton ...	....	18.60	....	23.4	24.2
851 Crab Orchard Lumber Co. Crab Orchard	....	19.00	....	23.4	24.7
861 Lauder Hdwe. Co., Lafayette	....	18.85	....	23.4	24.5
AMERICAN CYANAMID CO. New York, New York					
33.50% Ammonium Nitrate "Aeroprills"					
263 Southern States Co-op, Lexington	33.88	.....	....	67.0	67.8
1069 Woodson Lewis, Greensburg	33.96	....	....	67.0	67.9
20% Cyanamid Granular "Aero Brand"					
264 Southern States Co-op, Owensboro	20.24	....	....	48.0	48.6
601 Caulke Hdwe. #3, Campbellsville	20.44	....	....	48.0	49.1
695 N. T. Nuckols, Elkton	20.36	....	....	48.0	48.9

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ARMOUR FERTILIZER WORKS					
Cincinnati, O., Nashville, Tenn., Jeffersonville, Ind.					
12-12-12 (Muriate) "Big Crop Brand"					
941 T.J. Turley Co., Owensboro	<u>11.19</u>	12.40	11.82	58.4	<u>57.1</u>
10-8-6 (Muriate) "Vertagreen"					
581 Owen Ayers, Morgantown	<u>8.54</u>	9.25	5.96	43.6	<u>42.1</u>
10-6-4 (Muriate) "Big Crop Brand"					
862 Princeton Mills, Princeton	<u>9.43</u>	6.50	4.07	39.2	38.7
6-8-6 (Muriate) "Big Crop Brand"					
515 Nu Hdwe. & Service Station, Island	5.97	8.50	6.11	35.6	36.3
696 Geo. Patmore & Son, Marion	5.86	8.20	6.68	35.6	36.2
863 Princeton Mills, Princeton	<u>5.43</u>	9.65	5.93	35.6	36.4
6-8-6 (Sulfate) Armour's					
172 W. C. Dicken, Mentor	6.00	8.80	6.35	35.6	36.9
265 Sewell & Co., Waterview	6.06	8.70	7.53 ^a	35.6	38.1
266 Lowe's Feed Store, Austin	5.82	8.30	5.92	35.6	35.5
418 J.R. Williams Hdwe., Beaver Dam	6.26	8.65	7.71 ^b	35.6	38.6
5-20-20 (Muriate) "Big Crop Brand"					
267 Yopp Seed Co., Paducah	<u>4.57</u>	<u>18.15</u>	<u>18.62</u>	62.0	<u>57.5</u>
942 T.J. Turley Co., Owensboro	5.17	<u>19.40</u>	<u>19.71</u>	62.0	61.3
1033 Kent Millers Store, Sacramento	5.28	<u>19.15</u>	20.10	62.0	61.6
5-10-16 (Sulfate) Armour's					
268 Smith & Barrett, Campbellsville	4.81	10.70	15.99	46.0	46.5
269 Fayette Coal & Feed Co., Lexington	<u>4.56</u>	12.05	<u>14.60</u>	46.0	46.2
5-10-10 (Muriate) "Vertagreen"					
173 Louisa Supply Co., Louisa	<u>4.60</u>	10.70	9.75	40.0	39.8
174 Brown's Hdwe. & Elec. Co., West Liberty	4.99	10.30	9.96	40.0	40.3
419 Farmers Union Supply Co., Versailles	4.83	10.10	10.69	40.0	40.5
420 Irvington Truck Lines, Irvington	4.80	10.25	10.38	40.0	40.3
421 J.S. Whittinghill, Fordsville	5.09	10.25	10.03	40.0	40.5

a. Excess Muriate equivalent to 5.15 percent potash

b. Excess Muriate equivalent to 1.92 percent potash

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ARMOUR FERTILIZER WORKS (Cont.)					
5-10-10 (Muriate) "Vertagreen" (Cont.)					
697 N. T. Nuckols, Elkton	4.80	10.00	9.88	40.0	39.5
844 Huich & Co., Marion	4.75	10.40	10.27	40.0	40.2
893 Anderson & Spilman Mill, Danville	5.09	10.10	11.08	40.0	41.4
943 Harralson Seed Co., Owensboro	4.90	10.45	9.99	40.0	40.3
982 W. C. Blair, Russell Springs	5.15	<u>9.58</u>	11.41	40.0	41.2
5-10-10 (Sulfate) "Vertagreen"					
175 Louisa Supply Co., Louisa	5.04	10.10	10.52	40.0	40.7
176 Keller Hay & Grain Co., Newport	4.97	11.00	9.67	40.0	40.8
270 H. B. McCleary, Auburn	<u>4.70</u>	10.35	<u>10.37^a</u>	40.0	40.2
271 Big 4 Feed & Impl. Co., Scottsville	<u>4.98</u>	10.00	9.82	40.0	39.8
422 Hamilton's Feed Mill, Whitesville	4.96	10.05	<u>10.35^b</u>	40.0	40.3
1087 N. T. Nuckols, Elkton	5.26	10.40	<u>9.60</u>	40.0	40.6
5-10-5 (Muriate) "Vertagreen"					
272 Fayette Coal & Feed Co., Lexington	4.86	10.30	5.40	35.0	35.5
423 Ausenbaugh Farm Supply, Dawson Springs	5.30	10.50	6.61	35.0	37.8
786 Butterworth Seed Co., Mayfield	4.99	10.90	5.39	35.0	36.5
4-12-8 (Muriate) "Big Crop Brand"					
516 Butterworth Seed Co., Mayfield	3.87	11.90	<u>7.69</u>	38.4	37.7
645 Big 4 Feed & Impl. Co., Scottsville	<u>3.64</u>	11.90	8.80	38.4	38.4
787 Butterworth Seed Co., Mayfield	3.80	12.60	8.12	38.4	38.8
808 G. E. Hale & Son Hdwe., Greenville	<u>3.74</u>	13.50	8.52	38.4	40.2
4-12-8 (Sulfate) Armour's					
273 Trimble Co. Farm Bureau Co-op., Milton	3.97	12.00	8.30	38.4	38.6
4-12-4 (Muriate) "Big Crop Brand"					
517 Kent Miller's Store, Sacramento	3.93	12.00	5.93	34.4	36.2
1034 Kent Miller's Store, Sacramento	4.03	12.50	4.44	34.4	35.5
3-12-12 (Muriate) "Big Crop Brand"					
177 Cincinnati Grain & Hay Co., Covington	3.07	11.80	12.80	40.4	41.1
178 Brown's Hdwe. & Elec. Co., West Liberty	3.17	12.85	<u>10.76</u>	40.4	40.5

a. Excess Muriate equivalent to 0.37 percent potash

b. Excess Muriate equivalent to 1.43 percent potash

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ARMOUR FERTILIZER WORKS (Cont.)					
3-12-12 (Muriate) "Big Crop Brand" (Cont.)					
424 Ausenbaugh Farm Supply Dawson Springs	3.09	12.42	13.09	40.4	42.2
518 J. A. Bennett Hdwe., Taylorsville	2.89	<u>10.90</u>	<u>11.61</u>	40.4	<u>38.5</u>
646 Joe Davenport Bowling Green	2.92	12.12	12.13	40.4	40.5
733 Jewell & Haydon Hdwe., Bardstown	2.81	12.20	12.11	40.4	40.4
803 Sam Ryle, Burlington	3.03	12.15	12.57	40.4	41.2
809 G. E. Hale & Son Hdwe., Greenville	3.00	12.45	12.07	40.4	41.0
831 W. C. Blair, Russell Springs	2.79	12.15	12.34	40.4	40.5
894 Penn Mercantile Co., Mannsville	<u>2.68</u>	12.10	12.41	40.4	40.3
895 J. C. Everett & Co., Maysville	<u>2.83</u>	12.05	12.48	40.4	40.6
676 Glasgow Trading Center, Glasgow	2.91	12.85	11.97	40.4	41.2
3-12-6 (Muriate) "Old Black Joe"					
179 Owen Ayers, Morgantown	3.23	12.10	6.06	34.4	35.0
425 Bonnieville Hdwe. Co., Bonnieville	2.89	12.15	6.14	34.4	34.5
426 W. E. Blair, Russell Springs	3.08	12.35	6.00	34.4	35.0
832 Gibson Produce Co., Monticello	3.07	12.45	6.04	34.4	35.1
944 Wallace Hdwe. So. Carrollton	2.97	12.50	5.98	34.4	34.9
983 Browning & McReynolds, Lewisburg	2.92	13.00	6.34	34.4	35.8
1035 Felty Produce Co., Beaver Dam	2.99	12.75	6.71	34.4	36.0
1088 Gibson Produce Co., Monticello	3.15	12.35	6.21	34.4	35.3
3-9-6 (Muriate) "Big Crop Brand"					
274 H. B. McCleary, Auburn	3.06	8.82	5.93	30.8	30.6
275 Big 4 Feed & Impl. Co., Scottsville	3.06	9.10	6.01	30.8	31.0
427 J. R. Williams Hdwe. Co., Beaver Dam	3.05	9.05	6.18	30.8	31.1
647 H. B. McCleary, Auburn	2.96	10.45	8.00	30.8	34.5
864 Kuttawa Milling Co., Kuttawa	3.10	9.25	6.19	30.8	31.5
984 Guy Orndorff, Adairville	3.00	8.88	6.58	30.8	31.2
1089 T. J. Turley Co., Owensboro	2.96	8.95	6.40	30.8	31.1
3-9-6 (Sulfate) Armour's					
519 C. E. Herrin, Willailla	5.36	<u>8.67</u>	<u>5.57</u>	30.8	34.7
2-12-6 (Muriate) "Big Crop Brand"					
276 H. B. McCleary, Auburn	2.06	<u>11.62</u>	6.25	32.4	32.3
428 J. R. Williams Hdwe. Co., Beaver Dam	2.36	12.25	6.01	32.4	33.4
648 Big 4 Feed & Impl. Co., Scottsville	2.38	12.20	6.02	32.4	33.4

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ARMOUR FERTILIZER WORKS (Cont.)					
2-12-6 (Muriate) "Big Crop Brand" (Cont.)					
698 J. S. Whittinghill Feed Store, Fordsville	2.29	12.20	6.02	32.4	33.2
699 Geo. Patmor & Son, Marion	2.20	12.20	5.69	32.4	32.7
734 G. M. Haycraft & Son, Leitchfield	1.90	12.55	6.16	32.4	32.8
804 Sam Ryle, Burlington	2.02	11.85	6.15	32.4	32.4
833 Mill Springs Supply, Mill Springs	2.14	11.95	6.29	32.4	32.9
852 G. G. Smither, Bagdad	1.77	12.70	6.83	32.4	33.6
896 Buckhorn Coal Co., Campbellsville	2.00	12.30	6.33	32.4	33.1
897 Earl Froedge, Summer Shade	2.20	12.50	6.55	32.4	33.9
985 Cadiz Hdwe. Co., Cadiz	2.13	12.20	6.02	32.4	32.9
986 Hatter Hdwe., Franklin	2.16	12.75	6.45	32.4	34.1
1036 Felty Produce Co., Beaver Dam	2.32	12.60	6.79	32.4	33.8
0-20-20 (Muriate) "Big Crop Brand"					
429 W. D. Bryant, Williamsburg	....	20.10	19.00	50.0	49.1
430 A. L. Carter, Philpot	....	18.80	20.14	50.0	48.7
677 Glasgow Trading Center, Glasgow	....	20.10	20.36	50.0	50.5
735 Allen's Coal Service, Brandenburg	....	20.28	20.18	50.0	50.5
736 Jewell & Haydon Hdwe., Bardstown	....	19.97	20.80	50.0	50.8
0-20-20 (Muriate) Armour's, with 60 lbs. Borax per ton					
649 Joe Davenport * Bowling Green	....	19.25	25.56	50.0	54.5
0-14-14 (Muriate) "Big Crop Brand"					
1037 Wallace Bros. Lumber Co., Hartford	....	15.73	15.77	36.8	40.6
431 Land-O'Nan Warehouse, Sturgis	....	14.07	11.36	36.8	34.2
0-14-7 (Muriate) "Big Crop Brand"					
180 Owen Ayers, Morgantown	....	12.83	7.56	29.8	29.0
602 Buckhorn Coal Co., Campbellsville	....	14.05	7.37	29.8	30.2
700 Forbes Hdwe. Co., Hopkinsville	....	14.15	7.56	29.8	30.5
737 Penn Mercantile Co., Mannsville	....	14.10	7.26	29.8	30.2
898 Penn Mercantile Co., Mannsville	....	14.28	7.35	29.8	30.5
0-12-12 (Muriate) "Big Crop Brand"					
277 Truman Hollingsworth, Tompkinsville	....	11.90	11.56	32.4	31.8
278 Eldon Welch, Park City	....	12.10	11.74	32.4	32.3
279 Guy Orndorff Hdwe., Adairville	....	11.83	11.43	32.4	31.6
432 C. T. Ashley & Co., Nicholasville	....	12.15	12.77	32.4	33.4
520 Farmers Gin Co., Clinton	....	12.00	11.61	32.4	32.0

(1) Boron guaranteed 0.34 per cent found 0.36

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ARMOUR FERTILIZER WORKS (Cont.)					
0-12-12 (Muriate) "Big Crop Brand" (Cont.)					
521 Camargo Farmers Supply, Camargo	12.05	12.14	32.4	32.6
582 Wilders Store, Pineville	11.60	12.40	32.4	32.3
650 H.B. McCleary, Auburn	13.05	10.79	32.4	32.4
701 Forbes Hdwe. Co., Hopkinsville	13.30	12.03	32.4	34.0
899 Virgil Stallard, Olive Hill	12.00	11.48	32.4	31.9
"Big Crop Brand"					
865 Princeton Mills, Princeton	44.98	....	58.5	58.5
20% Superphosphate "Big Crop Brand"					
181 Benton Pearson, College Hill	20.50	....	26.0	26.7
182 Keller Hay & Grain Co., Newport	19.80	....	26.0	25.7
280 Lowe's Feed Store, Austin	20.95	....	26.0	27.2
522 Willoughby Supply, Richmond	19.95	....	26.0	25.9
651 Big 4 Feed & Impl. Co., Scottsville	19.70	....	26.0	25.6
652 Geo. Patmor & Son, Marion	20.45	....	26.0	26.6
678 Glasgow Trading Center, Glasgow	20.60	....	26.0	26.8
702 Forbes Hdwe. Co., Hopkinsville	20.35	....	26.0	26.5
703 Trimble Co. Farm Bureau Co-op., Milton	19.78	....	26.0	25.7
900 J.C. Everett & Co., Maysville	20.25	....	26.0	26.3
987 Hatter Hdwe., Franklin	20.50	....	26.0	26.6
988 Cadiz Hdwe. Co., Cadiz	20.60	....	26.0	26.8
1038 Wallace Bros. Lumber Co., Hartford	19.60	....	26.0	25.5
18% Superphosphate "Big Crop Brand"					
433 J.R. Williams Hdwe. Co., Beaver Dam	17.10	....	23.4	22.2
60% Muriate of Potash Armour's					
281 Geo. Patmor & Son, Marion	60.52	54.0	54.5
788 Butterworth Seed Co., Mayfield	59.96	54.0	54.0
50% Muriate of Potash					
989 Saufley & Bell, Stanford	52.88	45.0	47.6
50% Sulfate of Potash					
810 G.E. Hale & Son Hdwe., Greenville	49.24 ^a	55.0	54.2

a. Excess Muriate equivalent to 0.92 percent potash

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ARMOUR FERTILIZER WORKS (Cont.)					
48% Sulfate of Potash					
183 Duncan-Hughes & Co., Lagrange	....	....	51.76	52.8	56.9
523 Marattay Bros., Taylorsville	....	....	48.20	52.8	53.0
APCO FERTILIZER COMPANY Halls, Tennessee					
6-12-12 (Muriate) "Super X No. 19 Brand"					
842 Clinton Limestone Co., Clinton	6.15	12.60	13.00	46.4	48.4
4-12-8 (Muriate)					
843 Clinton Limestone Co., Clinton	4.57	11.90	9.76	38.4	41.2
ASSOCIATED COOPERATIVES, INC. Sheffield, Alabama					
62% Calcium Metaphosphate					
184 Clay Co. Farm Service, Manchester	....	61.95	....	80.6	80.5
282 Southern States Co-op., Lebanon	....	62.35	....	80.6	81.1
283 Carroll Co. Farm Bureau, Carrollton	...	62.00	....	80.6	80.6
583 Southern States Co-op., Campbellsville	....	63.15	....	80.6	82.1
584 Morrison & Wallace, Hodgenville	....	61.67	....	80.6	80.2
946 Southern States Co-op, Morganfield	....	62.13	....	80.6	80.8
1039 Calloway Co. Soil Improvement Assn., Murray	....	61.85	....	80.6	80.4
48% Superphosphate					
284 Carroll Co. Farm Bureau, Carrollton	...	48.45	....	62.4	63.0
704 Hadden Farm & Home Service, Elkton	...	48.20	....	62.4	62.7
738 Southern States Co-op., Leitchfield	....	47.38	....	62.4	61.6
47% Superphosphate					
739 Southern States Co-op., Campbellsville	....	47.10	....	61.1	61.2
46% Superphosphate					
434 Ballard County Co-op., Lacerter	....	46.00	....	59.8	59.8
1070 Pike Co. Hatchery, Pikeville	....	47.20	....	59.8	61.5
33.50% Ammonium Nitrate					
603 Southern States Co-op., Hopkinsville	33.92	....	....	67.0	67.8
1059 Calloway Co. Soil Improvement Assn., Murray	33.68	....	....	67.0	67.4

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ASSOCIATED COOPERATIVE, INC. (Cont.)					
33% Ammonium Nitrate					
435 Ballard Co. Co-op., Lacerter	33.48	....	....	66.0	67.0
524 W. C. Turner, Greensburg	33.72	....	....	66.0	67.4
BLUEGRASS PLANT FOODS, INC. Cynthiana, Kentucky					
6-8-12 (Muriate 3, Sulfate 9) "Bluegrass Brand"					
287 Floyd G. Barlow, Cynthiana	5.87	8.40	12.14	41.6	42.2
6-8-6 (Muriate) "Bluegrass Brand"					
525 Walkers Supply Co., Richmond	<u>5.57</u>	9.20	5.98	35.6	36.2
6-8-6 (Sulfate) "Blue Grass Brand"					
288 Floyd G. Barlow, Cynthiana	6.00	8.05	6.79	35.6	36.5
289 G. H. Nunnelley & Co., Georgetown	5.99	7.90	6.60	35.6	36.1
6-8-6 (Muriate 3, Sulfate 3)					
185 Hancock Grocery, Falmouth	<u>5.62</u>	8.15	7.03	35.6	36.2
4-8-16 (Muriate 4, Sulfate 12)					
186 J. R. Prather, Maysville	4.07	8.30	15.99	41.6	42.1
4-8-12 (Muriate 3, Sulfate 9) "Blue Grass Brand"					
290 G. H. Nunnelley & Co., Georgetown	3.96	8.65	13.47	37.6	39.8
291 Floyd G. Barlow, Cynthiana	3.91	8.45	12.24	37.6	38.2
3-12-12 (Muriate) "Blue Grass Brand"					
580 L. J. Burke, Lexington	2.95	<u>11.58</u>	<u>11.73</u>	40.4	39.5
3-12-12 (Muriate 3, Sulfate 9)					
187 J. R. Prather, Maysville	3.20	12.20	12.34	40.4	41.4
292 Floyd G. Barlow, Cynthiana	3.21	12.00	12.56	40.4	41.4
3-9-6 (Muriate) "Blue Grass Brand"					
293 Floyd G. Barlow, Cynthiana	3.32	8.95	6.93	30.8	32.3
0-20-20 (Muriate)					
901 Blue Grass Plant Foods, Cynthiana	....	19.95	21.02	50.0	51.0
1071 Brack Noble, Jackson	....	20.20	20.96	50.0	51.2

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
BLUE GRASS PLANT FOODS, INC. (Cont.)					
0-12-12 (Muriate)					
902 Blue Grass Plant Foods, Cynthiana		12.00	12.91	32.4	33.3
20% Superphosphate "Blue Grass Brand"					
1072 Ravenna Grocery, Ravenna		21.00	. . . .	26.0	27.3
BUHNER FERTILIZER COMPANY					
Seymour, Indiana					
3-12-12 (Muriate) "Buhner's"					
294 Fister Bros., Lexington	2.88	11.90	12.54	40.4	40.6
436 Nall's Feed Store, Vine Grove	2.79	12.85	12.56	40.4	41.6
604 Buhner & Co., Louisville	<u>2.67</u>	11.90	13.17	40.4	40.8
740 Springfield Feed & Grain, Springfield	<u>2.74</u>	12.00	14.30	40.4	42.2
903 Buhner & Co., Louisville	<u>2.99</u>	11.78	12.67	40.4	40.8
904 Springfield Feed & Grain, Springfield	3.16	11.88	12.94	40.4	41.5
3-12-12 (Sulfate)					
295 Fister Bros., Lexington	2.80	11.97	11.85 ^a	40.4	39.8
3-9-6 (Muriate) Buhner's					
905 Buhner & Co., Louisville	2.91	8.95	7.45	30.8	32.0
2-12-6 (Muriate)					
741 Rizer Bros. Bardstown	2.17	12.00	7.41	32.4	34.2
527 Allison, Shipp, Campbellsville	3.24	12.40	10.09	32.4	43.5
0-15-15 (Muriate)					
191 Morgantown Feed Mill, Morgantown		<u>13.60</u>	14.83	39.0	37.2
605 Buhner & Co., Louisville		<u>14.90</u>	15.54	39.0	39.4
906 Buhner & Co., Louisville		<u>14.13</u>	16.13	39.0	39.2
0-12-12 (Muriate)					
437 Nall's Feed Store, Vine Grove		<u>11.65</u>	12.04	32.4	32.0
20% Ammonium Nitrate Limestone					
296 Fister Bros., Lexington	20.32	. . . .	. . . .	48.0	48.8

a. Excess Muriate equivalent to 2.38 percent potash

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
BURLEY BELT PLANT FOOD WORKS, Lexington, Kentucky					
6-8-6 (Sulfate) "Burley Belt Brands"					
297 Southern States Co-op., Frankfort	6.14	8.00	6.07	35.6	36.0
298 Southern States Co-op., Lexington	6.03	8.20	5.98	35.6	36.0
526 Richmond Farm Service, Richmond	<u>5.55</u>	8.05	7.08 ^a	35.6	35.8
5-10-16 (Sulfate)					
188 Peck's Farmers Supply, Sharpsburg	5.13	9.85	16.64	46.0	46.8
189 Southern States Co-op., Maysville	4.95	9.90	16.46	46.0	46.2
190 Richmond Farm Service, Richmond	5.12	9.95	16.21	46.0	46.4
299 Southern States Co-op., Lexington	4.85	9.75	<u>15.70</u>	46.0	45.1
CHEMICAL FORMULATORS N. Charleston, West Virginia					
5-10-10 (Muriate) "Chemform"					
192 Guy Blair, Isonville	<u>4.48</u>	11.40	<u>8.95</u>	40.0	39.6
COMMONWEALTH FERTILIZER COMPANY, Russellville, Kentucky					
6-8-6 (Sulfate) "Indian Head"					
438 Robert Pence, Philpot	5.79	8.50	6.31 ^b	35.6	36.1
5-10-10 (Sulfate) "Indian Head"					
193 Southern States Co-op., Russellville	5.09	10.30	9.99	40.0	40.5
4-12-8 (Muriate) "Indian Head"					
194 McGeehee & Grise, Lewisburg	4.14	11.85	<u>7.68</u>	38.4	38.2
3-12-6 (Muriate) "Indian Head"					
653 Commonwealth Fertilizer Co., Russellville	3.07	12.30	6.39	34.4	35.3
991 Commonwealth Fertilizer Co., Russellville	3.00	12.03	6.77	34.4	35.2
992 McGeehee & Grise, Lewisburg	3.13	12.00	6.35	34.4	34.9
1040 C & C Hdwe. Co., Hartford	2.97	12.10	6.10	34.4	34.6

a. Excess Muriate equivalent to 1.93 percent potash

b. Excess Muriate equivalent to 2.50 percent potash

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
COMMONWEALTH FERTILIZER COMPANY (Cont.)					
3-9-6 (Muriate) "Indian Head"					
195 McGeehee & Grise, Lewisburg	2.95	10.40	6.87	30.8	33.3
528 Farmers Feed Store, Central City	2.86	9.05	6.78	30.8	31.4
654 McGeehee & Grise, Lewisburg	2.89	10.10	6.52	30.8	32.4
705 M.G. Williams Implement Co., Hopkinsville	3.04	9.20	5.86	30.8	31.0
2-12-6 (Muriate) "Indian Head"					
439 C. C. Hdwe, Feed, and Seed Co., Hartford	2.13	12.00	6.29	32.4	32.9
0-12-12 (Muriate) "Indian Head"					
196 Manufacturer's Whse.	....	12.45	12.09	32.4	33.0
656 McGeehee & Grise, Lewisburg	....	12.30	12.50	32.4	33.3
706 M.G. Williams Impl. Co., Hopkinsville	....	12.30	12.32	32.4	33.1
993 Manufacturer's Whse.	....	12.00	12.52	32.4	32.9
0-20-20 (Muriate) "Indian Head"					
655 Manufacturer's Whse.	....	22.47	<u>18.16</u>	50.0	51.1
866 Thomas Warren, Guthrie	....	23.70	<u>16.92</u>	50.0	50.4
COOPERATIVE FERTILIZER SERVICE, Winchester, Kentucky					
6-8-6 (Muriate) Open Formula					
907 Southern States Co-op., Harrodsburg	5.80	8.45	6.75	35.6	36.5
6-8-6 (Sulfate) Open Formula					
197 P. S. Young Hdwe. Co., Caneyville	5.96	9.20	6.08	35.6	36.9
300 Southern States Co-op., Owensboro	6.12	8.25	6.36	35.6	36.5
301 Southern States Co-op., Owenton	6.28	8.30	6.22	35.6	36.7
947 Richmond Farm Service, Richmond	6.03	8.40	6.23	35.6	36.4
1041 Rockcastle Farm Service, Mt. Vernon	5.88	8.50	6.04	35.6	36.0
1084 Barnett's Farm Supply, No. Pleasureville	6.03	8.25	6.13	35.6	36.1
1090 Southern States Co-op., Somerset	6.04	8.15	6.30	35.6	36.2
1091 Majors Poultry House, Central City	6.01	8.40	6.25	35.6	36.4
5-10-10 (Muriate) Open Formula					
302 Southern States Co-op., Owensboro	5.22	10.30	10.30	40.0	41.1
303 Southern States Co-op., Lexington	5.19	10.25	10.41	40.0	41.1

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
COOPERATIVE FERTILIZER SERVICE, INC. (Cont.)					
5-10-10 (Muriate) Open Formula (Cont.)					
742 Southern States Co-op., Elizabethtown	5.10	10.50	10.79	40.0	41.6
834 Southern States Co-op., Somerset	5.11	10.55	10.86	40.0	41.7
994 Southern States Co-op., Clinton	5.15	10.10	10.40	40.0	40.8
4-16-8 (Muriate) Open Formula					
304 Southern States Co-op., Lexington	4.11	16.40	8.05	43.2	43.9
442 C. C. Hdwe., Feed & Seed Co., Hartford	4.14	16.35	8.55	43.2	44.2
4-12-8 (Muriate) Open Formula					
305 Southern States Co-op., Owenton	3.95	12.30	8.18	38.4	38.8
530 Southern States Co-op., Fulton	4.23	12.25	8.28	38.4	39.4
606 Southern States Co-op., Hopkinsville	<u>3.71</u>	12.80	8.44	38.4	39.2
657 Southern States Co-op., Russellville	4.02	12.65	8.39	38.4	39.6
679 Farmers Service Store, Tompkinsville	3.91	12.80	8.46	38.4	39.6
707 K. R. McKinney & Son, Smithland	4.02	12.75	8.60	38.4	39.9
743 Southern States Co-op., Campbellsville	3.85	12.65	8.26	38.4	39.1
744 Farmers Service Store, Hardinsburg	3.96	12.10	8.33	38.4	38.8
745 W. C. Turner, Greensburg	3.92	12.60	8.51	38.4	39.5
908 Adair Farmers Service, Columbia	3.96	12.50	8.55	38.4	39.5
909 Southern States Co-op., Lebanon	3.90	12.35	8.65	38.4	39.3
995 Southern States Co-op., Morganfield	3.97	12.20	8.54	38.4	39.5
4-8-12 (Sulfate) Open Formula					
306 Southern States Co-op., Cynthiana	4.10	8.30	11.90	37.6	38.1
307 Southern States Co-op., Georgetown	4.12	8.50	12.06	37.6	38.5
531 Southern States Co-op., Hopkinsville	4.02	8.30	12.39	37.6	38.4
948 Richmond Farm Service, Richmond	3.94	8.20	12.37	37.6	38.1
996 Lincoln Farm Service, Stanford	4.06	8.30	12.41	37.6	38.5
1085 Henry Co. Farm & Home Service, Eminence	3.95	8.60	12.44	37.6	38.7
3-12-12 (Muriate) Open Formula					
308 Southern States Co-op., Owensboro	3.17	12.00	12.29	40.4	41.0
532 Southern States Co-op., Fulton	3.18	12.60	11.99	40.4	41.5

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
COOPERATIVE FERTILIZER SERVICE, INC. (Cont.)					
3-12-12 (Muriate) Open Formula (Cont.)					
585 Farm & Home Store, Prestonsburg	3.23	12.50	12.27	40.4	41.7
607 Southern States Co-op., Georgetown	2.86	12.30	11.80	40.4	40.3
608 Slaughters Mercantile Co., Slaughters	2.93	12.00	12.22	40.4	40.5
609 Southern States Co-op., Louisville	3.05	12.30	12.14	40.4	41.0
610 Farmers Supply Co., Monticello	3.12	12.25	12.40	40.4	41.3
658 Rockcastle Farm Service, Mt. Vernon	3.21	12.60	12.52	40.4	42.1
680 Farmers Service Store, Tompkinsville	3.11	12.30	12.54	40.4	41.5
746 Metcalfe Co. Farmers Supply Edmonton	2.92	12.40	12.34	40.4	41.1
747 Bridwell's Mill, Mt. Washington	2.84	12.35	12.22	40.4	40.7
789 Graves Soil Improvement Assn'. Mayfield	3.14	12.55	13.11	40.4	42.5
811 Southern States Co-op., Owensboro	3.22	11.90	12.12	40.4	40.8
910 Southern States Co-op., Maysville	3.02	12.75	12.76	40.4	42.1
3-12-6 (Muriate) Open Formula					
309 Southern States Co-op., Henderson	3.07	12.20	6.66	34.4	35.4
443 Southern States Co-op., Marion	3.13	11.95	6.65	34.4	35.3
0-14-14 (Muriate)					
310 Southern States Co-op., Henderson	....	14.15	14.84	36.8	37.8
533 Henry Co. Farm & Home Service, Eminence	....	14.55	14.35	36.8	37.8
611 Slaughters Mercantile Co., Slaughters	....	14.50	14.32	36.8	37.7
612 Southern States Co-op., Hopkinsville	....	14.10	14.25	36.8	37.2
659 Southern States Co-op., Russellville	....	13.95	14.63	36.8	37.4
660 Southern States Co-op., Bowling Green	....	14.30	14.65	36.8	37.8
748 Bridwell's Mill, Mt. Washington	....	14.50	14.63	36.8	38.0
911 Bourbon Farm Service, Paris	....	14.70	13.99	36.8	37.6
949 Southern States Co-op., Morganfield	....	14.10	15.18	36.8	38.1
999 Edmonson Co. Co-op., Brownsville	....	14.20	14.72	36.8	37.8
0-20-20 (Muriate)					
812 Southern States Co-op., Owensboro	....	20.60	20.54	50.0	51.3
997 Southern States Co-op., Russellville	....	20.30	20.86	50.0	51.2

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
COOPERATIVE FERTILIZER SERVICE (Cont.)					
0-14-14 (Muriate) with 3# of Borax per 100#					
613 Farmers Supply Co., Monticello (1)	14.45		13.94	36.8	37.3
614 Southern States Co-op., Louisville (2)	14.00		14.74	36.8	37.5
681 Richmond Farm Serv., Richmond(3)	14.40		14.48	36.8	37.8
708 Southern States Co-op., Owenton(4)	14.35		14.02	36.8	37.2
709 K. R. McKinney & Son, Smithland(5)	14.05		14.89	36.8	37.7
998 Southern States Co-op., Morganfield (6)	14.30		14.30	36.8	37.5
0-14-7 (Muriate)					
912 Southern States Co-op., Ashland	14.25		8.44	29.8	31.5
60% Muriate of Potash					
311 Farmers Service Store, Tompkinsville...			60.16	54.0	54.1
682 Richmond Farm Service, Richmond			60.08	54.0	54.1
749 Southern States Co-op., Lebanon			60.84	54.0	54.7
950 Southern States Co-op., Morganfield			60.04	54.0	54.0
60% Granular Muriate of Potash					
813 Southern States Co-op., Owensboro			60.00	54.0	54.0
1000 Land-O'Nan Warehouse, Sturgis			61.24	54.0	55.1
CONSOLIDATED CHEMICAL COMPANY Louisville, Kentucky					
6 -8-8 (Muriate)					
529 St. Matthews Produce Exchange, St. Matthews	6.23	8.50	7.84	37.6	38.5
4 -12-8 (Sulfate)					
312 Lemons Bros., Cynthiana	4.38	8.00	12.94	37.6	39.3
2- 12-6 (Muriate)					
440 B. B. Landrum, Horse Branch	2.07	11.90	5.57	32.4	32.0
441 Ralph & O'Dell, Whiteville	1.98	12.00	7.54	32.4	33.9

(1) Boron guaranteed 0.34 percent - found 0.35 percent

(2)	0.34	"	0.36	"
(3)	0.34	"	0.34	"
(4)	0.34	"	0.34	"
(5)	0.34	"	0.37	"
(6)	0.34	"	0.34	"

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
COVINGTON FERTILIZER COMPANY Covington, Tennessee					
82% Anhydrous Ammonia					
508 Covington Fertilizer Co. Morganfield	82.00	.....	.....	123.0	123.0
509 Covington Fertilizer Co., Hopkinsville	82.00	.....	.....	123.0	123.0
CUMBERLAND CHEMICAL COMPANY Hopkinsville, Kentucky					
6-8-6 (Muriate)					
313 Ratliff Hdwe. Co., Princeton	6.47	8.40	6.71	35.6	37.7
314 Exchange Mill, Nebo	6.61	8.60	6.47	35.6	37.3
4-12-8 (Muriate)					
315 Ratliff Hdwe. Co., Princeton	4.43	11.95	8.52	38.4	39.7
615 Smith & Reynolds Co., Slaughters	4.17	11.92	8.66	38.4	39.3
4-12-8 (Sulfate)					
316 E. L. Barnes & Son, Princeton	4.11	12.30	8.12	38.4	39.1
3-12-12 (Muriate)					
814 Pyles V. Goodwin, Crafton	3.05	12.60	12.21	40.4	41.4
867 Nelson Feed Store, Marion	2.96	12.60	12.03	40.4	41.1
1001 Land-O'Nan Whse., Sturgis	2.99	12.00	13.17	40.4	41.5
2-12-6 (Muriate)					
317 E. L. Barnes & Son, Princeton	2.21	11.90	6.39	32.4	33.1
710 Cayce-Yost Co., Hopkinsville	2.18	12.55	6.67	32.4	34.1
815 Pyles & Goodwin, Crafton	2.39	12.35	7.00	32.4	34.6
816 Robinson Implement & Motors, Princeton	2.26	13.05	7.49	32.4	35.7
0-14-7 (Muriate)					
534 Manufacturer's Whse.	.....	14.10	7.09	29.8	30.0
1042 Manufacturer's Whse.	.....	13.95	8.15	29.8	30.9
0-12-12 (Muriate)					
318 E. L. Barnes & Son, Princeton	.....	12.00	12.61	32.4	33.0
951 Land-O'Nan Whse., Sturgis	.....	12.20	12.75	32.4	33.4
1043 Ratliff Hdwe. Co., Princeton	.....	12.70	11.95	32.4	33.2

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
CUMBERLAND CHEMICAL COMPANY (Cont.)					
20% Superphosphate					
868 Nelson Feed Store, Marion	....	21.10	....	26.0	27.4
1044 Ratliff Hdwe. Co., Princeton	....	20.30	....	26.0	26.4
1045 Manufacturer's Whse.,	....	21.20	....	26.0	27.6
60% Muriate of Potash					
444 Land-O'Nan Whse., Sturgis	....	....	60.28	54.0	54.2
817 Ky. State Penitentiary, Eddyville	....	....	58.08	54.0	52.3
1046 Ratliff Hdwe. Co., Princeton	....	....	61.04	54.0	54.9
DAVISON CHEMICAL CORPORATION *					
Columbus, Ohio					
5-10-10 (Sulfate) Davco Granulated					
460 Elwood Logan, Greenup	<u>4.14</u>	10.80	10.91 ^a	40.0	40.0
DAVISON CHEMICAL CORPORATION **					
Nashville, Tennessee					
8-8-8 (Muriate) Davco "Quality"					
322 Jackson Bros., Kuttawa	<u>5.62</u>	8.75	8.18	41.6	<u>37.9</u>
323 Farmers Exchange, Burkesville	<u>4.76</u>	9.00	8.48	41.6	<u>36.8</u>
456 Land-O'Nan Whse., Sturgis	<u>7.91</u>	8.15	8.17	41.6	<u>41.8</u>
6-12-12 (Muriate) Davco "Quality"					
619 Smith & Reynolds Co., Slaughters	5.78	<u>11.70</u>	12.32	46.4	45.9
871 Farmers Co-op., Madisonville	5.39	<u>11.60</u>	11.78	46.4	<u>44.5</u>
955 Land-O'Nan Whse., Sturgis	<u>5.61</u>	12.00	11.80	46.4	<u>45.4</u>
956 Morganfield Hdwe. Co., Morganfield	<u>5.44</u>	12.55	12.40	46.4	46.3
1002 Southern States Co-op., Paducah	<u>5.39</u>	12.10	12.06	46.4	45.4
6-8-6 (Muriate) "Quality"					
201 Frank Snodgrass, Morgantown	<u>5.65</u>	8.50	6.49	35.6	36.0
457 Clyde Logsdon, Whitesville	<u>5.67</u>	8.75	6.62	35.6	36.5
6-8-6 (Sulfate) "Quality"					
324 C. S. Brent & Co., Lexington	5.83	8.25	6.09	35.6	35.8
5-10-10 (Muriate) "Quality"					
325 Allen Co. Farmers Service, Scottsville	<u>1.66</u>	12.80	<u>8.35</u>	40.0	<u>35.0</u>
587 Salem Feed & Seed Co., Salem	<u>5.11</u>	9.92	<u>10.12</u>	40.0	<u>40.2</u>

* Also see Nashville, Tenn. & New Albany, Ind.

** Also see Columbus, Ohio & New Albany, Ind.

a Excess Muriate equivalent to 3.76 percent potash

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
DAVISON CHEMICAL CORPORATION (Cont.)					
4-12-8 (Muriate) "Quality"					
202 Brown Seed Cleaning Co., Bowling Green	4.12	12.20	8.55	38.4	39.4
326 C.S. Brent & Co., Lexington	3.91	12.10	8.30	38.4	38.6
327 J.B. Hatchery Co., Park City	3.93	12.20	8.29	38.4	38.8
620 Smith & Reynolds Co., Slaughters	<u>3.54</u>	<u>11.65</u>	8.13	38.4	<u>37.2</u>
818 Robinson Implement & Motors, Princeton	3.84	<u>11.10</u>	8.02	38.4	<u>37.0</u>
872 Marshall Co. Soil Improvement Assn' Benton	4.25	13.50	8.60	38.4	41.3
957 Morganfield Hdwe. Co., Morganfield	4.11	12.70	8.79	38.4	40.2
1003 R. M. Miller Seed & Popcorn Co., Murray	3.94	11.90	8.39	38.4	38.5
1004 R. M. Miller Seed & Popcorn Co., Murray	4.04	13.40	8.59	38.4	40.7
4-12-4 (Muriate) "Quality"					
203 Bell Co. Supply, Middlesboro	3.97	<u>11.53</u>	4.50	34.4	34.3
535 Gresham & Gatton, Sacramento	4.00	<u>11.60</u>	4.51	34.4	34.4
3-12-12 (Muriate) Davco Quality					
621 Smith & Reynolds Co., Slaughters	3.24	11.75	12.75	40.4	41.3
751 E. S. Terrill Hdwe., Buffalo	3.24	11.75	12.75	40.4	41.3
751 E. S. Terrill Hdwe., Buffalo	2.97	12.40	12.75	40.4	41.6
791 Butterworth Seed Co., Mayfield	3.07	12.00	12.22	40.4	40.8
792 Graves Co. Soil Improvement Assn' Mayfield	3.22	11.95	12.62	40.4	41.4
819 Guenther Hdwe. Co., Owensboro	3.22	12.25	<u>11.47</u>	40.4	40.6
958 Morganfield Hdwe. Co. Morganfield	3.24	11.95	<u>11.98</u>	40.4	40.8
1005 Southern States Co-op., Paducah	2.81	12.00	<u>11.37</u>	40.4	39.4
3-9-18 (Muriate)					
588 Ky. Cotton & Grain Co., Hickman	3.01	9.55	<u>17.32</u>	42.8	42.8
3-9-6 (Muriate) Davco "Quality"					
328 Allen Co. Farmers Service, Scottsville	3.03	10.00	6.32	30.8	32.4
536 Atherton Lumber Co., Livermore	3.22	9.15	6.54	30.8	32.0
752 E. S. Terrill Hdwe., Buffalo	3.20	9.10	7.02	30.8	32.3
3-9-6 (Sulfate) Davco Red Diamond					
537 Cayce-Yost Co., Hopkinsville	4.51	9.75	5.98 ^a	30.8	34.7

a. Excess Muriate equivalent to 4.76 percent potash

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
DAVISON CHEMICAL CORPORATION (Cont.)					
2-12-6 (Muriate) Davco "Quality"					
329 Eldred Hdwe. Co., Princeton	3.36	<u>11.10</u>	7.93	32.4	36.2
662 Allen & Jenkins, Bowling Green	2.17	<u>11.95</u>	6.58	32.4	33.3
683 Bishop-Patterson & Gray Bros., Glasgow	2.14	12.00	6.49	32.4	33.2
711 Hadden's Farm & Home Service, Elkton	2.27	13.15	6.80	32.4	35.1
753 Metcalfe Co. Farm Supply, Edmonton	2.15	12.15	6.60	32.4	33.5
1006 J. B. Lucas Feed & Seed Co., Franklin	2.10	12.00	6.63	32.4	33.2
1073 Metcalfe Co. Farmers Service, Edmonton	2.58	12.00	6.98	32.4	34.5
0-20-20 Davco Quality					
622 Crafton Bros., Henderson	....	<u>14.82</u>	<u>13.65</u>	50.0	<u>37.4</u>
793 Butterworth Seed Co., Mayfield	....	<u>18.98</u>	<u>19.78</u>	50.0	<u>48.6</u>
0-14-7 (Muriate) Davco "Quality"					
458 Hartford Hdwe. & Supply, Hartford	....	15.15	8.07	29.8	32.2
589 Salem Feed & Seed Co., Salem	....	13.95	8.13	29.8	30.9
623 Cayce-Yost Co., Hopkinsville	....	<u>13.45</u>	7.98	29.8	30.1
684 Farmers Supply Co., Upton	....	<u>13.87</u>	9.03	29.8	31.7
754 Young Seed House, Campbellsville	....	13.75	7.84	29.8	30.3
0-12-12 (Muriate) Davco "Quality"					
538 Austin & Austin Seed Co., Cayce	....	12.60	12.24	32.4	33.4
624 W.I. Smith, Sebree	....	<u>11.30</u>	13.49	32.4	33.0
663 Dewey Stickler, Franklin	....	<u>13.82</u>	<u>7.71</u>	32.4	<u>30.3</u>
685 Farmers Supply Co., Upton	....	<u>11.67</u>	<u>13.26</u>	32.4	<u>33.3</u>
755 Farmers Exchange, Burkesville	....	<u>12.00</u>	<u>8.73</u>	32.4	<u>29.1</u>
794 Butterworth Seed Co., Mayfield	....	12.85	<u>11.46</u>	32.4	<u>32.9</u>
20% Superphosphate Davco Granulated					
330 Penn Mercantile Co., Mannsville	....	20.90	....	26.0	27.2
331 C.S. Brent & Co., Lexington	....	20.60	....	26.0	26.8
539 Henry Durham & Son, Greensburg	....	20.25	....	26.0	26.3
625 Cayce-Yost Co., Hopkinsville	....	20.60	....	26.0	26.8
626 I.K. Miller & Son, Campbellsville	....	20.65	....	26.0	26.8
664 Frank Snodgrass, Morgantown	....	20.50	....	26.0	26.6
686 Bishop-Patterson & Gray Bros., Glasgow	....	20.60	....	26.0	26.8

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
DAVISON CHEMICAL CORPORATION (Cont.)					
20% Superphosphate Davco Granulated (Cont.)					
712 Hadden's Farm & Home Service, Elkton	....	20.15	....	26.0	26.2
756 Young Seed House, Campbellsville	....	20.50	....	26.0	26.6
854 Brashear's Market, Corbin	....	21.00	....	26.0	27.3
959 Morganfield Hardware Co., Morganfield	....	19.88	....	26.0	25.8
960 Robinson & Turley, Richmond	....	20.00	....	26.0	26.0
1007 Leonard Wells, Brownsville	....	19.38	....	26.0	25.2
1074 Husa Butler, Dyer	....	19.40	....	26.0	25.2
33.50% Ammonium Nitrate					
790 Graves Co. Soil Improvement Assn', Mayfield	33.84	....	....	67.0	67.7
60% Muriate of Potash					
1048 Southern States Co-op., Paducah	....	....	60.08	54.0	54.1
50% Sulfate of Potash					
590 C.S. Brent & Co., Lexington	....	....	50.64	55.0	55.7
DAVISON CHEMICAL CORPORATION *					
New Albany, Indiana					
6-8-6 (Muriate)"Old Time"					
445 Felty Produce Co., Beaver Dam	5.64	8.70	6.58	35.6	36.3
586 Buechel Produce Exchange, Buechel	5.86	8.50	6.23	35.6	36.1
616 V.W. Alexander, Marion	5.68	8.55	6.45	35.6	36.1
952 Henderson Feed & Commission, Henderson	5.34	9.00	7.34	35.6	36.8
6-8-6 (Sulfate) "Old Time"					
198 Swartz & Day, Mayslick	5.90	8.50	6.81	35.6	36.8
319 Farmers Co-op. Store, Owensboro	5.91	8.50	6.46	35.6	36.5
320 Morgan & Crenshaw, Georgetown	5.80	8.50	6.15	35.6	35.9
446 Henderson Feed & Commission, Co., Henderson	6.06	8.30	6.30	35.6	36.4
447 Cal Richards, Fordsville	5.80	8.60	6.55	35.6	36.5
448 Faubush Milling Co., Faubush	5.97	8.20	6.88	35.6	36.7

* Also see Columbus Ohio and Nashville, Tennessee

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
DAVISON CHEMICAL CORPORATION (Cont.)					
3-12-12 (Muriate) "Old Time"					
199 Duncan-Hughes & Co., LaGrange	3.10	12.15	12.64	40.4	41.4
449 Felty Produce Co., Beaver Dam	3.16	11.90	12.14	40.4	40.7
450 R.H. Johnson, Beaver Dam	3.06	12.10	12.28	40.4	40.9
750 Hoskins Store, Campbellsville	2.86	12.00	12.74	40.4	40.9
853 Duncan-Hughes & Co., LaGrange	2.96	12.25	12.37	40.4	41.0
869 Ruark Truck Line, Morganfield	2.98	12.20	12.51	40.4	41.1
953 Henderson Feed & Commission Co., Henderson	2.96	12.20	12.01	40.4	40.6
2-12-6 (Muriate) "Old Time"					
321 Morgan & Crenshaw, Georgetown	1.94	12.50	6.35	32.4	33.2
451 Felty Produce Co., Beaver Dam	2.02	12.10	6.26	32.4	32.8
452 Henderson Feed & Commission Co. Henderson	2.05	11.87	7.20	32.4	33.5
453 R.H. Johnson, Beaver Dam	2.03	12.02	7.65	32.4	34.1
617 V.W. Alexander, Marion	2.16	11.95	6.35	32.4	33.0
618 Duncan-Hughes & Co., LaGrange	2.03	12.00	6.36	32.4	32.8
661 Cottongin Feed Store, London	2.28	12.15	6.63	32.4	33.8
954 Henderson Feed & Commission Co. Henderson	1.99	12.00	6.97	32.4	33.3
0-12-12 (Muriate) "Old Time"					
200 Duncan-Hughes & Co., LaGrange	....	12.85	12.29	32.4	33.7
454 R.H. Johnson, Beaver Dam	....	12.10	12.44	32.4	33.0
455 Henderson Feed & Commission, Henderson	....	13.00	11.95	32.4	33.5
870 Ruark Truck Lines, Morganfield	....	12.50	12.96	32.4	34.0
1047 McCarty Farm Service, Pineville	....	12.35	12.64	32.4	33.5
FEDERAL CHEMICAL COMPANY, INC. Louisville, Kentucky					
8-8-8 (Muriate)					
332 Basil M. Brooks, Madisonville	<u>7.55</u>	8.40	7.79	41.6	41.0
820 Robinson Implement & Motor Co., Princeton	<u>7.19</u>	8.70	8.50	41.6	41.3
961 Douglas Helm, Nebo	<u>7.51</u>	8.50	8.75	41.6	42.0
962 Corbin-Bennett Farm Supply, Providence	<u>6.92</u>	9.10	8.36	41.6	41.1

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
FEDERAL CHEMICAL COMPANY (Cont.)					
6-12-12 (Muriate)					
333 Campbell's Mill, Kevil	6.14	12.10	12.44	46.4	47.2
963 Douglas Helm, Nebo	5.79	<u>11.70</u>	12.41	46.4	46.0
6-8-6 (Muriate)					
204 W. T. Renaker, Verona	<u>5.42</u>	8.80	7.26	35.6	36.7
205 T. P. Black, Augusta	6.07	8.50	6.62	35.6	37.0
821 Robinson Impl. & Motor Co., Princeton	<u>5.69</u>	8.20	6.77	35.6	36.0
1008 Cletus Moss, Bardwell	<u>5.32</u>	8.90	7.01	35.6	36.3
1049 Salem Feed & Seed Co., Salem	5.94	8.35	6.27	35.6	36.2
6-8-6 (Sulfate)					
206 Blair Whsle. Grocery, West Liberty	6.02	8.30	6.42	35.6	36.4
207 W. T. Renaker, Verona	5.91	8.50	6.81	35.6	36.8
208 T. P. Black, Augusta	5.97	8.50	6.56 ^a	35.6	36.7
334 Campbell's Mill, Kevil	<u>5.73</u>	8.40	6.75 ^b	35.6	36.3
5-10-15 (Sulfate)					
209 T. P. Black, Augusta	5.22	10.25	<u>14.58</u>	45.0	45.3
335 Dunagan & Dunagan, Horse Cave	4.93	10.50	<u>14.12</u>	45.0	44.6
336 H. F. Asbury, Lexington	5.31	10.55	<u>13.79</u>	45.0	45.1
337 Floyd G. Barlow, Cynthiana	5.10	10.65	<u>14.06</u>	45.0	45.0
461 H. C. Roby, Philpot	4.94	10.10	<u>15.12^c</u>	45.0	45.1
5-10-10 (Muriate)					
540 H. B. Leneave & Son, Golden Pond	5.18	9.75	<u>9.53</u>	40.0	39.6
873 Thomas Warren, Guthrie	4.91	10.30	<u>9.66</u>	40.0	39.8
964 Corbin-Bennett Farm Supply, Providence	<u>4.47</u>	10.90	10.86	40.0	40.9
5-10-10 (Sulfate)					
210 T. P. Black, Augusta	5.35	9.78	11.19	40.0	41.6
211 W. T. Renaker, Verona	5.15	9.90	10.72	40.0	40.9
338 H. F. Asbury, Lexington	4.98	10.00	9.97	40.0	39.9
462 J. H. Higgins, Princeton	5.03	10.10	<u>8.90</u>	40.0	39.1

a. Excess Muriate equivalent to 0.62 percent potash

b. Excess Muriate equivalent to 0.38 percent potash

c. Excess Muriate equivalent to 0.80 percent potash

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
FEDERAL CHEMICAL COMPANY (Cont.)					
4-12-8 (Muriate)					
713 Clinton Hatchery, Clinton	4.11	12.50	8.52	38.4	39.7
714 Ellis Boley, Elkton	3.95	11.80	8.95	38.4	39.0
874 Basil M. Brooks, Madisonville	4.06	12.25	8.39	38.4	39.2
965 Corbin-Bennett Farm Supply, Providence	4.17	12.00	8.36	38.4	39.1
3-12-12 (Muriate)					
463 Henderson Farmers Supply Co., Henderson	3.12	12.15	11.90	40.4	40.7
627 Hall Seed Co., Louisville	2.94	11.95	12.35	40.4	40.6
665 Clinton Hatchery, Clinton	2.99	12.10	12.20	40.4	40.7
795 Youngblood Bros., Mayfield	3.02	12.00	12.22	40.4	40.7
875 Basil M. Brooks, Madisonville	3.53	11.65	12.15	40.4	41.2
913 Farmers Exchange, Burkesville	<u>2.65</u>	12.00	12.99	40.4	40.7
3-9-18 (Muriate)					
1009 Cletus Moss, Bardwell	3.41	9.25	<u>14.90</u>	42.8	<u>40.8</u>
3-9-6 (Muriate)					
212 Hackney Harlan Co., Harlan	3.15	9.15	6.71	30.8	32.0
687 Cook & Moore, Tompkinsville	3.12	<u>8.55</u>	6.78	30.8	31.3
757 Estes & Shirley, Edmonton	3.05	<u>9.10</u>	6.11	30.8	31.1
1010 Cletus Moss, Bardwell	3.60	8.85	6.93	30.8	32.7
1075 Carl J. Hagman, Cloverport	3.14	<u>8.08</u>	7.08	30.8	31.1
2-12-6 (Muriate)					
464 Henderson Farmers Supply Co., Henderson	2.94	11.50	6.61	32.4	34.3
541 U. L. Rogers, Columbia	2.51	<u>11.47</u>	5.96	32.4	32.7
666 Twin Oak #2, Scottsville	2.40	<u>12.05</u>	7.00	32.4	34.3
758 Grayson Co. Supply Co., Leitchfield	2.31	11.80	6.81	32.4	33.6
876 Thomas Warren, Guthrie	2.19	12.50	6.07	32.4	33.4
966 Douglas Helm, Nebo	2.52	11.88	6.85	32.4	34.1
1011 Robert James Feed Co., Franklin	2.28	12.40	<u>5.37</u>	32.4	32.8
1050 Felty Produce Co., Beaver Dam	2.28	12.05	<u>6.96</u>	32.4	34.0
0-20-20 (Muriate)					
667 Robert James Feed Co., Franklin	....	19.90	<u>19.48</u>	50.0	49.4
877 City Coal Co., Fulton	....	20.40	<u>21.58</u>	50.0	52.1

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
FEDERAL CHEMICAL COMPANY (Cont.)					
0-12-12 (Muriate)					
339 Basil M. Brooks, Madisonville	....	11.90	12.29	32.4	32.6
465 Feichter Hdwe. Co., London	....	11.40	11.67	32.4	31.3
628 Hall Seed Co., Louisville	....	11.95	12.49	32.4	32.8
759 Lynn Flood Seed Store, Finchville	....	13.30	12.47	32.4	34.4
878 Edward C. Bryant Co., Rumsey	....	12.10	12.13	32.4	32.6
967 Corbin-Bennett Farm Supply, Providence	....	11.60	11.75	32.4	31.7
1012 Shaker Feed & Seed Co., South Union	....	11.90	12.08	32.4	32.4
1013 Salem Feed & Seed Co., Salem (1)	....	12.20	12.07	32.4	32.7
20% Superphosphate					
796 Ross Feed Co., Murray	....	20.05		26.0	26.1
822 Robinson Impl. & Motor Co., Princeton	....	20.00	....	26.0	26.0
914 Taylor Co. Feed & Impl. Co., Campbellsville	....	19.93	....	26.0	25.9
1051 Felty Produce Co., Beaver Dam	....	19.80	....	26.0	25.7
1076 Husa Butler, Dyer	....	19.88	....	26.0	25.8
20.50% Ammonium Nitrate Limestone					
542 H. B. Leneave & Son., Golden Pond	20.44	....	....	49.2	49.1
50% Muriate of Potash					
879 City Coal Co., Fulton	....	....	51.36	45.0	46.2
HUTSON CHEMICAL COMPANY					
Murray, Kentucky					
4-12-8 (Muriate)					
845 Manufacturer's Whse.		3.70	12.35	8.61	38.4
1014 Manufacturer's Whse.		3.66	12.10	8.02	38.4
1052 Ellis Popcorn Co., Murray		3.55	12.20	7.99	38.4
3-9-18 (Muriate)					
152 Manufacturer's Whse.		3.04	10.10	15.99	42.8
50% Sulfate of Potash					
153 Calloway Co. Soil Improvement Assn'. Murray		....	....	51.64	55.0

(1) Boron guaranteed 0.45% percent -found 0.41 percent

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
INTERNATIONAL MINERALS & CHEMICAL CORPORATION Lockland, Ohio					
10-10-10 (Muriate)					
631 Farmers Co-op. Store, Owensboro	<u>9.02</u>	11.35	<u>9.44</u>	50.0	49.1
760 Shepherdsville Feed Mill, Shepherdsville	9.78	10.80	10.54	50.0	51.1
6-12-12 (Muriate)					
340 Farmers Co-op. Store, Owensboro	5.84	11.95	11.75	46.4	45.7
6-12-12 (Muriate 3, Sulfate 9)					
341 Farmers Co-op. Store, Owensboro	5.81	12.20	<u>11.59</u>	46.4	45.9
342 Douglas McLoney, Cynthiana	6.05	12.00	<u>11.95</u>	46.4	46.4
6-8-16 (Sulfate)					
213 Owingsville Farmers Supply, Owingsville	5.88	8.85	16.06	45.6	46.4
466 Gardner Coal & Feed Co., Nicholasville	5.96	8.50	16.04	45.6	46.2
6-8-6 (Sulfate)					
214 Lipscomb Coal & Feed Co., Walton	5.91	8.90	6.87	35.6	37.4
343 Douglas McLoney, Cynthiana	5.83	8.80	6.21	35.6	36.6
5-20-20 (Muriate)					
629 Farmers Co-op. Store, Owensboro	<u>4.69</u>	19.90	<u>19.72</u>	62.0	61.0
761 Shepherdsville Feed Mill, Shepherdsville	4.86	20.55	<u>19.62</u>	62.0	62.0
5-10-5 (Muriate)					
552 Harlan Fruit Co., Harlan	5.13	10.50	5.21	35.0	36.1
4-12-8 (Sulfate)					
215 Farmers Supply Co., Morgantown	4.05	12.05	7.98	38.4	38.5
216 J.R. Prather, Maysville	4.00	12.20	8.85 ^a	38.4	39.5
3-12-12 (Muriate)					
630 Farmers Co-op. Store, Owensboro	2.98	12.70	12.18	40.4	41.4

a. Excess Muriate equivalent to 0.75 percent potash

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
INTERNATIONAL MINERALS & CHEMICAL CORPORATION (Cont.)					
2-12-6 (Muriate)					
217 Lipscomb Coal & Feed Co., Walton	2.37	12.10	6.72	32.4	34.0
762 Woodson Lewis, Greensburg	2.18	12.30	6.76	32.4	33.9
763 Cundiff & Squires, Cane Valley	1.91	12.75	6.55	32.4	33.7
835 Marvin May, Eubanks	1.98	12.65	6.95	32.4	34.1
0-20-20 (Muriate)					
218 Caneyville Roller Mills, Caneyville	19.95	20.28	50.0	50.2
344 Farmers Co-op. Store, Owensboro	19.88	20.08	50.0	49.9
632 Manufacturer's Plant, Somerset	19.62	20.76	50.0	50.3
715 L. & R. Feed Store, Owenton	20.20	20.68	50.0	50.9
855 Harlan Fruit Co., Harlan	19.67	21.10	50.0	50.7
1077 Cooper Bros. Feed Store, Elizabethtown	19.83	20.70	50.0	50.5
0-14-7 (Muriate)					
467 Allen's Coal Service, Brandenburg	13.90	7.27	29.8	29.9
633 Roy Burris Grocery, Zula	14.10	7.84	29.8	30.8
0-12-12 (Muriate)					
345 Buckhorn Coal Co., Campbellsville	12.40	12.99	32.4	33.9
468 Allen's Coal Service, Brandenburg	12.25	11.72	32.4	32.4
856 Patrick Store, Williamsburg	13.20	12.50	32.4	31.7
20% Superphosphate					
219 Farmers Supply Co., Morgantown	19.90	....	26.0	25.9
220 Harlan Fruit Co., Harlan	20.83	....	26.0	27.1
634 W. S. Allen & Co., Liberty	20.70	....	26.0	26.9
764 Ralph Hovious, Hustonsville	20.80	....	26.0	27.0
765 Cooper Bros. Feed Store, Elizabethtown	19.70	....	26.0	25.6
805 Boyd Anderson, Ezel	20.40	....	26.0	26.5
857 Harlan Fruit Co., Harlan	19.70	....	26.0	25.6
915 Owingsville Farmers Supply, Owingsville	20.90	....	26.0	27.2
1078 Farm & Home Supply, Irvine	20.25	....	26.0	26.3
33.50% Ammonium Nitrate					
349 Farmers Co-op. Store, Owensboro	33.52	....	....	67.0	67.0
50% Muriate of Potash					
346 Southern States Co-op., Henderson	52.12	45.0	46.9

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
INTERNATIONAL MINERALS & CHEMICAL CORPORATION (Cont.)					
48% Sulfate of Potash					
347 Douglas McLoney, Cynthiana	....	....	51.56	52.8	56.7
348 Farmers Co-op. Store, Owensboro	....	....	50.88	52.8	56.0
21.50% Sulfate of Potash Magnesia					
469 J. N. Higgins, Princeton	....	....	22.86	43.0	45.9
INTERSTATE FERTILIZER COMPANY					
Cairo, Illinois					
8-8-8 (Muriate)					
154 Calloway Co. Soil Improvement Assn'. Murray	7.87	8.60	8.19	41.6	42.2
591 Farmers Impl. & Supply Co., Hickman	8.08	7.95	8.10	41.6	41.8
1015 Calloway Co. Soil Improvement Ass'n. Murray	7.86	8.50	10.26	41.6	44.2
6-12-12 (Muriate)					
880 City Coal Co., Fulton	5.77	12.00	13.09	46.4	47.0
5-10-10 (Sulfate)					
155 Calloway Co. Soil Improvement Assn'. Murray	4.97	10.10	10.02	40.0	40.1
4-16-16 (Muriate)					
350 Yopp Seed Co., Paducah	3.98	15.85	16.68	51.2	51.7
4-12-8 (Muriate)					
156 Calloway Co. Soil Improvement Assn'. Murray	3.99	11.90	8.24	38.4	36.1
846 Farmers Gin Co., Clinton	4.24	11.93	9.65	38.4	40.4
881 City Coal Co., Fulton	4.14	11.78	8.61	38.4	39.0
882 Ballard Co. Co-op., La Center	3.94	12.00	8.75	38.4	39.0
3-12-12(Muriate)					
847 Farmers Gin Co., Clinton	3.08	11.90	12.56	40.4	41.0
0-20-20 (Muriate)					
592 Farmers Impl. & Supply Co., Hickman	....	20.15	<u>19.46</u>	50.0	49.6

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
INTERSTATE FERTILIZER COMPANY (Cont.)					
33.50% Ammonium Nitrate					
553 Mayfield Sweet Feed Mill, Mayfield	33.72	....	....	67.0	67.4
60% Muriate of Potash					
470 Marshall Co. Soil Improvement Assn', Benton	....	....	<u>59.48</u>	54.0	53.5
797 Graves Co. Soil Improvement Assn', Mayfield	....	....	60.08	54.0	54.1
883 Ballard Co. Co-op., La Center	....	....	<u>58.64</u>	54.0	<u>52.8</u>
50% Sulfate of Potash					
884 Southern States Co-op., Paducah	....	....	50.32	55.0	55.3
KENTUCKY FERTILIZER WORKS Winchester, Kentucky					
8-8-8 (Muriate) "P. P. F. Brand"					
351 Southern States Co-op., Lexington	<u>7.09</u>	8.50	8.49	41.6	40.9
6-8-16 (Sulfate) "P. P. P. "					
221 Robinson & Turley, Richmond	5.90	8.95	15.78	45.6	46.3
6-8-6 (Sulfate) "P. P. F. "					
222 Dean & Dean, Augusta	6.06	8.40	6.05	35.6	36.2
543 Robinson & Turley, Richmond	6.01	7.82	7.48	35.6	36.9
544 Estes Bros., Winchester	<u>5.57</u>	8.45	6.91	35.6	36.2
5-10-5 (Sulfate) "P. P. F. "					
223 Dean & Dean, Augusta	4.91	10.05	5.82	35.0	35.7
4-6-15 (Muriate) "P. P. F. "					
224 Dean & Dean, Augusta	3.81	6.30	16.14	38.2	39.3
4-6-15 (Sulfate) "P. P. F. "					
225 Dean & Dean, Augusta	<u>2.81</u>	7.60	14.92	38.2	<u>37.7</u>
3-12-12 (Muriate) "P. P. F. "					
228 Davis Gillespie, Flemingsburg	3.00	12.90	13.02	40.4	42.5
688 Farmers Supply, Danville	3.05	12.70	<u>11.72</u>	40.4	41.1
916 Farmers Supply, Danville	3.17	12.30	<u>11.64</u>	40.4	40.7
3-12-12 (Sulfate) "P. P. F. "					
229 Davis Gillespie, Flemingsburg	3.34	12.15	12.59 ^a	40.4	41.8

a. Excess Muriate equivalent to 0.87% potash

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
KNOXVILLE FERTILIZER COMPANY					
Knoxville, Tennessee					
6-12-12 (Muriate) Pulverized					
352 Cooper Seed & Feed Store, Bandana	<u>5.63</u>	11.75	12.04	46.4	45.4
885 Clinton Limestone Co., Clinton	<u>5.80</u>	<u>11.58</u>	11.86	46.4	45.4
6-8-8 (Muriate) Pulverized					
836 John J. Carter, Waynesburg	5.95	9.25	<u>7.68</u>	37.6	38.7
6-8-6 (Muriate) Pulverized					
471 Hal Young, Hawesville	5.81	8.25	5.96	35.6	35.5
1053 Lear and Ballard, Lancaster	<u>6.11</u>	8.40	8.44	35.6	38.7
1079 Grayson Co. Supply Co., Leitchfield	5.66	9.45	6.91	35.6	37.6
6-8-6 (Sulfate) Pulverized					
157 Powell-Hackney Grocery, Jackson	6.20	8.70	6.66	35.6	37.5
230 Oldham Feed & Supply Co., Buckner	6.22	9.25	6.70	35.6	38.2
353 Bray & Co., Gamaliel	<u>5.73</u>	8.60	6.16	35.6	35.9
354 People's Feed Mill, Cave City	<u>5.73</u>	8.60	6.50 ^a	35.6	36.3
472 Hal Young, Hawesville	<u>5.66</u>	8.40	<u>5.65</u>	35.6	35.0
5-10-5 (Muriate) Pulverized					
473 McCauley Bros. Seed Co., Versailles	<u>4.21</u>	10.35	7.92	35.0	36.8
4-12-12 (Sulfate) Pulverized					
250 W.E. Scott, Danville	3.97	12.20	12.15	42.4	42.7
355 Barnett & Sullivan, Harrodsburg	3.97	12.70	12.09	42.4	43.3
4-12-8 (Sulfate) Pulverized					
545 Kennedy Supply Store, Liberty	3.96	11.95	8.80	38.4	39.1
4-12-8 (Muriate) Pulverized					
886 Princeton Mills, Princeton	3.75	12.40	8.01	38.4	38.4
887 Clinton Limestone Co., Clinton	3.76	12.10	8.08	38.4	38.1
4-12-4 (Muriate)					
231 Jellico Grocery, Harlan	3.97	11.90	4.76	34.4	35.0
356 Bray & Co., Gamaliel	4.02	11.68	4.36	34.4	34.4
635 Hobart & Milton Roberts, Monticello	<u>3.70</u>	<u>12.15</u>	4.43	34.4	34.4
888 Covington Grain & Seed Co., Guthrie	3.81	12.50	4.21	34.4	34.8
969 Exchange Mill, Nebo	3.93	11.80	4.94	34.4	35.0
1086 Knoxville Fertilizer Works, London	3.91	11.90	4.38	34.4	34.5

a. Excess Muriate equivalent to 0.30 percent potash

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
KNOXVILLE FERTILIZER COMPANY (Cont.)					
4-8-16 (Sulfate)					
232 Madison Farmers Supply, Richmond	4.02	8.85	15.90	41.6	42.6
474 McCauley Bros. Seed Co., Versailles	3.86	9.10	<u>12.78</u> ^a	41.6	<u>39.4</u>
4-8-12 (Sulfate)					
233 Benton Pearson, College Hill	3.91	8.25	11.80	37.6	37.5
4-8-8 (Muriate)					
716 T. L. Harris, Elkton	<u>3.68</u>	8.50	8.20	33.6	33.8
3-12-12 (Muriate) Pulverized					
357 Globmyers Lumber & Coal Co., Carrollton	3.08	11.90	12.81	40.4	41.2
636 Hobart & Milton Roberts, Monticello	2.85	12.00	10.40	40.4	<u>38.5</u>
637 Sanders Supply, Lancaster	3.13	11.80	<u>14.06</u>	40.4	42.5
823 Wyndall's Farm Store, Owensboro	3.34	12.00	11.18	40.4	40.3
889 Clinton Limestone Co., Clinton	2.78	<u>11.53</u>	<u>11.70</u>	40.4	<u>39.1</u>
970 Exchange Mill, Nebo	3.37	<u>12.20</u>	<u>12.20</u>	40.4	<u>41.6</u>
3-12-12 (Muriate) Pulverized, with 60# Borax per ton					
475 Manufacturer's Whse., London (1)	2.84	<u>11.27</u>	12.80	40.4	40.0
3-9-6 (Muriate)					
251 W. E. Scott, Danville	3.13	10.08	6.50	30.8	32.9
476 Hal Young, Hawesville	3.28	9.10	6.19	30.8	31.7
546 Wyndall's Farm Store, Owensboro	2.88	9.60	6.16	30.8	31.4
689 Clay & Johnson, Fountain Run	2.76	10.10	5.76	30.8	31.4
1016 Nebo Exchange Mill, Nebo	3.15	10.00	6.77	30.8	33.1
3-9-6 (Sulfate)					
358 Bray & Co., Gamaliel	3.43	9.20	6.65 ^b	30.8	32.5
547 T. L. Harris, Elkton	<u>2.67</u>	9.15	6.31 ^c	30.8	30.6
593 Wyndall's Farm Store, Owensboro	<u>3.05</u>	8.95	6.04	30.8	30.9
3-9-6 (Muriate 4, Sulfate 2)					
548 T. L. Harris, Elkton	3.20	9.20	<u>5.34</u>	30.8	30.9
3-9-6 (Muriate 3, Sulfate 3)					
477 Hal Young, Hawesville	3.24	8.95	6.45	30.8	31.7

a. Excess Muriate equivalent to 1.15 percent potash

b. " " " " 1.08 " "

c. " " " " 1.12 " "

(1) Boron guaranteed 0.34 percent - found 0.30 percent

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
KNOXVILLE FERTILIZER COMPANY (Cont.)					
2-12-12 (Muriate)					
359 Cooper Seed & Feed Store, Bandana	2.18	<u>11.50</u>	<u>11.29</u>	38.4	37.4
2-12-6 (Muriate)					
360 Edward Bryant, Waterview	2.86	<u>11.55</u>	6.88	32.4	34.5
549 T. L. Harris, Elkton	2.11	<u>11.55</u>	6.15	32.4	32.2
550 Wyndall's Farm Store, Owensboro	2.95	<u>11.92</u>	6.91	32.4	35.1
638 Kennedy Supply Co., Liberty	2.18	12.40	6.24	32.4	31.5
668 Farmers Feed Market, Bowling Green	2.19	12.85	6.17	32.4	34.0
717 T. L. Harris, Elkton	2.04	12.50	6.16	32.4	33.2
766 Estes & Shirley, Edmonton	2.34	12.25	6.32	32.4	33.7
1017 Babb & Robertson Co., Adairville	2.08	12.05	6.81	32.4	33.4
1018 Nebo Exchange Mill, Nebo	2.32	12.20	6.39	32.4	33.7
0-14-14 (Muriate) Pulverized					
848 Clinton Limestone Co., Clinton	....	<u>12.88</u>	<u>11.59</u>	36.8	<u>33.0</u>
1019 Nebo Exchange Mill, Nebo	....	<u>14.05</u>	<u>14.01</u>	36.8	<u>36.9</u>
0-14-7 (Muriate)					
478 Princeton Mills, Princeton	....	14.15	7.49	29.8	30.5
0-12-12 (Muriate) Pulverized					
361 Cooper Seed & Feed Store, Bandana	....	<u>11.70</u>	13.47	32.4	33.5
690 G. H. Bowles & Son, Glasgow	....	<u>12.00</u>	12.18	32.4	32.6
837 Roscoe Morris, Somerset	....	<u>13.00</u>	13.20	32.4	34.8
858 C. E. Herrin, Willailla	....	<u>11.65</u>	13.34	32.4	33.3
917 City Supply Co., Columbia	....	<u>13.30</u>	<u>10.38</u>	32.4	32.3
1020 Farmers Feed Market Bowling Green	....	12.10	12.74	32.4	33.3
48% Superphosphate					
767 Allison Shipp, Campbellsville	....	47.90	....	62.4	62.3
47% Superphosphate					
234 Oldham Feed & Supply Co. Buckner	....	47.50	....	61.1	61.7
718 T. L. Harris, Elkton	....	48.25	....	61.1	62.7
20% Superphosphate Pulverized					
691 Rock's Farm Center, Munfordsville	....	<u>19.37</u>	....	26.0	25.2
768 W. C. Turner, Greensburg	....	<u>19.95</u>	....	26.0	25.9
824 Wyndall's Farm Store, Owensboro	....	20.35	....	26.0	26.5

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
KNOXVILLE FERTILIZER COMPANY (Cont.)					
20.60% Calcium Cyanamid 480 Young Bros. Feed Store, Lewisport	20.60	....	....	49.4	49.4
50% Muriate of Potash 479 Hal Young, Hawesville	....	....	52.12	45.0	46.9
48% Sulfate of Potash 362 Barnett & Sullivan, Harrodsburg	....	....	50.92	52.8	56.0
551 Kennedy Supply Store, Liberty	....	....	50.36	52.8	55.4
LION OIL COMPANY El Dorado, Arkansas					
33.50% Ammonium Nitrate 719 H. T. Nuckols, Elkton	33.52	....	....	67.0	67.0
1021 Dairyman's Supply, Mayfield	33.96	....	....	67.0	67.9
LOUISVILLE FERTILIZER COMPANY Division Armour & Co. Nashville, Tennessee					
6-8-6 (Muriate) Guano 1054 Ratliff Hdwe. Co., Princeton	6.10	8.90	5.98	35.6	36.9
1092 Tichenor Bros. Grocery, Calhoun	<u>5.45</u>	9.50	5.90	35.6	36.2
4-12-8 (Muriate) 1055 Ratliff Hdwe. Co., Princeton	3.86	12.35	8.03	38.4	38.6
0-20-20 (Muriate) with 60# Borax per ton 669 Robert James Feed Co., Franklin(1)	....	<u>19.40</u>	20.28	50.0	49.6
MIDWESTERN PHOSPHATE CORPORATION Madison, Wisconsin					
0-20-20 (Muriate) 235 Harlan Fruit Co., Harlan	....	<u>18.17</u>	<u>17.58</u>	50.0	<u>45.4</u>
20% Superphosphate 554 Alvin McCord, Hopkinsville	....	20.40	....	26.0	26.5

(1) Boron guaranteed 0.34 percent - found 0.31 percent

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
MISSOURI PLANT FOOD COMPANY, SIKESTON, MISSOURI					
6-12-12 (Muriate) "Mule Brand" 1093 Bugg Brothers Feed & Supply, Clinton	5.95	11.90	12.91	46.4	47.1
4-16-16 (Muriate) "Mule Brand" 1094 Bugg Brothers Feed & Supply, Clinton	4.69	<u>15.43</u>	16.25	51.2	52.2
4-12-8 (Muriate) "Mule Brand" 1095 Bugg Brothers Feed & Supply, Clinton	4.64	12.33	8.46	38.4	40.5
3-12-12 (Muriate) "Mule Brand" 1022 T. W. Moore & Son, Clinton	3.20	12.00	12.86	40.4	41.7
1096 Bugg Brothers Feed & Supply, Clinton	3.56	11.90	12.70	40.4	42.1
0-20-20 (Muriate) "Mule Brand" 849 Cooper Seed & Feed Store, Bandana		20.35	21.38	50.0	51.8
60% Muriate of Potash "Mule Brand" 1097 Bugg Brothers Feed & Supply, Clinton			60.36	54.0	54.3
NATIONAL TUBE COMPANY, LORAIN PLANT, LORAIN, OHIO					
20.6% Ammonium Sulfate 363 W. E. McCauley, Cynthiana	21.16			41.2	42.3
NORTH AMERICAN FERTILIZER COMPANY, LOUISVILLE, KENTUCKY					
6-8-6 (Muriate) 158 Kentucky State Penitentiary Eddyville	5.97	7.90	6.79	35.6	36.2
594 Basil M. Brooks, Madisonville	<u>4.81</u>	8.00	7.43	35.6	34.7
840 W. D. Cunningham, Webbs Cross Road	<u>5.53</u>	7.93	6.02	35.6	34.6
918 Embury Tractor & Supply, Shively	6.05	8.00	6.35	35.6	36.1
6-8-6 (Sulfate) 159 Watson Coal & Feed Co., Princeton	<u>5.65</u>	<u>7.73</u>	6.85 ^a	35.6	35.4
364 Erle Mulligan, St. Joseph	<u>6.14</u>	7.75	6.81	35.6	36.4
365 W. E. McCauley and Earl Kendall, Cynthiana	<u>5.65</u>	<u>7.63</u>	7.14	35.6	35.6
481 Emmick's Service Station, Lewisport	<u>5.73</u>	<u>7.70</u>	6.34	35.6	35.0
1098 Fletcher Taylor & Sons, Nicholasville	5.78	8.05	6.83	35.6	36.1

a. Excess Muriate equivalent to 0.47 percent potash

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
NORTH AMERICAN FERTILIZER COMPANY, (Cont.)					
5-10-15 (Sulfate) 1099 Fletcher Taylor & Son Nicholasville	5.12	<u>9.25</u>	15.41	45.0	44.8
5-10-10 (Muriate) 769 Leitchfield Transfer, Leitchfield	<u>4.66</u>	10.00	<u>9.55</u>	40.0	<u>38.9</u>
4-12-12 (Muriate) 160 Kentucky State Reformatory, Eddyville	4.44	<u>11.30</u>	13.21	42.4	43.7
236 Kentucky State Reformatory, LaGrange	3.99	<u>11.70</u>	12.16	42.4	42.2
825 Kentucky State Reformatory, Eddyville	4.41	<u>11.45</u>	12.26	42.4	42.8
4-12-8 (Sulfate) 366 W. E. McCauley & Earl Kendall, Cynthiana	<u>3.04</u>	11.95	9.20	38.4	37.6
4-12-4 (Muriate) 555 Bunton Seed Company, Louisville	4.02	<u>10.70</u>	7.18	34.4	36.1
4-8-12 (Muriate) 161 Watson Coal & Feed Co., Princeton	4.16	8.03	<u>11.31</u>	37.6	37.3
482 Renfro Supply Company, Williamsburg	3.95	<u>7.20</u>	12.47	37.6	37.0
556 Basil M. Brooks, Madisonville	3.82	<u>7.95</u>	<u>11.52</u>	37.6	36.7
4-8-12 (Sulfate) 367 W. E. McCauley & Earl Kendall, Cynthiana	<u>3.63</u>	7.85	12.47	38.4	37.2
483 Wems Park, Horse Branch	<u>4.12</u>	<u>7.57</u>	12.59	37.6	37.9
3-12-12 (Muriate) 237 Kentucky State Reformatory LaGrange	3.40	11.80	12.47	40.4	41.4
770 J. A. McCullough, Buechel	3.22	<u>11.50</u>	12.41	40.4	40.7
841 W. D. Cunningham, Webbs Cross Roads	3.26	<u>11.15</u>	11.80	40.4	39.7
919 Embry Tractor & Supply, Shively	3.36	<u>10.93</u>	13.09	40.4	40.9
3-9-6 (Muriate) 162 Watson Coal & Feed Co., Princeton	3.12	9.10	6.76	30.8	31.9
484 Wems Park, Horse Branch	3.07	<u>8.70</u>	6.29	30.8	30.8
2-12-6 (Muriate) 238 Caneyville Roller Mill, Caneyville	2.01	<u>11.00</u>	6.60	32.4	31.8

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
NORTH AMERICAN FERTILIZER COMPANY, (Cont.)					
2-12-6 (Muriate) (Cont.)					
485 Felty Produce Company, Beaver Dam	1.94	11.22	7.35	32.4	32.7
486 Carl J. Hagman, Cloverport	1.27	<u>10.55</u>	6.86	32.4	30.1
487 Robert Pence, Philpot	<u>2.98</u>	<u>10.67</u>	7.20	32.4	<u>34.0</u>
771 Young Seed House, Campbellsville	2.24	<u>10.03</u>	6.38	32.4	30.9
1056 Alvin McCord, Hopkinsville	1.92	<u>9.75</u>	<u>5.63</u>	32.4	<u>29.2</u>
0-20-20 (Muriate)					
639 Bunton Seed Company, Louisville		<u>18.60</u>	20.48	50.0	48.8
772 Leitchfield Transfer, Leitchfield		<u>17.60</u>	19.74	50.0	<u>46.9</u>
1023 Morgantown Feed Mill, Morgantown		<u>18.75</u>	<u>18.38</u>	50.0	<u>46.9</u>
0-12-12 (Muriate)					
488 Emmick's Service Station, Lewisport		<u>10.50</u>	12.31	32.4	30.9
489 Cann's Feed Store, Clarkson		<u>10.60</u>	11.25	32.4	<u>30.0</u>
595 Gilbert Carrier, Millwood		<u>11.02</u>	<u>11.66</u>	32.4	<u>30.9</u>
773 Young Seed House, Campbellsville		<u>10.90</u>	<u>11.56</u>	32.4	<u>30.6</u>
1080 Simpson Brothers Feed Mill, Columbia		<u>9.61</u>	<u>11.76</u>	32.4	<u>29.3</u>
20% Superphosphate					
920 W. E. McCauley & Earl Kendall, Cynthiana		20.40		26.0	26.5
921 Rizer Brothers, Bardstown		20.20		26.0	26.3
60% Muriate of Potash					
368 Farmers Co-op Store, Owensboro			<u>51.92</u>	54.0	46.7
48% Sulfate of Potash					
369 W. E. McCauley & Earl Kendall, Cynthiana			48.24	52.8	53.1
922 W. E. McCauley & Earl Kendall, Cynthiana			51.52	52.8	56.7
OHIO VALLEY FERTILIZER CORPORATION, MAYSVILLE, KENTUCKY					
5-10-10 (Muriate)					
923 Ohio Valley Fertilizer Corp., Maysville	5.02	10.30	10.43	40.0	40.8
4-12-8 (Sulfate)					
239 Ohio Valley Fertilizer Corp., Maysville	3.85	12.10	8.03	38.4	38.3
557 Bradley's Grocery, Moorefield	4.08	<u>11.25</u>	<u>7.72</u>	38.4	37.4
3-12-12 (Muriate)					
924 Ohio Valley Fertilizer Corp., Maysville	3.23	<u>11.48</u>	11.99	40.4	40.2
925 Bertram & Chapman, Greenup	2.98	<u>10.90</u>	12.72	40.4	39.8

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
PHILLIPS CHEMICAL COMPANY, BARTLESVILLE, OKLAHOMA					
33% Ammonium Nitrate					
640 I. K. Miller & Son, Campbellsville	33.88			66.0	67.8
720 N. T. Nuckols, Elkton	33.68			66.0	67.4
PRICE CHEMICAL COMPANY, LOUISVILLE, KENTUCKY					
6-8-8 (Muriate)					
490 B. B. Landrum, Horse Branch	6.72	8.15	8.13	37.6	39.4
641 St. Matthews Produce Exchange, St. Matthews	6.40	8.00	8.86	37.6	39.3
6-8-8 (Sulfate)					
370 Young Seed House, Campbellsville	6.65	9.15	<u>7.74</u>	37.6	40.0
491 Kincaid General Merchandise, Hawesville	<u>5.74</u>	9.10	7.92	37.6	38.3
4-8-12 (Sulfate)					
492 Hardin County Mills, Elizabethtown	4.10	8.00	12.45 ^a	37.6	38.3
493 Kincaid General Merchandise, Hawesville	4.12	8.55	13.06	37.6	39.6
3-12-12 (Muriate)					
721 Henderson Underwood Implement Co., Hopkinsville	2.95	12.55	12.94	40.4	41.9
838 Stockton Brothers, Albany	2.92	12.50	12.34	40.4	41.2
3-9-6 (Muriate)					
494 Kincaid General Merchandise, Hawesville	3.43	9.45	6.21	30.8	32.4
2-12-6 (Muriate)					
722 Henderson Underwood Implement Co., Hopkinsville	1.92	12.20	6.83	32.4	33.3
774 Tuxedo Feed Store, Hodgenville	2.12	12.30	7.35	32.4	34.4
926 Caulk Hardware Company, Campbellsville	1.80	12.15	6.02	32.4	32.2
20% Superphosphate					
775 Hardin County Mills, Elizabethtown		<u>19.60</u>		26.0	25.5
A. F. PRINGLE & COMPANY, INC., CHARLESTON, SOUTH CAROLINA					
20% Superphosphate "Merco"					
839 Farmers Supply, Monticello		19.80		26.0	25.7
859 Southern States Co-op., Shelbyville		20.20		26.0	26.3
927 Metcalfe County Farmers Supply, Edmonton		<u>19.65</u>		26.0	25.6
928 Southern States Co-op., Flemingsburg		<u>19.75</u>		26.0	25.7

a. Excess Muriate equivalent to 0.46 percent potash

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
A. F. PRINGLE & COMPANY, INC., CHARLESTON, SOUTH CAROLINA (Cont.)					
20% Superphosphate "Merco" (Cont.)					
929 Southern States Cooperative, Cynthiana		19.90		26.0	25.9
1057 C & C Hardware Company, Hartford		19.63		26.0	25.5
1081 Ralph Hovious, Hustonville		<u>20.35</u>		26.0	26.5
SCHROCK FERTILIZER COMPANY, CONGERVILLE, ILLINOIS					
20.5% Ammonium Sulfate					
372 Crafton Brothers, Henderson	21.04			41.0	42.1
497 Land - O'Nan Warehouse, Sturgis	20.96			41.0	41.9
O. M. SCOTT & SONS COMPANY, MARYSVILLE, OHIO					
9-7-4 (Muriate)					
373 Hillenmeyer's Nurseries, Lexington	9.46	7.80	4.29	38.4	40.6
642 Jack Dayton & Son, Louisville	9.48	7.50	4.32	38.4	40.3
1082 Farmers Supply Company, Pikeville	9.49	7.50	5.12	38.4	41.1
SMITH AGRICULTURAL CHEMICAL COMPANY, INDIANAPOLIS, INDIANA					
10-6-4 (Muriate)					
559 Bunton Seed Company, Louisville	8.90	7.20	5.15	39.2	39.6
931 Bunton Seed Company, Louisville	<u>7.42</u>	8.60	5.96	39.2	39.1
4-12-4 (Muriate) "Sacco Brand"					
560 Bunton Seed Company, Louisville	3.83	12.05	4.86	34.4	35.2
SPENCER CHEMICAL COMPANY, PITTSBURG, KANSAS					
33.5% Ammonium Nitrate Fertilizer					
596 Curtis & McComas, Burkesville	33.92			67.0	67.8
723 T. L. Harris, Elkton	33.88			67.0	67.8
776 Curtis & McComas, Burkesville	34.00			67.0	68.0
1100 W. C. Blair, Russell Spring	34.08			67.0	68.2
SWIFT & COMPANY, NATIONAL STOCK YARDS, ILLINOIS					
8-24-8 (Muriate) "Red Steer Brand"					
374 George Patmor & Son, Marion	7.95	<u>23.40</u>	8.01	60.8	60.0
8-8-8 (Muriate) "Red Steer Brand"					
375 Stanley Penn, Lexington	7.78	8.75	8.07	41.6	42.2
376 Cooper Seed & Feed Company, Bandana	8.02	8.65	7.79	41.6	42.2
6-10-4 (Muriate) "Vigoro Brand"					
377 C. S. Brent & Co., Lexington	5.93	10.20	3.94	36.0	36.0
378 Hillenmeyer Nurseries, Lexington	5.74	10.70	4.56	36.0	36.9
597 Farmers Supply Company, Danville	<u>6.65</u>	9.95	3.93	36.0	37.1

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
SWIFT & COMPANY, NATIONAL STOCK YARDS, ILLINOIS (Cont.)					
6-10-4 (Muriate) "Vigoro Brand" (Cont.)					
1025 Calloway County Soil Improvement Assoc., Murray	6.11	10.50	4.28	36.0	37.1
1083 Farmers Supply Company, Danville	6.24	9.95	4.11	36.0	36.5
6-8-6 (Sulfate) "Blenn Brand"					
379 Stanley Penn, Lexington	6.01	8.50	5.79	35.6	36.0
380 Cooper Seed & Feed Store, Bandana	5.87	8.65	6.97 ^a	35.6	37.1
381 Farmers Co-op Store, Owensboro	<u>5.56</u>	10.10	6.33 ^b	35.6	37.6
561 Trigg County Trading Company, Cadiz	5.92	8.70	6.24 ^c	35.6	36.5
4-24-12 (Muriate) "Red Steer Brand"					
382 George Patmor & Son, Marion	4.23	<u>20.37</u>	17.82	56.8	58.7
4-12-8 (Sulfate) "Vigoro Brand"					
383 Stanley Penn, Lexington	4.18	<u>11.45</u>	8.28	38.4	38.4
562 Trigg County Trading Co., Cadiz	4.39	<u>11.72</u>	8.80 ^d	38.4	39.6
4-12-4 (Muriate) "Red Steer Brand"					
384 George Patmor and Son, Marion	3.98	12.00	4.22	34.4	34.6
3-12-12 (Muriate) "Blenn"					
385 Farmers Co-op Store, Owensboro	2.94	12.05	12.34	40.4	40.7
3-9-18 (Muriate) "Red Steer Brand"					
163 Calloway County Soil Improvement Assoc., Murray	3.20	9.00	18.78	42.8	44.0
386 Farmers Co-op Store, Owensboro	2.80	9.05	18.42	42.8	42.9
0-20-20 (Muriate) "Red Steer Brand"					
972 Morganfield Hardware Company, Morganfield		<u>15.58</u>	<u>17.70</u>	50.0	<u>42.4</u>
TENNESSEE CHEMICAL COMPANY, NASHVILLE, TENNESSEE					
10-10-10 (Muriate) "Ox Brand"					
777 Ice's Produce, Bardstown	<u>9.16</u>	11.30	10.29	50.0	50.2
6-8-6 (Muriate) "Ox Guano"					
973 Harralson Seed Company, Owensboro	6.09	8.90	5.99	35.6	36.9

a. Excess Muriate equivalent to 1.65 percent potash

b. Excess Muriate equivalent to 1.47 percent potash

c. Excess Muriate equivalent to 0.68 percent potash

d. Excess Muriate equivalent to 1.08 percent potash

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
TENNESSEE CHEMICAL COMPANY, NASHVILLE, TENNESSEE (Cont.)					
3-12-12 (Muriate) "Ox Guano"					
827 Quality Grocery & Hardware Company, Greenville	2.94	12.20	11.44	40.4	40.0
974 Harralson Seed Co., Owensboro	3.12	13.90	<u>12.48</u>	40.4	43.4
1058 W. H. Arnold & Co., Madisonville	2.90	12.10	<u>10.71</u>	40.4	39.0
3-12-6 (Muriate) "Old Black Joe"					
724 N. T. Nuckols, Elkton	2.96	12.15	<u>5.74</u>	34.4	34.2
826 Quality Grocery & Hardware Co., Greenville	3.23	12.75	6.95	34.4	34.2
2-12-6 (Muriate) "Ox Guano"					
725 N. T. Nuckols, Elkton	2.14	12.10	5.82	32.4	32.6
975 Harralson Seed Co., Owensboro	2.18	12.35	6.77	32.4	33.9
1101 N. T. Nuckols, Elkton,	2.27	12.50	6.32	32.4	33.9
0-20-20 (Muriate)					
976 Harralson Seed Co., Owensboro		20.00	<u>19.62</u>	50.0	49.6
0-14-7 (Muriate)					
726 N. T. Nuckols, Elkton		14.00	8.09	29.8	30.9
0-12-12 (Muriate)					
727 N. T. Nuckols, Elkton		12.20	12.34	32.4	33.0
828 Quality Grocery & Hardware Company, Greenville		12.50	12.67	32.4	33.7
977 Harralson Seed Co., Owensboro		12.65	12.75	32.4	33.9
20% Superphosphate "Ox Guano"					
728 N. T. Nuckols, Elkton		20.65		26.0	26.8
978 Harralson Seed Co., Owensboro		20.00		26.0	26.0
1102 N. T. Nuckols, Elkton		21.10		26.0	27.4
TENNESSEE CORPORATION, LOCKLAND, OHIO					
6-8-6 (Sulfate) "Superior Quality"					
240 Brock Brothers Grain Co., Maysville	5.89	8.45	6.63	35.6	36.6
241 Southern States Cooperative, LaGrange	6.09	8.10	6.83	35.6	36.7
387 Farmers Co-op Store, Owensboro	5.99	7.90	6.91	35.6	36.4
388 Campbellsville Milling Co., Campbellsville	6.02	8.00	6.72	35.6	36.4
498 Ice's Produce, Bardstown	<u>5.72</u>	8.10	7.17 ^a	35.6	36.3
563 Hancock County Farm Supply, Hawesville	<u>5.51</u>	8.50	7.79 ^b	35.6	37.0

a. Excess Muriate equivalent to 0.32 percent potash
b. Excess Muriate equivalent to 1.28 percent potash

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
TENNESSEE CORPORATION, LOCKLAND, OHIO (Cont.)					
5-10-15 (Sulfate) "Superior Quality" 242 Brock Brothers Grain Company, Maysville	4.80	10.20	<u>14.75</u>	45.0	44.6
5-10-10 (Muriate) "Superior Quality" 389 Farmers Feed Mill, Lexington	<u>4.74</u>	10.25	9.93	40.0	39.7
390 Farmers Co-op Store, Owensboro	5.13	10.05	10.01	40.0	40.3
778 Cooper Brothers Feed Store, Elizabethtown	5.03	10.30	10.38	40.0	40.8
5-10-10 (Sulfate) "Superior Quality" 243 Brock Brothers Grain Company, Maysville	4.92	10.22	10.15	40.0	40.3
391 Farmers Feed Mill, Lexington	4.91	9.82	10.27	40.0	39.9
392 Farmers Co-op Store, Owensboro	5.08	10.10	10.68	40.0	41.0
564 Ice's Produce, Bardstown	4.91	9.90	11.18	40.0	40.9
5-10-5 (Muriate) "Loma" 932 Lester L. Lynd & Sons, Ashland	5.32	10.10	5.59	35.0	36.4
4-24-12 (Muriate) "Superior Quality" 499 Gude Hendricks, Hardinsburg	3.90	<u>23.47</u>	11.98	56.8	56.0
4-12-8 (Sulfate) "Superior Quality" 393 Farmers Feed Mill, Lexington	3.78	12.02	8.18 ^a	38.4	38.2
394 G. G. Wood, Carrollton, 395 Farmers Co-op Store, Owensboro	3.95	12.02	8.79 ^b	38.4	39.1
565 Walters & Thompson, Shelbyville	4.20	11.80	8.87	38.4	39.4
	4.06	12.15	8.61	38.4	39.3
3-18-9 (Muriate) "Superior Quality" 396 Farmers Co-op Store, Owensboro	3.08	17.90	9.29	44.6	44.9
3-12-12 (Muriate) "Superior Quality" 397 Farmers Feed Mill, Lexington	2.99	11.87	12.05	40.4	40.3
500 Cooper Brothers Feed Store, Elizabethtown	3.21	11.90	12.96	40.4	41.7
1026 C. M. Warner, Nancy	3.04	11.80	12.73	40.4	41.0
2-12-6 (Muriate) 398 Haydon Mill & Grain Co., Leababon	2.07	11.95	6.72	32.4	33.2
979 I. K. Miller & Son, Campbellsville	2.07	12.35	6.58	32.4	33.5
20% Superphosphate "Superior Quality" 244 Brock Brothers Grain Co., Maysville		19.90		26.0	25.9

a. Excess Muriate equivalent to 0.32 percent potash

b. Excess Muriate equivalent to 1.66 percent potash

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
TENNESSEE CORPORATION,, LOCKLAND, OHIO (Cont.)					
20% Superphosphate "Superior Quality" (Cont.)					
399 G. G. Wood, Carrollton		20.05		26.0	26.1
566 Walters & Thompson, Shelbyville		19.65		26.0	25.5
567 Ice's Produce, Bardstown		19.95		26.0	25.9
779 Leitchfield Transfer, Leitchfield		21.00		26.0	27.3
780 Leitchfield Transfer, Leitchfield		21.15		26.0	27.5
781 Ice's Produce, Bardstown		20.80		26.0	27.0
933 Ice's Produce, Bardstown		20.80		26.0	27.0
TENNESSEE PLANT FOOD COMPANY, CLARKSVILLE, TENN.					
2-12-6 (Muriate)					
891 Southern States Co-op, Hopkinsville	2.18	12.60	6.11	32.4	33.6
0-14-7 (Muriate)					
890 Princeton Mills, Princeton		10.85	11.41	29.8	30.4
U. S. PHOSPHATE PRODUCTS COMPANY, TAMPA, FLORIDA					
46% Florida Superphosphate					
501 Ice's Produce, Bardstown		46.10		59.8	59.9
VALLEY COUNTIES OF KENTUCKY COOPERATIVE, MURRAY, KENTUCKY					
0-30-30 (Muriate)					
599 Ballard County Cooperative					
La Center		31.10	28.76	72.0	72.0
892 Marshall County Soil Improvement Assoc., Benton					
		30.23	30.36	72.0	72.6
1060 Calloway County Soil Improvement Assoc., Murray					
		30.50	29.18	72.0	71.8
62% Calcium Metaphosphate					
164 Calloway County Soil Improvement Assoc., Murray					
		62.33		80.6	81.0
800 Graves County Soil Improvement Assoc., Mayfield					
		62.10		80.6	80.7
48% Superphosphate					
165 Kentucky State Reformatory, Eddyville					
		48.90		62.4	63.6
801 Graves County Soil Improvement Assoc., Mayfield					
		48.10		62.4	62.5
1061 Calloway County Soil Improvement Assoc., Murray					
		48.05		62.4	62.5
47% Superphosphate					
670 Farmers Food Market, Bowling Green					
		47.05		61.1	61.2
1062 Calloway County Soil Improvement Assoc., Murray					
		47.50		61.1	61.8

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
VALLEY COUNTIES OF KENTUCKY COOPERATIVE, MURRAY, KENTUCKY (Cont.)					
46% Superphosphate 166 Calloway County Soil Improvement Assoc., Murray		48.7		59.8	63.3
33% Ammonium Nitrate 167 Kentucky State Reformatory, Eddyville	32.88			66.0	65.8
799 Graves County Soil Improvement Assoc., Murray	33.60			66.0	67.2
VIRGINIA-CAROLINA CHEMICAL CORPORATION, CINCINNATI, OHIO					
10-10-10 (Muriate) 643 C. K. Cundiff, Somerset	9.99	10.85	10.37	50.0	51.4
6-8-6 (Sulfate) 245 Denton Mercantile Co., Hillsboro	5.98	7.95	6.67	35.6	36.2
403 Trimble County Farm Bureau Co-op., Milton	5.18	8.90	6.27 ^a	35.6	35.3
404 Dudgeon & Robinson, Campbells- ville	5.63	8.40	6.35	35.6	35.7
405 C. E. Rose, Owenton	5.48	8.30	6.26	35.6	35.2
502 Grigsby & Co., Bardstown	5.73	8.60	5.95	35.6	35.7
569 Farmers Supply Co., Cadiz	5.77	8.00	6.49	35.6	35.6
4-12-8 (Muriate) 600 Miss Agnes Davis, Russellville	4.13	12.05	8.75	38.4	39.5
729 Hopkinsville Implement Co., Hopkinsville	4.16	12.00	8.20	38.4	38.9
1027 Farmers Supply Co., Morganfield	4.19	11.65	9.14	38.4	39.5
1063 J. T. Beard Feed Store, Crofton	4.28	12.25	9.26	38.4	40.6
4-12-8 (Sulfate) 406 Big Four Feed & Implement Co., Scottsville	4.30	12.42	8.44	38.4	39.9
407 Dudgeon & Robinson, Campbellsville	4.02	12.35	8.30	38.4	39.2
408 C. E. Rose, Owenton	4.08	12.15	8.49	38.4	39.2
570 D. K. Hurt, Elkton	4.05	12.15	8.29	38.4	39.0
4-12-8 (Muriate 2, Sulfate 6) 168 Barnett's Farm Supply, N. Pleasure- ville	4.13	11.23	8.49	38.4	38.2
4-8-16 (Sulfate) 409 Trimble County Farm Bureau Co-op., Milton	4.31	8.00	15.90 ^b	41.6	42.1

a. Excess Muriate equivalent to 0.34 percent potash

b. Excess Muriate equivalent to 0.45 percent potash

Commercial Fertilizers in Kentucky, 1952

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
VIRGINIA-CAROLINA CHEMICAL CORPORATION, CINCINNATI, OHIO (Cont.)					
4-8-12 (Sulfate)					
246 Denton Mercantile Co., Hillsboro	3.88	8.30	12.28	37.6	38.0
571 Dudgeon & Robinson, Campbells- ville	3.82	8.60	<u>11.48</u>	37.6	37.4
3-12-12 (Muriate)					
503 Greenup Milling Co., Greenup	3.24	12.10	11.92	40.4	40.9
572 U. L. Rogers, Columbia	2.78	12.40	12.01	40.4	40.5
644 Dudgeon & Robinson, Campbells- ville	3.23	11.95	12.47	40.4	41.3
934 Woodford Spears & Sons, Paris	3.08	12.15	12.09	40.4	40.8
935 Farmers Supply, Catlettsburg	3.13	<u>11.55</u>	11.99	40.4	40.1
1028 Farmers Supply Co., Morgan- field	3.20	11.90	13.27	40.4	42.0
1064 J. T. Beard Feed Store, Crofton	3.04	12.15	12.26	40.4	40.9
3-12-12 (Muriate 3, Sulfate 9)					
247 Miss Agnes Davis, Russellville	3.05	12.20	11.80 ^a	40.4	40.5
3-9-6 (Muriate)					
410 Ralph Berry, Port Royal	2.96	8.85	6.22	30.8	30.8
2-12-6 (Muriate)					
248 Miss Agnes Davis, Russellville	1.96	12.30	6.71	32.4	33.4
411 Trimble County Farm Bureau Co-op, Milton	2.18	12.00	6.42	32.4	33.2
412 Farmers Supply Co., Morgan- field	2.10	12.30	6.64	32.4	33.6
730 Hopkinsville Implement Co., Hopkinsville	2.04	11.88	6.08	32.4	32.4
782 Dudgeon & Robinson, Campbells- ville	2.08	12.35	6.46	32.4	33.4
783 Hardin County Mills, Elizabeth- town	2.18	12.00	6.27	32.4	33.0
1029 Farmers Supply Co., Morgan- field	2.04	11.90	7.06	32.4	33.4
1030 Elford Hayes, Russell Spring	2.06	12.40	6.54	32.4	33.5
1031 Sam Nahm & Co., Bowling Green	2.06	12.20	6.83	32.4	33.6
1065 Young Lumber Co., Beaver Dam	2.10	12.15	6.25	32.4	33.0
1066 Young Lumber Co., Beaver Dam	2.05	11.95	6.71	32.4	33.2
0-20-20 (Muriate)					
980 Farmers Supply Co., Morgan- field		20.75	19.86	50.0	50.8
0-20-20 (Muriate with 5 lbs. Borax per 100 lbs.)					
1032 Farmers Supply Co., Morganfield (1)		20.60	<u>19.26</u>	50.0	50.0

a. Excess Muriate equivalent to 0.95 percent potash
(1). Boron guaranteed 0.56 percent - found 0.45 percent

Regulatory Bulletin No. 104

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitro- gen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
VIRGINIA-CAROLINA CHEMICAL CORPORATION, CINCINNATI, OHIO (Cont.)					
0-12-12 (Muriate)					
413 Farmers Co-op Store, Owensboro		12.45	12.08	32.4	33.0
504 Robinson Implement & Motor Co, Princeton		12.25	12.20	32.4	32.9
573 Shelby Feed & Seed Co., Shelbyville		12.10	12.44	32.4	33.0
574 B. H. Murphy, Ezel		12.15	12.50	32.4	33.1
575 D. K. Hurt, Elkton		12.20	12.49	32.4	33.1
671 Fiechter Hardware Co., London		14.12	10.23	32.4	33.2
936 Farmers Supply, Catlettsburg		12.35	12.57	32.4	33.4
1067 J. T. Beard Feed Store, Crofton		12.30	11.99	32.4	32.8
20% Superphosphate					
249 Miss Agnes Davis, Russellville		20.02		26.0	26.0
414 C. E. Rose, Owenton		20.45		26.0	26.6
415 Farmers Co-op Store, Owensboro		20.15		26.0	26.2
505 Grigsby & Co., Bardstow		20.75		26.0	27.0
576 Knox County Supply Co., Barboursville		20.50		26.0	26.7
577 D. K. Hurt, Elkton		20.25		26.0	26.3
672 Fiechter Hardware Co., London		20.80		26.0	27.0
784 U. L. Rogers, Columbia		20.25		26.0	26.3
937 Farmers Supply, Catlettsburg		21.00		26.0	27.3
938 Ralph Hovious, Hustonsville		20.53		26.0	26.7
1068 J. T. Beard Feed Store, Crofton		20.00		26.0	26.0
16% Nitrate of Soda					
506 Casteel Hardware Co., East Bernsdadt		16.40		48.0	49.2
33.5% Ammonium Nitrate					
578 Hopkinsville Implement Co., Hopkinsville		33.76		67.0	67.5
48% Sulfate of Potash					
579 D. K. Hurt, Elkton			50.48	52.8	55.5
TOM J. WEAVER, HICKORY, KENTUCKY					
82% Anhydrous Ammonia					
510 Tom J. Weaver, Hickory		82.00		123.0	123.0
WEST MEMPHIS COTTON OIL MILL, MEMPHIS, ARKANSAS					
20% Ammonium Nitrate Limestone					
507 Leitchfield Transfer Co., Leitchfield		20.28		48.0	48.7

COMMERCIAL FERTILIZERS IN KENTUCKY, 1952

TABLE 5 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tri-Calcium Phosphate - July - December, 1952

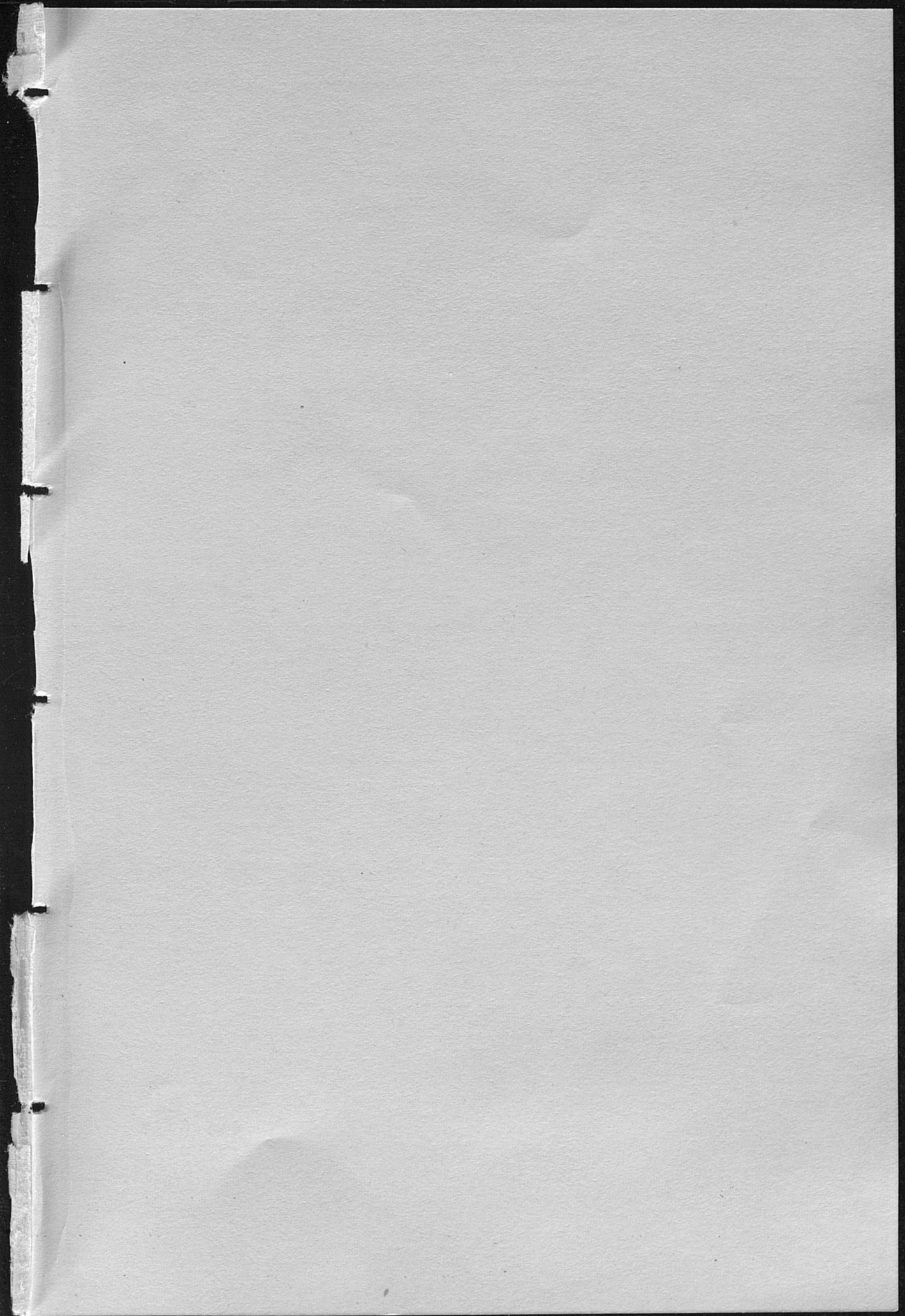
Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Phosphoric Acid				Index of	
	Available		Total		Relative Value	
	Guar.	Found	Guar.	Found	Guar.	Found
THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, CINCINNATI, OHIO						
Ground Phosphate Rock						
514 Dairyman's Supply Company, Mayfield	3.00	3.25	30.00	31.15	15.0	15.6
785 Dairyman's Supply Company, Mayfield	3.00	3.30	30.00	30.80	15.0	15.4
807 Kentucky State Reformatory, Eddyville	3.00	3.40	30.00	30.35	15.0	15.2
THE AMERICAN CYANAMID COMPANY, NEW YORK, NEW YORK						
Natural Phosphate "Aero Phos"						
262 Southern States Cooperative, Owensboro	3.00	4.65	33.00	33.40	16.5	16.7
416 Polly & White, Elizabethtown	3.00	3.30	33.00	33.25	16.5	16.6
417 Polly & White, Elizabethtown	3.00	3.15	33.00	33.20	16.5	16.6
ASSOCIATED COOPERATIVES, INC., SHEFFIELD, ALABAMA						
16% Fused Tricalcium Phosphate						
285 Southern States Cooperative, Lexington	16.00	16.10	28.00	28.50	25.6	25.9
DAVISON CHEMICAL CORPORATION, NASHVILLE, TENNESSEE						
Grand Phosphate Rock						
459 Land-O'Nan Warehouse, Sturgis			33.00	33.70	16.5	16.9
ROBIN JONES PHOSPHATE COMPANY, NASHVILLE, TENNESSEE						
Rock Phosphate "Arrow Brand"						
495 J. Sam Gregory, Lewisport	2.00	3.00	30.00	30.45	15.0	15.2
798 Graves County Soil Improve- ment Assoc., Mayfield	2.00	3.20	30.00	29.95	15.0	15.0
RUHM PHOSPHATE & CHEMICAL COMPANY, MT. PLEASANT, TENNESSEE						
Phosphate Rock, "Red Seal Brand"						
598 Baker's Phosphate & Fertilizer Service, Owensboro			30.00	<u>29.60</u>	15.0	14.8
1024 Calloway County Soil Improve- ment Assoc., Murray	3.00	2.60	30.00	29.95	15.0	15.0
SCHROCK FERTILIZER COMPANY, CONGERVILLE, ILLINOIS						
Phosphate Rock						
371 Crafton Brothers, Henderson			30.00	33.45	16.5	16.7
806 Bi-County Farm Bureau Co-op., Erlanger	3.00	3.75	33.35	33.15	16.7	16.6
496 Shaffer Phosphate Service, Sturgis			33.00	33.95	16.5	17.0
971 Crafton Bros. Feed Store, Henderson			33.00	33.80	16.5	16.9

TABLE 5 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tri-Calcium Phosphate - July - December, 1952

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Phosphoric Acid Available		Total		Index of Relative Value	
	Guar.	Found	Guar.	Found	Guar.	Found
THOMPSON SALES COMPANY, MONTGOMERY, ALABAMA						
"Calphos"						
400 Basil M. Brooks, Madisonville			20.00	20.95	10.0	10.5
568 D. K. Hurt, Elkton			20.00	18.60	10.0	9.4
THOMSON PHOSPHATE, DEPARTMENT INTERNATIONAL MINERALS & CHEMICALS CORPORATION, CHICAGO, ILLINOIS						
Rock Phosphate "Four Leaf"						
401 Young Seed House, Campbellsville			30.00	30.50	15.0	15.3
402 George Patmor & Son, Marion			30.00	30.55	15.0	15.3
968 Corbin-Bennett Farm Supply, Providence			30.00	31.00	15.0	15.5

TABLE 6 - Analyses of Inspection Samples of Bones, Dried Manures, etc. JULY-DECEMBER 1952

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Total Nitrogen	Total Phosphoric Acid	Potash	Index of Relative Value	
				Guar.	Found
ARMOUR FERTILIZER WORKS, ATLANTA, GEORGIA					
1.50 - 1 - 2 Sheep Manure					
945 Harralson Seed Co., Owensboro	1.31	1.08	4.08	12.5	13.0
SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE, MILWAUKEE, WISCONSIN					
6 - 2.75 - 0 "Milorganite"					
558 Dixie Lawn Supply, Louisville	5.60	3.00		38.8	36.6
930 Bunton Seed Co., Louisville	6.02	4.15		38.8	40.3



4M-6-53