

# Commercial Fertilizers in Kentucky, 1950

Including a Report on Official Fertilizer Samples  
Analyzed

July — December, 1950



Kentucky Agricultural Experiment Station  
University of Kentucky

Lexington

REGULATORY BULLETIN NO. 87

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CONTENTS

	Page		Page
Sales by grade, 1950 Table 1 -----	3	Penalties for violating the fertilizer law -----	6
Plant foods or nutrients ----	3	Explanation of Tables 2, 3, and 4 -----	6
Fertilizer grade -----	4	Standing of manufacturers, Table 2 -----	7
Number of grades needed in Kentucky -----	4	Analyses of inspection samples of mixed fertilizers, super- phosphates and fertilizer salts, Table 3 -----	8
Refunds -----	5	Analyses of inspection samples of rock phosphate, bones, basic slag, etc. Tables 4 and 5 -----	42 & 43
Farmers' samples -----	5		
Information on guaranty tag -	6		

## COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

This bulletin contains analyses of official samples of commercial fertilizers made between July 1 and December 31, 1950. Analyses of samples made between January 1, 1950 and June 30, 1950 were published in Regulatory Bulletin 84.

Manufacturers reported that 554,351 tons of commercial fertilizer were sold in Kentucky in 1950. This was an increase of about 15 percent over the tonnage reported for 1949. In addition, 11,872 tons of 20-percent superphosphate, or equivalent, were distributed in Kentucky under the "Contractual Plan" by the Production and Marketing Administration, Field Service Branch.

### SALES BY GRADE, 1950

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, 1950  
(As reported by the manufacturers)

Grade	Tons	Grade	Tons
6-8-6	102,249	20 % Superphosphate	117,465
2-12-6	82,508		
3-9-6	51,374	Ammonium Nitrate	22,937
4-12-8	47,342		
		Rock Phosphate	21,688
4-12-4	14,385		
3-12-12	13,916	Triple Superphosphate	14,385
0-12-12	8,078		
0-14-7	7,186	18 % Superphosphate	6,290
3-12-6	3,592	19 % Superphosphate	2,917
5-10-5	2,700		
4-16-8	2,528	Calcium Cyanamid	2,511
6-12-12	2,173		
0-20-20	2,171	Muriate of Potash	2,235
4-8-12	2,167		
		Sulfate of Potash	2,169
0-14-14	1,601		
6-8-12	1,360	Florida Waste Pond Phosphate	2,096
5-10-10	1,198		
6-10-4	929	Nitrate of Soda	2,007
8-8-8	851		
5-10-16	850	Sulfate of Potash Magnesia	1,533
4-12-12	747		
		Basic Slag	780
3-18-9	464		
4-16-0	388	Calcium Metaphosphate	680
2-12-12	329		
4-6-15	323	Dried Manures	389
4-10-6	207	Sulfate of Ammonia	383
3-9-18	205		
5-20-20	203	Anhydrous Ammonia	113
10-10-10	142	Miscel.	131
4-24-12	137		200,709
0-19-19	121		
4-8-8	120		
10-6-4	109		
6-20-10	109		
0-20-10	102		
Miscel.	778		
	<u>353,642</u>		

### PLANT FOODS OR NUTRIENTS

The minimum percentages of guaranteed plant foods, or nutrients, present in a commercial fertilizer are printed on the state tag 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.

REGULATORY BULLETIN NO. 87

FERTILIZER GRADE

Grade designates the minimum percentage of nitrogen, available phosphoric acid, and potash in the fertilizer. A 6-8-6 grade means that the fertilizer contains 6 percent nitrogen, 8 percent available phosphoric acid, and 6 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	3-4-4	6-8-8
1-4-4	3-12-12	1-2-3	4-8-12
1-4-2	4-16-8		

Two additional ratios and minimum grades, recommended by the Horticultural Department for truck crops and ornamental plants, are: 1-2-1 ratio and 5-10-5 grade, and 6-3-3 ratio and 12-6-6 grade.

The 6-3-3 ratio, 12-6-6 minimum grade was recommended by the agronomists of the Middle Western States February 15 and 16, 1951, at the Chicago meeting, to take the place of the 10-6-4 minimum grade heretofore recommended for ornamental plants.

The 3-4-4 ratio, 6-8-8 minimum grade was recommended to take the place of the 1-1-1 ratio, 8-8-8 minimum grade at the fertilizer meeting November 8 at Lexington and again at the February, 1951, Chicago meeting.

Higher grades of any ratio also are both recommended and encouraged. None of the recommended minimum grades of mixed fertilizer (except 5-10-5 for truck crops) contain less than 21 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, 6-8-8, 3-12-12, 0-14-7, 0-12-12 and 0-10-20.

For tobacco, 6-8-8, 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.

Farmers interested in determining the appropriate fertilizer for a specific crop on a given soil type and also the amount recommended should consult his County Agricultural Agent or write the Kentucky Agricultural Experiment 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 a 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.

REGULATORY BULLETIN NO. 87  
INFORMATION ON GUARANTY TAG

A state guaranty tag issued by the Kentucky Agricultural Experiment Station, showing the manufacturer's guaranty, must be attached to each bag of fertilizer before it can be lawfully offered for sale in Kentucky. It is a violation of the law to change the tag in any manner, either by addition or erasure. Purchasers of fertilizer should be guided by the information printed on the guaranty tag in selecting a fertilizer. If the fertilizer is not tagged with a state guaranty tag, or if the tag has been changed in any manner, it should be reported to the Agricultural Experiment Station immediately. The following information is printed on the guaranty tag:

Brand name of fertilizer  
Name and address of manufacturer  
Guaranteed analysis showing:  
Minimum nitrogen percent  
Minimum available phosphoric acid, percent  
Minimum potash, from muriate or sulfate, percent  
Estimated value per 100 pounds

Total phosphoric acid, in place of available phosphoric acid, is guaranteed in bone, dried manures, basic slag, and rock phosphate. Official fertilizer labels are required by law to carry the estimated value index per 100 pounds. The estimated value index is used for comparing values of fertilizers of different grades. An additional use of this value is in determining the relationship of the guaranteed analysis and the actual analysis. This relationship is shown in the last two columns of Tables 3, 4 and 5.

The estimated value index should not be confused with the selling price. Selling price is determined by those offering the fertilizer for sale.

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 2, 3, 4 and 5

The standings of manufacturers as determined by the results of analysis of official samples are given in Table 2. Purchasers of fertilizer can learn, through a study of this table, how well any manufacturer met his guarantees on the samples analyzed.

It should be noted that the first 3 columns of figures in Table 2 refer to number of samples and that the last 3 columns refer to number of analyses of nitrogen, available 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 were equal to guarantee or within the tolerance of 1/4 of 1 percent (the tolerance of the Kentucky Fertilizer Law).

In some samples a deficiency in one nutrient is accompanied by an 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 on the tag.

The results of analyses of all inspection samples are given in Tables 3, 4 and 5. 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 4 percent or more below the guaranty, the result is indicated in the tables by underlining the figures.

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 2 - Samples Equal To Guaranty In All Respects, And Analyses Within Tolerance, By Manufacturers, 1950

	Number of inspection samples	Equal to guaranty in all respects		Nitrogen, phosphoric acid and potash		
		Number	Percent*	Number of analyses made	Equal to guaranty or within tolerance**	
					Number	Percent*
American Agri. Chem. Co.	73	35	48	199	174	88
American Cyanamid Co.	15	14	93	18	17	94
Apco Fertilizer Co.	1	1	-	3	3	-
Armour Fertilizer Works	297	186	63	749	699	93
Louisville Fertilizer Co.	2	2	-	5	5	-
Associated Cooperatives	27	19	70	27	22	82
Barrett Div., Allied Dye & Chem. Corp.	4	4	-	4	4	-
Blue Grass Plant Food Co.	37	24	65	95	88	93
Buhner Fertilizer Co.	42	6	14	116	80	69
Chemical Formulators	1	0	-	3	1	-
Chilean Nitrate Sales Corp.	3	3	-	3	3	-
Commonwealth Fertilizer Co.	21	15	71	50	47	94
Consolidated Chemical Co.	14	10	71	42	40	95
Cooperative Fertilizer Serv.	130	94	72	319	297	93
Cumberland Chemical Co.	44	38	86	105	102	97
Davison Chemical Corp.						
Hopkins Fert. Div.	51	31	61	141	134	95
Nashville Div.	108	65	60	264	230	87
Ellis Chemical Co.	91	41	45	201	153	76
Empire State Chem. Co.	1	1	-	1	1	-
Federal Chemical Co.	139	88	63	357	328	92
Fatson Chemical Co.	8	4	50	24	21	88
International Min. & Chem. Corporation	136	93	68	321	294	92
Merstate Fertilizer Co.	26	14	54	74	70	95
Kentucky Fertilizer Works	46	33	72	114	109	96
Lexington Fertilizer Co.	152	77	51	363	290	80
Long Oil Co.	2	1	-	2	1	-
Mathieson Chem. Corp.	1	0	-	3	2	-
Midwestern Phosphate Corp.	2	2	-	2	2	-
North American Fert. Co.	93	45	48	242	211	87
Oxio-Karr Chemical Corp.	4	3	-	4	3	-
Phillips Chemical Co.	1	0	-	1	0	-
Rice Chemical Co.	71	53	75	175	164	94
Robin Jones Phosphate Co.	3	3	-	6	6	-
Summ Phosphate & Chem. Co.	8	7	88	8	7	88
Truck Fertilizer Service	8	8	100	8	8	100
M. Scott & Sons	3	3	-	9	9	-
W. Roebuck & Co.	1	0	-	3	2	-
Wage Commission of City of Milwaukee	2	1	-	4	4	-
Western Agri. Chem. Co.	10	10	100	10	10	100
Wenger Chemical Co.	6	6	100	6	6	100
Wright & Co., Plant Food Div.	63	34	54	178	161	91
Tennessee Coal, Iron & R. R. Co.	2	2	-	2	2	-
Tennessee Corporation	113	76	67	294	273	93
Tompson Sales Co.	1	0	-	1	0	-
Tompson Phosphate Co.	12	11	92	23	22	96
T. Phosphate Prod. Co.	2	0	-	2	1	-
Way Counties of Ky. Co-op	18	8	44	28	19	68
West-Carolina Chem. Co.	133	87	65	329	299	91
Totals	2028	1258	62	4938	4424	89.6

Percent is not indicated when number of samples is less than 5. "Tolerance" is 1/4 of 1 percent.

REGULATORY BULLETIN NO. 87

TABLE 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1950

Analyses deficient by more than one-fourth of one percent and relative values deficient by 4 percent or more are underlined. Footnotes are given when the guarantee for sulfate was not met.

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos-phoric Acid Avail-able	Potash	Index of Relative Value	
				Guar.	Found
THE AMERICAN AGRICULTURAL CHEMICAL CO., Cincinnati, Ohio.					
6-8-6 (Muriate) 5660 Farmers Gin Co., Clinton	<u>5.72</u>	8.65	5.93	35.6	35.8
6-8-6 (Sulfate) 5934 Sam Litton, Jr., Morehead	<u>5.48</u>	8.90	6.13	35.6	35.8
4-12-8 (Muriate) 6446 Morris Hdw. & Seed Co., Henderson	3.97	12.23	7.77	38.4	38.4
4-12-8 (Sulfate) 5661 Ravenna Grocery, Ravenna	4.01	11.95	8.10	38.4	38.5
5662 Bradley's Grocery, Moorefield	3.96	12.05	8.10	38.4	38.5
4-12-8 (Muriate 4, Sulfate 4) 5935 Melton Grocery Co., Lynnville	4.03	12.28	<u>7.42</u>	38.4	38.2
3-12-12 (Muriate) 6159 Baughman Milling Co., Stanford	2.93	11.95	11.91	40.4	40.1
6447 Henderson & Hardy Co., Shepherdsville	2.91	12.13	11.93	40.4	40.3
3-9-6 (Muriate) 5936 Melton Grocery Co., Lynnville	3.15	9.28	<u>5.67</u>	30.8	31.1
2-14-8 (Muriate) 6448 Henderson & Hardy Co., Shepherdsville	1.96	14.00	8.02	36.8	36.7
2-12-6 (Muriate) 5663 Ravenna Grocery, Ravenna	1.99	12.23	5.86	32.4	32.5
5664 Denton Hardware Co., Madisonville	2.03	12.00	5.92	32.4	32.4
5665 C. C. Hdw. & Feed Co., Hartford	2.05	12.25	5.98	32.4	32.8
5666 Bedford & Tuttle, Winchester	1.82	12.05	5.94	32.4	32.0
6160 Baughman Milling Co., Stanford	1.92	11.90	6.24	32.4	32.4
6311 A. T. Hayes & Son, Glendale	1.96	12.50	6.14	32.4	33.1
6347 Lebanon Carriage & Impl. Co., Lebanon	1.83	12.20	6.13	32.4	32.4
6449 Henderson & Hardy Co., Shepherdsville	1.87	11.78	6.29	32.4	32.2
6450 Morris Hdw. & Seed Co., Henderson	2.40	<u>11.48</u>	6.23	32.4	32.8
6451 Walters & Thompson, Shelbyville	1.93	<u>12.00</u>	6.21	32.4	32.5
6452 E. J. Vanhook, Moreland	1.94	13.53	6.13	32.4	34.3
0-14-14 (Muriate) 6514 J. W. Davison, Science Hill, Ky.*	. . .	14.23	<u>12.99</u>	36.8	36.1

\* Boron not guaranteed but 0.28 % found



COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
THE AMERICAN AGRICULTURAL CHEMICAL CO., (Cont'd)					
0-14-7 (Muriate)					
6312 A. T. Hayes and Son, Glendale	. . .	13.85	6.98	29.8	29.6
18% Superphosphate					
6120 Lebanon Carriage & Impl. Co., Lebanon	. . .	17.90	. . .	23.4	23.3
6348 " " " " " "	. . .	18.28	. . .	23.4	23.8
AMERICAN CYANAMID CO., New York 20, N. Y.					
33.50 % Ammonium Nitrate "Aeroprills"					
6392 Camargo Farmers Supply, Camargo	33.48	. . .	. . .	67.0	67.0
6568 Elliott's Store, Middlesburg	33.56	. . .	. . .	67.0	67.1
20.60 % "Aero" Cyanamid					
6121 Farmers Exchange, Burkesville	20.50	. . .	. . .	49.4	49.2
6233 Jerome Glass, Grayson	20.56	. . .	. . .	49.4	49.3
6263 Calloway County Soil Imp. Asso., Murray	20.64	. . .	. . .	49.4	49.5
6264 Morgan Farmers Store, West Liberty	20.72	. . .	. . .	49.4	49.7
6265 Southern States Co-op., Glasgow	20.48	. . .	. . .	49.4	49.2
6313 Southern States Co-op., Russellville	20.24	. . .	. . .	49.4	49.6
ARMOUR FERTILIZER WORKS, Cincinnati, O., Nashville, Tenn., Jeffersonville, Ind.					
6-8-6 (Muriate) "Big Crop Brand"					
6235 Hinch & Co., Marion	5.18	8.68	6.29	35.6	35.1
6350 Sewell & Co., Waterview	5.69	9.13	5.98	35.6	36.3
6393 Harralson Seed Co., Owensboro	5.67	9.13	6.05	35.6	36.4
6515 Cadiz Hardware Co., Cadiz	5.74	8.88	6.64	35.6	36.8
6-8-6 (Sulfate) Armour's					
5670 Parman Brothers, London	5.95	8.53	6.37	35.6	36.5
5671 H. W. Duvall, Park City	6.14	8.75	6.66	35.6	37.4
5,37 Harralson Seed Co., Owensboro	5.76	8.75	6.29 <sup>a</sup>	35.6	36.3
6453 W. C. Blair, Russell Springs	5.25	8.40	6.54 <sup>b</sup>	35.6	35.1
5-10-16 (Sulfate) Armour's					
6351 N. S. Dudley & Son, Flemingsburg	4.75	11.60	15.84	46.0	47.3
6394 Fayette Coal & Feed Co., Lexington	4.84	11.50	15.82	46.0	47.3
5-10-10 (Muriate) "Vertagreen Brand"					
6516 M. F. Bryant & Son, Sebree	5.28	10.08	10.92	40.0	41.6
6236 Louisa Supply Co., Louisa	5.06	10.38	9.99	40.0	40.6

a. excess muriate equivalent to 0.45 percent potash

b. " " " " 0.46 " "

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
<b>ARMOUR FERTILIZER WORKS, (Cont'd)</b>					
5-10-5 (Muriate) "Vertagreen Brand"					
5672 Harralson Seed Company, Owensboro	4.99	11.03	4.95	35.0	36.2
5673 Home Fruit Company, Harlan	4.94	10.70	5.38	35.0	36.1
5938 Paul Gardner Gen. Mdse., Cerulean	5.29	10.35	5.04	35.0	36.0
5-10-5 (Sulfate) Armour's "Vertagreen Brand"					
5674 O'Rear Hardware Co., Mt. Sterling	4.92	10.73	5.26 <sup>c</sup>	35.0	36.0
4-16-16 (Muriate) "Big Crop Brand"					
6352 N. S. Dudley & Son, Flemingsburg	4.03	16.35	15.88	51.2	51.6
4-12-8 (Muriate) "Big Crop Brand"					
5939 Birmingham Milling Co., Benton	3.82	12.55	8.78	38.4	39.5
6161 Harralson Seed Co., Owensboro	3.79	12.15	8.36	38.4	38.5
6583 Butterworth Seed Company, Mayfield	3.97	12.33	7.90	38.4	38.6
4-12-8 (Sulfate) Armour's					
5677 London Hardware Co., London	4.03	12.78	8.01 <sup>d</sup>	38.4	39.4
5942 The Peoples Store, Owingsville	4.20	11.90	8.52 <sup>d</sup>	38.4	39.2
4-12-8 (Sulfate) Armour's "Vertagreen Brand"					
5675 Greenup Farmers Supply, Greenup	4.19	12.70	8.12	38.4	39.7
5676 S. E. Hale & Son, Greenville	4.40	12.38	8.02 <sup>e</sup>	38.4	39.7
5940 Jerome Glass, Grayson	4.31	12.60	7.29	38.4	39.0
5941 Hatter Hardware Co., Franklin	4.26	12.78	8.27 <sup>f</sup>	38.4	40.1
4-12-4 (Muriate) Old Black Joe					
6193 S. E. Hale & Son, Greenville	3.89	12.13	4.00	34.4	34.3
6395 J. R. Williams Hdw. Co., Beaver Dam	3.98	12.40	4.25	34.4	35.1
6396 W. H. Arnold & Co., Madisonville	3.97	12.25	4.24	34.4	34.9
4-12-4 (Sulfate) Armour's					
5678 O'Rear Hdw. Co., Mt. Sterling	3.95	12.35	4.04	34.4	34.8
3-12-12 (Muriate) "Big Crop Brand"					
5679 N. S. Dudley & Son, Flemingsburg	2.96	12.23	12.21	40.4	40.8
5943 Caneyville Roller Mills, Caneyville	2.89	12.38	11.51	40.4	40.2
5944 H. B. McClary, Auburn	2.70	10.78	14.30	40.4	40.6
6162 McWhorter Produce Co., Albany	2.84	12.60	12.09	40.4	40.9
6266 Birmingham Milling Co., Benton	2.94	12.58	12.56	40.4	41.5
6353 N. S. Dudley & Son, Flemingsburg	2.99	12.43	11.97	40.4	40.9

c. Excess muriate equivalent to 1.33 percent potash  
d. " " " to 0.41 " "  
e. " " " to 0.79 " "  
f. " " " to 0.58 " "

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
<b>ARMOUR FERTILIZER WORKS, (Cont'd)</b>					
3-12-12 (Sulfate) Armour's 5680 Harralson Seed Co., Owensboro	3.05	11.98	12.06 <sup>g</sup>	40.4	40.5
3-12-6 (Muriate) Old Black Joe 5681 Anderson's Grocery, Pine Knot	3.13	12.18	5.68	34.4	34.6
5682 Wrigley Mercantile Co., Wrigley	2.96	12.48	<u>5.70</u>	34.4	34.6
5683 Kentucky Training Home, Frankfort	5.55	8.98	<u>6.55</u>	34.4	36.4
5684 London Hardware Co., London	3.40	<u>12.50</u>	5.84	34.4	35.6
5945 Jack J. Jones Gen. Store, Burkesville	3.00	12.95	6.81	34.4	36.4
5946 J. A. Bennett Hdw. Store, Taylorsville	2.77	12.25	6.08	34.4	34.3
6397 H. B. McClary, Auburn	3.05	12.53	7.08	34.4	36.2
3-9-6 (Muriate) "Big Crop Brand" 5947 Farmers Supply Co., Hodgenville	3.15	9.90	6.23	30.8	32.4
5948 Jack J. Jones Gen. Store, Burkesville	2.97	9.70	6.44	30.8	32.0
6267 Farmers Gin Co., Clinton	2.99	9.15	5.90	30.8	30.9
6454 McWhorter Produce Co., Albany	2.99	9.53	5.98	30.8	31.4
6455 Anderson & Spilman, Danville	3.11	10.10	6.39	30.8	32.7
6517 Kuttawa Milling Co., Kuttawa.	3.04	9.08	6.05	30.8	31.0
6584 Lilly Brothers Seed Co., Hopkinsville	2.89	9.35	6.01	30.8	31.0
3-9-6 (Sulfate) Armour's 5685 London Hardware Co., London	3.07	9.88	6.23	30.8	32.2
5686 Irvington Truck Lines, Irvington	3.18	10.48	6.22	30.8	33.2
2-12-6 (Muriate) "Big Crop Brand" 5687 Henderson & Hardy, Shepherdsville	2.22	12.18	7.28	32.4	34.3
5688 Allegre Milling Co., Allegre	2.09	<u>12.15</u>	6.38	32.4	33.1
5689 G. M. Haycraft & Son, Leitchfield	1.97	12.65	6.29	32.4	33.4
5690 Big Four Feed & Impl. Co., Scottsville	1.78	12.35	6.92	32.4	33.3
5691 London Hardware Co., London	1.97	12.10	6.34	32.4	32.8
5692 T. A. Day, Soldier	2.28	12.50	6.05	32.4	33.6
5693 J. R. Nelson, Eubank	2.12	12.38	6.39	32.4	33.5
5694 Slaughters Mercantile Co., Slaughters	2.12	12.33	6.11	32.4	33.2
5949 H. B. McClary, Auburn	2.21	13.30	5.90	32.4	34.3
6145 Salyersville Wholesale Grocery, Salyersville	2.01	12.13	6.57	32.4	33.2
6194 G. M. Haycraft & Son, Leitchfield	1.78	12.10	6.06	32.4	32.1
6268 Netherton & Cherry, Smiths Grove	1.98	13.38	5.90	32.4	33.9
6314 Bale Hdw. & Impl. Co., Horse Cave	1.83	12.18	6.30	32.4	32.6
6315 Upton Hardware Co., Upton	1.98	12:03	6.17	32.4	32.6
6398 Irvington Truck Lines, Irvington	1.86	11.85	5.99	32.4	31.9
6399 Caneyville Roller Mills, Caneyville	1.84	12.08	6.52	32.4	32.7
6400 Harralson Seed Co., Owensboro	2.03	12.53	6.11	32.4	33.2
6401 Kent Miller's Store, Sacramento	2.05	12.25	6.29	32.4	33.1
6518 Slaughters Mercantile Co., Slaughters	2.00	12.80	5.94	32.4	33.3

g. Excess muriate equivalent to 0.84 percent potash

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos-phoric Acid Avail-able	Potash	Index of Relative Value	
				Guar.	Found
<b>ARMOUR FERTILIZER WORKS (Cont'd)</b>					
<b>2-12-6 (Muriate), "Big Crop Brand" (Cont'd)</b>					
6569 Barren County Hdw. Co., Glasgow	1.87	12.35	5.98	32.4	32.5
6570 H. D. Jones, Glasgow	2.09	12.00	6.41	32.4	33.0
<b>0-20-20 (Muriate) "Big Crop Brand"</b>					
6163 McWhorter Produce Co., Albany	...	21.35	18.46	50.0	50.1
6195 S. E. Hale & Son Hdw. Co., Greenville	...	20.00	<u>20.20</u>	50.0	50.2
6354 Jewell & Hayden, Bardstown	...	19.40	21.08	50.0	50.4
6571 Barren County Hdw. Co., Glasgow	...	19.75	20.44	50.0	50.1
<b>0-14-7 (Muriate) "Big Crop Brand"</b>					
5695 T. H. Coffey, Bond	...	13.90	8.12	29.8	30.8
6196 S. E. Hale & Son, Greenville	...	16.35	10.09	29.8	35.7
6238 Kuttawa Milling Co., Kuttawa	...	14.03	7.19	29.8	30.0
6239 Hinch and Co., Marion	...	13.45	7.03	29.8	29.2
6402 Harralson Feed Co., Owensboro	...	<u>11.65</u>	11.30	29.8	31.3
6403 Caneyville Roller Mills, Caneyville	...	14.38	6.99	29.8	30.3
<b>0-12-12 (Muriate) "Big Crop Brand"</b>					
5696 Farmers Cooperative, Madisonville	...	12.10	13.03	32.4	33.6
5697 N. T. Nuckols, Elkton	...	12.03	11.69	32.4	32.1
5950 Monarch Supply Store, Morehead	...	12.80	<u>12.60</u>	32.4	34.0
6146 H. B. McClary, Auburn	...	12.58	12.04	32.4	33.1
6240 Kuttawa Milling Co., Kuttawa	...	11.98	13.02	32.4	33.4
6316 Keith & Lykins, Springdale	...	12.25	12.19	32.4	32.9
6355 N. S. Dudley & Son, Flemingsburg	...	12.23	12.48	32.4	33.2
6404 McGlasson Feed Store, Horse Cave	...	12.30	12.09	32.4	32.9
6405 Farmers Supply Co., Hodgenville	...	11.63	12.03	32.4	32.0
6456 Stock Yards Feed & Supply Co., Louisville	...	<u>11.93</u>	12.22	32.4	32.5
6519 Quality Grocery & Hdw. Co., Greenville	...	12.13	12.26	32.4	32.8
6572 Netherton & Cherry, Smiths Grove	...	12.40	11.81	32.4	32.7
<b>20 % Superphosphate "Big Crop Brand"</b>					
5698 McGlasson Feed Store, Horse Cave	...	21.18	...	26.0	27.5
5699 Laswell Milling Co., Brodhead	...	20.65	...	26.0	26.9
5700 H. D. Jones, Glasgow	...	21.00	...	26.0	27.3
5701 Ravenna Grocery, Ravenna	...	20.05	...	26.0	26.1
5702 Monarch Supply Store, Morehead	...	20.48	...	26.0	26.6
5703 J. R. Nelson, Eubank	...	20.63	...	26.0	26.8
5704 Amburgey's Farm Supply, Mt. Sterling	...	20.28	...	26.0	26.4
5705 Upton Hardware Store, Upton	...	21.25	...	26.0	27.6
5706 Lilly Bros. Feed Co., Hopkinsville	...	20.58	...	26.0	26.8
5707 G. T. Casey, Irvington	...	21.05	...	26.0	27.4
5951 Joe McBrayer, Morehead	...	20.00	...	26.0	26.0
5952 J. A. Bennett Hdw. Store, Taylorsville	...	19.60	...	26.0	25.5
5953 Sewell & Co., Waterview	...	<u>20.45</u>	...	26.0	26.6
5954 Central Grocery, Morehead	...	19.95	...	26.0	25.9
5955 Sphar and Co., Winchester	...	19.90	...	26.0	25.9
5956 Penn Mercantile Co., Mannsville	...	21.10	...	26.0	27.4

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
<b>ARMOUR FERTILIZER WORKS, (Cont'd)</b>					
<b>20 % Superphosphate "Big Crop Brand" (Cont'd)</b>					
6122 Jerome Glass, Grayson	...	19.75	...	26.0	25.7
6147 H. B. McClary, Auburn	...	20.53	...	26.0	26.7
6148 Salyersville Wholesale Co., Salyersville	...	19.90	...	26.0	25.9
6164 Irvington Truck Lines, Irvington	...	20.40	...	26.0	26.5
6197 G. M. Haycraft and Son, Leitchfield	...	22.28	...	26.0	29.0
6237 Louisa Supply Co., Louisa	...	19.65	...	26.0	25.6
6269 Butterworth Seed Co., Mayfield	...	21.43	...	26.0	27.9
6270 H. D. Jones, Glasgow	...	21.88	...	26.0	28.4
6271 Big Four Feed & Impl. Co., Scottsville	...	21.40	...	26.0	27.8
6317 Willoughby Supply Co., Richmond	...	20.00	...	26.0	26.0
6318 McCord & Son, Hopkinsville	...	20.05	...	26.0	26.1
6356 N. S. Dudley & Son, Flemingsburg	...	19.83	...	26.0	25.9
6406 Irvington Truck Lines, Irvington	...	20.28	...	26.0	26.4
6457 Farmers Service Store, Jamestown	...	20.13	...	26.0	26.2
6458 Farmers Supply, Eminence	...	19.90	...	26.0	25.9
6459 G. M. Haycraft & Son, Leitchfield	...	20.53	...	26.0	26.7
6573 Coffey Store, Yosemite	...	20.05	...	26.0	26.1
<b>60 % Muriate of Potash</b>					
6407 Camargo Farmers Supply Co., Camargo	...	...	61.20	54.0	55.1
<b>50 % Muriate of Potash</b>					
5708 S. E. Hale & Son, Greenville	...	...	51.04	45.0	45.9
5957 M. G. Pruitt Impl. Co., Bowling Green	...	...	55.24	45.0	49.7
6165 Harralson Seed Co., Owensboro	...	...	48.12	45.0	43.3
<b>48 % Sulfate of Potash</b>					
5709 Stewart & Co., Munfordville	...	...	43.76	52.8	48.1
6357 Jewell & Hayden, Bardstown	...	...	42.84	52.8	47.1
<b>ASSOCIATED COOPERATIVES, Sheffield, Ala.</b>					
<b>50 % Superphosphate</b>					
5711 C. D. Williams, Frenchburg	...	50.83	...	65.0	66.2
5712 Southern States Co-op., Hopkinsville	...	50.93	...	65.0	66.2
5958 Southern States Co-op., Russellville	...	49.25	...	65.0	64.0
5959 Southern States Co-op., Marion	...	49.15	...	65.0	63.9
6358 Southern States Co-op., Lebanon	...	50.15	...	65.0	65.2
<b>49 % Superphosphate</b>					
5713 Stewart Company, Munfordville	...	49.88	...	63.7	64.8
5714 Farmers Supply Co., Paintsville	...	50.05	...	63.7	65.1
5960 Simpson County Farmers Co-op., Franklin	...	50.63	...	63.7	65.8
5961 Southern States Co-op., Somerset	...	48.98	...	63.7	63.7
6272 Southern States Co-op., Glasgow	...	49.20	...	63.7	64.0
6460 Farmers Supply Co., Paintsville	...	49.95	...	63.7	64.9

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ASSOCIATED COOPERATIVES, (Cont'd)					
48 % Superphosphate					
6149 Deaton Brothers, Jackson	. . .	49.40	. . .	62.4	64.2
33 % Ammonium Nitrate					
5715 Farm & Home Supply, Irvine	33.12	. . .	. . .	66.0	66.2
5962 Hughes M. Hamilton, Lexington	32.44	. . .	. . .	66.0	64.9
6123 Southern States Co-op., Flemingsburg	32.76	. . .	. . .	66.0	65.5
ALLIED CHEMICAL & DYE CORPORATION, New York 6, N. Y.					
33.50 Barrett Ammonium Nitrate					
5716 Slone Brothers, Jackson	33.64	. . .	. . .	67.0	67.3
16 % Arcadian the American Nitrate of Soda					
5717 Jellico Grocery, Harlan	16.20	. . .	. . .	48.0	48.6
BLUE GRASS PLANT FOODS, INC., Cynthiana, Ky.					
6-8-6 (Sulfate) Bluegrass Brand					
5718 Steve Rose Market, Campton	6.04	8.90	6.02	35.6	36.8
6-8-6 (Muriate 3, Sulfate 3) Bluegrass Brand					
5719 Hancock Grocery, Falmouth	5.79	8.75	6.13	35.6	36.2
4-12-8 (Sulfate) Bluegrass Brand					
5720 Davis Gillespie, Mayslick	4.08	12.55	8.56	38.4	39.8
3-12-12 (Muriate 3, Sulfate 9) Bluegrass Brand					
5721 J. R. Prather, Maysville	3.27	12.40	11.78	40.4	41.2
3-9-6 (Muriate) Bluegrass Brand					
5722 Merchants Grocery, Pikeville	3.29	9.30	6.25	30.8	32.0
20 % Superphosphate					
5723 Harrison Bros. Farm Supply, Berea	. . .	19.03	. . .	26.0	24.7
5724 Davis Gillespie, Mayslick	. . .	19.28	. . .	26.0	25.1
5963 Ravenna Grocery, Ravenna	. . .	19.70	. . .	26.0	25.6
THE BUHNER FERTILIZER CO., Seymour, Ind.					
6-8-6 (Sulfate)					
5725 Thomson's Wholesale Grocery, Booneville	5.58	8.78	6.32	35.6	36.0
5726 Farmers Exchange, Lancaster	5.58	7.90	6.48	35.6	35.1
5727 Paul Brite's Mill, Hardinsburg	5.50	8.38	6.19	35.6	35.3
5728 Buhner and Co., Louisville	5.50	7.85	6.37	35.6	34.8
5729 Cruse Brothers, Upton	5.50	7.88	6.41	35.6	34.9

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table - - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
<b>THE BUHNER FERTILIZER CO., (Cont'd.)</b>					
6-8-6 (Muriate 3, Sulfate 3) 5730 Paul Brite's Mill, Hardinsburg	<u>5.62</u>	7.90	5.93 <sup>h</sup>	35.6	34.7
3-12-12 (Muriate) 6461 Buhner and Co., Louisville	2.91	<u>11.53</u>	12.11	40.4	39.8
3-9-6 (Muriate) 5731 Proffitt Feed Store, Elizabethtown	2.98	8.85	5.88	30.8	30.5
2-12-6 (Muriate) 5732 Proffitt Feed Store, Elizabethtown	1.95	11.88	6.68	32.4	32.8
6359 Shipp & Allen, Campbellsville	2.03	<u>11.33</u>	6.35	32.4	32.0
6462 Fern Creek Feed & Hdw. Co., Buechel	2.04	<u>11.75</u>	7.25	32.4	33.4
6615 Shipp & Allen, Campbellsville	2.05	<u>11.10</u>	6.65	32.4	32.1
0-20-20 (Muriate) 6463 Buhner and Co., Louisville	. . .	<u>17.50</u>	<u>18.94</u>	50.0	<u>45.9</u>
0-14-7 (Muriate) 5733 Shepherdsville Feed Mill, Shepherdsville	. . .	13.03	7.53	29.8	29.2
5964 Milton Edwards, Hardyville	. . .	<u>13.45</u>	7.04	29.8	29.2
6464 Buhner and Co., Louisville	. . .	<u>12.83</u>	7.45	29.8	28.9
0-12-12 (Muriate) 6465 Buhner and Co., Louisville	. . .	<u>11.08</u>	12.85	32.4	32.2
6616 Springfield Feed and Grain Co., Springfield	. . .	<u>11.48</u>	12.21	32.4	32.0
20 % Superphosphate 6198 Cann's Feed Store, Clarkson	. . .	20.30	. . .	26.0	26.4
6585 Cruse Bros., Upton	. . .	20.48	. . .	26.0	26.6
<b>CHEMICAL FORMULATORS, N. Charleston, W. Va.</b>					
6-8-6 (Muriate) "Chemform Brand" 5734 Ashland Grocery Co., Ashland	<u>4.91</u>	7.88	<u>3.75</u>	35.6	<u>31.0</u>
<b>CHILEAN NITRATE SALES CORPORATION, New York, N. Y.</b>					
16 % Nitrate of Soda, Chilean Champion Brand 5965 Louisa Supply Co., Louisa	16.04	. . .	. . .	48.0	48.1
<b>COMMONWEALTH FERTILIZER CO., Russellville, Ky.</b>					
4-12-8 (Muriate) Indian Head Brand 5735 Twin Oaks, Scottsville	4.05	12.88	8.74	38.4	40.3

h. Excess muriate equivalent to 1.70 percent potash

REGULATORY BULLETIN NO. 87

Table-3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
COMMONWEALTH FERTILIZER CO., (Cont'd.)					
4-12-4 (Muriate) Indian Head Brand 5736 McGeehee Produce Co., Lewisburg	4.06	12.48	4.50	34.4	35.6
3-9-6 (Muriate) Indian Head Brand 5737 Ruby Distributing Co., Central City	2.88	10.35	6.44	30.8	32.6
5966 Southern States Co-op., Paducah	3.25	10.45	5.80	30.8	32.8
6586 M. G. Williams Impl. Co., Hopkinsville	3.18	9.10	6.45	30.8	31.7
2-12-6 (Muriate) Indian Head Brand 6106 Manufacturer's warehouse	2.14	12.95	6.49	32.4	34.3
6319 Warren Elevator, Guthrie	2.00	12.75	6.11	32.4	33.4
6408 C. C. Hdw. Feed & Seed Co., Hartford	2.11	12.73	6.16	32.4	33.7
6587 Warren Elevator, Guthrie	2.29	12.25	6.00	32.4	33.3
0-14-7 (Muriate) Indian Head Brand 5967 Elkton Tractor Co., Elkton	. . .	14.15	7.35	29.8	30.3
0-12-12 (Muriate) Indian Head Brand 6107 Manufacturer's warehouse	. . .	11.60	12.46	32.4	32.4
6409 McGeehee Produce Co., Lewisburg	. . .	12.73	11.90	32.4	33.2
20 % Superphosphate, Indian Head Brand 6108 H. M. McGeehee, Lewisburg	. . .	20.43	. . .	26.0	26.6
6273 Farmers Feed Market, Bowling Green	. . .	20.68	. . .	26.0	26.9
60 % Muriate of Potash, Indian Head Brand 6109 Manufacturer's warehouse	. . .	. . .	59.72	54.0	53.8
6410 J. B. Lucas Feed & Seed Co., Franklin	. . .	. . .	60.92	54.0	54.8
22.50 % Sulfate of Potash Magnesia, Indian Head Brand 5968 Farmers Supply Co., Cadiz	. . .	. . .	21.70	45.0	43.4
CONSOLIDATED CHEMICAL CO., Div. Price Chemical Co., Louisville, Ky.					
6-8-6 (Muriate) Camel Brand 6124 Monarch Milling Co., Mt. Sterling	6.61	7.65	8.23	35.6	38.6
3-9-6 (Muriate) Camel Brand 5738 Oscar Farmer & Sons, Louisville	3.34	9.50	6.21	30.8	32.3
5739 Brewer's Grocery, Beattyville	2.89	8.73	6.13	30.8	30.4
2-12-6 (Muriate) Camel Brand 5969 Farmers Supply Center, Leitchfield	1.84	12.00	6.80	32.4	32.9
6558 Hardin County Mills, Elizabethtown	2.42	13.33	6.83	32.4	35.7
COOPERATIVE FERTILIZER SERVICE, Winchester, Ky.					
6-8-6 (Muriate) "Service Quality Brand" Open Formula 5970 Magoffin Farmers Supply, Salyersville	6.35	8.33	6.27	35.6	37.0



COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos-phoric Acid Avail-able	Potash	Index of Relative Value	
				Guar.	Found
COOPERATIVE FERTILIZER SERVICE, (Cont'd.)					
6-8-6 (Sulfate) "Service Quality Brand" Open Formula					
5740 R. R. Boggs, Blaine	6.12	8.13	6.24	35.6	36.2
5741 Major's Poultry House, Central City	6.02	8.15	6.14	35.6	36.0
5971 Hughes Hamilton, Lexington	5.99	8.55	6.19	35.6	36.4
6320 Southern States Cooperative, Hopkinsville	5.98	8.58	6.21	35.6	36.5
6360 Rowan Farmers Supply, Morehead	5.62	8.80	6.19 <sup>i</sup>	35.6	36.0
6588 Southern States Co-op., Maysville	6.02	8.55	6.04	35.6	36.3
6605 Farmers Exchange, Burkesville	6.13	8.03	6.21	35.6	36.1
6559 Owingsville Farmers Supply, Owingsville	6.19	8.53	6.36	35.6	37.0
4-16-8 (Muriate) "Service Quality Brand" Open Formula					
5742 Southern States Co-op., Alexandria	4.05	15.85	7.97	43.2	43.1
6241 Kuttawa Farm Supply, Kuttawa	4.02	16.15	8.10	43.2	43.5
6242 Southern States Co-op., Elizabethtown	4.00	16.25	7.99	43.2	43.5
6274 Southern States Co-op., Fulton	4.08	16.18	8.04	43.2	43.6
6275 Farmers Supply Co., Paintsville	4.14	16.30	7.98	43.2	43.8
6361 Southern States Co-op., Campbellsville	3.89	16.28	7.71	43.2	43.0
4-12-8 (Muriate) "Service Quality Brand" Open Formula					
6276 Bray & Co., Gamaliel	4.06	12.90	8.05	38.4	39.7
6411 Farmers Service Store, Hardinsburg	4.14	12.73	8.38	38.4	39.9
4-12-8 (Muriate) "Quality Super Brand" Open Formula					
6321 Stinson Farm Supply, Horse Cave	3.97	12.68	7.98	38.4	39.1
6466 Southern States Co-op., Shelbyville	4.01	12.50	8.17	38.4	39.2
6467 Southern States Co-op., Henderson	4.00	12.43	8.21	38.4	39.1
4-12-8 (Sulfate) "Service Quality Brand"					
5743 Southern States Co-op., Hopkinsville	4.13	11.83	7.96	38.4	38.4
5744 Amburgey's Farm Supply, Mt. Sterling	4.08	11.65	8.13	38.4	38.3
5745 Henry County Farm & Home Service, Eminence	4.06	12.55	8.21	38.4	39.4
5972 Rowan Farmers Supply, Morehead	4.14	11.70	8.07	38.4	38.4
4-8-12 (Sulfate) Open Formula					
6560 Owingsville Farmers Supply, Owingsville	4.01	8.65	12.20	37.6	38.6
6574 Southern States Co-op., Glasgow	4.04	8.35	12.32	37.6	38.4
2-12-6 (Muriate) Open Formula					
5746 R. R. Boggs, Blaine	2.06	12.40	5.83	32.4	32.8
6150 Simpson County Farmers Co-op., Franklin	2.13	11.93	6.52	32.4	33.1
6166 Farmers Service Store, Hardinsburg	1.95	12.20	6.52	32.4	33.1
6167 Southern States Co-op., Danville	2.07	12.80	5.95	32.4	33.5
6199 Southern States Co-op., Somerset	2.06	12.55	6.24	32.4	33.4
6362 Rowan Farmers Supply, Morehead	2.01	12.33	6.75	32.4	33.6
6412 Farmers Service Store, Hardinsburg	2.08	12.58	6.04	32.4	33.3
6413 Southern States Co-op., Elizabethtown	2.05	12.03	6.13	32.4	32.7
6561 Harrison Bros. Farm Supply, Berea	2.01	12.30	6.36	32.4	33.1
6562 Redwine's Farmers Supply, Sandy Hook	2.09	12.33	6.46	32.4	33.4

i. Excess muriate equivalent to 0.26 percent potash.

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
COOPERATIVE FERTILIZER SERVICE (Cont'd.)					
0-20-20 (Muriate) "Quality Brand"					
6168 Southern States Co-op., Owensboro	. . .	20.33	20.22	50.0	50.6
6277 Southern States Co-op., Fulton	. . .	20.53	20.52	50.0	51.3
6322 Stewart and Co., Munfordville	. . .	19.93	19.94	50.0	49.9
0-19-19 (Muriate) with 4# Borax per 100# "Super Brand" . . .					
5747 Spencer County Farm & Home Service, Taylorsville *	. . .	18.90	19.68	47.8	48.4
6278 Southern States Co-op., Bowling Green **	. . .	20.10	19.76	47.8	49.9
0-14-14 (Muriate) "Quality Brand" . . .					
5748 Harrison Brs. Farm Supply, Berea	. . .	14.78	13.93	36.8	37.7
5749 Spencer County Farm & Home Service, Taylorsville. .	. . .	14.53	13.76	36.8	37.2
5750 Stewart and Co., Munfordville	. . .	13.98	14.42	36.8	37.2
5751 Southern States Co-op., Shelbyville	. . .	14.50	13.65	36.8	37.1
5752 Southern States Co-op., Henderson	. . .	14.20	13.55	36.8	36.6
5973 Southern States Co-op., Campbellsville	. . .	14.25	14.15	36.8	37.3
5974 Meade Farmers Supply, Brandenburg	. . .	14.48	14.19	36.8	37.6
5975 Southern States Co-op., Flemingsburg	. . .	14.53	13.38	36.8	36.8
6125 Southern States Co-op., Flemingsburg	. . .	14.33	14.11	36.8	37.3
6126 W. C. Turner, Greensburg	. . .	14.45	13.96	36.8	37.3
6243 Southern States Co-op., Elizabethtown	. . .	14.43	14.27	36.8	37.6
6323 Stinson Farm Bureau, Horse Cave	. . .	14.65	13.75	36.8	37.3
6414 Southern States Co-op., Lexington	. . .	14.38	14.10	36.8	37.4
6563 Redwine's Farmers Supply, Sandy Hook	. . .	14.43	14.30	36.8	37.6
0-14-14 (Muriate) "Super Brand" with 3# Borax per 100#					
6151 Owsley Farm Service, Booneville 1	. . .	14.20	13.83	36.8	36.9
6127 Southern States Co-op., Campbellsville 2	. . .	14.20	13.95	36.8	37.0
6110 Southern States Co-op., Danville 3	. . .	14.05	13.54	36.8	36.4
6244 Magoffin Farmers Supply, Salyersville 4	. . .	14.40	14.40	36.8	37.7
6324 Southern States Co-op., Alexandria 5	. . .	14.38	13.86	36.8	37.1
6415 Bourbon Farm Service, Paris 6	. . .	14.33	14.10	36.8	37.3
20 % Superphosphate					
6152 Farmers Supply Co., Roadfork	. . .	20.28	. . .	26.0	26.4
6169 Southern States Co-op., Hawesville	. . .	20.30	. . .	26.0	26.4
6170 Farmers Supply Co., Monticello	. . .	19.88	. . .	26.0	25.8

\* Boron guaranteed 0.45 percent - Found 0.42 percent  
 \*\* " " 0.45 " " 0.46 "

1. Boron guaranteed 0.34 percent - found 0.30 percent
2. " " " " " 0.32 "
3. " " " " " 0.33 "
4. " " " " " 0.31 "
5. " " " " " 0.30 "
6. " " " " " 0.26 "

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
<b>COOPERATIVE FERTILIZER SERVICE (Cont'd)</b>					
<b>20 % Superphosphate (Cont'd)</b>					
6245 Magoffin Farmers Supply, Salyersville	...	20.78	...	26.0	27.0
6246 Southern States Co-op., Elizabethtown	...	20.25	...	26.0	26.3
6363 Southern States Co-op., Carlisle	...	20.45	...	26.0	26.6
6416 Morrison & Wallace, Hodgenville	...	20.08	...	26.0	26.1
6417 C. C. Hdw., Feed & Seed Co., Hartford	...	20.10	...	26.0	26.1
6468 Pike County Hatchery, Pikeville	...	20.20	...	26.0	26.3
6469 Southern States Co-op., Danville	...	20.68	...	26.0	26.9
6470 Southern States Co-op., Shelbyville	...	19.18	...	26.0	24.9
<b>60 % Muriate of Potash</b>					
6128 Southern States Co-op., Campbellsville	...	...	59.80	54.0	53.8
6153 Owsley Farm Service, Booneville	...	...	59.96	54.0	54.0
6171 Farmers Service Store, Hardinsburg	...	...	60.48	54.0	54.4
6247 Rowan Farmers Supply, Morehead	...	...	59.00	54.0	53.1
6279 Morgan Farmers Store, West Liberty	...	...	59.32	54.0	53.4
6364 Southern States Co-op., Paducah	...	...	60.28	54.0	54.2
6365 Southern States Co-op., Bardstown	...	...	60.16	54.0	54.1
<b>CUMBERLAND CHEMICAL COMPANY, Hopkinsville, Ky.</b>					
<b>6-8-6 (Muriate)</b>					
6520 Trigg County Trading Co., Cadiz	5.97	8.40	7.09	35.6	35.1
<b>6-8-6 (Muriate 3, Sulfate 3)</b>					
5753 Smith & Reynolds Co., Slaughters	6.41	8.30	6.36	35.6	37.1
6111 The Planters Hdw Co., Hopkinsville	6.31	8.03	7.24	35.6	37.5
<b>3-12-12 (Muriate)</b>					
6521 Trigg County Trading Co., Cadiz	3.01	12.10	12.17	40.4	40.7
6522 Smith & Reynolds Co., Slaughters	2.95	12.30	11.96	40.4	40.6
<b>2-12-6 (Muriate)</b>					
5754 Todd County Implement Co., Elkton	2.19	12.30	6.29	32.4	33.4
5755 Fox Hdw. Co., Madisonville	2.11	11.93	6.58	32.4	33.1
5976 Ruble Grocery & Feed Store, Fredonia	2.09	11.78	6.61	32.4	32.9
5977 W. G. Putman Gen. Mdse., Nortonville	2.07	11.85	6.57	32.4	32.9
5978 Logan County Seed Co., Russellville	2.29	12.15	6.84	32.4	34.0
6129 Smith & Reynolds Co., Slaughters	1.74	12.68	6.01	32.4	32.7
6172 C. O. Bobb Hdw. Co., Sacramento	1.97	12.25	6.64	32.4	33.3
6248 Ruble Grocery & Feed Store, Fredonia	2.02	12.43	6.55	32.4	33.5
6325 Trenton Hdw. Co., Trenton	1.91	12.45	6.56	32.4	33.3
6418 Fox Hardware Co., Madisonville	1.95	12.65	6.07	32.4	33.2
6523 Smith & Reynolds Co., Slaughters	2.22	13.18	6.45	32.4	34.7
6589 Todd County Impl. Co., Elkton	2.32	12.48	7.32	32.4	34.9
<b>0-14-7 (Muriate)</b>					
6249 Ratliffe Hdw. Co., Princeton	...	13.73	7.78	29.8	30.3
6419 McGeehee Produce Co., Lewisburg	...	14.30	7.60	29.8	30.8

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
CUMBERLAND CHEMICAL CO., (Cont'd.)					
0-12-12 (Muriate)					
6326 Cayce-Yost Co, Hopkinsville	. . .	13.00	11.34	32.4	33.8
6524 Robinson Impl. Co., Princeton	. . .	12.08	12.91	32.4	33.4
0-12-12 (Muriate) with 5# Borax per 100#					
6112 Manufacturer's warehouse 7	. . .	12.98	12.15	32.4	33.7
20 % Superphosphate					
6250 Ruble Grocery & Feed Store, Fredonia	. . .	21.70	. . .	26.0	28.2
6251 Ratliffe Hdw. C., Princeton	. . .	21.95	. . .	26.0	28.5
5979 Logan County Seed Co., Russellville	. . .	20.75	. . .	26.0	27.0
6327 Trenton Hdw. Co., Trenton	. . .	20.85	. . .	26.0	27.1
6328 Todd County Impl. Co., Elkton	. . .	20.65	. . .	26.0	26.9
6420 Fox Hardware Co., Madisonville	. . .	21.75	. . .	26.0	28.3
6525 Smith & Reynolds Co., Slaughters	. . .	19.90	. . .	26.0	25.9
6590 Todd County Impl. Co., Elkton	. . .	20.75	. . .	26.0	27.0
THE DAVISON CHEMICAL CORPORATION, Hopkins Fertilizer Division, New Albany, Ind.					
6-8-6 (Muriate) Old Time					
5756 G. C. McPhetridge, London	5.89	8.73	6.42	35.6	36.7
5757 Henderson Feed & Commission Co., Henderson	5.83	8.68	6.61	35.6	36.7
6200 G. C. McPhetridge, London	5.28	9.20	6.70	35.6	36.3
6201 Henderson Feed & Commission Co., Henderson	5.33	8.80	6.83	35.6	36.1
6471 Climax Roller Mills, Shelbyville	5.30	9.03	6.58	35.6	36.0
6472 Henderson Feed & Commission Co., Henderson	5.73	9.65	5.87	35.6	36.9
6473 Buechel Produce Exchange, Buechel	5.87	9.10	6.04	35.6	36.7
6606 Henderson Feed & Commission Co., Henderson	6.13	8.48	6.70	35.6	37.1
6-8-6 (Sulfate) Old Time					
5758 Clifton Vickers, Grayhawk	5.82	8.73	6.05	35.6	36.2
6202 G. C. McPhetridge, London	6.29	8.38	6.14 <sup>j</sup>	35.6	36.8
3-12-12 (Muriate) Old Time					
5980 Jewell & Hayden, Bardstown	3.08	12.55	11.80	40.4	41.0
3-9-6 (Muriate) Old Time					
5759 Clifton Vickers, Grayhawk	3.18	9.25	7.02	30.8	32.5
5981 Ruark Truck Lines, Morganfield	2.98	9.00	6.62	30.8	31.4
2-12-6 (Muriate) Old Time					
5760 Clifton Vickers, Grayhawk	1.93	12.50	6.97	32.4	33.8
6203 Henderson Feed & Commission Co., Henderson	2.05	12.28	6.15	32.4	33.0
6474 " " " " " "	2.22	12.40	7.14	32.4	34.5
6475 Duncan, Hughes Co., LaGrange	2.06	12.35	6.50	32.4	33.4
6476 Climax Roller Mills, Shelbyville	1.86	11.90	6.91	32.4	32.9
6607 Henderson Feed & Commission Co., Henderson	2.05	11.95	6.55	32.4	33.0

7. Boron guaranteed 0.56 percent - found 0.59 percent

j. Excess muriate equivalent to 1.53 percent potash

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
THE DAVISON CHEMICAL CORPORATION, Hopkins Fertilizer Division, (Cont'd)					
0-12-12 (Muriate) Old Time					
6204 Henderson Feed & Com. Co., Henderson	. . .	12.00	11.91	32.4	32.3
6617 Springfield Feed & Grain Co., Springfield	. . .	<u>11.20</u>	<u>11.23</u>	32.4	<u>30.7</u>
THE DAVISON CHEMICAL CORPORATION, Read Phosphate Division, Nashville, Tennessee.					
6-8-6 (Muriate) Davco Red Diamond					
5761 Madison Farm Bureau, Richmond	5.57	9.40	4.92	35.6	35.3
5982 Nelson's Feed Store, Marion	<u>5.90</u>	8.95	<u>5.99</u>	35.6	36.5
6205 W. D. Smith & Co., Sebree	5.72	8.75	6.11	35.6	36.1
6206 Crafton Brothers Feed Store, Henderson	<u>5.70</u>	8.88	6.16	35.6	36.2
6280 Farmers Gin Co., Clinton	<u>5.82</u>	9.65	6.11	35.6	37.3
4-12-8 (Muriate) Davco Red Diamond					
5762 Smith & Reynolds, Slaughters	4.47	11.45	8.18	38.4	38.9
6282 Allen County Farmers Service, Scottsville	3.80	<u>12.33</u>	8.24	38.4	38.6
6591 R. M. Miller Seed & Popcorn Co., Murray	3.95	12.03	7.96	38.4	38.3
6592 W. D. Shoemaker Seed Co., Murray	<u>3.69</u>	12.90	8.17	38.4	39.0
6575 Allen County Farmers Service, Scottsville	<u>3.90</u>	11.93	8.36	38.4	38.5
4-12-8 (Sulfate) Davco Red Diamond					
5763 Cayce-Yost Co., Hopkinsville	4.40	12.38	8.24	38.4	39.9
6281 Allen County Farmers Service, Scottsville	<u>3.24</u>	12.65	<u>6.02*</u>	38.4	<u>35.7</u>
4-12-4 (Muriate) Davco Red Diamond					
5764 Robinson & Turley, Richmond	4.34	11.85	4.04	34.4	34.9
3-12-12 (Muriate) Davco Red Diamond					
5983 Farmers Gin Co., Clinton	3.10	11.65	11.80	40.4	40.0
6207 Crafton Brothers Feed Store, Henderson	2.90	<u>12.63</u>	<u>11.45</u>	40.4	40.4
6283 Farmers Gin Co., Clinton	3.19	12.20	<u>11.66</u>	40.4	40.7
6421 Farmers Cooperative, Madisonville	3.02	12.25	<u>11.88</u>	40.4	40.6
6477 Crafton Bros. Feed Store, Henderson	2.93	12.43	12.03	40.4	40.8
3-9-6 (Muriate) Davco Red Diamond					
5765 Salem Feed Store, Salem	3.08	9.33	5.74	30.8	31.1
6478 Stockton Bros., Albany	3.04	9.18	<u>6.19</u>	30.8	31.3
6593 W. D. Shoemaker Seed Co., Murray	2.92	9.60	5.82	30.8	31.2
2-12-6 (Muriate) Davco Red Diamond					
6173 Guenther Hdw. Co., Owensboro	2.15	11.95	5.86	32.4	32.5
6208 Farmers Supply Center, Leitchfield	2.27	12.00	6.14	32.4	33.1
6284 Farmers Gin Co., Clinton	2.06	12.60	5.99	32.4	33.2
6329 Fulkerson Brothers, Sonora	2.00	12.10	6.06	32.4	32.6
6422 J. B. Lucas Feed & Seed Co., Franklin	2.15	12.05	6.25	32.4	33.0
6576 Bishop, Patterson & Gray, Glasgow	2.12	<u>11.60</u>	6.27	32.4	32.4

\* Excess muriate equivalent to 5.01 percent potash

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
THE DAVISON CHEMICAL CORPORATION, Read Phosphate Division, (Cont'd)					
0-20-20 (Muriate) Davco Red Diamond					
6209 Crafton Brothers Feed Store, Henderson	...	19.30	19.32	50.0	48.5
6423 Simpson County Farmers Co-op., Franklin	...	18.35	17.22 <sup>1</sup>	50.0	45.2
6577 Simpson County Farmers Co-op., Franklin	...	19.78	20.38	50.0	50.1
0-14-7 (Muriate) Davco Red Diamond					
6252 Nelson's Feed Store, Marion	...	13.28	8.26	29.8	30.2
6330 Fulkerson Brothers, Sonora	...	13.90	7.09	29.8	29.8
6424 Dunagan and Dunagan, Horse Cave	...	13.50	7.80	29.8	30.0
0-12-12 (Muriate) Davco Red Diamond					
5766 Madison Farm Bureau, Richmond	...	11.30	8.69	32.4	28.3
6130 I. K. Miller & Son, Campbellsville	...	11.25	13.21	32.4	32.7
6479 Crafton Bros. Feed Store, Henderson	...	11.95	12.00	32.4	32.3
6526 Farmers Supply Co., Morganfield 8	...	12.25	13.09	32.4	33.8
6564 Logsdon Store, St. Mary	...	12.23	13.19	32.4	33.9
20 % Superphosphate, Davco Granulated					
5767 W. I. Smith General Store, Sebree	...	20.35	...	26.0	26.5
5768 Madison Farm Bureau, Richmond	...	20.30	...	26.0	26.4
5984 Walker Supply Co., Richmond	...	19.98	...	26.0	26.0
5985 Nelson's Feed Store, Marion	...	20.60	...	26.0	26.8
6131 I. K. Miller & Son, Campbellsville	...	20.40	...	26.0	26.5
6113 Allegre Milling Co., Allegre	...	20.50	...	26.0	26.7
6174 Guenther Hdw. Co., Owensboro	...	20.35	...	26.0	26.5
6210 Garrard Mills, Lancaster	...	20.20	...	26.0	26.3
6211 D. B. Saylor, Mt. Vernon	...	20.70	...	26.0	26.9
6212 A. H. Nelson, Victory	...	20.13	...	26.0	26.2
6213 Farmers Supply Center, Leitchfield	...	20.35	...	26.0	26.5
6285 Farmers Gin Co., Clinton	...	20.88	...	26.0	27.1
6331 Warren Elevator, Guthrie	...	20.63	...	26.0	26.8
6366 Springfield Feed & Grain Co., Springfield	...	20.48	...	26.0	26.6
6480 Walters & Thompson, Shelbyville	...	20.35	...	26.0	26.5
50 % Sulfate of Potash					
5986 Graves County Soil Association, Mayfield	...	...	50.76	55.0	55.8
ELLIS CHEMICAL COMPANY, New Albany, Ind.					
8-8-8 (Muriate)					
5769 Crafton Brothers Feed Store, Henderson	7.26	8.85	7.19	41.6	40.3
5770 Hal Young & Sons, Hawesville	7.04	8.93	7.53	41.6	40.3
6-8-12 (Sulfate)					
5771 Woodford Feed Co., Versailles	5.38	8.73	12.98 <sup>k</sup>	41.6	42.2

8. Sample contained 0.36 percent boron.

k. Excess muriate equivalent to 0.25 percent potash

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
ELLIS CHEMICAL COMPANY, (Cont'd.)					
6-8-6 (Muriate)					
5772 Crafton Bros. Feed Store, Henderson	5.92	8.70	7.74	35.6	38.0
6-8-6 (Sulfate)					
5987 R. C. Anderson, Marrowbone	5.94	8.48	6.06	35.6	36.1
5988 Ervin Smith, Hartford	<u>5.34</u>	8.78	6.47 <sup>1</sup>	35.6	35.7
3-12-12 (Muriate)					
5989 Kentucky Training Home, Frankfort	3.07	12.53	13.06	40.4	42.2
3-12-12 (Sulfate)					
5773 Crafton Brothers Feed Store, Henderson	3.51	12.28	12.07	40.4	41.8
5774 Jett Coal & Supply Co., Jett	2.90	<u>11.60</u>	12.40	40.4	40.1
5775 Monarch Milling Co., Mt. Sterling	3.36	<u>12.98</u>	11.83	40.4	42.1
5990 Monarch Milling Co., Mt. Sterling	3.34	12.93	<u>11.02</u>	40.4	41.2
3-9-6 (Muriate)					
5991 City Supply Co., Columbia	2.83	8.13	5.91	30.8	29.3
5992 Dudgeon and Robinson, Campbellsville	<u>2.70</u>	<u>10.03</u>	<u>5.63</u>	30.8	<u>31.1</u>
6367 Dudgeon and Robinson, Campbellsville	<u>2.24</u>	9.00	<u>6.91</u>	30.8	30.2
2-12-6 (Muriate)					
5776 Farmers Supply Co., Shelbyville	2.23	12.20	6.32	32.4	33.4
5993 Ervin Smith, Hartford	1.85	12.00	5.80	32.4	31.9
6175 W. C. Blair, Russell Springs	1.96	11.53	7.22	32.4	33.0
6527 Oscar Buis, Eubank	1.79	<u>13.10</u>	8.52	32.4	35.8
0-20-20 (Muriate)					
6481 W. C. Blair, Russell Springs	. . .	<u>18.03</u>	19.76	50.0	<u>47.4</u>
0-12-12 (Muriate)					
6132 Dudgeon & Robinson, Campbellsville	. . .	12.28	12.83	32.4	33.6
0-12-12 (Sulfate)					
5994 City Supply Co., Columbia	. . .	<u>8.90</u>	<u>11.23*</u>	32.4	<u>27.9</u>
0-12-12 (Muriate 6, Sulfate 6)					
5995 Loyd Yates & Son, Maud	. . .	13.95	<u>10.90</u>	32.4	33.6
20 % Superphosphate					
5777 Farmers Supply Co., Shelbyville	. . .	20.75	. . .	26.0	27.0
5778 Monarch Milling Co., Mt. Sterling	. . .	20.30	. . .	26.0	26.4
5779 James Carr, Richmond	. . .	20.60	. . .	26.0	26.8
5780 Ohio County Hatchery & Feed Store, Beaver Dam	. . .	20.83	. . .	26.0	27.1
5781 Monarch Milling Co., Mt. Sterling	. . .	20.70	. . .	26.0	26.9
5996 Allen Coal Service, Brandenburg	. . .	20.03	. . .	26.0	26.0
5997 Monarch Milling Co., Mt. Sterling	. . .	<u>19.68</u>	. . .	26.0	25.6

1. Excess muriate equivalent to 0.26 percent potash.

\* " " " " 6.48 " "

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ELLIS CHEMICAL COMPANY, (Cont'd.)					
20 % Superphosphate (Cont'd.)					
6133 Monarch Milling Co., Mt. Sterling	. . .	20.18	. . .	26.0	26.2
6134 Ohio County Hatchery, Beaver Dam	. . .	<u>17.20</u>	. . .	26.0	<u>22.4</u>
6176 W. C. Blair, Russell Springs	. . .	20.40	. . .	26.0	<u>26.5</u>
6177 Allen Coal Service, Brandenburg	. . .	19.63	. . .	26.0	25.5
6368 Dudgeon and Robinson, Campbellsville	. . .	20.33	. . .	26.0	26.4
6425 J. H. Greene, Lexington	. . .	20.08	. . .	26.0	26.1
6528 Oscar Buis, Eubank	. . .	20.75	. . .	26.0	27.0
21 % Sulfate of Potash Magnesia					
5782 Crafton Brothers, Henderson	. . .	. . .	22.00	42.0	44.0
6426 J. H. Greene, Lexington	. . .	. . .	22.70	42.0	45.4
EMPIRE STATE CHEMICAL CO., Athens, Ga.					
20 % Superphosphate, Hodgson's					
5998 Myers and Clark, Ashland	. . .	20.68	. . .	26.0	26.9
FEDERAL CHEMICAL COMPANY, Louisville, Ky.					
6-8-6 (Muriate)					
5783 W. T. Renaker, Verona	5.47	8.75	6.32	35.6	35.8
5999 Central State Hospital, Lakeland	<u>5.87</u>	8.55	5.91	35.6	35.9
6286 L. F. Thurmond Feed Store, Murray	5.92	8.58	6.24	35.6	36.4
6-8-6 (Sulfate)					
6594 A. C. Bogie, Winchester	6.09	8.83	6.09	35.6	36.9
4-12-8 (Muriate)					
6287 L. F. Thurmond Feed Store, Murray	4.12	12.75	<u>7.63</u>	38.4	39.2
6288 Ross Feed Co., Murray	4.04	12.45	<u>7.63</u>	38.4	38.7
4-12-8 (Sulfate)					
5784 Truman Atherton, Gen. Mdse., Livermore	3.87	12.28	<u>7.60</u> *	38.4	38.1
6608 J. F. Bertram & Son, Vanceburg	4.44	11.70	<u>8.62</u>	38.4	39.5
6609 A. C. Bogie, Winchester	4.27	<u>12.08</u>	8.72	38.4	39.8
4-12-4 (Muriate)					
6000 Shaker Feed & Seed Co., South Union	4.24	12.23	4.11	34.4	35.3
3-12-12 (Muriate)					
6289 Clinton Hatchery, Clinton	3.24	12.00	11.97	40.4	40.9
6290 Crawford & Ferguson, Benton	3.24	11.93	12.16	40.4	41.0
6595 Clinton Hatchery, Clinton	3.13	12.33	12.01	40.4	41.1
3-9-6 (Muriate)					
5785 Wright & Williams, Whitley City	3.36	10.15	5.71	30.8	32.6
5786 J. B. Atkinson, Hopkinsville	3.13	9.45	<u>6.14</u>	30.8	31.7
6001 Taylor County Impl. & Feed Co., Campbellsville	3.22	9.65	5.98	30.8	32.0
6291 Ross Feed Co., Murray	3.20	9.00	5.96	30.8	31.2

\* Excess muriate equivalent to 1.02 percent potash



COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
FEDERAL CHEMICAL CO., (Cont'd.)					
3-9-6 (Muriate) (Cont'd.)					
6292 Crawford & Ferguson, Benton	3.15	9.05	5.80	30.8	31.0
6610 A. C. Bogie, Winchester	3.31	9.08	6.11	30.8	31.6
3-9-6 (Sulfate)					
5787 H. D. Jones, Glasgow	3.08	10.50	7.06 <sup>m</sup>	30.8	33.8
6002 W. L. Rice & Son, Rice Station	3.11	9.88	5.99 <sup>n</sup>	30.8	32.1
2-12-6 (Muriate)					
6178 Allen's Coal Service, Brandenburg	2.19	11.88	6.22	32.4	32.9
6293 Smith & Wells, Glasgow	2.20	11.63	6.11	32.4	32.5
6294 Allen & Jenkins, Bowling Green	2.16	12.13	6.05	32.4	32.9
6295 Clinton Hatchery, Clinton	2.34	11.83	6.00	32.4	32.9
6427 Shaker Feed & Seed Co., South Union	2.28	12.40	6.17	32.4	33.6
6482 Carl J. Hagman, Cloverport	2.29	11.75	6.34	32.4	33.0
0-20-20 (Muriate)					
6428 Allen's Coal Service, Brandenburg	. . .	19.70	19.46	50.0	49.1
0-14-14 (Muriate)					
6369 Croft's Mill, Salem	. . .	13.68	14.02	36.8	36.4
0-14-7 (Muriate)					
5788 Richmond Coal & Feed Co., Richmond	. . .	14.00	7.63	29.8	30.4
6003 J. W. Edwards & Son, Woodburn	. . .	14.23	7.14	29.8	30.2
6429 Shaker Feed & Seed Co., South Union	. . .	13.55	6.97	29.8	29.2
0-12-12 (Muriate)					
6370 Carter Sparks, Edmonton	. . .	12.23	12.04	32.4	32.7
6483 Hall Seed Co., Louisville	. . .	11.93	12.26	32.4	32.6
45 % Superphosphate					
6004 Robert James Feed Store, Franklin	. . .	35.95	. . .	58.5	46.7
20 % Superphosphate					
5789 Ballard & Lear, Lancaster	. . .	20.35	. . .	26.0	26.5
6154 Robert James Feed Store, Franklin	. . .	20.73	. . .	26.0	27.0
6296 Slone Brothers, Jackson	. . .	18.40	. . .	26.0	23.9
6297 Ross Feed Co., Murray	. . .	19.65	. . .	26.0	25.6
6371 Taylor County Impl. Co., Campbellsville	. . .	21.03	. . .	26.0	27.3
6430 Allen's Coal Service, Brandenburg	. . .	21.00	. . .	26.0	27.3
6529 Fiechter Hardware Co., London	. . .	20.65	. . .	26.0	26.9
50 % Muriate of Potash					
6155 Robert James Feed Store, Franklin	. . .	. . .	50.40	45.0	45.4
6114 Allen & Jenkins, Bowling Green	. . .	. . .	50.16	45.0	45.1
44-0-0 Urea, "Nugreen Brand"					
5790 Henderson Farmers Supply Co., Henderson	44.44	. . .	. . .	79.2	80.0

m. Excess muriate equivalent to 0.96 percent potash  
n. " " " " 4.30 " "

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
HUTSON CHEMICAL CO., Murray, Ky.					
6-8-6 (Sulfate)					
6005 Manufacturer's warehouse	<u>4.85</u>	8.90	7.08 <sup>o</sup>	35.6	35.5
4-12-8 (Muriate)					
6006 Howard's General Store, Lynn Grove	3.89	11.83	7.90	38.4	37.9
6007 Manufacturer's warehouse	4.00	11.75	7.79	38.4	37.9
6298 " "	4.02	11.98	8.28	38.4	38.7
6596 " "	4.14	<u>11.58</u>	8.91	38.4	39.1
INTERNATIONAL MINERALS & CHEMICAL CORPORATION, Cincinnati 15, Ohio					
10-10-10 (Muriate)					
5791 Lawson Hardware Co., Greenup	<u>9.50</u>	10.15	10.53	50.0	49.7
6008 Curtis E. George, Princeton	<u>8.35</u>	10.80	<u>9.53</u>	50.0	<u>47.2</u>
6-12-12 (Muriate)					
5792 N. T. Nuckols, Elkton	6.33	12.33	<u>11.62</u>	46.4	47.1
6-12-12 (Muriate 3, Sulfate 9)					
5793 Geo. Coy, Kirksville	<u>5.69</u>	12.20	12.18	46.4	46.2
5794 J. R. Prather, Maysville	<u>5.53</u>	12.73	11.45	46.4	45.8
6009 Curtis E. George, Princeton	<u>4.94</u>	11.88	<u>10.69</u>	46.4	42.8
6618 Springfield Feed & Grain Co., Springfield	<u>5.39</u>	12.30	<u>11.80<sup>p</sup></u>	46.4	<u>45.3</u>
6-8-6 (Sulfate)					
6611 C. H. Fannin, Little Sandy	6.04	8.48	6.36	35.6	36.6
4-12-8 (Muriate)					
5795 Cooper Brothers Feed Store, Elizabethtown	3.89	12.88	8.11	38.4	39.4
5796 Hart Brothers, Somerset	4.09	13.33	7.70	38.4	39.9
5797 Narvil Jones, Marshes Siding	4.00	12.78	<u>8.34</u>	38.4	39.7
5798 Steve Rose Market, Campton	3.93	12.30	8.55	38.4	39.2
6179 Claude Beck Service Station, Jamestown	4.19	<u>11.40</u>	9.27	38.4	39.3
4-12-8 (Sulfate)					
5799 J. R. Prather, Maysville	3.88	12.20	8.49	38.4	38.9
6010 Curtis E. George, Princeton	4.12	12.25	<u>7.63<sup>q</sup></u>	38.4	38.6
6011 Humphrey Brothers, Bloomfield	3.87	12.40	<u>8.44</u>	38.4	39.1
6619 Springfield Feed & Grain Co., Springfield	4.07	12.80	8.54	38.4	40.0
3-12-12 (Muriate)					
6012 Humphrey Brothers, Bloomfield	2.85	12.43	12.76	40.4	41.4
6013 Boone's Feed Store, Stanford	3.07	13.30	12.03	40.4	42.1
6214 Farm & Home Supply, Irvine	2.99	12.70	12.04	40.4	41.3
6612 Lawson Hardware Co., Greenup	3.00	12.65	12.31	40.4	41.5

o. Excess muriate equivalent to 2.04 potash

p. Excess muriate equivalent to 0.37 percent potash

q. " " " " 0.83 " "

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
INTERNATIONAL MINERALS & CHEMICAL CORPORATION, (Cont'd)					
2-12-6 (Muriate)					
5800 Triplett's Store, South Corbin	1.91	12.30	6.76	32.4	33.3
6135 Cooper Brothers Feed Store, Elizabethtown	1.88	12.08	6.13	32.4	32.4
6215 Ruark Truck Lines, Morganfield	2.19	13.73	6.09	32.4	35.0
6253 Cooper Brothers Feed Store, Elizabethtown	2.02	12.55	6.73	32.4	33.8
6332 N. T. Nuckols, Elkton	2.24	12.40	5.96	32.4	33.3
6375 Woodson Lewis, Greensburg	2.13	12.23	6.92	32.4	33.9
6431 Cooper Brothers Feed Store, Elizabethtown	1.95	12.70	6.93	32.4	34.1
6530 Farmers Supply Co., Somerset	2.01	12.55	6.47	32.4	33.6
6531 Cass & Cash, Brodhead	2.00	12.63	6.36	32.4	33.5
6532 Stinson Cundiff, Faubush	1.95	12.80	6.37	32.4	33.6
6613 Lawson Hardware Co., Greenup	2.01	12.25	6.50	32.4	33.2
0-20-20 (Muriate)					
5801 Farmers Cooperative Store, Owensboro	. . .	20.00	20.14	50.0	50.1
6216 Farm & Home Supply, Irvine	. . .	20.45	20.12	50.0	50.7
0-14-7 (Muriate)					
5802 Cooper Brothers Feed Store, Elizabethtown	. . .	14.33	7.53	29.8	30.7
5803 Emerson's Store, Waynesburg	. . .	14.53	8.30	29.8	31.7
6014 G. H. Bowles & Son, Glasgow	. . .	14.00	7.54	29.8	30.3
6136 Cooper Brothers Feed Store, Elizabethtown	. . .	13.88	8.44	29.8	31.1
6254 " " " " "	. . .	14.65	7.53	29.8	31.1
6432 " " " " "	. . .	13.95	7.90	29.8	30.6
0-12-12 (Muriate)					
6015 J. W. Davidson, Science Hill	. . .	12.50	12.41	32.4	33.4
6484 Hovious & Shearer, Hustonville	. . .	12.35	12.00	32.4	32.8
20 % Superphosphate					
5804 Cooper Brothers Feed Store, Elizabethtown	. . .	21.25	. . .	26.0	27.6
5805 Harlan Fruit Co., Harlan	. . .	20.40	. . .	26.0	26.8
6016 Cooper Brothers Feed Store, Elizabethtown	. . .	21.48	. . .	26.0	27.9
6017 Farm & Home Supply, Irvine	. . .	20.43	. . .	26.0	26.6
6018 J. A. Oldfield, Mize	. . .	21.00	. . .	26.0	27.3
6019 Rankin Barnett, Clay City	. . .	20.70	. . .	26.0	26.9
6180 Allen's Coal Service, Brandenburg	. . .	20.10	. . .	26.0	26.1
6217 Farm & Home Supply, Irvine	. . .	20.40	. . .	26.0	26.5
6255 J. C. Eldridge, Sharkey	. . .	20.40	. . .	26.0	26.5
6433 Hayes Feed Store, Hodgenville	. . .	19.95	. . .	26.0	25.9
6434 Cooper Brothers Feed Store, Elizabethtown	. . .	20.08	. . .	26.0	26.1
6485 Hovious & Shearer, Hustonville	. . .	20.73	. . .	26.0	27.0
6533 Harlan Fruit Co., Harlan	. . .	20.63	. . .	26.0	26.8
6565 Cooper Brothers Feed Store, Elizabethtown	. . .	20.40	. . .	26.0	26.5
16 % Nitrate of Soda					
5806 Cass & Cash, Brodhead	16.08	. . .	. . .	48.0	48.2
6020 Monarch Milling Co, Mt. Sterling	16.02	. . .	. . .	48.0	48.1

## REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
INTERNATIONAL MINERALS & CHEMICAL CORPORATION, (Cont'd)					
50 % Muriate of Potash					
5807 Southern States Cooperative, Henderson	...	...	53.64	45.0	48.3
6486 Woodford Feed Company, Versailles	...	...	53.24	45.0	47.9
6534 Harlan Fruit Co., Harlan	...	...	51.32	45.0	46.2
21.50 % Sulfate of Potash Magnesia					
5808 Willoughby Supply Co., Richmond	...	...	21.84	43.0	43.7
INTERSTATE FERTILIZER CO., Cairo, Ill.					
8-8-8 (Muriate)					
5809 Yopp Seed Co., Paducah	7.81	8.03	8.61	41.6	41.9
6-8-6 (Muriate)					
6021 Ballard County Co-op., LaCenter	5.62	8.48	6.39	35.6	35.8
6372 " " " "	5.88	8.40	6.38	35.6	36.2
5-20-20 (Muriate)					
6373 Ballard County Co-op., LaCenter	4.88	19.90	19.84	62.0	61.5
4-12-8 (Muriate)					
6022 Marshall County Soil Imp., Asso., Benton	4.41	11.85	7.78	38.4	38.8
6299 Mayfield Sweet Feed Mill, Mayfield	4.08	11.95	8.27	38.4	38.8
6597 Calloway County Soil Imp. Assoc., Murray	3.95	12.23	8.05	38.4	38.6
6598 Marshall County Soil Asso., Benton	4.01	11.83	8.27	38.4	38.5
3-12-12 (Muriate)					
5810 Farmers Implement & Supply Co., Hickman	3.06	12.08	13.04	40.4	41.7
6023 Ballard County Co-op., LaCenter	3.34	12.00	11.23	40.4	40.3
6374 " " " "	3.13	12.13	12.18	40.4	41.0
6599 Calloway County Soil Imp. Asso., Murray	3.07	12.00	12.18	40.4	40.7
3-9-6 (Muriate)					
6024 Marshall County Soil Imp. Asso., Benton	3.05	9.00	6.19	30.8	31.1
50 % Sulfate of Potash					
5811 Southern States Co-op., Paducah	...	...	50.28	55.0	55.3
KENTUCKY FERTILIZER WORKS, Winchester, Ky.					
6-8-6 (Sulfate) "P. P. F. Brand"					
5812 Sherman Adams, Paint Lick	6.04	8.15	6.24	35.6	36.1
6025 Farmers Supply Co., Danville	6.02	8.70	6.39	35.6	36.9
6435 Manufacturer's warehouse	6.08	8.10	6.07	35.6	36.0
4-12-8 (Sulfate) "P. P. F. Brand"					
6026 Farmers Supply Co., Danville	4.19	12.50	7.98	38.4	39.4
4-7-5 (Muriate) "P. P. F. Brand"					
6300 Manufacturer's warehouse	4.18	7.90	4.74	29.4	30.6

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
<b>KENTUCKY FERTILIZER WORKS (Cont'd.)</b>					
3-12-12 (Muriate) "P. P. F. Brand"					
5813 Johnson Brothers, Lexington	2.95	12.15	12.97	40.4	41.5
5814 Manufacturer's warehouse	3.13	12.13	12.53	40.4	41.4
6333 Dean & Dean, Augusta	3.04	10.60	14.85	40.4	41.7
6436 Manufacturer's warehouse	3.11	<u>11.98</u>	11.85	40.4	40.5
3-12-12 (Sulfate) "P. P. F. Brand"					
5815 Manufacturer's warehouse	3.11	12.70	11.83	40.4	41.3
3-9-6 (Muriate) "P. P. F. Brand"					
5816 Robinson & Turley, Richmond	3.26	8.48	6.53	30.8	31.2
6027 Farmers Supply Co., Danville	3.15	<u>9.00</u>	5.87	30.8	31.0
3-9-6 (Sulfate) "P. P. F. Brand"					
5817 Booneville Wholesale Co., Booneville	3.25	8.63	5.93	30.8	30.9
5818 Wolfinbarger's Grocery, West Irvine	2.97	<u>9.40</u>	6.01	30.8	31.2
2-12-6 (Muriate) "P. P. F. Brand"					
5819 Booneville Wholesale Co., Booneville	2.14	11.78	5.98	32.4	32.4
0-12-12 (Muriate) "P. P. F. Brand" with 2# borax per 100#					
6437 Manufacturer's warehouse 9	. . .	11.78	12.21	32.4	32.4
20 % Superphosphate "P. P. F. Brand"					
6028 E. C. Tussey, Richmond	. . .	21.03	. . .	26.0	27.3
6156 Booneville Wholesale Co., Booneville	. . .	20.08	. . .	26.0	26.1
6334 Dean & Dean, Augusta	. . .	20.25	. . .	26.0	26.3
6487 Farmers Supply Co., Danville	. . .	20.05	. . .	26.0	26.1
6488 Brown Auto & Elec. Co., West Liberty	. . .	19.90	. . .	26.0	25.9
57 % Sulfate of Potash, "P. P. F. Brand"					
6256 Sphar and Co., Winchester	. . .	. . .	48.56	55.0	53.4
6438 Manufacturer's warehouse	. . .	. . .	<u>50.96</u>	55.0	<u>56.1</u>
<b>KNOXVILLE FERTILIZER COMPANY, Knoxville &amp; Nashville, Tenn., London, Ky.</b>					
10-10-5 (Muriate)					
6535 Manufacturer's warehouse	<u>9.40</u>	10.25	5.53	45.0	44.6
8-8-8 (Muriate) Knox Pulverized					
5820 Western Ky. State Hospital, Hopkinsville	<u>6.65</u>	10.65	8.26	41.6	42.3
6-8-6 (Muriate) Knox Pulverized					
6115 Eddyville Penitentiary, Eddyville	<u>5.38</u>	8.65	5.94	35.6	35.1
6-8-6 (Sulfate) Knox Pulverized					
5821 Hal Young & Sons, Hawesville	<u>5.48</u>	9.40	5.98	35.6	36.2
5822 Madison Farm Supply Co., Richmond	<u>5.63</u>	8.50	5.79	35.6	35.3
6029 Grayson County Supply Co., Leitchfield	<u>5.33</u>	9.20	5.74	35.6	35.4
6566 Harrison Bros. Farm Supply, Berea	<u>6.02</u>	9.10	<u>5.96</u>	35.6	36.9

9 Boron guaranteed 0.22 percent - found 0.20 percent.

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
<b>KNOXVILLE FERTILIZER COMPANY (Cont'd.)</b>					
4-12-18 (Muriate) Knox Pulverized 6116 J. D. Weil, Lexington	4.06	<u>11.58</u>	17.78	48.4	47.8
4-12-4 (Muriate)					
5823 Hoagland Hardware Co., Sacramento	3.86	12.05	4.53	34.4	34.7
5824 Jellico Grocery, Harlan	4.10	12.10	4.31	34.4	35.0
6181 Hobart & Milton Roberts, Monticello	4.03	<u>11.45</u>	4.16	34.4	34.0
6182 Gibson's Farm Service, Barbourville	4.02	<u>11.18</u>	4.08	34.4	33.5
4-12-0 Knox Pulverized					
5825 Madison Farm Supply Co., Richmond	<u>3.16</u>	<u>11.23</u>	12.30	28.4	<u>25.8</u>
3-9-6 (Muriate)					
5826 Farmers Feed Market, Bowling Green	3.18	10.05	6.21	30.8	32.6
5827 The Planters Hdw. Co., Hopkinsville	3.05	9.70	5.98	30.8	31.7
6030 A. P. Vaught & Co., Science Hill	3.05	<u>8.35</u>	6.07	30.8	30.2
6031 Shipp & Allen, Campbellsville	3.25	<u>9.23</u>	6.22	30.8	31.8
6439 Morrison & Wallace, Hodgenville	3.07	9.20	5.95	30.8	31.1
6489 Geo. H. Cheek, Frankfort	2.85	9.78	6.03	30.8	31.5
6536 Manufacturer's warehouse	2.97	8.90	6.55	30.8	31.2
3-9-6 (Sulfate) Knox Pulverized					
5828 Mt. Vernon Produce Co., Mt. Vernon	3.00	9.25	5.85	30.8	31.0
6032 Sanders & Rankin, Lancaster	3.17	9.10	6.19	30.8	31.5
6033 Laurel Grocery, East Bernstadt	3.14	9.20	5.90	30.8	31.2
3-9-6 (Muriate 3, Sulfate 3)					
5829 Ancil C. McQueen, Bond	3.10	9.00	6.19	30.8	31.2
2-12-12 (Muriate) Knox Pulverized					
6257 Princeton Mills, Princeton	2.04	11.93	11.88	38.4	38.3
6537 Manufacturer's warehouse	2.15	11.20	12.85	38.4	38.6
6600 Covington Grain & Seed Co., Guthrie	2.19	<u>12.03</u>	<u>10.54</u>	38.4	<u>37.4</u>
2-12-12 (Muriate) with 60# borax per ton					
6117 A. P. Vaught & Co., Science Hill 10	2.38	10.53	13.81	38.4	39.2
6538 Manufacturer's warehouse *	2.23	<u>10.20</u>	13.87	38.4	38.6
2-12-6 (Muriate)					
6034 Clay County Farm Service, Manchester	1.75	12.30	8.03	32.4	34.3
6183 Hal Young & Sons, Hawesville	1.90	12.35	6.07	32.4	32.7
6218 A. P. Vaught & Co., Science Hill	1.95	11.93	5.78	32.4	32.0
6335 Covington Grain & Seed Co., Guthrie	1.87	12.65	5.53	32.4	32.5
6376 W. C. Turner, Greensburg	2.81	12.23	<u>6.86</u>	32.4	35.2
6440 Hoagland Hdw. Co., Sacramento	2.30	11.98	5.65	32.4	32.6
6539 Manufacturer's warehouse	2.08	12.70	<u>6.53</u>	32.4	33.9
6578 Allen County Mills, Scottsville	2.29	13.05	<u>5.59</u>	32.4	33.8

10. Boron guaranteed 0.34 percent - found 0.42 percent

\* " " 0.34 " " 0.37 "

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
<b>KNOXVILLE FERTILIZER COMPANY (Cont'd.)</b>					
<b>0-14-7 (Muriate) Knox</b>					
5830 London Grocery, London	. . .	13.48	7.59	29.8	29.8
6035 City Supply Co., Columbia	. . .	14.10	6.70	29.8	29.6
6184 Mt. Vernon Produce Co., Mt. Vernon	. . .	13.90	7.10	29.8	29.8
6337 Creech and Son, South Corbin	. . .	13.28	5.15	29.8	27.1
6338 Laswell Milling Co., Brodhead	. . .	13.58	7.98	29.8	30.3
6441 Harris Feed Co., Franklin	. . .	14.30	6.32	29.8	29.5
<b>0-14-7 (Muriate) with 60# borax per ton</b>					
6336 Mt. Vernon Produce Co., Mt. Vernon 11	. . .	13.03	4.46	29.8	25.9
<b>0-12-12 (Muriate) Knox Pulverized</b>					
6219 A. P. Vaught & Co., Science Hill	. . .	11.95	11.48	32.4	31.8
6339 Laswell Milling Co., Brodhead	. . .	11.03	11.36	32.4	30.6
6490 Geo. W. Cheek, Frankfort	. . .	12.03	12.32	32.4	32.9
6540 Manufacturer's warehouse	. . .	12.20	12.14	32.4	32.8
<b>0-12-12 (Muriate) with 60# borax per ton</b>					
6541 Manufacturer's warehouse 13	. . .	11.60	11.36	32.4	31.3
<b>20 % Superphosphate, Knox Pulverized</b>					
5831 W. H. Brock & Co., Winchester	. . .	20.20	. . .	26.0	26.3
5832 Hill & Pearson, College Hill	. . .	20.23	. . .	26.0	26.3
6036 Baughman Milling Co., Stanford	. . .	20.70	. . .	26.0	26.9
6037 M. C. Roberts Coal & Feed Co., So. Irvine	. . .	22.10	. . .	26.0	28.7
6038 Farmers Feed & Supply Co., London	. . .	19.18	. . .	26.0	24.9
6137 Jack Shirley Hdw. Co., Edmonton	. . .	18.98	. . .	26.0	24.7
6258 Princeton Mills, Princeton	. . .	19.40	. . .	26.0	25.2
6340 Creech & Son, So. Corbin	. . .	20.03	. . .	26.0	26.0
6341 L. C. McLoney & Sons, Cynthiana	. . .	20.33	. . .	26.0	26.4
6491 Hobart & Milton Roberts, Monticello	. . .	19.45	. . .	26.0	25.3
6542 Manufacturer's warehouse	. . .	19.18	. . .	26.0	24.9
6543 Princeton Mills, Princeton	. . .	19.25	. . .	26.0	25.0
6492 Dobson Supply Co., Booneville	. . .	20.08	. . .	26.0	26.1
<b>19 % Superphosphate, Knox</b>					
5833 Richardson Brothers, Eighty-Eight	. . .	18.53	. . .	24.7	24.1
5834 Grayson County Supply Co., Leitchfield	. . .	18.30	. . .	24.7	23.8
5835 Amburgey's Farm Supply, Mt. Sterling	. . .	17.08	. . .	24.7	22.2
5836 Farmers Feed Market, Bowling Green	. . .	19.10	. . .	24.7	24.8
6039 Princeton Mills, Princeton	. . .	18.90	. . .	24.7	24.6

11. Boron guaranteed 0.34 percent - found 0.43 percent.

13. " " 0.34 " " 0.37 "

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
<b>KNOXVILLE FERTILIZER COMPANY (Cont'd)</b>					
33.50 % Ammonium Nitrate 6220 Southern States Co-op., London	33.48	...	...	67.0	67.0
33 % Ammonium Nitrate 6493 Hobart & Milton Roberts, Monticello	33.24	...	...	66.0	66.5
6567 Harrison Bros. Farm Supply, Berea	<u>32.36</u>	...	...	66.0	<u>64.7</u>
32.50 % Ammonium Nitrate 6040 Farmers Feed Market, Bowling Green	33.64	...	...	65.0	67.3
60 % Muriate of Potash 6494 Geo. H. Cheek, Frankfort	...	...	60.72	54.0	54.6
6544 Manufacturer's warehouse	...	...	60.00	54.0	54.0
48 % Sulfate of Potash 5837 Sanders & Rankin, Lancaster	...	...	52.64	52.8	57.9
5838 Madison Farmers Supply Co., Richmond	...	...	52.56	52.8	57.8
22 % Sulfate of Potash Magnesia 6041 Hill & Pearson, College Hill	...	...	22.24	44.0	44.5
<b>LION OIL COMPANY, El Dorado, Arkansas</b>					
33.50 % Ammonium Nitrate 5839 Cook & Moore, Tompkinsville	<u>33.12</u>	...	...	67.0	66.2
<b>MIDWESTERN PHOSPHATE CORPORATION, Madison, Wisconsin</b>					
20 % Superphosphate 5840 Robinson & Turley, Richmond	...	20.70	...	26.0	26.9
5841 Willoughby Supply Co., Richmond	...	20.48	...	26.0	26.6
<b>NORTH AMERICAN FERTILIZER COMPANY, Louisville, Kentucky</b>					
6-20-10 (Muriate) 6495 Meadow View Farms, Elizabethtown	6.15	19.90	10.11	54.0	54.3
6-8-6 (Muriate) 6496 J. M. Milling Co., Frankfort	<u>5.56</u>	8.60	6.72	35.6	36.2
6614 Farm Service Co-op., Henderson	<u>5.59</u>	8.43	6.56	35.6	35.9
6-8-6 (Sulfate) 5842 Amburgey's Farm Supply, Mt. Sterling	5.74	8.48	6.68*	35.6	36.3
6545 Fletcher Taylor, Nicholasville	<u>5.95</u>	8.98	6.53 <sup>r</sup>	35.6	37.2
6620 William Preston, Lexington	5.91	8.33	6.63	35.6	36.5

\* Excess muriate equivalent to 0.30 percent potash  
r. " " " "0.54 " "



COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
NORTH AMERICAN FERTILIZER COMPANY (Cont'd)					
6-8-6 (Muriate 3, Sulfate 3)					
6042 Monarch Milling Co., Mt. Sterling	<u>5.28</u>	9.38	6.40 <sup>s</sup>	35.6	36.2
4-12-8 (Sulfate)					
5843 Fletcher Taylor & Sons, Nicholasville	4.14	12.00	8.17	38.4	38.9
5844 Clark County Hatchery, Winchester	4.01	11.83	8.02	38.4	38.2
5845 J. M. Milling Co., Frankfort	4.17	<u>11.43</u>	8.36	38.4	38.4
5846 W. E. Perkins, LaCenter	3.93	<u>12.20</u>	8.46	38.4	39.0
4-12-4 (Muriate)					
6497 Bunton Seed Co., Louisville	4.74	12.10	4.76	34.4	36.8
3-12-12 (Muriate)					
6546 Fletcher Taylor, Nicholasville	2.91	12.00	12.85	40.4	41.1
6621 William Preston, Lexington	2.98	11.80	12.47	40.4	40.6
3-12-12 (Muriate 6, Sulfate 6)					
6547 Fletcher Taylor, Nicholasville	3.14	12.08	13.06	40.4	41.8
3-9-6 (Muriate)					
5847 Gentry McCauley, Versailles	3.55	9.65	6.23	30.8	32.9
6043 E. M. Woosley Gen. Mdse., Rosine	2.94	<u>8.38</u>	7.54	30.8	31.5
6044 M. C. Roberts Coal & Feed Co., South Irvine	3.15	<u>8.93</u>	5.90	30.8	30.9
6579 Farmers Feed Store, Central City	2.88	9.28	6.76	30.8	31.7
2-12-6 (Muriate)					
5848 Renfro Supply Co., Williamsburg	2.33	12.75	6.16	32.4	34.1
5849 W. E. Perkins, LaCenter	2.05	12.68	<u>5.17</u>	32.4	32.5
6045 M. C. Roberts Coal & Feed Co., S. Irvine	1.76	12.48	<u>5.57</u>	32.4	32.0
6046 Grigsby & Co., Bardstown	1.97	12.00	<u>6.50</u>	32.4	32.8
6185 Farmers Cooperative, Owensboro	2.35	11.15	6.63	32.4	32.7
6221 Leonard Hdw. & Farm Supply Co., Greenville	2.22	<u>11.90</u>	6.04	32.4	32.8
6301 Farmers Service, Tompkinsville	1.86	11.93	5.35	32.4	31.4
6380 Grigsby and Co., Bardstown	1.89	13.20	<u>5.66</u>	32.4	<u>33.3</u>
0-12-12 (Muriate)					
6186 Farmers Co-op Store, Owensboro	. . .	11.40	11.25	32.4	30.9
6259 Watson Coal & Feed Co., Princeton	. . .	<u>12.43</u>	<u>12.91</u>	32.4	<u>33.8</u>
6622 William Preston, Lexington	. . .	12.10	12.07	32.4	32.6
20 % Superphosphate					
6047 E. M. Woosley Gen. Mdse., Rosine	. . .	20.50	. . .	26.0	26.7
6381 Grigsby and Co., Bardstown.	. . .	20.90	. . .	26.0	27.2
6498 W. D. Cunningham, Webbs Cross Roads	. . .	19.90	. . .	26.0	25.9
6580 Crab Orchard Lumber Co., Crab Orchard	. . .	20.48	. . .	26.0	26.6
48 % Sulfate of Potash					
5850 D. Yount, Cropper	. . .	. . .	48.72	52.8	53.6
6048 Morrison & Wallace, Hodgenville	. . .	. . .	50.68	52.8	55.8
6049 Clay County Farm Service, Manchester	. . .	. . .	50.00	52.8	55.0
6050 J. A. Bennett Hdw. Store, Taylorsville	. . .	. . .	49.40	52.8	54.3

s. Potash all muriate

## REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
OHIO-KARR CHEMICAL CORPORATION Columbus, O.					
Sulfate of Potash 48%					
5851 Southern States Co-op., Maysville	. . .	. . .	52.24	52.8	57.5
5852 Southern States Co-op., Frankfort	. . .	. . .	45.64	52.8	50.2
6051 Southern States Co-op., Flemingsburg	. . .	. . .	<u>52.68</u>	52.8	<u>58.0</u>
6052 Southern States Co-op., Harrodsburg	. . .	. . .	52.76	52.8	58.0
PRICE CHEMICAL CO., Louisville, Ky.					
6-8-6 (Muriate)					
5853 Wallace Brothers Lumber Co., Hartford	5.37	10.10	6.75	35.6	37.6
6054 Guenther Hardware Co., Owensboro	<u>6.16</u>	8.85	5.75	35.6	36.7
6055 W. L. Anderson & Sons, Caneyville	5.92	8.60	7.04	35.6	37.2
6-8-6 (Sulfate)					
5854 Y. P. Snell, Bowling Green	<u>5.64</u>	9.13	6.94	35.6	37.2
5855 St. Matthews Produce Exchange, St. Matthews	<u>6.29</u>	8.73	6.21	35.6	37.3
5856 Farmers Exchange, Lancaster	<u>5.57</u>	9.20	6.75	35.6	36.9
6056 Farmers Supply Center, Leitchfield	<u>5.88</u>	8.68	6.98	35.6	37.2
3-12-12 (Sulfate)					
6057 Monarch Milling Co., Mt. Sterling.	3.06	12.75	<u>11.16</u>	40.4	40.6
3-9-6 (Muriate)					
5857 Condit & Atherton Hdw. Co., Livermore	3.19	9.48	5.54	30.8	31.3
6058 Monarch Milling Co., Mt. Sterling	3.17	9.55	<u>6.69</u>	30.8	32.5
2-12-6 (Muriate)					
5858 Hardin County Milling Co., Elizabethtown	2.41	11.95	6.88	32.4	34.0
5859 St. Matthews Produce Exchange, St. Matthews	2.07	12.38	6.96	32.4	34.0
5860 Broadstreet Furniture & Hdw. Co., Central City	2.36	12.48	6.23	32.4	33.9
5861 Brewer's Grocery, Beattyville	2.34	12.55	5.99	32.4	33.7
6059 Caulke Hdw. Co., Campbellsville	2.14	12.05	7.48	32.4	34.2
6060 Saufley & Bell, Stanford	1.85	12.00	6.71	32.4	32.8
6342 Foster Fertilizer Co., Hopkinsville	2.04	12.45	7.01	32.4	34.0
6377 Jack Shirley Hdw. Co., Edmonton	1.95	12.45	6.55	32.4	33.4
6499 St. Matthews Produce Exchange, St. Matthews	2.31	13.15	7.46	32.4	35.9
6548 Saufley & Bell, Stanford	2.30	13.05	7.27	32.4	35.5
0-14-7 (Muriate) with 200# tobacco stems					
5863 Condit & Atherton Hdw. Co., Livermore	. . .	<u>13.40</u>	9.08	29.8	31.2
0-12-12 (Muriate) with 200# tobacco stems					
5862 St. Matthews Produce Exchange, St. Matthews	. . .	11.90	13.49	32.4	33.8
6187 Saufley & Bell, Stanford	. . .	12.83	12.73	32.4	34.1
6378 Jack Shirley Hdw. Co., Edmonton	. . .	12.50	<u>11.45</u>	32.4	32.5
20 % Superphosphate					
6379 Caulke Hardware Co., Campbellsville	. . .	20.08	. . .	26.0	26.1
6442 Rough River Hatchery, Hartford	. . .	19.90	. . .	26.0	25.9
6500 H. L. Sparks & Co., N. Pleasureville	. . .	20.15	. . .	26.0	26.2
6623 Caulke Hdw. Co., Campbellsville	. . .	20.80	. . .	26.0	27.0
6624 Young Seed House, Campbellsville	. . .	20.38	. . .	26.0	26.5

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
PRICE CHEMICAL CO, (Cont'd.)					
60 % Muriate of Potash					
6138 Monarch Milling Co., Mt. Sterling	...	...	60.68	54.0	54.6
6501 Ky. Training Home, Frankfort	...	...	61.02	54.0	54.9
6502 Walters & Thompson, Shelbyville	...	...	61.52	54.0	55.4
50 % Muriate of Potash					
5864 Kentucky Training Home, Frankfort	...	...	52.36	45.0	47.1
6061 Kentucky House of Reform, Greendale	...	...	51.84	45.0	46.7
48 % Sulfate of Potash					
6062 Stockton Brothers, Albany	...	...	50.16	52.8	55.2
6503 Woodford Feed Co., Versailles	...	...	52.12	52.8	57.3
6581 Houchens Grocery, Glasgow	...	...	49.88 <sup>t</sup>	52.8	54.9
O. M. SCOTT & SONS COMPANY, Marysville, Ohio					
9-7-4 (Muriate)					
5867 Ashland Hatchery, Ashland	9.96	8.43	6.09	38.4	44.1
6053 Guenther Hdw. Co., Owensboro	9.00	7.85	4.51	38.4	39.9
SEARS, ROEBUCK & CO., Chicago, Ill.					
4-12-4 (Muriate) Cross County Brand					
5866 Manufacturer's warehouse, Lexington	<u>3.72</u>	12.90	4.27	34.4	35.2
SOUTHERN AGRICULTURAL CHEMICAL CORPORATION, East Point, Ga.					
20 % Superphosphate SAC Brand					
5869 Southern States Co-op., Owensboro	...	20.45	...	26.0	26.6
5870 Southern States Co-op., Bowling Green	...	20.95	...	26.0	27.2
5871 Farm & Home Supply, Irvine	...	20.68	...	26.0	26.9
5872 Southern States Co-op., Frankfort	...	20.80	...	26.0	27.0
6066 Southern States Co-op., Flemingsburg	...	21.20	...	26.0	27.6
6067 Farm & Home Store, Prestonsburg	...	21.33	...	26.0	27.7
SPENCER CHEMICAL COMPANY, Pittsburg, Kansas					
33.50 % Ammonium Nitrate					
6260 Central Grocery Co., Morehead	33.52	...	...	67.0	67.0
6343 Bale Hdw. & Impl. Co., Horse Cave	33.52	...	...	67.0	67.0
SWIFT AND COMPANY PLANT FOOD DIVISION, National Stock Yards, Ill.					
8-24-8 (Muriate) Red Steer Brand					
5873 George Patmor and Son, Marion	8.24	<u>21.40</u>	<u>4.56</u>	60.8	<u>54.7</u>
8-8-8 (Muriate) Red Steer Brand					
6224 Morganfield Hdw. Co., Morganfield	<u>6.86</u>	9.25	7.82	41.6	40.6

t. Excess muriate equivalent to 1.16 percent potash

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
SWIFT AND COMPANY PLANT FOOD DIVISION (Cont'd.)					
8-8-8 (Muriate) "Vigoro Brand"					
5874 Farmers Co-op Store, Owensboro	7.01	8.98	7.73	41.6	40.5
5875 Farmers Co-op Store, Owensboro	<u>7.53</u>	8.38	<u>7.70</u>	41.6	40.8
6-10-4 (Muriate) "Vigoro Brand"					
5876 Sunshine Stores, Paducah	5.97	10.63	4.04	36.0	36.7
5877 Hall Seed Co., Louisville	<u>5.46</u>	10.80	4.47	36.0	36.4
6068 Farmers Feed Store, Sturgis	<u>5.88</u>	10.63	3.86	36.0	36.4
6507 Bunton Seed Co., Louisville	5.87	10.33	4.38	36.0	36.5
6-8-6 (Muriate) Red Steer Brand					
5878 Yopp Seed Co., Paducah	5.89	8.53	<u>5.65</u>	35.6	35.7
5879 Farmers Feed & Supply Co., Arlington	<u>5.60</u>	8.90	<u>5.90</u>	35.6	35.8
6-8-6 (Sulfate) "Blenn Brand"					
5880 Kratzer Supply Co., Mt. Sterling	6.18	7.93	6.57	35.6	36.5
5881 Cooper Seed & Feed Co., Bandana	5.91	8.50	6.17 <sup>u</sup>	35.6	36.2
5882 Yopp Seed Co., Paducah	5.95	8.25	5.90 <sup>v</sup>	35.6	35.7
4-12-8 (Muriate) "Brimm Brand"					
5883 Kratzer Supply Co., Mt. Sterling	4.01	12.30	8.59	38.4	39.4
4-12-8 (Muriate) Red Steer Brand					
6303 Calloway Co., Soil Imp. Asso., Murray	3.86	12.05	8.15	38.4	38.3
4-12-8 (Sulfate) "Vigoro Brand"					
5884 Yopp Seed Co., Paducah	3.81	11.98	8.38	38.4	38.4
5885 W. B. Davis & Sons, Kevil	3.89	12.18	7.99	38.4	38.4
5886 Kratzer Supply Co., Mt. Sterling	4.36	12.00	8.05	38.4	39.2
6508 J. W. Settle Feed Store, Frankfort	3.92	12.93	8.05	38.4	39.4
4-12-4 (Muriate) Red Steer Brand					
5887 Burna Feed Co., Burna	3.98	12.40	4.00	34.4	34.8
6225 Morganfield Hdw. Co., Morganfield	<u>3.62</u>	12.45	4.30	34.4	34.5
3-12-12 (Muriate) Red Steer Brand					
5888 Yopp Seed Co., Paducah	2.85	11.73	12.32	40.4	40.1
5889 Cooper Seed & Feed Co., Bandana	2.97	<u>11.93</u>	12.80	40.4	41.1
6070 Cooper Seed & Feed Co., Bandana	2.79	12.00	12.17	40.4	40.2
6226 Morganfield Hdw. Co., Morganfield	2.83	12.58	11.85	40.4	40.6
6304 Calloway Co. Soil Imp. Asso., Murray	2.93	12.25	11.99	40.4	40.6
6383 Cooper Seed & Feed Co., Bandana	2.78	12.45	11.81	40.4	40.3
3-9-18 (Muriate) Red Steer Brand					
6069 Burna Feed Co., Burna	3.47	10.70	15.55	42.8	43.3
6305 Calloway County Soil Imp. Asso., Murray	2.88	9.23	<u>17.84</u>	42.8	42.7

u. Excess muriate equivalent to 0.34 percent potash

v. " " " " 1.13 " "

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
SWIFT AND COMPANY PLANT FOOD DIVISION (Cont'd.)					
2-12-6 (Muriate) Red Steer Brand					
6227 Morganfield Hdw. Co., Morganfield	2.36	11.83	5.64	32.4	32.6
6344 Cayce-Yost Co., Hopkinsville	2.03	12.23	6.00	32.4	32.7
6549 Morganfield Hdw. Co., Morganfield	2.11	13.05	6.52	32.4	34.4
20 % Superphosphate, Red Steer Brand					
6550 Morganfield Hdw. Co., Morganfield	...	20.23	...	26.0	26.3
6384 Cooper Seed & Feed Co., Bandana	...	20.33	...	26.0	26.4
50 % Muriate of Potash					
6139 Jewell & Hayden, Bardstown	...	...	48.72	45.0	43.8
TENNESSEE CORPORATION					
Lockland, Ohio, New Albany, Ind.					
6-8-6 (Sulfate) "Superior Quality Brand"					
5890 Cooper Bros. Feed Store, Elizabethtown	5.80	8.73	6.24	35.6	36.3
6071 Hughes Hamilton, Lexington	5.91	8.70	6.54	35.6	36.8
5891 Atkins Bros., Sandy Hook	5.87	8.60	6.11	35.6	36.2
5892 Farmers Supply Center, Leitchfield	5.61	8.78	6.54 <sup>w</sup>	35.6	36.3
5-10-10 (Sulfate) "Superior Quality Brand"					
6072 Denton Mercantile Co., Hillsboro	4.81	10.43	9.60	40.0	39.7
4-12-8 (Muriate) "Superior Quality Brand"					
5893 Lester Lynd, Ashland	4.28	11.80	8.15	38.4	38.9
6385 Ice Produce Co., Bardstown	4.02	12.25	8.08	38.4	38.8
4-12-8 (Sulfate) "Superior Quality Brand"					
5894 Davis Gillespie, Mayslick	3.99	12.18	8.29	38.4	38.9
5895 Farmers Supply Center, Leitchfield	3.99	12.75	8.29*	38.4	39.6
5896 Farmers Co-op Store, Owensboro	3.97	12.70	8.29 <sup>x</sup>	38.4	39.5
5897 Lester Lynd, Ashland	4.04	12.10	8.51	38.4	39.1
6073 Hoagland Hdw. Co., Sacramento	3.91	12.48	8.02	38.4	38.8
4-12-8 (Muriate 4, Sulfate 4) "Superior Quality Brand"					
5898 Union Grocery, Morehead	4.11	12.05	8.20	38.4	38.9
5899 W. H. Brock and Co., Winchester	4.06	12.05	8.18	38.4	38.8
3-12-12 (Muriate) "Superior Quality Brand"					
5900 St. Matthews Produce Exchange, St. Matthews	2.98	12.00	11.92	40.4	40.3
6074 Denton Mercantile Co., Hillsboro	3.12	11.98	11.92	40.4	40.5
3-9-6 (Muriate) "Superior Quality Brand"					
5901 Farm & Home Supply, Irvine	3.04	9.90	6.04	30.8	32.0
3-9-6 (Sulfate) "Superior Quality Brand"					
6075 Denton Mercantile Co., Hillsboro	2.92	9.88	5.93	30.8	31.6
6228 D. B. Saylor, Mt. Vernon	2.59	11.40	5.59 <sup>y</sup>	30.8	32.5

w. Excess muriate equivalent to 0.37 percent potash

\* " " " " 0.53 " "

x. " " " " 0.47 " "

y. " " " " 0.29 " "

## REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
<b>TENNESSEE CORPORATION (Cont'd.)</b>					
2-12-6 (Muriate)					
5902 Atkins Brothers, Sandy Hook	2.04	12.38	6.25	32.4	33.2
5903 Garrard Lumber Co., Lancaster	2.14	11.23	6.39	32.4	32.2
5904 W. R. Catron & Son, Campton	2.03	11.75	5.70	32.4	31.9
6076 Holman Lewis, Summerville	1.96	11.90	6.21	32.4	32.4
6077 Ice Produce Co., Bardstown	2.01	11.90	6.39	32.4	32.7
6078 Elliott's Store, Middleburg	2.07	11.85	6.04	32.4	32.4
6229 D. B. Saylor, Mt. Vernon	1.90	12.43	5.99	32.4	32.7
6230 Paul Boyd Store, Eubank	2.01	12.23	6.11	32.4	32.8
6345 Cayce-Yost Co., Hopkinsville	2.01	12.25	6.29	32.4	33.0
6551 C. M. Warner, Nancy	2.09	12.03	6.10	32.4	32.7
6625 Cooper Bros. Feed Store, Elizabethtown	2.06	12.05	6.24	32.4	32.8
0-20-20 (Muriate) "Superior Quality Brand"					
6231 Paul Boyd Store, Eubank	...	19.13	19.40	50.0	48.4
0-20-10 (Muriate) "Superior Quality Brand"					
6188 Farmers Co-op. Store, Owensboro	...	19.80	9.96	40.0	39.7
6386 Ice Produce Co., Bardstown	...	19.93	10.10	40.0	40.0
46 % Superphosphate, Florida					
5912 Cass and Cash, Brodhead	...	45.78	...	59.8	59.5
20 % Superphosphate "Superior Quality Brand"					
5905 Denton Mercantile Co., Hillsboro	...	19.63	...	26.0	25.5
5906 Herbert Harrison, Locust Branch	...	20.43	...	26.0	26.6
5907 D. B. Saylor, Mt. Vernon	...	19.90	...	26.0	25.9
5908 Davis Gillespie, Mayslick	...	20.03	...	26.0	26.0
6079 J. W. Edwards and Son, Woodburn	...	20.98	...	26.0	27.3
6080 H. T. Roberts, Frenchburg	...	20.50	...	26.0	26.7
6081 I. K. Miller & Son, Campbellsville	...	21.05	...	26.0	27.4
6387 Campbellsville Milling Co., Campbellsville	...	20.25	...	26.0	26.3
6509 Farmers Supply Co., Monticello	...	20.05	...	26.0	26.1
16 % Nitrate of Soda					
5909 Union Grocery, Morehead	16.22	...	...	48.0	48.7
50 % Sulfate of Potash					
6232 D. B. Saylor, Mt. Vernon	...	...	48.24	55.0	53.1
<b>U. S. PHOSPHORIC PRODUCTS CO., Division Tennessee Corporation, Lockland, Ohio</b>					
46 % Superphosphate, Florida					
6085 H. T. Roberts, Frenchburg	...	45.38	...	59.8	60.3
<b>VALLEY COUNTIES OF KENTUCKY COOPERATIVE, Murray, Ky.</b>					
6-8-6 (Sulfate)					
5913 Ballard County Co-op., LaCenter	6.11	8.38	6.53	35.6	36.8

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
VALLEY COUNTIES OF KENTUCKY COOPERATIVE, (Cont'd.)					
4-12-8 (Muriate) 6086 Graves County Soil Association, Mayfield	3.83	11.90	<u>7.60</u>	38.4	37.5
4-12-4 (Muriate) 6087 Southern States Co-op, Clinton	4.38	<u>11.73</u>	4.35	34.4	35.2
62 % Calcium Metaphosphate					
6088 Marshall Co. Soil Imp. Assoc., Benton	...	<u>61.00</u>	...	80.6	<u>79.3</u>
6261 Robinson Imp. Co., Princeton	...	<u>61.40</u>	...	80.6	<u>79.8</u>
6307 Calloway Co. Soil Imp. Assoc., Murray	...	<u>62.60</u>	...	80.6	81.4
6601 Marshall Co. Soil Imp. Assoc., Benton	...	62.00	...	80.6	80.6
50 % Superphosphate					
6308 Calloway Co. Soil Imp. Assoc., Murray	...	<u>49.25</u>	...	65.0	64.0
6602 Marshall Co. Soil Imp. Assoc., Benton	...	<u>50.13</u>	...	65.0	65.2
6603 Southern States Co-op., Hopkinsville	...	<u>49.55</u>	...	65.0	64.4
49 % Superphosphate					
6089 Southern States Co-op., Paducah	...	<u>47.30</u>	...	63.7	<u>61.5</u>
6090 Calloway Co. Soil Imp. Assoc., Murray	...	<u>49.68</u>	...	63.7	<u>64.6</u>
VIRGINIA-CAROLINA CHEMICAL CORPORATION, Cincinnati, Ohio					
6-8-12 (Muriate 3, Sulfate 9)					
5914 Jett Coal & Supply Co., Jett	6.00	8.98	11.90 <sup>z</sup>	41.6	42.7
5915 Shelby Feed & Seed Co., Shelbyville	5.85	9.00	12.59 <sup>a</sup>	41.6	43.1
6-8-6 (Muriate)					
5916 Cottingham Grain Co., Henderson	5.77	8.20	6.11	35.6	35.5
6346 Hopkinsville Implement Co., Hopkinsville	<u>5.60</u>	7.75	6.78	35.6	35.3
6-8-6 (Sulfate)					
6091 Farmers Supply Co., Cadiz	5.83	8.90	6.21	35.6	36.6
6092 W. H. Johnson, Farmers	6.04	8.85	5.88	35.6	36.6
4-12-8 (Muriate)					
5917 Hopkinsville Implement Co., Hopkinsville	3.98	11.88	8.02	38.4	38.2
6093 Paul Thompson, Sharpsburg	3.82	13.00	7.92	38.4	39.2
6553 Fiechter Hdw. Co., London	4.08	12.05	8.30	38.4	38.9
4-12-8 (Sulfate)					
5918 Sam Nahm and Co., Bowling Green	3.87	12.55	8.49 <sup>b</sup>	38.4	39.3
5919 Vance Evans, Mt. Sterling	3.94	13.00	8.18 <sup>c</sup>	38.4	39.7
6094 H. M. Smith, Font Hill	<u>3.69</u>	13.15	7.53 <sup>d</sup>	38.4	38.7
6095 Leland Hall, Morehead	<u>4.07</u>	11.98	<u>8.02</u>	38.4	38.5

z. Excess muriate equivalent to 0.45 percent potash

a.	"	"	"	0.34	"	"
b.	"	"	"	0.76	"	"
c.	"	"	"	0.42	"	"
d.	"	"	"	0.55	"	"

REGULATORY BULLETIN NO. 87

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
VIRGINIA-CAROLINA CHEMICAL CORPORATION (Cont'd.)					
4-12-4 (Muriate)					
5656 Lexington Seed Co., Lexington	3.61	11.90	4.84	34.4	34.3
5920 Bell County Supply Co., Middlesboro	4.11	12.18	4.15	34.4	35.0
5921 Madison Farmers Supply Co., Richmond	3.49	13.63	3.86	34.4	35.2
6096 Young Lumber Co., Beaver Dam	4.00	12.30	3.77	34.4	34.5
6189 Bell County Supply Co., Middlesboro	3.92	12.60	4.22	34.4	35.2
3-12-12 (Muriate)					
5922 Madison Farmers Supply Co., Richmond	3.29	12.00	12.94	40.4	41.9
6157 Miss Agnes Davis, Russellville	2.96	12.33	12.51	40.4	41.2
6554 Farmers Supply Co., Morganfield	2.96	13.03	11.80	40.4	41.4
3-12-12 (Muriate 3, Sulfate 9)					
5923 Shelby Feed & Seed Co., Shelbyville	3.08	12.55	11.11 <sup>e</sup>	40.4	40.3
3-12-6 (Muriate)					
6097 Kelley Grocery, Burdine	2.98	11.95	6.16	34.4	34.5
3-9-6 (Muriate)					
5924 Bell County Supply Co., Middlesboro	3.13	9.30	6.04	30.8	31.5
6190 Bell County Supply Co., Middlesboro	2.79	9.68	5.57	30.8	30.8
2-12-6 (Muriate)					
5657 J. W. Purkey & Sons, Berea	2.18	13.25	6.08	32.4	34.3
5925 Hopkinsville Implement Co., Hopkinsville	2.24	11.70	6.33	32.4	32.9
5926 Shelby Feed & Seed Co., Shelbyville	2.15	12.85	5.82	32.4	33.5
6140 Hardin County Mills, Elizabethtown	1.92	12.75	5.88	32.4	33.0
6141 Gorman Brown Hdw. Co., Flemingsburg	2.06	12.85	5.72	32.4	33.3
6098 Interstate Grocery, Jellico	2.10	12.35	6.38	32.4	33.4
6099 George Keeton, Winchester	2.35	13.08	5.85	32.4	34.3
6388 Stagg Brothers, Vanceburg	2.13	13.08	5.57	32.4	33.5
6389 U. L. Rogers, Columbia	2.07	13.35	5.95	32.4	34.1
6510 Shelby Feed & Seed Co., Shelbyville	1.93	12.95	6.05	32.4	33.5
6555 Fiechter Hardware Co., London	2.09	13.15	6.21	32.4	34.2
6556 Robinson Implement Co., Princeton	1.94	13.28	6.36	32.4	34.1
6582 J. B. Curtis, Smiths Grove	1.94	13.08	5.93	32.4	33.5
6604 Farmers Supply Co., Upton	2.12	12.85	6.27	32.4	33.9
0-20-20 (Muriate)					
6511 Casey County Hatchery, Liberty	. . .	19.55	20.76	50.0	50.2
0-14-7 (Muriate)					
6158 Miss Agnes Davis, Russellville	. . .	15.03	5.93	29.8	30.0
6444 Miss Agnes Davis, Russellville	. . .	14.58	6.93	29.8	30.4
0-12-12 (Muriate)					
6142 Hardin County Mills, Elizabethtown	. . .	12.18	12.44	32.4	33.1
6309 Sam Nahm and Co., Bowling Green	. . .	13.03	10.87	32.4	32.5

e. Excess muriate equivalent to 0.34 percent potash



COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
VIRGINIA-CAROLINA CHEMICAL CORPORATION (Cont'd.)					
20 % Superphosphate					
5658 Lexington Seed So., Lexington	. . .	20.08	. . .	26.0	26.1
5659 Stanford Implement Co., Stanford	. . .	20.20	. . .	26.0	26.3
5927 St. Matthews Produce Exchange, St. Matthews	. . .	20.38	. . .	26.0	26.5
5928 Hardin County Milling Co., Elizabethtown	. . .	20.10	. . .	26.0	26.1
5929 Stewart and Co., Munfordville	. . .	20.23	. . .	26.0	26.3
5930 Elliott & Witt, Irvine	. . .	20.53	. . .	26.0	26.7
5931 Grayson Milling Co., Grayson	. . .	20.40	. . .	26.0	26.5
6143 Gorman Brown Hdw. Co., Flemingsburg	. . .	20.75	. . .	26.0	27.1
6144 Hardin County Mills, Elizabethtown	. . .	20.10	. . .	26.0	26.1
6100 Elliott & Witt, Irvine	. . .	20.90	. . .	26.0	27.2
6101 George Keeton, Winchester	. . .	19.95	. . .	26.0	25.9
6191 Bell County Supply Co., Middlesboro	. . .	20.83	. . .	26.0	27.1
6192 Knox County Supply Co., Barbourville	. . .	20.00	. . .	26.0	26.0
6310 Pike County Hatchery, Pikeville	. . .	20.63	. . .	26.0	26.8
6390 U. L. Rogers, Columbia	. . .	20.58	. . .	26.0	26.8
6391 Stagg Brothers, Vanceburg	. . .	20.28	. . .	26.0	26.4
6445 Miss Agnes Davis, Russellville	. . .	20.23	. . .	26.0	26.3
6512 Shelby Feed & Seed Co., Shelbyville	. . .	20.35	. . .	26.0	26.5
6513 Casey County Hatchery, Liberty	. . .	20.00	. . .	26.0	26.0
6557 Robinson Implement Co., Princeton	. . .	19.95	. . .	26.0	25.9
18 % Superphosphate					
5932 Madison Farmers Supply Co., Richmond	. . .	19.18	. . .	23.4	24.9
6102 H. T. Roberts, Frenchburg	. . .	18.15	. . .	23.4	23.6
6103 U. L. Rogers, Columbia	. . .	19.05	. . .	23.4	24.8
6104 Miss Agnes Davis, Russellville	. . .	19.60	. . .	23.4	25.5
6105 W. L. Rice & Son, Rice Station	. . .	19.58	. . .	23.4	25.5
16 % Nitrate of Soda					
5933 Bell County Supply Co., Middlesboro	16.00	. . .	. . .	48.0	48.0

REGULATORY BULLETIN NO. 87

TABLE 4 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, etc.  
July-December 1950

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Phosphoric Acid				Index of rela- tive value	
	Available		Total		Guar.	Found
	Guar.	Found	Guar.	Found		
<b>THE AMERICAN AGRICULTURAL CHEMICAL CO., Cincinnati, Ohio</b>						
Ground Phosphate Rock						
5667 Farmers Cooperative, Madisonville	3.00	3.10	30.00	31.10	15.0	15.6
6262 Dairyman's Feed & Supply, Mayfield	3.00	3.40	30.00	31.00	15.0	15.5
<b>AMERICAN CYANAMID CO., New York 20, N. Y.</b>						
Natural Phosphate - Florida "Aero-Phos Brand"						
5668 Owsley Farm Service, Booneville	3.00	3.20	33.00	33.70	16.5	16.9
6234 James Moore, Louisa	3.00	3.25	33.00	33.25	16.5	16.6
5669 Southern States Co-op., Somerset	3.00	3.35	33.00	33.90	16.5	17.0
6349 Farley Feed & Supply Co., Catlettsburg	3.00	3.25	33.00	33.70	16.5	16.9
<b>RUHM PHOSPHATE &amp; CHEMICAL COMPANY, Mt. Pleasant, Tennessee</b>						
Phosphate Rock, Red Seal Brand						
5865 Robert Mahaffey, Greenhall	...	...	30.00	30.35	15.0	15.2
6063 Calloway County Soil Imp. Asso., Murray	...	...	30.00	30.05	15.0	15.0
6064 C. M. Probus, Lebanon	...	...	30.00	30.20	15.0	15.1
6065 Morgan R. Yewell, Bardstown	...	...	30.00	31.00	15.0	15.5
6302 Calloway County Soil Imp. Asso., Murray	...	...	30.00	29.70	15.0	14.9
6504 W. D. Cunningham, Webbs Cross Roads	...	...	30.00	20.95	15.0	15.0
<b>ROBIN JONES PHOSPHATE CO., Nashville, Tennessee</b>						
Rock Phosphate, Arrow Brand						
6118 Henderson Feed & Com. Co., Henderson	2.00	2.75	30.00	30.05	15.0	15.0
<b>SCHROCK FERTILIZER SERVICE, Congerville, Ill.</b>						
Ground Phosphate Rock						
6119 Crafton Brothers Feed Store, Henderson	...	...	34.00	33.9	17.0	17.0
6505 Crafton Brothers Feed Store, Henderson	...	...	34.00	34.5	17.0	17.3
6506 " " " " "	...	...	34.0	34.8	17.0	17.4
Phosphate Rock						
6382 Southern States Co-op., Paducah	...	...	31.00	33.05	15.5	16.5

COMMERCIAL FERTILIZERS IN KENTUCKY, 1950

TABLE 4 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, etc.  
(Continued)

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Phosphoric Acid				Index of relative value	
	Available		Total		Guar.	Found
	Guar.	Found	Guar.	Found		
TENNESSEE COAL, IRON & RAILROAD CO., Birmingham, Ala.						
Low Grade Open Hearth Basic Slag						
6443 J. B. Lucas Feed & Seed Co., Franklin	. . .	. . .	8.00	10.80	8.0	10.8
THOMPSON SALES COMPANY, Montgomery, Ala.						
Soft Phosphate with Colloidal Clay "Calphos Brand"						
6084 Curtis E. George, Princeton	. . .	. . .	20.00	<u>18.40</u>	10.0	<u>9.2</u>
THOMSON PHOSPHATE COMPANY, Chicago 5, Ill.						
Powdered Rock Phosphate "Florida Four Leaf Brand"						
5910 Fred M. Fortune, Mt. Sterling	2.00	2.85	31.00	31.35	15.5	15.7
6082 H. T. Roberts, Frenchburg	2.00	3.60	31.00	31.50	15.5	15.8
6083 R. T. Little, Pomeroyton	2.00	4.35	31.00	31.50	15.5	15.8
6223 R. D. Adams, London	2.00	2.60	31.00	30.00	15.5	15.0
6306 Joe Nickell, Daysboro	2.00	3.35	31.00	<u>31.50</u>	15.5	15.8
Powdered Rock Phosphate "Four Leaf Brand"						
5911 Armond Berry, LaCenter	2.00	3.00	30.00	29.95	15.0	15.0
6222 H. F. Bryant & Son, Sebree	2.00	2.80	30.00	30.30	15.0	15.2
6552 Arnold Bryant, Berea	2.00	2.95	30.00	30.35	15.0	15.2

TABLE 5 - Analysis of Inspection Samples of Bones, Dried Manures, etc.  
July-December 1950

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ARMOUR FERTILIZER WORKS, Cincinnati, O., Nashville, Tenn., Jeffersonville, Ind.					
1.50-1-2.50 Sheep Manure					
5710 13th. Street Market, Ashland, Ky.	1.60	1.90	<u>2.30</u>	12.5	13.8
SEWERAGE COMMISSION, CITY OF MILWAUKEE Milwaukee, Wis.					
6-2.75-0 "Milorganite"					
5868 R. L. Stearns, Stearns	6.06	3.30	. . .	38.8	39.7