

Commercial Fertilizers in Kentucky, 1949

Including a Report on Official Fertilizer Samples
Analyzed

July — December, 1949



Kentucky Agricultural Experiment Station
University of Kentucky
Lexington

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COMMERCIAL FERTILIZERS IN KENTUCKY, 1949

This bulletin contains analyses of official samples of commercial fertilizers made between July 1 and December 31, 1949. Analyses of samples made between January 1, 1949 and June 30, 1949 were published in Regulatory Bulletin 76.

Manufacturers reported that 479,598 tons of commercial fertilizer were sold in Kentucky in 1949. This was an increase of about 4 percent over the tonnage reported for 1948. In addition, 36,293 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, 1949

A summary of fertilizer sales by grade, as reported by manufacturers, is given in Table 1. The total tonnage reported in this table is about 20,000 tons less than that estimated from tag sales.

Table 1. - Fertilizer Sold in Kentucky, by Grade, Jan. 1 to December 31, 1949
(As reported by the Manufacturers)

Grade	Tons	Grade	Tons
2-12-6 -----	97,390	Superphosphate 20% -----	81,940
6-8-6 -----	63,630	Rock Phosphate -----	22,831
3-9-6 -----	62,485	Triple Superphosphate -----	14,069
4-12-8 -----	43,822	Ammonium Nitrate -----	13,282
4-12-4 -----	19,718	Superphosphate 18% -----	7,298
0-14-7 -----	6,900	Waste Pond Phosphate -----	5,488
5-10-5 -----	6,534	Sulfate of Potash Magnesia -----	3,325
0-12-12 -----	5,375	Nitrate of Soda -----	3,233
4-10-6 -----	4,695	Cyanamid -----	2,438
3-12-12 -----	3,452	Sulfate of Potash -----	1,148
5-10-10 -----	2,692	Basic Slag -----	770
3-12-6 -----	1,753	Muriate of Potash -----	631
3-18-9 -----	956	Sulfate of Ammonia -----	372
3-12-4 -----	401	Dried Manures -----	238
6-12-12 -----	352	Uramon -----	148
2-12-12 -----	272	Miscel. -----	486
4-12-0 -----	192		
4-8-8 -----	170		
4-16-0 -----	140		
4-16-8 -----	102		
4-8-10 -----	100		
Miscel. -----	721		
	321,852		157,697

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.

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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.

LOW-GRADE VERSUS HIGH-GRADE FERTILIZERS

A high-grade or high-analysis mixed fertilizer is defined by this Department as one in which the sum of the percentages of nitrogen, available phosphoric acid, and potash is at least 20 percent. Plant foods in such fertilizers usually cost less per unit than in low-analysis fertilizer, because costs for mixing, bags, freight, and other incidental costs are the same per bag regardless of the analysis. The amount of plant food in 1,500 pounds of 4-12-8, for example, is the same as in 2,000 pounds of 3-9-6 fertilizer. In using the 4-12-8, however, instead of the 3-9-6, a farmer saves cost of handling, hauling, and spreading 500 pounds of practically inactive material. Lighter applications per acre of the high-analysis fertilizers will supply the same amount of plant food as heavier applications of the low-analysis fertilizers.

Two grades, 2-12-6 and 3-9-6, constituted about 50 percent of the mixed fertilizer sold in Kentucky during 1948. Although 2-12-6 is 20 percent plant food, it is doubtful whether 2 percent nitrogen is enough to be of much benefit in many cases where 2-12-6 is used.

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 in nitrogen, available phosphoric acid, or potash, or if the total value is found 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.

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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.

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 and 4.

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.

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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.

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 Table 2 - Samples Equal To Guaranty In All Respects, And
 Analyses Within Tolerance, By Manufacturers, 1949

Company	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*
J. C. Adderley and Asso.	3	2	-	3	2	-
American Agri. Chem. Co.	96	63	66	234	223	95
American Cyanamid Co.	20	19	95	25	25	100
Armour Fertilizer Works	244	130	53	601	526	88
Louisville Fertilizer Co.	9	3	33	26	25	96
Morris Fertilizer Co.	2	1	-	2	1	-
Tennessee Chem. Co.	17	5	29	47	37	79
Associated Cooperatives	38	32	84	38	33	87
Barrett Div., Allied Dye & Chem. Corp.	8	8	100	8	8	100
Blue Grass Plant Food Co.	31	17	55	83	79	95
Buhner Fertilizer Co.	38	11	29	99	73	74
Bycolife Fertilizer Mfg. Co.	1	1	-	3	3	-
Chilean Nitrate Sales Corp.	4	4	-	4	4	-
Cooperative Fertilizer Ser.	106	83	78	252	237	94
Cumberland Chemical Co.	42	22	52	96	90	94
Davison Chem. Corp.:						
Hopkins Fer. Div.	43	28	65	121	112	93
Read Phosphate Div.	90	64	71	222	208	94
E. I. duPont deNemours & Co.	2	2	-	2	2	-
Ellis Chemical Co.	63	20	32	150	109	73
Empire St. Chem. Co.	1	1	-	1	1	-
Federal Chemical Co.	179	82	46	501	429	86
Ford Motor Company	4	4	-	4	4	-
Hercules Powder Co.	1	1	-	1	1	-
Hutson Chemical Co.	5	3	60	15	11	73
International Min. & Chem. Corporation	122	72	59	292	258	88
Interstate Fertilizer Co.	26	20	77	72	71	99
Kentucky Fertilizer Works	57	28	49	146	125	86
Knoxville Fertilizer Co.	141	74	52	340	304	89
Midwestern Phosphate Corp.	3	3	-	3	3	-
Midwest Phosphate Co.	1	1	-	1	1	-
Milwaukee Sewerage Com.	1	1	-	2	2	-
Norsk-Hydro	1	0	-	1	0	-
North American Fer. Co.	129	84	65	343	307	90
Pike Co. Hatchery	1	1	-	3	3	-
Price Chem. Co.	61	41	67	158	142	90
Consolidated Chem. Co.	8	6	75	20	19	95
A. F. Pringle Co.	1	1	-	3	3	-
Pulverized Manure Co.	1	1	-	3	3	-
Ralston Purina Co.	8	5	63	24	23	96
Robin Jones Phosphate Co.	4	4	-	8	8	-
Ruhm Phosphate & Chem. Co.	13	12	92	13	13	100
Schrock Fertilizer Ser.	5	4	80	5	4	80
O. M. Scott and Sons	4	1	-	12	12	-
Sears Roebuck & Co.	3	0	-	9	8	-
Smith Agri. Chem. Co.	1	0	-	3	3	-
Carter C. Sparks	1	1	-	1	1	-
Spencer Chemical Co.	6	5	83	6	6	100
Swift & Co. Plant Food Div.	93	54	58	266	244	92
Tenn. Coal, Iron & R.R. Co.	2	2	-	2	2	-
Tennessee Corporation	91	49	54	201	172	86
Thomson Phos. Co.	20	15	75	40	37	93
U. S. Phos. Prod. Co.	1	0	-	1	0	-
Valley Co. of Ky. Co-op.	7	3	43	7	4	57
Va. -Carolina Chem. Co.	104	57	55	245	213	87
Totals	1963	1151	58.6	4768	4234	88.8

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

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

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Table 3 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphates, and Fertilizer Salts, July - December 1949.

Analyses deficient 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	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
THE AMERICAN CYANAMID CO., New York 20, N. Y.					
20.60% "Aero" Cyanamid Granular					
3572 Southern States Cooperative, Henderson	20.88	.....	.....	49.4	50.1
3573 Fox Hardware Store, Madisonville	21.00	.....	.....	49.4	50.4
3879 Shipp & Allen, Campbellsville	20.56	.....	.....	49.4	49.3
3880 Woodson Lewis, Greensburg	20.44	.....	.....	49.4	49.1
4098 Allen County Farmers Service, Scottsville	21.20	.....	.....	49.4	50.9
4145 Smith & Reynolds Co., Slaughters	20.72	.....	.....	49.4	49.7
4184 Jerome Glass, Grayson	20.88	.....	.....	49.4	50.1
4264 E. M. Bryant, Tollesboro	20.52	.....	.....	49.4	49.3
4265 Southern States Cooperative, Danville	20.72	.....	.....	49.4	49.7
4358 Womack Brothers, Grayson	20.76	.....	.....	49.4	49.8
33.50% "Aeroprills" Ammonium Nitrate Fertilizer					
3875 Davis Gillespie, Mayslick	33.48	.....	.....	67.0	67.0
3876 Ravenna Grocery, Ravenna	33.64	.....	.....	67.0	67.3
3877 Garfield Merchandise Co., Garfield	33.80	.....	.....	67.0	67.6
4572 Sphar and Co., Winchester	33.56	.....	.....	67.0	67.1
THE AMERICAN AGRICULTURAL CHEMICAL CO. Cincinnati, Ohio					
6-10-4 (Muriate)					
4182 J. H. Fedders & Son, Covington	<u>5.08</u>	10.80	4.76	36.0	35.9
6-8-6 (Sulfate)					
3866 Lebanon Carriage & Implement Co., Lebanon	5.95	8.38	6.36	35.6	36.3
6-8-6 (Muriate 3, Sulfate 3)					
3552 Monarch Milling Co., Mt. Sterling	5.76	8.10	6.05	35.6	35.3
3867 J. H. McClure, Springfield	<u>5.59</u>	8.55	5.77 ^a	35.6	35.2
3868 Frank Rose, Campton	<u>5.67</u>	8.45	<u>5.66</u> ^b	35.6	35.1
4-12-8 (Muriate 4, Sulfate 4)					
3553 Ross Feed Company, Murray	4.07	12.30	7.99	38.4	38.9
3554 Carroll County Farm Bureau, Carrollton	3.89	12.22	8.08	38.4	38.5
3555 Scott McClain, Taylorsville	3.87	12.60	8.09	38.4	39.0
3556 Coffey Store, Yosemite	3.78	12.50	7.74	38.4	38.3
3869 Bedford & Tuttle, Winchester	4.09	11.88	8.71	38.4	40.2
4-12-4 (Muriate)					
4349 C. C. Hardware, Seed & Feed Co., Hartford	3.99	12.35	3.96	34.4	34.7
3-9-6 (Muriate)					
3557 Kentucky Wholesale Co., Pikeville	2.95	9.70	5.96	30.8	31.5
3870 Watson Coal & Feed Co., Princeton	2.96	10.08	6.05	30.8	32.1

a Excess muriate equivalent to 3.81 percent potash

b Excess muriate equivalent to 0.62 percent potash

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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 American Agricultural Chemical Co., Continued					
3-9-6 (Muriate 3, Sulfate 3)					
3558 J. W. Davidson, Science Hill	2.99	10.00	6.04	30.8	32.0
3559 Scott McClain, Taylorsville	2.96	9.32	6.00 ^c	30.8	31.1
3560 Norris Hardware & Seed Co., Henderson	3.03	9.02	5.98	30.8	30.9
3871 Harrison Brothers Farm Supply, Berea	2.59	9.70	5.82	30.8	30.6
2-14-8 (Muriate)					
4192 Henderson and Hardy, Shepherdsville	1.94	13.95	8.21	36.8	36.8
2-12-6 (Muriate)					
3561 Norris Hardware & Seed Co., Henderson	2.00	12.20	6.02	32.4	32.7
3562 R. E. Young, Providence	2.10	11.70	6.17	32.4	32.4
3563 Kidd Brothers, Barbourville	1.94	12.20	5.99	32.4	32.5
3564 Clinton Jones, Morehead	1.90	12.45	5.99	32.4	32.7
3565 Watson Coal & Feed Co., Princeton	2.06	11.95	5.98	32.4	32.4
3566 Morganfield Hardware Co., Morganfield	2.06	12.35	5.90	32.4	32.8
3872 Bedford & Tuttle, Winchester	1.96	12.10	6.19	32.4	32.6
4183 J. H. Fedders & Son, Covington	1.96	11.70	6.88	32.4	32.5
4193 Carroll County Farm Bureau, Carrollton	1.88	12.05	6.25	32.4	32.5
4350 C. C. Hardware, Seed & Feed Co., Hartford	2.18	12.55	6.05	32.4	33.5
4351 McDonald & Girdler, Eubank	1.93	12.03	6.21	32.4	32.5
4095 Norris Hdw. & Seed Co., Henderson	2.03	11.48	6.06	32.4	31.9
0-14-7 (Muriate)					
3873 Watson Coal & Feed Co., Princeton	....	14.15	7.40	29.8	30.4
0-12-12 (Muriate)					
4194 Walters & Thompson, Shelbyville	....	12.15	12.21	32.4	32.8
4195 Woodson Lewis, Greensburg	....	12.00	12.47	32.4	32.9
4352 Sam Litton, Jr., Morehead	....	11.98	12.18	32.4	32.6
4434 A. T. Hayes & Son, Glendale	....	12.00	12.08	32.4	32.5
18% Superphosphate					
3567 Watson Coal & Feed Co., Princeton	....	18.15	....	23.4	23.6
3568 Morganfield Hardware Co., Morganfield	....	18.55	....	23.4	24.1
3569 Johnson & Hodges, Halls Gap	....	17.33	....	23.4	22.5
3874 Frank Rose, Campton	....	18.90	....	23.4	24.6
4196 Carroll County Farm Bureau, Carrollton	....	18.53	....	23.4	24.1
4197 Henderson & Hardy, Shepherdsville	....	18.45	....	23.4	24.1
4198 Lebanon Carriage & Implement Co., Lebanon	....	19.65	....	23.4	25.6
4263 Farmers Supply Co., Danville	....	18.45	....	23.4	24.0
4353 Miller & Cook, Magnolia	....	19.15	....	23.4	24.9
4354 Triplett's Store, Corbin	....	18.60	....	23.4	24.2
4355 Sam Litton, Jr., Morehead	....	18.23	....	23.4	23.7
4097 Norris Hdw. & Seed Co., Henderson	....	17.95	....	23.4	23.3
50% Sulfate of Potash					
3570 Lebanon Carriage & Implement Co., Lebanon	49.64	55.0	54.6

^c Excess muriate equivalent to 0.43 percent potash

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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
ARMOUR FERTILIZER WORKS, Cincinnati, O., Jeffersonville, Ind., Nashville, Tenn.					
6-8-6 (Muriate) "Big Crop Brand"					
3574 R. A. Wilson & Company, Russellville	5.73	8.30	6.22	35.6	35.6
3575 Slaughters Mercantile Co., Slaughters	<u>5.94</u>	8.10	6.19	35.6	35.8
4138 Kuttawa Milling Co., Kuttawa	6.03	8.38	5.85	35.6	36.0
4266 Page & Goulder Implement Co., Barlow	5.80	9.10	5.83	35.6	36.4
4510 Cadiz Hardware Co., Cadiz	6.22	8.10	6.36	35.6	36.5
6-8-6 (Sulfate) Armour's					
3576 Frank Hinton, Plummers Landing	5.96	8.30	6.16	35.6	36.0
3577 G. M. Haycraft & Son, Leitchfield	5.64	8.30	5.88	35.6	35.1
3578 H. L. Sparks & Co., North Pleasureville	<u>6.07</u>	8.52	6.19	35.6	36.6
4000 Young Lumber Co., Beaver Dam	<u>5.74</u>	7.98	6.24 ^d	35.6	35.3
4267 N. S. Dudley & Son, Flemingsburg	<u>5.91</u>	9.20	6.08	35.6	36.9
4436 Willoughby Supply Co., Richmond	5.89	8.90	6.03	35.6	36.5
4537 Jim Pyles, Junction City	5.55	8.40	6.14	35.6	35.3
4567 Barren County Hardware Co., Glasgow	<u>5.52</u>	8.50	6.19	35.6	35.4
5-10-5 (Muriate) "Velvetgreen Brand"					
3579 Ben Williamson & Co., Ashland	<u>4.70</u>	10.40	5.07	35.0	35.0
3580 Paul Gardner Gen. Mdse. Store, Cerulean	<u>4.54</u>	11.10	4.76	35.0	35.2
4099 M. G. Pruitt Impl. Co., Bowling Green	<u>4.74</u>	10.65	5.05	35.0	35.3
4538 13th. Street Market, Ashland	5.02	11.05	5.65	35.0	37.0
3581 G. M. Haycraft & Son, Leitchfield	4.98	9.80	5.30	35.0	35.0
5-10-5 (Sulfate) Armour's "Velvetgreen Brand"					
3582 Farm Equipment Co., Bedford	4.93	10.15	5.07	35.0	35.1
4359 Sphar & Co., Winchester	4.82	10.65	4.99 ^e	35.0	35.4
5-10-5 (Muriate) "Vertagreen Brand"					
4268 N. S. Dudley & Son, Flemingsburg	5.26	10.08	5.61	35.0	36.2
4437 S. E. Hale & Son Hdw. Co., Greenville	<u>4.61</u>	10.48	5.46	35.0	35.3
4573 Forbes Hardware Co., Hopkinsville	<u>4.83</u>	10.58	5.31	35.0	35.7
4-12-8 (Sulfate) Armour's					
3584 Penn & Ratcliffe, Campbellsville	<u>3.63</u>	12.50	7.98	38.4	38.2
3585 L. C. Orndorff, Adairville	<u>3.82</u>	11.77	7.94	38.4	37.7
3586 London Hardware Co., London	3.65	12.93	7.66	38.4	38.5
3881 J. E. Whitt, Frenchburg	<u>3.92</u>	12.05	<u>7.76</u>	38.4	38.1
3882 Salyersville Wholesale Grocery, Salyersville	3.86	12.33	<u>7.64</u>	38.4	38.2
4270 N. S. Dudley & Son, Flemingsburg	3.77	13.50	<u>8.21^f</u>	38.4	40.0
4539 Jim Pyles, Junction City	3.90	12.20	7.77	38.4	38.2
4-12-8 (Muriate) "Big Crop Brand"					
3583 Butterworth Seed Co., Mayfield	4.00	<u>11.73</u>	7.84	38.4	37.9
4269 Yopp Seed Co., Paducah	3.95	<u>12.18</u>	8.20	38.4	38.7

^d Excess muriate equivalent to 0.26 percent potash

^e Excess muriate equivalent to 3.76 percent potash

^f Excess muriate equivalent to 1.65 percent potash

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 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
Armour Fertilizer Works, Continued					
4-12-4 (Muriate) "Big Crop Brand"					
3587 Cadiz Hardware Co., Cadiz	3.97	11.90	4.17	34.4	34.4
3588 Slaughters Mercantile Co., Slaughters	4.07	11.23	4.17	34.4	33.8
3589 G. C. Cornette, Cumberland	3.85	12.10	4.31	34.4	34.5
3883 Lilly Brothers Seed Co., Hopkinsville	3.02	12.05	3.77	34.4	32.3
3884 Letcher Grocery, Whitesburg	3.87	12.03	4.33	34.4	34.5
3885 J. T. Brown & Son, Burkesville	3.13	12.15	3.71	34.4	32.6
4025 Harralson Seed Company, Owensboro	4.13	10.55	4.56	34.4	33.5
4026 W. D. Cunningham, Webb's Cross Roads	3.97	12.08	4.30	34.4	34.7
4027 Kent Miller's Store, Sacramento	3.90	11.98	4.46	34.4	34.6
4139 T. H. Hughes, Russellville	3.88	13.05	4.12	34.4	35.5
4271 Yopp Seed Company, Paducah	3.95	12.55	4.02	34.4	35.0
4272 Farmers Gin Co., Clinton	3.92	12.50	4.02	34.4	34.9
4360 J. R. Williams Hardware Store, Beaver Dam	3.91	12.60	4.02	34.4	35.0
4511 Birmingham Milling Co., Benton	3.94	12.43	3.96	34.4	34.8
4512 H. B. McClary, Auburn	4.21	12.10	3.97	34.4	34.9
3-12-12 (Muriate) "Big Crop Brand"					
4273 Farmers Gin Co., Clinton	3.00	12.53	12.34	40.4	41.4
4274 N. S. Dudley & Son, Flemingsburg	3.04	12.10	12.30	40.4	40.9
3-12-6 (Muriate) "Old Black Joe Brand"					
4199 U. L. Rogers, Columbia	2.95	11.73	6.66	34.4	34.6
4361 Wallace Hardware Co., Central City	3.19	12.13	6.23	34.4	35.2
4438 N. T. Nuckols, Elkton	3.35	12.15	5.98	34.4	35.3
4439 W. H. Arnold & Co., Madisonville	3.23	12.43	6.04	34.4	35.4
4440 S. E. Hale & Son, Greenville	3.24	12.27	6.30	34.4	35.5
4513 Hatter Hardware Co., Franklin	3.04	12.35	5.96	34.4	34.9
4514 H. B. McClary, Auburn	3.12	12.45	5.94	34.4	35.1
4574 J. T. Beard Feed Store, Crofton	2.98	12.18	5.90	34.4	34.5
3-9-6 (Muriate) "Big Crop Brand"					
3590 Big Four Feed & Implement Co., Scottsville	3.04	9.00	6.13	30.8	31.0
3759 Chas. Emrich & Son, Philpot	2.86	9.55	6.11	30.8	31.3
3723 L. C. Orndorff, Adairville	2.75	9.33	5.79	30.8	30.5
3724 Slaughters Mercantile Co., Slaughters	2.94	9.38	5.93	30.8	31.1
3886 W. J. Amburgey, Means	2.72	8.85	5.85	30.8	29.9
4140 Lilly Brothers Seed Co., Hopkinsville	3.05	8.83	6.07	30.8	30.8
4200 Paul D. Jones Gen. Mdse., Kirksey	3.12	8.90	5.94	30.8	30.9
4362 J. F. Bertram & Son, Vanceburg	2.77	10.05	6.22	30.8	31.8
4363 S. O. Harlan & Co., Gamaliel	2.93	9.43	5.70	30.8	30.9
4441 S. E. Hale & Son, Greenville	3.39	9.53	6.19	30.8	32.4
4515 Butterworth Seed Co., Mayfield	3.08	9.00	5.91	30.8	30.9
3-9-6 (Sulfate) Armour's					
3747 Paul Gardner Gen. Mdse. Store, Cerulean	2.80	9.78	5.66 ^g	30.8	31.0
3591 Leslie County Grocery, Hyden	2.67	9.23	5.86	30.8	30.3
3748 H. T. Adcock Gen. Mdse., Nortonville	2.98	9.00	5.85	30.8	30.6
3887 Hackney-Jellico Co., Middlesboro	2.77	9.03	6.25	30.8	30.6
4001 Sewell & Co., Waterview	2.96	8.95	6.01 ^h	30.8	30.7

g Excess muriate equivalent to 4.46 percent potash

h Excess muriate equivalent to 0.50 percent potash

REGULATORY BULLETIN NO. 80

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
Armour Fertilizer Works, Continued					
2-12-6 (Muriate) "Big Crop Brand"					
3592 R. E. Young, Providence	2.00	12.40	5.99	32.4	32.9
3593 Anderson's Grocery, Pine Knot	1.91	12.03	6.30	32.4	32.6
3749 Cadiz Hardware Co., Cadiz	1.95	12.40	6.58	32.4	33.4
3750 Henderson Feed & Com. Co., Henderson	2.14	11.63	5.77	32.4	32.0
3751 Quality Grocery & Hdw. Co., Greenville	2.02	11.70	5.66	32.4	31.7
3888 C. B. Caudill, Blackey	2.07	11.75	6.23	32.4	32.5
3889 T. E. Clausen, Bonnieville	1.95	11.58	6.37	32.4	32.2
4100 H. D. Jones, Glasgow	1.95	11.40	6.13	32.4	31.7
4201 Farm Equipment Co., Bedford	2.00	11.60	6.48	32.4	32.4
4275 George Patmor & Son, Marion	2.06	11.98	6.24	32.4	32.7
4276 Saufley & Bell, Stanford	1.99	12.48	6.30	32.4	33.3
4277 Coffey's Store, Yosemite	2.05	11.93	6.77	32.4	33.2
4278 N. S. Dudley & Son, Flemingsburg	2.02	11.98	6.38	32.4	32.8
4364 Kent Miller's Store, Sacramento	2.09	12.38	6.18	32.4	33.2
4365 J. R. Nelson, Eubank	1.97	11.90	6.27	32.4	32.5
4366 Somerset Produce Co., Somerset	1.89	12.20	5.62	32.4	32.0
4367 Harralson Seed Company, Owensboro	2.07	12.18	6.01	32.4	32.8
4368 J. F. Bertram & Son, Vanceburg	2.03	11.98	6.05	32.4	32.5
4442 Wilson Farm Supply, Trenton	2.15	12.10	6.09	32.4	32.9
4516 Hatter Hardware Co., Franklin	2.09	11.80	6.05	32.4	32.4
4517 R. A. Wilson Co., Russellville	2.11	13.00	6.21	32.4	34.0
4540 Caneyville Roller Mills, Caneyville	2.04	12.33	6.54	32.4	33.4
0-14-7 (Muriate) "Big Crop Brand"					
3594 Mt. Sherman Hdw. Co., Mt. Sherman	....	13.95	7.71	29.8	30.5
3595 J. F. Bertram & Son, Vanceburg	....	13.73	7.46	29.8	29.9
3725 Bray & Co., Gamaliel	....	13.85	6.84	29.8	29.5
3890 Jellico Grocery, Corbin	....	14.10	6.26	29.8	29.2
4141 Kuttawa Milling Co., Kuttawa	....	14.33	7.46	29.8	30.7
4142 H. B. McClary, Auburn	....	14.10	7.12	29.8	30.0
4202 Penn & Ratcliffe, Campbellsville	....	13.90	7.14	29.8	29.8
4279 E. M. Bryant, Tollesboro	....	14.35	7.43	29.8	30.7
4280 N. S. Dudley & Son, Flemingsburg	....	14.30	7.61	29.8	30.8
4369 J. F. Bertram & Son, Vanceburg	....	14.13	7.48	29.8	30.4
4532 L. C. Orndorff, Adairville	....	13.78	7.09	29.8	29.6
0-12-12 (Muriate) "Big Crop Brand"					
4143 R. A. Wilson & Co., Russellville	....	11.88	12.72	32.4	33.0
4203 Stock Yard Feed & Supply Co., Louisville	....	12.53	12.08	32.4	33.1
4281 Coffey's Store, Yosemite	....	12.03	11.53	32.4	32.0
4370 Big 4 Feed & Impl. Co., Scottsville	....	11.98	12.47	32.4	32.9
4443 Bales Hardware Co., Horse Cave	....	12.28	11.64	32.4	32.4
4444 Slaughters Mercantile Co., Slaughters	....	12.30	12.50	32.4	35.3
4445 Quality Grocery & Hdw. Co., Greenville	....	11.68	12.62	32.4	32.6

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949

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
Armour Fertilizer Works, Continued					
0-12-12 (Muriate) with 3 pounds Borax per 100 pounds					
4069 L. C. Orndorff, Adairville	12.48	10.57	32.4	31.6
4575 Browning and McReynolds, Lewisburg	13.38	<u>11.66</u>	32.4	33.7
45% Superphosphate (Armour's)					
4144 G. M. Haycraft & Son, Leitchfield	45.70	....	58.5	59.4
4282 D. H. Tate, Monticello	44.95	....	58.5	58.4
4283 Page & Goulder, Barlow	46.03	....	58.5	59.8
4541 J. A. Oldfield, Mize	46.53	....	58.5	60.5
20% Superphosphate "Big Crop Brand"					
3597 Bales Hardware Co., Horse Cave	20.13	....	26.0	26.2
3598 Anderson & Spilman, Danville	21.27	....	26.0	27.7
3599 Hatter Hardware Co., Franklin	20.65	....	26.0	26.9
3600 H. D. Jones, Glasgow	21.75	....	26.0	28.3
3601 Somerset Produce Co., Somerset	21.00	....	26.0	27.3
3602 Union Supply Co., Lynch	20.57	....	26.0	26.7
3728 Quality Grocery & Hdw. Co., Greenville	20.60	....	26.0	26.8
3891 Wallace Hdw. Store, Central City	19.08	....	26.0	24.8
3892 Forbes Hdw. Co., Hopkinsville	<u>20.05</u>	....	26.0	<u>26.1</u>
3893 Kent Miller's Store, Sacramento	21.60	....	26.0	28.1
3894 Grant Reed, Lilly	19.25	....	26.0	25.0
3895 Quality Grocery & Hdw. Co., Greenville	21.75	....	26.0	28.3
3896 Campbell Wholesale Co., Krypton	20.13	....	26.0	26.2
3897 M. F. Bryant & Son Milling Co., Sebree	21.88	....	26.0	28.4
3898 Guy Armes Implement Co., Hardinsburg	19.33	....	26.0	25.1
4101 Hatter Hardware Co., Franklin	<u>21.15</u>	....	26.0	27.5
4185 Willoughby Supply Co., Richmond	20.20	....	26.0	26.3
4186 J. C. Everett & Co., Maysville	19.93	....	26.0	25.9
4204 Farmers Supply Co., Hodgenville	19.95	....	26.0	25.9
4205 Farmers Supply Co., Eminence	20.60	....	26.0	26.8
4206 Mt. Sherman Hdw. Co., Mt. Sherman	19.58	....	26.0	25.4
4284 N. S. Dudley & Son, Flemingsburg	<u>20.68</u>	....	26.0	26.9
4285 George Patmor & Son, Marion	20.60	....	26.0	26.8
4286 Saufley & Bell, Stanford	20.40	....	26.0	26.5
4287 E. M. Bryant, Tollesboro	20.30	....	26.0	26.4
4288 B. C. Morris Gen. Store, McKinney	19.40	....	26.0	25.2
4371 H. H. Lowery, Glasgow	<u>19.55</u>	....	26.0	25.4
4372 Jerome Glass, Grayson	19.95	....	26.0	25.9
4373 Harralson Seed Co., Owensboro	19.40	....	26.0	25.2
4446 G. M. Haycraft & Son, Leitchfield	<u>19.75</u>	....	26.0	25.7
4447 Slaughters Mercantile Co., Slaughters	19.55	....	26.0	25.4
4448 Upton Hardware Co., Upton	<u>19.93</u>	....	26.0	25.9
4449 Willoughby Supply Co., Richmond	20.08	....	26.0	26.1
4518 R. A. Wilson Co., Russellville	21.15	....	26.0	27.5
4542 Caneyville Roller Mills, Caneyville	19.90	....	26.0	25.9
4568 Barren County Hdw. Co., Glasgow	<u>19.73</u>	....	26.0	25.7
16% Nitrate of Soda					
3901 Sewell & Co., Waterview	15.92	.....	....	48.0	47.8
33.50% Ammonium Nitrate					
3899 M. G. Parman, London	33.84	.....	....	67.0	67.7

REGULATORY BULLETIN NO. 80
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 Va	
				Guar.	Found
Armour Fertilizer Works, Continued					
32.50% Ammonium Nitrate 3900 H. B. McClary, Auburn	33.12	.....	.....	65.0	66.1
60% Muriate of Potash Armour's 4289 Saufley & Bell, Stanford	.....	.....	60.88	54.0	54.7
22% Sulfate of Potash Magnesia 3603 Sphar & Co., Winchester	.....	.....	22.10	44.0	44.2
3902 Stamper Wholesale Grocery, Grassy Creek	.....	.....	22.20	44.0	44.4
3903 E. M. Bryant, Tollesboro	.....	.....	22.04	44.0	44.1
ASSOCIATED COOPERATIVES, Sheffield, Ala.					
48% Superphosphate 3904 Southern States Cooperative, Hopkinsville	.....	46.95	.....	62.4	61.0
4070 Southern States Cooperative, Campbellsville	.....	49.05	.....	62.4	63.8
47% Superphosphate 3905 Farmers Cooperative, Madisonville	.....	47.40	.....	61.1	61.6
3906 Southern States Cooperative, Hopkinsville	.....	47.58	.....	61.1	61.9
3907 Southern States Cooperative, Henderson	.....	48.73	.....	61.1	63.4
4450 Deaton Brothers Jackson	.....	47.40	.....	61.1	61.6
4576 Southern States Cooperative, Hopkinsville	.....	46.95	.....	61.1	61.0
46% Superphosphate 3604 Southern States Cooperative, Fulton	.....	44.28	.....	59.8	57.6
3605 Cooperative Fertilizer Service, Winchester	.....	48.00	.....	59.8	62.4
3908 Farmers Cooperative, Madisonville	.....	46.73	.....	59.8	60.8
3909 Harrison Bros. Farm Supply, Berea	.....	47.13	.....	59.8	61.3
4102 Deaton Brothers, Jackson	.....	44.60	.....	59.8	58.0
4103 Southern States Cooperative, Bowling Green	.....	44.45	.....	59.8	57.8
4519 Marshall County Soil Imp. Asso., Benton	.....	46.20	.....	59.8	60.1
45% Superphosphate 3606 Southern States Cooperative, Fulton	.....	46.00	.....	58.5	59.8
4146 Southern States Cooperative, Hopkinsville	.....	45.00	.....	58.5	58.5
4374 Southern States Cooperative, Somerset	.....	45.03	.....	58.5	58.5
33% Ammonium Nitrate 3607 Southern States Cooperative, Henderson	32.96	.....	.....	66.0	65.9
3910 S. S. Boyle, Danville	33.48	.....	.....	66.0	67.0
4104 Southern States Cooperative, Bowling Green	33.56	.....	.....	66.0	67.1
4147 Southern States Cooperative, Leitchfield	32.96	.....	.....	66.0	65.9
4187 Morgan Farmers Store, West Liberty	32.84	.....	.....	66.0	65.7
4375 Womack Brothers, Grayson	33.12	.....	.....	66.0	66.2
4451 Deaton Brothers, Jackson	33.64	.....	.....	66.0	67.3
THE BARRETT DIVISION, Allied Chemical & Dye Corporation, New York, N. Y.					
16% Nitrate of Soda - Arcadian the American 3911 Elkton Cash Store, Elkton	16.00	.....	.....	48.0	48.0

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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
BLUE GRASS PLANT FOODS, INC. Cynthiana, Ky.					
6-8-6 (Sulfate) "Blue Grass Brand"					
3912 Ravenna Grocery, Ravenna	<u>5.70</u>	8.38	6.38	35.6	35.8
3913 Davis Gillespie, Mayslick	<u>5.73</u>	8.40	6.06	35.6	35.6
6-8-6 (Muriate 3, Sulfate 3) "Blue Grass Brand"					
3608 Sanders & Rankin, Lancaster	<u>5.72</u>	8.15	6.78	35.6	36.0
3609 Bastin Lumber Co., Lancaster	<u>5.93</u>	8.58	6.32	35.6	36.5
3914 Harrison Bros. Farm Supply, Berea	5.84	8.35	6.21	35.6	35.9
4-10-6 (Sulfate) "Blue Grass Brand"					
3610 Southern States Cooperative, Bowling Green	3.77	10.23	6.41	34.0	34.2
3915 Ravenna Grocery, Ravenna	3.96	10.23	6.44	34.0	34.6
4-10-6 (Muriate 3, Sulfate 3) "Blue Grass Brand"					
3916 Booneville Wholesale Co., Booneville	4.18	9.98	6.34	34.0	34.7
3-12-12 (Muriate 6, Sulfate 6) "Blue Grass Brand"					
3917 Davis Gillespie, Mayslick	2.99	12.30	12.18	40.4	40.9
3-9-6 (Muriate) "Blue Grass Brand"					
3611 Sandy Valley Grocery, Paintsville	2.96	8.98	5.94	30.8	30.6
3612 Green's Department Store, Sandy Hook	2.85	8.80	5.68	30.8	29.9
3918 Sandy Valley Grocery, Ashland	3.04	8.85	5.80	30.8	30.5
2-12-6 (Muriate) "Blue Grass Brand"					
3613 Union Grocery, Morehead	1.91	11.88	6.36	32.4	32.4
3614 Southern States Cooperative, Bowling Green	1.89	11.90	6.21	32.4	32.3
3919 Davis Gillespie, Mayslick	1.95	11.90	6.15	32.4	32.3
3920 Ravenna Grocery, Ravenna	1.81	11.75	6.08	32.4	31.8
4376 Stagg Brothers, Vanceburg	2.15	12.08	6.29	32.4	33.1
20% Superphosphate "Blue Grass Brand"					
3921 Davis Gillespie, Mayslick	....	20.45	....	26.0	26.6
4290 J. H. Meyers, Ewing	....	19.78	....	26.0	25.7
21.50% Sulfate of Potash Magnesia					
3922 Davis Gillespie, Mayslick	....	.....	21.30	43.0	42.6
3923 Ravenna Grocery, Ravenna	....	.....	21.90	43.0	43.8
BUHNER FERTILIZER COMPANY, Seymour, Indiana.					
6-8-6 (Muriate) Buhner's					
4207 Edgewood Feed & Hdw. Co., Louisville	<u>5.38</u>	9.40	6.11	35.6	36.2
4-12-4 (Muriate) Buhner's					
4071 Albany Bldg. & Supply Co., Albany	3.82	12.15	4.89	34.4	35.1
3-12-12 (Muriate) Buhner's					
4209 Buhner & Co., Louisville	2.93	<u>11.58</u>	<u>11.10</u>	40.4	38.9
3-9-6 (Muriate)					
4208 Edgewood Feed & Hdw. Co., Louisville	<u>2.70</u>	9.25	7.19	30.8	31.7
4377 Cook & Moore, Tompkinsville	<u>2.92</u>	9.28	6.34	30.8	31.3

REGULATORY BULLETIN NO. 80

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
Buhner Fertilizer Company, Continued					
2-12-6 (Muriate) Buhner's					
3826 Mt. Sherman Hdw. Co., Mt. Sherman	1.98	<u>11.43</u>	6.29	32.4	32.0
4210 I. L. Hancock, Jr., Middletown	1.96	<u>11.23</u>	6.94	32.4	32.3
4211 Buhner & Co., Louisville	2.04	<u>11.60</u>	6.44	32.4	32.4
4452 Hedgespeth & Mardis, Campbellsville	1.89	<u>11.20</u>	<u>5.43</u>	32.4	30.7
0-14-7 (Muriate) Buhner's					
3827 Hedgespeth & Mardis, Campbellsville	....	<u>13.38</u>	7.40	29.8	29.5
4072 Shepherdsville Feed Mills, Shepherdsville	....	<u>13.73</u>	7.92	29.8	30.4
4212 Buhner & Co., Louisville	....	<u>13.35</u>	6.95	29.8	29.0
0-12-12 (Muriate) Buhner's					
4073 Shepherdsville Feed Mills, Shepherdsville	....	<u>11.80</u>	12.60	32.4	32.8
4213 Buhner & Co., Louisville	....	<u>11.55</u>	12.21	32.4	32.1
20% Superphosphate					
4214 Buhner & Co., Louisville	....	20.23	.....	26.0	26.3
4215 Hedgespeth & Mardis, Campbellsville	....	20.30	.....	26.0	26.4
4453 Springfield Feed & Grain Co., Springfield	....	20.45	.....	26.0	26.6
CHILEAN NITRATE SALES CORPORATION, New York, N. Y.					
16% Nitrate of Soda, "Champion Brand" Chilean					
3924 Wallace Pyles, Crofton	15.96	.....	.....	48.0	47.9
3925 E. & E. Marcantile Co., Olive Hill	16.12	.....	.....	48.0	48.4
CONSOLIDATED CHEMICAL COMPANY, DIV. PRICE & CO., Louisville, Ky.					
6-8-6 (Muriate 3, Sulfate 3) "Camel Brand"					
3615 W. R. Tumey, Mackville	6.30	8.85	6.85	35.6	37.9
3-12-12 (Muriate) "Camel Brand"					
4291 Stockton Brothers, Albany	2.77	13.15	12.64	40.4	42.0
3-9-6 (Muriate) "Camel Brand"					
4292 Walker Supply Co., Richmond	<u>2.71</u>	10.63	7.51	30.8	33.7
2-12-6 (Muriate) "Camel Brand"					
4454 Star Roller Mills, Cloverport	2.30	13.60	6.46	32.4	35.4
20% Superphosphate "Camel Brand"					
4293 Stockton Brothers, Albany	....	20.30	.....	26.0	26.4
4520 W. E. Reed & Son, Hodgenville	....	20.15	.....	26.0	26.2
COOPERATIVE FERTILIZER SERVICE, Winchester, Ky.					
6-8-6 (Sulfate) "Service Quality Brand" Open Formula					
4378 Manufacturer's warehouse	6.27	8.13	6.23	35.6	36.5
4543 Farmers Service Store, Jamestown	5.86	8.83	6.08	35.6	36.4
4558 C. T. Ashley Co., Nicholasville	6.14	7.90	6.08	35.6	35.8
4559 Cooperative Fertilizer Service, Somerset	6.43	8.40	6.14	35.6	37.1
4577 Southern States Cooperative, Frankfort	6.17	8.18	6.50	35.6	36.7
4578 Southern States Cooperative, Henderson	6.21	8.55	6.11	35.6	36.8
4585 Farmers Supply Co., Paintsville	6.19	8.45	6.57	35.6	37.1

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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, Continued					
6-8-6 (Muriate 3, Sulfate 3) "Service Quality Brand" Open Formula					
3616 Southern States Cooperative, Hawesville	6.32	8.15	6.08	35.6	36.5
3-18-9 (Muriate) "Service Quality Brand" Open Formula					
4074 Morrison & Wallace, Hodgenville	3.00	18.35	9.18	44.6	45.2
4105 Southern States Cooperative, Madisonville	3.07	18.70	9.32	44.6	45.9
4106 Farmers Supply Co., Paintsville	3.09	18.53	9.74	44.6	46.2
4216 Pike County Hatchery, Pikeville	2.95	18.00	8.89	44.6	44.4
4217 Southern States Cooperative, Fulton	3.04	18.15	9.39	44.6	45.3
4294 Clinton Farmers Supply, Albany	3.06	19.00	9.14	44.6	46.1
4295 Southern States Cooperative, Flemingsburg	3.10	18.65	9.13	44.6	45.7
4379 Southern States Cooperative, Somerset	3.12	18.65	9.59	44.6	46.2
4380 Major's Produce Store, Central City	3.09	18.33	9.53	44.6	45.7
3-9-6 (Sulfate) "Service Quality Brand" Open Formula					
3617 Southern States Cooperative, Maysville	3.07	8.70	7.98	30.8	32.6
3618 Dunnville Farm Supply, Dunnville	3.07	9.40	6.15	30.8	31.6
3926 Southern States Cooperative, Hopkinsville	2.94	8.20	5.59	30.8	29.3
3927 E. & E. Mercantile Co., Olive Hill	3.00	9.13	6.44	30.8	31.4
4218 Pike County Hatchery, Pikeville	2.85	9.65	6.32	30.8	31.6
2-12-6 (Muriate) Open Formula					
3619 Southern States Cooperative, Glasgow	2.37	12.40	6.32	32.4	33.9
3620 Meadows Grocery, Summer Shade	2.23	11.73	6.11	32.4	32.7
3928 Rose's Farm Supply, Campton	2.13	12.23	6.24	32.4	33.2
4107 Spencer Co. Farm & Home Ser., Taylorsville	2.20	11.50	6.18	32.4	32.4
4108 Southern States Cooperative, Henderson	1.93	12.00	6.02	32.4	32.3
4109 Allen Co. Farmers Service, Scottsville	1.72	11.75	7.01	32.4	32.6
4148 Southern States Cooperative, London	1.96	12.35	6.19	32.4	32.9
4219 Pike County Hatchery, Pikeville	2.04	11.95	6.21	32.4	32.6
4296 Southern States Cooperative, Flemingsburg	1.99	12.08	6.15	32.4	32.6
4297 Southern States Cooperative, Harrodsburg	2.17	11.50	6.48	32.4	32.6
4381 Allen County Farmers Service, Scottsville	2.14	11.45	6.50	32.4	32.5
0-12-12 (Muriate) "Quality Brand"					
3621 Harlan Farmers Supply, Harlan	....	12.20	11.70	32.4	32.3
3622 Manufacturer's warehouse	....	12.08	12.34	32.4	32.8
3930 Farm & Home Supply, Irving	....	12.23	12.48	32.4	33.2
4110 Southern States Cooperative, Henderson	....	12.18	12.85	32.4	33.5
4298 Southern States Cooperative, Clinton	....	12.30	12.51	32.4	33.3
4382 Rowan County Farm Supply, Morehead	....	12.48	11.98	32.4	33.0
4383 Southern States Cooperative, Glasgow	....	11.95	13.09	32.4	33.4
4384 Manufacturer's warehouse	....	12.25	12.96	32.4	33.7
4561 Southern States Cooperative, London	....	12.38	13.27	32.4	34.1
0-12-12 (Muriate) "Super Brand" with 3# borax per 100#					
3623 Manufacturer's warehouse	....	12.10	12.18	32.4	32.7
3624 Greenup Farmers Supply, Greenup	....	11.93	12.56	32.4	32.9
3929 Southern States Cooperative, Henderson	....	12.25	11.47	32.4	32.2
4075 Amburgey's Farm Supply, Mt. Sterling	....	12.35	12.19	32.4	33.0
4076 Southern States Cooperative, Shelbyville	....	12.80	11.98	32.4	33.3
4077 Morrison & Wallace, Hodgenville	....	12.05	12.65	32.4	33.1
4078 Farmers Supply Co., Monticello	....	12.40	12.69	32.4	33.6

REGULATORY BULLETIN NO. 80
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, Continued					
0-12-12 (Muriate) "SuperBrand" with 3# borax per 100#					
4111 Southern States Cooperative, Henderson	....	12.18	12.34	32.4	33.0
4220 W. C. Turner, Greensburg	....	12.55	12.24	32.4	33.3
4299 Southern States Cooperative, Flemingsburg	....	12.53	11.87	32.4	32.9
4560 Southern States Cooperative, London	....	12.53	12.94	32.4	34.0
20% Superphosphate					
3931 Taylor's Farm Service Beattyville	....	20.13	.....	26.0	26.2
4079 Southern States Cooperative, Shelbyville	....	19.93	.....	26.0	25.9
4080 Amburgey's Farm Supply, Mt. Sterling	....	20.90	.....	26.0	27.2
4112 Southern States Cooperative, Henderson	....	19.98	.....	26.0	26.0
4188 Southern States Cooperative, Maysville	....	20.40	.....	26.0	26.5
4221 Southern States Cooperative, Campbellsville	....	19.90	.....	26.0	25.9
4222 Pike County Hatchery, Pikeville	....	19.98	.....	26.0	26.0
4300 Southern States Cooperative, Carlisle	....	20.18	.....	26.0	26.2
4301 Farmers Supply Co., Monticello	....	20.18	.....	26.0	26.2
4385 C. C. Hdw., Seed & Feed Co., Hartford	....	20.20	.....	26.0	26.3
4386 Southern States Cooperative, Glasgow	....	20.20	.....	26.0	26.3
4455 Southern States Cooperative, Lebanon	....	19.98	.....	26.0	26.0
21% Sulfate of Potash Magnesia					
3625 Meade Farmers Supply, Brandenburg	....	.....	21.90	42.0	43.8
3626 Carroll County Farm Bureau, Carrollton	....	.....	21.68	42.0	43.4
CUMBERLAND CHEMICAL COMPANY, Hopkinsville, Ky.					
6-8-6 (Muriate) Cumberland					
3627 Smith & Reynolds, Slaughters	5.83	9.15	6.98	35.6	37.6
6-8-6 (Muriate 3, Sulfate 3) Cumberland					
3628 Smith & Reynolds Co., Slaughters	5.75	8.23	8.04 ⁱ	35.6	37.4
3629 McGeehee Produce Co., Lewisburg	5.73	8.05	7.99 ^j	35.6	37.1
3630 Trigg County Trading Co., Cadiz	<u>5.86</u>	8.08	7.76 ^k	35.6	38.7
4-12-8 (Muriate) Cumberland					
3631 Fox Hardware Store, Madisonville	4.41	12.00	7.99	38.4	39.2
3632 Nebo Exchange Mill, Nebo	4.27	12.15	8.32	38.4	39.4
3633 Trigg County Trading Co., Cadiz	4.49	11.95	8.74	38.4	40.1
3634 Smith & Reynolds Co., Slaughters	4.49	12.00	8.40	38.4	39.8
3932 McGeehee Produce Co., Lewisburg	3.75	12.23	7.79	38.4	38.0
3933 Wallace Pyles, Crofton	4.35	12.00	8.60	38.4	39.7
4456 Robinson Implement Co., Princeton	4.24	12.43	<u>6.99</u>	38.4	38.4

i Excess muriate equivalent to 0.49 percent potash
j Excess muriate equivalent to 0.41 percent potash
k Excess muriate equivalent to 0.34 percent potash

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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
Cumberland Chemical Company, Continued					
2-12-6 (Muriate) Cumberland				32.4	33.8
3635 W. G. Putman Hdw. Store, Nortonville	2.13	12.73	6.29	32.4	33.4
3636 J. E. Collins, Clay	1.94	12.08	7.00	32.4	33.8
3637 Trigg County Trading Co., Cadiz	2.26	11.85	7.09	32.4	32.9
3934 Western Ky. State Hospital, Hopkinsville	2.16	12.28	5.80	32.4	33.4
3935 Fox Hardware Co., Madisonville	2.23	11.20	7.45	32.4	33.2
4113 Fox Hardware Co., Madisonville	2.13	12.20	6.29	32.4	32.3
4149 Wallace Pyles, Crofton	1.94	12.00	6.01	32.4	33.4
4150 Smith & Reynolds Co., Slaughters	2.22	11.95	6.63	32.4	32.7
4457 C. W. Buckner, Pembroke	2.19	11.85	6.13	32.4	32.9
4458 Smith & Reynolds Co., Slaughters	2.30	12.08	5.76	32.4	32.9
0-14-7 (Muriate) with 5# borax per 100#				29.8	32.2
3638 Cayce-Yost Co., Hopkinsville	....	14.45	8.83	29.8	32.2
0-14-7 (Muriate)				29.8	29.8
3639 Cayce-Yost Co., Hopkinsville	....	14.13	6.88	29.8	29.5
3640 J. E. Collins, Clay	....	14.03	6.65	29.8	29.5
0-12-12 (Muriate) with 5# borax per 100#				32.4	32.9
4521 Logan County Seed Co., Russellville ¹	....	12.73	11.60	32.4	32.9
20% Superphosphate Cumberland				26.0	26.4
3936 Todd County Implement Co., Elkton	....	20.28	.....	26.0	26.7
4114 Fox Hardware Store, Madisonville	....	20.53	.....	26.0	26.9
4151 Wallace Pyles, Crofton	....	20.68	.....	26.0	26.4
4152 Mitchell Implement Co., Princeton	....	20.30	.....	26.0	27.1
4153 Smith and Reynolds, Slaughters	....	20.83	.....	26.0	25.3
4387 Bachman Implement Co., Calhoun	....	19.48	.....	26.0	25.8
4459 Smith & Reynolds Co., Slaughters	....	19.88	.....	26.0	25.8
21.50% Sulfate of Potash Magnesia				43.0	43.5
3641 Trigg County Trading Co., Cadiz	....	.....	21.74	43.0	43.5
THE DAVISON CHEMICAL CORPORATION, Hopkins Fertilizer Division New Albany, Indiana.					
6-8-6 (Muriate) Hopkins Old Time				35.6	35.8
3642 G. C. McPhetridge, London	5.24	9.23	6.21	35.6	37.3
4115 Henderson Feed & Com., Henderson	5.93	8.90	6.75	35.6	37.3
4154 G. C. McPhetridge, London	6.12	8.68	6.60	35.6	37.3
6-8-6 (Sulfate) Hopkins Old Time				35.6	36.6
4586 Springfield Feed & Grain Co., Springfield	5.89	8.75	6.35	35.6	36.6
6-8-6 (Muriate 3, Sulfate 3) Hopkins Old Time				35.6	37.1
3643 Don Reynolds, Tyner	4.44	9.70	8.61 ^m	35.6	36.5
3644 G. C. McPhetridge, London	5.98	8.35	6.49	35.6	36.3
3937 Ward's General Store, Munfordville	5.85	8.78	6.10	35.6	36.8
3938 The Big Store, Harrodsburg	6.09	8.13	6.84	35.6	37.3
3939 Henderson Feed & Com. Co., Henderson	5.32	8.83	8.01 ⁿ	35.6	37.3

¹ Boron guarantee not met

^m Excess muriate equivalent to 2.91 percent potash

ⁿ Excess muriate equivalent to 0.54 percent potash

REGULATORY BULLETIN NO. 80

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 Corp., Hopkins Fertilizer Division, Continued					
4-12-8 (Muriate) Hopkins Old Time 4587 Jewell & Hayden Co., Bardstown	3.71	11.95	8.64	38.4	38.4
3-12-12 (Muriate) Hopkins Old Time 3645 Jewell & Hayden Co., Bardstown	3.02	12.08	12.75	40.4	41.3
3940 Buechel Produce Exchange, Buechel	3.31	12.43	13.11	40.4	42.7
4081 Jewell & Hayden Co., Bardstown	2.97	11.73	12.26	40.4	40.3
4223 Jewell & Hayden Co., Bardstown	2.95	12.55	12.05	40.4	41.0
3-9-6 (Muriate) Hopkins Old Time 3646 Craft Grocery, Manchester	3.11	9.63	6.88	30.8	32.7
3941 Henderson Feed & Com. Co., Henderson	3.16	9.30	6.36	30.8	31.8
3942 Ed. Hubbard, Flat Lick	3.09	9.90	7.01	30.8	33.1
4544 E. M. Woosley Gen. Mdse., Rosine	2.89	9.65	6.35	30.8	31.7
2-12-6 (Muriate) Hopkins Old Time 3647 Albert Patrick, Williamsburg	2.19	12.60	6.47	32.4	34.0
3648 Henderson Feed & Com. Co., Henderson	2.24	12.30	6.68	32.4	33.9
3649 Nelson's Feed Store, Marion	2.19	12.03	6.26	32.4	33.1
3943 Robert Baker & Son, Crab Orchard	2.15	12.00	6.27	32.4	33.0
4082 Buechel Produce Exchange, Buechel	2.21	11.78	7.09	32.4	33.7
4116 Farm Service Cooperative, Henderson	2.11	11.53	6.58	32.4	32.6
4155 Farmers Feed & Supply Co., London	2.06	11.85	6.53	32.4	32.9
4224 Duncan and Thiess, LaGrange	2.01	12.50	5.92	32.4	32.9
4588 Springfield Feed & Grain Co., Springfield	2.11	12.00	6.60	32.4	33.2
0-12-12 (Muriate) Hopkins Old Time 3944 Buechel Produce Exchange, Buechel	....	12.00	12.83	32.4	33.2
4083 Jewell & Hayden Co., Bardstown	....	12.10	12.51	32.4	33.0
4589 Springfield Feed & Grain Co., Springfield	....	11.30	11.25	32.4	30.8
20% Superphosphate Hopkins Old Time 4156 Farmers Feed & Supply Co., London	....	19.98	.....	26.0	26.0
4225 Duncan & Thiess, LaGrange	....	19.68	.....	26.0	25.6
4157 Farmers Supply Center, Leitchfield	....	20.60	.....	26.0	26.8
THE DAVISON CHEMICAL CORPORATON, Nashville, Tennessee					
6-8-6 (Muriate) Davco Red Diamond 4388 Guenther Hardware Co., Owensboro	5.51	9.13	6.09	35.6	34.1
4-12-8 (Muriate) 3650 Nelson's Feed Store, Marion	4.02	12.20	8.28	38.4	39.0
4460 Cayce-Yost Co., Hopkinsville	3.96	12.15	7.90	38.4	38.4
4-12-4 (Muriate) Davco Red Diamond 3651 Cave City Ice & Coal Co., Cave City	3.77	11.20	5.54	34.4	34.5
3945 Fulkerson Brothers, Sonora	4.07	12.08	4.25	34.4	34.9
4117 Farmers Cooperative, Madisonville	4.01	11.80	4.56	34.4	34.7
4226 Butterworth Seed Co., Mayfield	3.81	11.98	4.58	34.4	34.6
4461 Cayce-Yost Co., Hopkinsville	4.00	12.58	4.02	34.4	35.1

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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, Continued					
3-9-6 (Muriate) Davco Red Diamond					
3652 Bishop, Patterson & Gray Bros., Glasgow	3.16	9.08	6.02	30.8	31.2
3653 Bell County Supply Co., Middlesboro	3.09	8.80	6.27	30.8	31.0
4227 Henry Durham, Greensburg	3.07	9.03	6.21	30.8	31.2
4389 Bell County Supply Co., Middlesboro	3.13	9.40	6.25	30.8	31.8
4390 Guenther Hardware Co., Owensboro	3.17	9.38	6.19	30.8	31.8
4462 Fulkerson Brothers, Sonora	3.02	9.88	6.13	30.8	32.0
4522 Hughes Hardware Co., Franklin	2.90	9.70	6.11	30.8	31.6
2-12-6 (Muriate) Davco Red Diamond					
3654 Frank Snodgrass, Morgantown	2.24	11.68	6.33	32.4	32.8
3655 Farmers Cooperative, Madisonville	2.29	11.90	6.29	32.4	33.2
3946 Farmers Cooperative, Madisonville	2.33	11.90	6.17	32.4	33.1
3947 C. O. Bibb General Store, Sacramento	2.10	12.18	6.42	32.4	33.2
4118 Simpson Farmers Cooperative, Franklin	2.11	11.83	6.49	32.4	32.9
4119 Farmers Cooperative, Madisonville	2.20	11.88	6.35	32.4	33.0
4228 Calloway County Soil Imp. Asso., Murray	2.34	11.78	6.08	32.4	32.9
4391 Frank Snodgrass, Morgantown	2.26	11.88	6.10	32.4	32.9
4463 W. I. Smith & Co., Sebree	2.18	11.90	6.07	32.4	32.7
4523 Logan County Seed Co., Russellville	2.18	11.90	6.94	32.4	33.6
0-12-12 (Muriate) Davco Red Diamond					
4120 Farmers Cooperative, Madisonville	....	12.30	11.72	32.4	32.5
4464 Farmers Cooperative, Madisonville	....	11.65	11.65	32.4	31.6
20% Superphosphate, Davco Granulated					
3656 Black Brothers, Greenmount	....	20.45	.....	26.0	26.6
3657 Bell County Supply Co., Middlesboro	....	21.00	.....	26.0	27.3
3658 Simpson Farmers Cooperative, Franklin	....	20.70	.....	26.0	26.9
3948 I. K. Miller & Son, Campbellsville	....	21.08	.....	26.0	27.4
3949 Madison Farm Bureau, Richmond	....	20.90	.....	26.0	27.2
4084 Warren Elevator Co., Guthrie	....	20.93	.....	26.0	27.2
4121 Bishop, Patterson & Gray Bros., Glasgow	....	20.58	.....	26.0	26.8
4122 Farm Service Cooperative, Henderson	....	20.63	.....	26.0	26.8
4392 Logsdon Store, St. Mary	....	20.80	.....	26.0	27.0
4393 Bell County Supply Co., Middlesboro	....	20.45	.....	26.0	26.6
60% Muriate of Potash					
4465 Farmers Cooperative, Madisonville	....	.....	58.48	54.0	52.6
23% Manure Salts					
3659 Farmers Hay & Seed Co., Smith's Grove	....	.....	22.72	20.7	20.4
21% Sulfate of Potash Magnesia					
3950 Walter Noe, Russellville	....	.....	21.32	42.0	42.6
3951 Peyton Hatchery, Horse Cave	....	.....	21.50	42.0	43.0
E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Delaware.					
42-0-0 "Uramon" Fertilizer					
3660 Green's Department Store, Sandy Hook	42.68	.....	.....	75.6	76.8
3952 Stewart and Company, Munfordville	42.76	.....	.....	75.6	77.0

REGULATORY BULLETIN NO. 80
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, New Albany, Indiana					
4-12-8 (Sulfate)					
3797 L. D. Flanagan, Russell Springs	4.18	<u>11.33</u>	8.41 ^o	38.4	38.4
3798 Ohio County Hatchery & Fd. St., Beaver Dam	4.02	<u>13.15</u>	<u>7.08^p</u>	38.4	38.9
3-18-9 (Muriate)					
3799 Ohio County Hatchery & Fd. St., Beaver Dam	2.79	<u>17.05</u>	8.83	44.6	42.9
3800 Orell Feed & Supply, Valley Station	<u>2.66</u>	<u>17.45</u>	<u>8.50</u>	44.6	<u>42.8</u>
3-12-12 (Muriate)					
3801 Ohio County Hatchery & Fd. St., Beaver Dam	3.01	11.78	<u>10.69</u>	40.4	38.9
4466 Crafton Bros. Feed Store, Henderson	3.20	<u>11.53</u>	<u>11.93</u>	40.4	40.2
3-9-6 (Muriate)					
3802 Oscar Bois, Eubank	3.10	9.83	6.05	30.8	32.1
4394 Oscar Bois, Eubank	<u>2.37</u>	9.28	6.55	30.8	30.4
2-12-6 (Muriate)					
3803 Oscar Bois, Eubank	2.39	<u>11.73</u>	7.64	32.4	34.5
4123 Crafton Bros. Feed Store, Henderson	1.88	<u>10.78</u>	5.57	32.4	30.3
4229 City Supply Co., Columbia	1.81	<u>11.23</u>	<u>5.60</u>	32.4	<u>30.7</u>
4302 L. D. Flanagan, Russell Springs	2.05	<u>11.30</u>	6.17	32.4	31.8
4395 Oscar Bois, Eubank	1.97	<u>11.75</u>	5.39	32.4	31.4
4467 Crafton Bros. Feed Store, Henderson	2.38	<u>10.83</u>	<u>6.64</u>	32.4	32.4
0-14-7 (Muriate)					
4230 City Supply Co., Columbia	....	14.00	6.92	29.8	29.7
0-12-12 (Muriate)					
3804 Harrison Bros. Farm Supply, Berea	....	11.63	13.60	32.4	33.7
4231 City Supply Co., Columbia	....	<u>12.28</u>	12.99	32.4	33.7
20% Superphosphate					
4124 Crafton Bros. Feed Store, Henderson	....	20.28	....	26.0	26.4
4232 Dudgeon & Robinson, Campbellsville	....	20.25	....	26.0	26.3
4303 L. D. Flanagan, Russell Springs	....	20.45	....	26.0	26.6
4304 Monarch Milling Co., Mt. Sterling	....	20.85	....	26.0	27.1
4468 Dudgeon & Robinson, Campbellsville	....	<u>19.35</u>	....	26.0	25.2
33.50% Ammonium Nitrate					
3805 V. R. Dowell, Liberty	33.60	.....	....	67.0	67.2
EMPIRE STATE CHEMICAL COMPANY, Athens, Ga.					
20% Superphosphate, Hodgson's					
3953 G. C. Shortridge, Mouthcard	....	20.60	....	26.0	26.8

o Excess muriate equivalent to 0.84 percent potash

p Excess muriate equivalent to 0.66 percent potash

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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 COMPANY, Louisville, Kentucky.					
6-8-6 (Muriate) Federal					
3806 Crawley Brothers Garage, Poole	5.81	8.70	5.76	35.6	35.8
3807 C. H. Webb, Livingston	5.67	8.25	6.44	35.6	35.7
3808 Black Brothers, Greenmount	<u>5.96</u>	9.05	<u>5.63</u>	35.6	36.4
4569 Green's Department Store, Sandy Hook	6.14	8.68	<u>6.35</u>	35.6	37.1
6-8-6 (Sulfate) Federal					
3809 Stanley Galbraith & Son, Carlisle	5.99	8.55	6.60	35.6	36.8
3810 Slone Brothers, Jackson	5.97	8.60	6.39	35.6	36.7
4579 Benson Valley Milling Co., Frankfort	6.06	8.73	6.01	35.6	36.6
4590 R. T. Little, Pomeroyton	6.09	8.40	6.29	35.6	36.6
4-12-8 (Muriate) Federal					
4233 Crawford & Ferguson, Benton	4.05	11.93	8.07	38.4	38.5
4305 Clinton Hatchery, Clinton	3.95	12.30	7.98	38.4	38.6
4524 Dairyman's Feed & Supply Co., Mayfield	3.99	12.35	8.20	38.4	39.0
-12-8 (Sulfate)					
3811 Richardson Feed Store, Sonora	4.07	12.00	8.02 ⁹	38.4	38.6
-12-4 (Muriate) Federal					
3812 Denver Miniard, Cornettsville	3.11	12.35	4.76	34.4	33.8
3813 W. Floyd Hall, Jeff	<u>3.68</u>	12.00	4.17	34.4	33.9
3814 Samuel Ham, Soldier	3.76	11.65	4.30	34.4	33.8
3815 Earl Johnson, Pikeville	3.78	<u>12.00</u>	<u>3.63</u>	34.4	33.6
-9-6 (Muriate) Federal					
3816 Lewis Wholesale Co., Whitesburg	2.98	9.40	<u>5.74</u>	30.8	31.0
3817 Interstate Grocery Co., Jellico, Tenn.	3.16	9.58	6.19	30.8	32.0
4234 Murray Milling Co., Murray	3.28	7.55	6.30	30.8	29.9
4235 Crawford & Ferguson Hdw. Co., Benton	3.16	<u>8.35</u>	6.42	30.8	30.8
4525 Hatchett's Store, Benton	3.25	<u>8.65</u>	6.08	30.8	31.0
4306 Clinton Hatchery, Clinton	3.42	<u>7.95</u>	6.32	30.8	30.7
4469 Lander Hardware Co., LaFayette	3.18	9.65	5.72	30.8	31.7
4591 R. T. Little, Pomeroyton	3.47	9.48	<u>7.16</u>	30.8	33.5
-9-6 (Sulfate)					
3818 Slone Brothers, Jackson	2.95	9.73	<u>5.74</u>	30.8	31.3
-12-6 (Muriate) Federal					
3819 Grayson County Supply Co., Leitchfield	2.52	12.10	6.24	32.4	33.8
3820 W. P. Ray & Sons, New Haven	2.49	<u>11.03</u>	<u>5.51</u>	32.4	31.7
3821 W. Floyd Hall, Jeff	2.03	<u>12.83</u>	<u>6.07</u>	32.4	33.5
3822 Denver Miniard, Cornettsville	2.09	12.30	<u>5.66</u>	32.4	32.6
3823 Samuel Ham, Soldier	2.22	12.05	6.60	32.4	33.5
4125 O. C. Argabright, Guston	2.18	12.00	6.22	32.4	33.0
4158 A. R. Dyer General Store, McQuady	2.09	12.18	6.45	32.4	33.3
4159 Fiechter Hardware Store, London	2.07	11.98	6.34	32.4	32.9
4236 W. B. Monroe, LaGrange	2.30	12.10	6.34	32.4	33.5
4237 Harned & Welsh Co., Boston	2.27	11.95	6.66	32.4	33.5
4396 Smith & Wells, Glasgow	2.24	11.93	6.05	32.4	32.9
4397 Lynn Flood Hdw. Store, Finchville	2.24	12.00	6.44	32.4	33.3
4398 Allen & Jenkins, Bowling Green	2.23	12.50	6.06	32.4	33.5

Excess muriate equivalent to 1.71 percent potash

REGULATORY BULLETIN NO. 80
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., Continued					
0-14-7 (Muriate) Federal 3824 C. H. Stephens, Russell	....	14.05	7.38	29.8	30.2
0-12-12 (Muriate) Federal					
4126 Allen & Jenkins, Bowling Green	....	12.33	12.11	32.4	32.9
4238 Hall Seed Co., Louisville	....	12.08	12.24	32.4	32.7
4239 W. B. Monroe, LaGrange	....	12.45	11.64	32.4	32.6
4470 Warren Elevator, Guthrie	....	12.58	<u>11.64</u>	32.4	32.7
20% Superphosphate Federal					
4127 Allen & Jenkins, Bowling Green	....	19.48	.....	26.0	25.4
4160 Robinson Implement Co., Princeton	....	<u>18.90</u>	.....	26.0	<u>24.6</u>
4161 Grayson County Supply Co., Leitchfield	....	<u>20.40</u>	.....	26.0	<u>26.5</u>
4162 Fiechter Hardware Store, London	....	20.05	.....	26.0	26.1
4240 W. B. Monroe, LaGrange	....	20.35	.....	26.0	26.5
4307 Porter Beckett, Flemingsburg	....	20.08	.....	26.0	26.1
4399 Thomerson Milling Co., Glasgow	....	20.08	.....	26.0	26.1
4400 Allen & Jenkins, Bowling Green	....	20.20	.....	26.0	26.3
4471 Robinson Implement Co., Princeton	....	20.03	.....	26.0	26.0
16% Nitrate of Soda					
3825 Warren Elevator, Guthrie	16.00	.....	.....	48.0	48.0
50% Muriate of Potash					
4241 W. B. Monroe, LaGrange	....	.....	60.92	45.0	54.8
FORD MOTOR COMPANY, Dearborn, Michigan.					
20.80% Ammonium Sulfate					
3661 Bastin Lumber Co., Lancaster	20.96	.....	.....	41.6	41.9
3662 F. W. Rickard, Winchester	20.96	.....	.....	41.6	41.9
HERCULES POWDER COMPANY, Wilmington, Delaware.					
33% Ammonium Nitrate					
3954 Meade & Co., Paintsville	33.68	.....	.....	66.0	67.4
HUTSON CHEMICAL COMPANY, Murray, Ky.					
4-12-8 (Muriate) Hutson's					
3955 Dairyman's Feed & Supply Co., Mayfield	3.53	11.78	7.07	38.4	36.3
4242 Manufacturer's warehouse	<u>4.32</u>	12.33	<u>8.31</u>	38.4	<u>39.8</u>
INTERNATIONAL MINERALS & CHEMICAL CORPORATION, Cincinnati, Ohio.					
6-8-6 (Muriate 2, Sulfate 4)					
3663 Stockton Brothers, Albany	5.93	8.35	6.09	35.6	36.0
3956 W. N. Taylor & Son, Pineville	5.78	8.55	5.95	35.6	35.8

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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, Continued					
5-10-10 (Muriate 5, Sulfate 5)					
3664 Frank Hopwood, Clay	4.75	10.75	9.39	40.0	39.8
3957 Young Lumber Co., Beaver Dam	5.04	10.50	<u>9.67</u>	40.0	40.4
3958 Claude Beck Service Station, Jamestown	4.82	10.85	<u>9.93</u>	40.0	40.6
3959 Booneville Wholesale Co., Booneville	4.97	10.43	10.15	40.0	40.6
5-10-5 (Muriate)					
3665 Lexington Seed Co., Lexington	5.07	10.25	5.28	35.0	35.7
4-16-0					
3960 Walker Greer, Camargo	4.57	<u>15.58</u>	....	33.2	33.8
4-12-8 (Muriate)					
3666 L. F. Thurmond Feed Store, Murray	3.98	12.20	8.13	38.4	38.7
3667 H. D. McKeehan, Rockhold	4.07	<u>11.30</u>	8.85	38.4	38.6
3668 Lawson Self Service, Whitley City	4.00	<u>13.00</u>	8.46	38.4	40.1
4189 Tony Bezold, Newport	4.21	11.95	8.19	38.4	39.0
4243 Springfield Feed & Grain Co., Springfield	3.57	12.48	7.84	38.4	38.0
4401 Lawson Hdw. Store, Greenup	<u>3.95</u>	12.38	8.44	38.4	39.2
4472 Curtis E. George, Princeton	<u>3.18</u>	11.90	11.22	38.4	39.9
4-12-8 (Sulfate)					
3669 Lexington Seed Co., Lexington	4.21	12.20	7.98	38.4	39.0
3670 Rufus Whitt, Morehead	4.19	12.45	7.96	38.4	39.3
3961 Cecilian Milling Co., Elizabethtown	4.00	12.55	8.19	38.4	39.3
3962 Booneville Wholesale Co., Booneville	4.15	12.55	8.15	38.4	39.5
4592 Springfield Grain & Feed Co., Springfield	3.79	12.28	8.57	38.4	38.9
4-12-8 (Muriate 4, Sulfate 4)					
3671 Farmers Supply Co., Lexington	4.02	12.58	<u>7.29</u>	38.4	38.4
3-12-12 (Muriate)					
3672 John C. Eldridge, Sharkey	2.83	12.15	11.87	40.4	40.1
4163 Rock Farm Center, Munfordville	3.40	11.40	6.68	40.4	<u>35.2</u>
4308 Benton Mercantile Co., Hillsboro	2.85	<u>12.75</u>	<u>11.95</u>	40.4	<u>41.0</u>
4402 J. C. Eldridge, Sharkey	2.83	12.55	12.94	40.4	41.7
4593 Curtis E. George, Princeton	<u>2.09</u>	11.95	14.60	40.4	41.1
2-12-6 (Muriate)					
3673 Rufus Whitt, Morehead	2.27	12.18	6.72	32.4	33.9
3674 Ruark Truck Lines, Morganfield	2.30	12.50	6.46	32.4	34.1
3675 Hobert & Milton Roberts, Monticello	2.17	<u>11.60</u>	6.47	32.4	32.7
3676 Frank Hopwood, Clay	2.69	<u>11.80</u>	6.60	32.4	34.1
3963 Booneville Wholesale Co., Booneville	2.16	12.05	7.85	32.4	34.6
4164 Cass & Cash, Brodhead	2.11	12.45	6.71	32.4	33.9
4244 Ice's Produce Co., Bardstown	2.12	12.50	6.58	32.4	33.8
4245 Cundiff & Squires, Cane Valley	1.95	<u>11.40</u>	7.70	32.4	33.3
4309 Denton Mercantile Co., Hillsboro	2.05	<u>11.90</u>	6.24	32.4	32.6
4310 Ray Boone's Feed Store, Stanford	1.93	<u>10.95</u>	6.91	32.4	31.9
4403 Lawson's Hardware Store, Greenup	2.26	<u>12.45</u>	7.06	32.4	34.5
4404 Cooper Brothers Feed Store, Elizabethtown	2.12	13.00	6.58	32.4	34.4
4473 Ruark Truck Lines, Morganfield	2.10	<u>11.00</u>	6.40	32.4	31.8

REGULATORY BULLETIN NO. 80

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 Corp., Continued					
0-14-7 (Muriate)					
3677 Frank Hopwood, Clay	....	14.95	7.22	29.8	31.2
4165 Rock Farm Center, Munfordville	....	13.55	6.91	29.8	29.2
4166 Cass & Cash, Brodhead	....	13.85	7.20	29.8	29.8
4246 L. F. Thurmond Feed Store, Murray	....	13.98	7.50	29.8	30.3
4405 Cooper Bros. Feed Store, Elizabethtown	....	14.13	7.71	29.8	30.8
0-12-12 (Muriate)					
3964 Farmers Supply Store, Somerset	....	11.00	14.39	32.4	33.6
4167 Rock Farm Center, Munfordville	....	10.45	12.11	32.4	30.7
20% Superphosphate					
3678 Lexington Seed Company, Lexington	....	21.00	.....	26.0	27.3
3679 Sweet Feed Mills, Bowling Green	....	21.83	.....	26.0	28.4
3680 Ruark Truck Line, Morganfield	....	19.68	.....	26.0	25.6
3965 Stinson Cundiff, Faubush	....	19.85	.....	26.0	25.8
3966 Walker Greer, Camargo	....	21.05	.....	26.0	27.4
4128 Caneyville Roller Mills, Caneyville	....	18.80	.....	26.0	24.4
4129 Tunks & Isenburg, Rocky Hill	....	19.23	.....	26.0	25.0
4311 Denton Mercantile Co., Hillsboro	....	20.60	.....	26.0	26.8
4312 W. S. Allen & Co., Liberty	....	20.05	.....	26.0	26.2
4406 Lawson's Hardware Store, Greenup	....	19.80	.....	26.0	25.7
4407 Emerson's Store, Waynesburg	....	19.53	.....	26.0	25.4
4408 Cooper Bros. Feed Store, Elizabethtown	....	21.20	.....	26.0	27.6
16% Nitrate of Soda					
3681 Morris Brothers, Hazel Green	15.96	.....	.....	48.0	47.9
33.50% Ammonium Nitrate					
3682 John C. Eldridge, Sharkey	33.40	.....	.....	67.0	66.8
4545 Ralph Hovious, Hustonville	33.72	.....	.....	67.0	67.4
50% Muriate of Potash					
4085 Warehouse, Somerset	....	.....	46.16	45.0	41.5
21.50% Sulfate of Potash Magnesia					
3683 John C. Eldridge, Sharkey	....	.....	21.94	43.0	43.9
3967 Farmers Supply Co., Paintsville	....	.....	21.80	43.0	43.6
INTERSTATE FERTILIZER COMPANY, Cairo, Ill.					
6-8-6 (Muriate) Interstate Brand					
3968 Mayfield Sweet Feed Mill, Mayfield	5.89	7.85	6.29	35.6	35.4
4-12-8 (Muriate) Interstate					
3969 Mayfield Sweet Feed Mill, Mayfield	3.96	12.18	8.60	38.4	39.1
4247 Mayfield Sweet Feed Mill, Mayfield	3.89	12.53	8.54	38.4	39.4
4248 Calloway Co. Soil Imp. Asso., Murray	3.91	12.48	8.49	38.4	39.3
4562 Southern States Cooperative, Paducah	4.00	12.33	8.36	38.4	39.2
4-12-4 (Muriate) Interstate					
3684 Marshall Co. Soil Imp. Asso., Benton	4.05	12.05	4.10	34.4	34.7
4249 Marshall Co. Soil Imp. Asso., Benton	3.99	12.08	4.67	34.4	35.2

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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
Interstate Fertilizer Company, Continued					
3-12-12 (Muriate) Interstate					
3970 Southern States Cooperative, Paducah	2.76	12.20	12.11	40.4	40.3
4313 Ballard County Cooperative, LaCenter	3.18	12.08	12.40	40.4	41.3
3-9-6 (Muriate) Interstate					
3685 Marshall Co. Soil Imp. Asso., Benton	3.04	9.05	6.00	30.8	30.9
3686 Mayfield Sweet Feed Mill, Mayfield	2.96	9.20	6.02	30.8	31.0
3687 Calloway County Soil Imp. Asso., Murray	3.12	9.05	6.19	30.8	31.3
3971 Southern States Cooperative, Paducah	3.17	9.45	6.39	30.8	32.1
4526 City Coal Co., Fulton	3.15	9.35	6.42	30.8	31.9
0-12-12 (Muriate) Interstate					
4314 Ballard County Cooperative, LaCenter	....	12.05	12.85	32.4	33.3
4527 City Coal Co., Fulton	....	11.78	13.38	32.4	33.5
21.50% Sulfate of Potash Magnesia					
3972 Southern States Co-op., LaCenter	....	.....	22.00	43.0	44.0
KENTUCKY FERTILIZER WORKS, Vinchester, Ky.					
4-8-6 (Sulfate) "P. P. F. Brand"					
3828 Howard & Son, West Liberty	5.69	8.25	6.24	35.6	35.5
3829 Berryman Coal & Feed Co., Winchester	4.98	8.68	5.93	35.6	34.3
3830 The May Grocery Co., West Liberty	5.92	8.40	5.99	35.6	35.9
5-10-5 (Sulfate)					
3831 R. C. Taylor Produce, Monticello	5.12	10.93	4.66	35.0	36.0
5-9-6 (Muriate) "P. P. F. Brand"					
3832 The May Grocery Co., West Liberty	3.34	10.13	6.25	30.8	33.1
3833 Booneville Wholesale Co., Booneville	3.27	9.15	6.01	30.8	31.5
3834 Howard & Son, West Liberty	3.46	9.05	5.38	30.8	31.2
7-12-6 (Muriate) "P. P. F. Brand"					
4315 Farmers Supply Co., Danville	1.88	12.15	6.52	32.4	32.9
4316 Manufacturer's warehouse	2.77	11.08	7.01	32.4	33.9
4546 Farmers Supply Co., Danville	1.92	12.05	6.80	32.4	33.1
6-12-12 (Muriate) "P. P. F. Brand"					
3835 Manufacturer's warehouse	....	12.33	12.37	32.4	33.2
20% Superphosphate "P. P. F. Brand"					
4318 Manufacturer's warehouse	....	20.08	.....	26.0	26.1
4547 Robinson & Turley, Richmond	....	20.43	.....	26.0	26.6
3.50% Ammonium Nitrate "P. P. F. Brand"					
3836 Booneville Wholesale Co., Booneville	33.48	.....	.....	67.0	67.0
60% Muriate of Potash "P. P. F. Brand"					
4319 Manufacturer's warehouse	.....	.....	59.40	54.0	53.5

REGULATORY BULLETIN NO. 80
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
Kentucky Fertilizer Works, Continued					
50% Sulfate of Potash "P. P. F. Brand" 4320 Manufacturer's warehouse	.....	.....	50.80	55.0	55.9
21% Sulfate of Potash Magnesia 4317 Manufacturer's warehouse	.....	.....	21.92	42.0	43.8
KNOXVILLE FERTILIZER COMPANY, Knoxville & Nashville, Tennessee and London, Ky.					
4-12-8 (Muriate 4, Sulfate 4) Knox Pulverized 3688 Denton Mercantile Co., Hillsboro	<u>3.73</u>	13.28	8.21	38.4	39.6
4-12-4 (Muriate)					
3689 Carrigan & Corrill, Waynesburg	4.27	12.40	4.81	34.4	36.2
3690 Ball Brothers, Cumberland	3.91	13.20	4.36	34.4	36.0
3691 R. J. Jones, Tyner	4.19	12.43	4.39	34.4	35.7
3692 Dixie Feed Company, Middlesboro	3.79	13.15	4.20	34.4	35.6
3973 Clay County Farm Service, Manchester	3.74	13.45	3.96	34.4	35.6
3974 Ancil C. McQueen, Bond	<u>3.27</u>	12.38	3.83	34.4	33.2
4168 Princeton Mills, Princeton	<u>3.61</u>	11.85	4.82	34.4	34.3
4321 Hobert & Milton Roberts, Monticello	<u>3.84</u>	12.40	4.20	34.4	34.8
4322 Manufacturer's warehouse	3.99	12.60	4.06	34.4	35.2
4475 W. C. Turner, Greensburg	3.89	12.15	4.40	34.4	34.8
4548 Hobert & Milton Roberts, Monticello	3.98	12.15	4.38	34.4	34.9
3-12-4 (Muriate) "Special"					
3693 Farmers Feed Market, Bowling Green	<u>2.62</u>	12.58	4.50	32.4	32.8
3975 Covington Grain & Feed Co., Guthrie	<u>2.79</u>	12.55	4.40	32.4	33.0
3-9-6 (Muriate)					
3694 R. J. Jones, Tyner	3.21	9.50	5.83	30.8	31.7
3695 Parker Seed Co., Murray	3.03	10.63	5.86	30.8	32.7
3696 Pineville Wholesale Co., Pineville	3.48	8.60	6.46	30.8	31.7
3976 Kennedy Supply Co., Liberty	3.10	<u>9.85</u>	6.31	30.8	32.3
3977 Major's Poultry House, Central City	3.44	9.90	5.80	30.8	32.6
3978 Jellico Grocery, Corbin	3.08	9.73	6.18	30.8	32.0
3979 Thomas Smith, Bulan	3.44	8.63	6.56	30.8	31.8
4170 Princeton Mills, Princeton	2.21	<u>11.58</u>	5.98	30.8	32.3
4250 W. C. Turner, Greensburg	<u>2.84</u>	10.50	6.56	30.8	32.8
4324 Manufacturer's warehouse	2.92	9.75	5.90	30.8	31.4
4325 Hobert & Milton Roberts, Monticello	3.09	9.70	6.29	30.8	32.1
4528 Harris Feed Co., Franklin	3.02	9.55	6.46	30.8	32.0
4563 A. P. Vaught & Co., Science Hill	3.12	10.20	6.25	30.8	32.7
3-9-6 (Muriate 4, Sulfate 2)					
3697 Parker Seed Co., Murray	2.94	9.90	5.93	30.8	31.7
3698 Jellico Grocery, Barbourville	2.98	11.25	5.72	30.8	33.2
3699 Farmers Feed & Supply Co., London	3.09	9.83	<u>6.26</u>	30.8	32.2
3700 C. M. Langdon Estate, Science Hill	3.10	9.30	6.27	30.8	31.6
3701 R. J. Jones, Tyner	3.00	9.20	6.56	30.8	31.6
3702 Planters Hardware Co., Hopkinsville	2.77	10.15	5.76	30.8	31.5
3703 Greenwell Service, Lebanon	2.84	10.00	6.03	30.8	31.7
3980 Dixie Feed Co., Middlesboro	2.80	10.00	6.14*	30.8	31.7

* Excess muriate equivalent to 1.14 percent potash

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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
Knoxville Fertilizer Company, Continued					
3-9-6 (Muriate 4, Sulfate 2)					
3981 Beckham Garland, Bimble	2.95	9.80	6.04	30.8	31.7
3982 Planters Hardware Co., Hopkinsville	3.14	10.60	5.20	30.8	32.2
4476 Jack Shirley, Edmonton	3.24	9.65	5.94	30.8	32.0
2-12-12 (Muriate) Knox Pulverized					
4323 Manufacturer's warehouse	2.14	12.23	12.01	38.4	40.0
2-12-12 (Muriate) with 60# borax per ton - Knox					
4086 Foster Fertilizer Co., Hopkinsville	1.93	11.48	12.12	38.4	37.8
4169 Mt. Vernon Produce Co., Mt. Vernon	1.78	12.75	11.10	38.4	38.0
4326 Manufacturer's warehouse	2.07	12.00	12.56	38.4	39.1
2-12-6 (Muriate)					
3704 Mrs. Raymond Norris, McKee	2.34	12.00	6.80	32.4	33.9
3705 Roscoe Morris Feed Store, Somerset	2.26	12.00	6.47	32.4	33.4
3706 Denton Mercantile Co., Hillsboro	2.01	13.50	5.43	32.4	33.7
3707 Harris Feed Co., Franklin	2.11	12.43	5.66	32.4	32.8
3708 R. J. Jones, Tyner	2.10	12.48	6.67	32.4	33.9
3709 City Supply Co., Columbia	2.80	10.15	6.05	32.4	31.8
3983 Pineville Wholesale Grocery, Pineville	2.08	12.50	5.98	32.4	33.1
3984 Major's Poultry House, Central City	2.52	10.40	6.00	32.4	31.5
3985 Brashear's Market, Corbin	2.16	11.53	6.75	32.4	32.9
3986 H. & H. Wholesale Grocery, Hyden	2.06	12.60	6.07	32.4	33.3
4130 Farmers Feed Market, Bowling Green	1.94	13.08	5.85	32.4	33.4
4171 Princeton Mills, Princeton	2.74	11.38	6.31	32.4	33.5
4172 Mt. Vernon Produce Co., Mt. Vernon	1.88	12.73	5.77	32.4	32.8
4327 Kennedy Supply Co., Liberty	2.10	12.28	6.94	32.4	33.9
4328 Manufacturer's warehouse	2.14	12.43	5.95	32.4	33.2
4409 G. H. Bowles & Son, Glasgow	2.07	12.88	5.76	32.4	33.4
4477 Covington Grain & Seed Co., Guthrie	2.16	12.43	6.22	32.4	33.5
4478 Jack Shirley, Edmonton	2.23	12.50	6.19	32.4	33.7
4479 Princeton Mills, Princeton	2.04	12.75	6.13	32.4	33.5
0-14-7 (Muriate)					
3710 Denton Mercantile Co., Hillsboro	....	14.33	7.29	29.8	30.5
3711 Cundiff & Squires, Cane Valley	....	13.88	7.23	29.8	29.9
3712 W. H. Brock & Co., Winchester	....	14.80	7.27	29.8	31.0
3713 Gid Hollingsworth, Tompkinsville	....	14.00	6.02	29.8	28.8
3714 Allen County Mills, Scottsville	....	14.63	6.04	29.8	29.6
3715 Jellico Grocery, Corbin	....	14.75	6.18	29.8	29.9
3987 Dixie Feed Co., Middlesboro	....	14.53	6.69	29.8	30.1
3988 Jellico Grocery, Harlan	....	14.35	7.27	29.8	30.5
3989 Pineville Wholesale Grocery, Pineville	....	14.85	6.80	29.8	30.6
4131 Farmers Feed Market, Bowling Green	....	12.95	6.45	29.8	28.0
4329 Manufacturer's warehouse	....	14.70	6.69	29.8	30.3
4410 Farmers Feed Market, Bowling Green	....	14.45	6.14	29.8	29.5
4411 Creech & Son, Corbin	....	13.98	5.80	29.8	28.6
0-12-12 (Muriate) Knox Pulverized					
4330 Manufacturer's warehouse	....	12.28	11.96	32.4	32.7
4564 C. E. Herrin, Willailla	....	12.48	12.07	32.4	33.1
4529 Bobb and Robertson Co., Adairville	....	12.43	11.87	32.4	32.8
20% Superphosphate Knox Pulverized					
3716 R. J. Jones, Tyner	....	20.30	.....	26.0	26.4
3717 G. H. Bowles & Son, Glasgow	....	21.05	.....	26.0	27.4
3718 Sherman Bengé, London	....	20.73	.....	26.0	27.0
3719 Geo. P. Taylor, Burnside	....	20.70	.....	26.0	26.0

REGULATORY BULLETIN NO. 80

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
Knoxville Fertilizer Company, Continued					
20% Superphosphate Knox Pulverized					
3720 Denton Mercantile Co., Hillsboro	....	20.45	....	26.0	26.6
3990 Powell-Hackney Grocery Co., Hazard	....	20.50	....	26.0	26.7
3991 Curtis McComas, Burkesville	....	19.98	....	26.0	26.0
3992 Jellico Grocery, Harlan	....	19.85	....	26.0	25.8
3993 W. H. Brock & Co., Winchester	....	18.95	....	26.0	24.6
3994 Laurel Grocery, East Bernstadt	....	<u>20.38</u>	....	26.0	<u>26.5</u>
4132 Harris Feed Co., Frankin	....	19.88	....	26.0	25.8
4173 Gibson's Farm & Home Service, Barbourville	....	20.33	....	26.0	26.4
4333 Manufacturer's warehouse	....	20.07	....	26.0	26.1
4412 Creech & Son, Corbin	....	20.50	....	26.0	26.7
4480 Princeton Mills, Princeton	....	20.03	....	26.0	26.0
4481 Shaker Feed & Seed Co., South Union	....	19.05	....	26.0	24.8
4413 Geo. P. Taylor Co., Burnside	....	<u>20.03</u>	....	26.0	<u>26.0</u>
4549 Kennedy Supply Co., Liberty	....	20.53	....	26.0	26.7
32.50% Ammonium Nitrate					
3721 Clay County Farm Service, Manchester	33.56	.....	....	65.0	67.1
20.50% Sulfate of Ammonia					
3722 Babbs & Robertson, Adairville	20.68	.....	....	41.0	41.4
50% Muriate of Potash					
3996 Manufacturer's warehouse	.....	.....	48.68	45.0	43.8
4331 Manufacturer's warehouse	.....	.....	<u>48.84</u>	45.0	44.0
25% Manure Salts					
3997 Manufacturer's warehouse	.....	.....	24.74	22.5	22.5
22% Sulfate of Potash Magnesia					
3998 Ancil C. McQueen, Bond	.....	.....	21.94	44.0	43.9
3999 Mt. Vernon Produce Co., Mt. Vernon	.....	.....	21.78	44.0	43.6
4332 Manufacturer's warehouse	.....	.....	21.84	44.0	43.7
MIDWESTERN PHOSPHATE CORPORATION, Madison 1, Wisconsin.					
20% Superphosphate					
3726 Robinson & Turley, Richmond	.....	20.70	.....	26.0	26.9
51% "Trona" Potash Salts					
3727 Central Grocery Co., Morehead	.....	.....	52.72	56.1	58.0
NORSK-HYDRO, Oslo, Norway					
15.50% Calcium Nitrate					
4002 Southern States Co-op., Flemingsburg	15.16	.....	.....	46.5	45.5
NORTH AMERICAN FERTILIZER COMPANY Louisville, Ky.					
6-8-6 (Muriate) N. Am.					
3837 Rizer Brothers, Bardstown	4.87	9.65	7.18	35.6	36.5
3839 W. L. Anderson & Son, Caneyville	<u>6.07</u>	8.43	6.31	35.6	36.6
4087 Farmers Co-op Store, Owensboro	5.70	9.10	6.80	35.6	37.1
4414 Farmers Co-op Store, Owensboro	<u>5.78</u>	7.90	6.71	35.6	35.8

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949

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
North American Fertilizer Company, Continued					
6-8-6 Sulfate N. Am.					
3838 Southern States Cooperative, Bardstown	5.94	8.70	7.12 ^r	35.6	37.4
4482 Farmers Feed Store, Lexington	4.41	9.63	6.36 ^s	35.6	34.7
4550 Ward Oates Supply Co., Frankfort	<u>4.66</u>	9.95	<u>5.59^t</u>	35.6	34.9
4-12-8 (Sulfate) N. Am.					
3840 Bradley's Grocery, Moorefield	3.91	<u>9.78</u>	9.09 ^u	38.4	36.7
4-12-4 (Muriate) N. Am.					
4551 Southern States Co-op, Danville	<u>3.60</u>	<u>11.28</u>	5.53	34.4	34.3
3-9-6 (Muriate)					
4415 Farmers Feed Store, Central City	2.98	9.88	5.45	30.8	31.3
3841 H. R. Squires, Greensburg	3.58	7.90	<u>6.42</u>	30.8	32.3
2-12-6 (Muriate)					
3842 W. L. Anderson & Son, Caneyville	2.13	12.85	6.55	32.4	34.2
3843 Crab Orchard Lumber Co., Crab Orchard	2.37	12.00	6.89	32.4	34.0
4133 Leonard Hdw. & Farm Supply, Greenville	2.11	12.55	6.29	32.4	33.6
4174 Lindsey & Reed, Brownsville	2.19	11.85	6.99	32.4	33.6
4251 Bunton Seed Co., Louisville	2.14	12.70	7.86	32.4	35.4
4335 Crab Orchard Lumber Co., Crab Orchard	2.15	12.65	7.47	32.4	35.0
4336 W. D. Cunningham, Webbs Cross Roads	2.12	12.55	7.56	32.4	34.9
4416 Farmers Feed Store, Central City	2.52	12.73	6.60	32.4	34.9
0-14-7 (Muriate) N. Am.					
4483 Grigsby and Co., Bardstown	....	15.93	<u>6.58</u>	29.8	31.7
20% Superphosphate N. Am.					
3844 G. T. Kasey, Irvington	....	20.40	....	26.0	26.5
3845 Wood Mercantile Co., Brownville	....	21.30	....	26.0	27.7
4134 Leonard Hdw. & Farm Supply, Greenville	....	20.00	....	26.0	26.0
4252 Shipp & Allen, Campbellsville	....	20.23	....	26.0	26.3
4253 Caulk Hardware Co., Campbellsville	....	20.55	....	26.0	26.7
4417 Farmers Cooperative Store, Owensboro	....	19.68	....	26.0	25.6
4484 W. L. Anderson & Sons, Caneyville	....	<u>21.15</u>	....	26.0	27.5
4565 Abel Cunagin, Greenmount	....	19.90	....	26.0	25.9
48% Sulfate of Potash					
4594 Springfield Feed & Grain Co., Springfield	....	.....	<u>35.64</u>	52.8	<u>39.2</u>
PIKE COUNTY HATCHERY, Pikeville, Ky.					
3-12-6 (Muriate)					
3729 Manufacturer's warehouse	2.97	11.98	6.40	34.4	34.7

r Excess muriate equivalent to 0.88 percent potash
s Excess muriate equivalent to 1.12 percent potash
t Excess muriate equivalent to 0.71 percent potash
u Excess muriate equivalent to 1.01 percent potash

REGULATORY BULLETIN NO. 80
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 COMPANY, Louisville, Ky.					
6-8-6 (Muriate) Price					
4003 G. T. Kasey, Irvington	5.79	8.38	6.92	35.6	36.6
4004 Harralson Seed Co., Owensboro	5.97	8.80	7.03	35.6	37.5
4005 J. A. Oldfield, Mize	<u>5.38</u>	9.08	6.97	35.6	36.6
6-8-6 (Muriate 3, Sulfate 3) Price					
4006 Haydon Coal & Oil Co., Springfield	5.72	9.30	7.03	35.6	37.6
4007 J. A. Oldfield, Mize	<u>6.22</u>	8.88	6.52	35.6	37.6
4-10-6 (Muriate) Price					
3730 Monarch Milling Co., Mt. Sterling	4.77	10.60	6.67	34.0	36.9
4008 Gish Hdw. & Furniture Co., Central City	4.31	10.43	6.78	34.0	35.9
3-9-6 (Muriate) Price					
4009 Omer Rogers, Owingsville	3.04	10.83	6.01	30.8	33.1
4010 Foster Fertilizer Co., Hopkinsville	<u>2.68</u>	10.25	6.92	30.8	32.6
4552 Stockton Bros., Albany	<u>2.55</u>	9.88	6.89	30.8	31.9
3-9-6 (Muriate 3, Sulfate 3) Price					
3731 Monarch Milling Co., Mt. Sterling	3.87	8.95	<u>5.71</u>	30.8	32.2
2-12-6 (Muriate) Price					
3732 Haydon Coal & Oil Co., Springfield	2.46	12.60	6.16	32.4	34.2
3733 A. L. Hazel, Hodgenville	2.01	12.48	7.31	32.4	34.3
3734 Foster Fertilizer Co., Hopkinsville	2.58	12.63	6.63	32.4	35.0
4011 Gish Hdw. & Furniture Co., Central City	2.37	12.53	6.41	32.4	34.2
4012 G. T. Kasey, Irvington	2.59	11.98	6.31	32.4	33.9
4013 J. A. Oldfield, Mize	2.66	12.75	6.63	32.4	35.3
4014 Harralson Seed Co., Owensboro	2.51	11.80	5.95	32.4	33.1
4015 Triplett's Store, South Corbin	2.63	9.75	10.23	32.4	35.2
4175 Foster Fertilizer Co., Hopkinsville	2.27	<u>12.45</u>	6.03	32.4	33.5
4337 R. J. Jones, Tyner	2.40	12.45	6.53	32.4	34.3
4338 Stockton Brothers, Albany	2.43	12.60	6.86	32.4	34.8
4418 Hardin County Milling Co., Elizabethtown	2.35	12.05	6.73	32.4	33.9
0-14-7 (Muriate) Price, with 200# tobacco stems					
3736 Monarch Milling Co., Mt. Sterling	....	14.88	7.33	29.8	31.2
4016 A. C. Roberts, Scottsville	....	13.23	8.05	29.8	29.9
4017 A. L. Hazle, Hodgenville	....	<u>13.93</u>	7.82	29.8	30.5
4570 Houchens Grocery Co., Glasgow	....	<u>11.90</u>	8.83	29.8	29.1
0-12-12 (Muriate) with 200# tobacco stems					
4254 St. Matthews Produce Exchange, St. Matthews	....	12.90	11.74	32.4	33.2
3735 Fox Brothers, Winchester	....	12.70	<u>12.84</u>	32.4	34.1
4018 Shaker Feed & Seed Co., South Union	....	13.43	11.95	32.4	34.1
20% Superphosphate Price					
4339 Walker Supply Co., Richmond	....	20.18	.....	26.0	26.2
4419 Hardin County Milling Co., Elizabethtown	....	20.10	.....	26.0	26.1
4420 Triplett's Store, Corbin	....	20.13	.....	26.0	26.2
4485 Jack Shirley, Edmonton	....	<u>19.58</u>	.....	26.0	25.5
4581 Experiment Substation, Quicksand	....	<u>19.45</u>	.....	26.0	25.3

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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., Continued					
33.50% Ammonium Nitrate Price					
4019 Bourbon Hatchery, Paris	33.50	....	....	67.0	67.1
60% Muriate of Potash					
4582 Experiment Substation, Quicksand	.....	....	60.72	54.0	54.7
A. F. PRINGLE & COMPANY, Charleston, S. C.					
6-8-6 (Muriate 3, Sulfate 3) "Merco Brand"					
3737 Scott McClain, Taylorsville	6.21	8.73	6.58	35.6	37.5
RALSTON PURINA COMPANY, St. Louis, Mo.					
5-10-5 (Muriate 2.50, Sulfate 2.50) "Purina Plant Food"					
3738 Maddox Grocery, Kuttawa	5.13	10.55	5.24	35.0	36.2
3739 Coomer Feed Store, Columbia	4.74	10.60	5.35	35.0	35.6
3740 Farmers Supply Store, Dawson Springs	<u>4.85</u>	10.80	5.51	35.0	36.2
4020 J. A. Bennett, Hardware Store, Taylorsville	4.75	10.50	5.30	35.0	35.4
O. M. SCOTT & SONS COMPANY, Marysville, Ohio					
9-7-4 (Muriate)					
3742 Ashland Hatchery, Ashland	8.78	7.48	6.23	38.4	40.8
4089 Ashland Hatchery, Ashland	9.03	8.08	4.52	38.4	40.3
SEARS, ROEBUCK AND COMPANY, Chicago 7, Ill.					
4-12-4 (Muriate) "Cross Country Brand"					
3743 Wrigley Mercantile Co., Wrigley	3.80	12.00	4.66	34.4	34.7
3744 Sears, Roebuck Co., Lexington	3.66	12.53	4.46	34.4	34.8
3745 Campbell Wholesale Co., Combs	<u>3.75</u>	12.25	4.76	34.4	35.0
SPENCER CHEMICAL COMPANY, Pittsburg, Kansas.					
33.50% Ammonium Nitrate					
3746 A. R. Dyer Gen. Store, McQuady	33.64	.....	....	67.0	67.3
4024 Stewart and Co., Munfordville	33.68	.....	....	67.0	67.4
4090 G. H. Bowles, Glasgow	33.36	.....	....	67.0	66.7
4531 J. W. Edwards, Woodburn	34.16	.....	....	67.0	68.3
SWIFT & COMPANY PLANT FOOD DIVISION, National Stock Yards, Illinois.					
8-24-8 (Muriate) Red Steer Brand					
4341 Cooper Seed and Feed Co., Bandana	8.16	24.93	<u>5.91</u>	60.8	60.2
8-8-8 (Muriate) Red Steer Brand					
4490 Morganfield Hardware Co., Morganfield	<u>6.92</u>	8.80	9.86	41.6	42.3

REGULATORY BULLETIN NO. 80
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
Swift & Company Plant Food Division, Continued					
8-8-8 (Muriate) "Vigoro Brand" 4489 C. S. Brent & Co., Lexington	<u>7.52</u>	9.30	<u>7.71</u>	41.5	41.9
6-10-4 (Muriate) "Vigoro Brand" 4491 C. S. Brent & Co., Lexington	<u>5.10</u>	11.25	4.76	36.0	36.5
6-8-6 (Sulfate) "Blenn Brand" 3849 Harry Brumley, Owensboro 3850 Dorsey Bros. & Fisher, Carlisle	<u>5.71</u> <u>5.94</u>	<u>7.53</u> <u>8.73</u>	6.22 6.10	35.6 35.6	34.7 36.5
5-10-5 (Muriate) "Red Steer Brand" 3851 Farmers Supply Co., Roadfork	4.79	10.85	4.83	35.0	35.4
4-12-8 (Muriate) "Red Steer Brand" 3852 Hickman Hardware Co., Hickman	3.87	12.50	<u>7.60</u>	38.4	38.3
4-12-4 (Muriate) "Red Steer Brand" 3535 Gresham Bros. Hdw. Co., Eddyville 3536 Water Valley Milling Co., Water Valley 4492 Morganfield Hdw. Co., Morganfield	4.18 <u>3.73</u> <u>3.77</u>	12.50 12.03 12.13	4.09 4.11 4.46	34.4 34.4 34.4	35.5 34.0 34.6
4-12-4 (Muriate) "Vigoro Brand" 3537 Morganfield Hdw. Co., Morganfield 3538 Borders Hdw. Co., Lebanon 3539 Stanford Hdw. Co., Stanford 3540 Kratzer Supply Co., Mt. Sterling 3541 Butts Milling Co., Fulton 3542 Calloway County Soil Imp. Asso., Murray 3543 J. H. McClure Hdw. Store, Springfield 3544 M. G. Williams Impl. Co., Hopkinsville 3545 Robinson Feed Store, Princeton 3853 Farmers Supply Co., Roadfork 3854 Kratzer Supply Co., Mt. Sterling 3855 Caulk Hardware Co., Campbellsville 4342 W. B. Davis & Sons, Kevil 4255 Graves Co Soil Imp. Asso., Mayfield	4.09 3.99 4.06 4.10 3.91 3.78 4.08 3.95 3.86 3.83 4.01 3.93 3.63 <u>3.76</u>	12.93 12.53 12.10 12.53 12.73 12.88 12.58 12.00 12.38 12.20 12.50 12.60 13.10 12.35	4.24 4.40 3.99 3.83 3.96 3.80 3.90 4.32 4.12 3.74 <u>4.23</u> 4.09 3.96 4.42	34.4 34.4 34.4 34.4 34.4 34.4 34.4 34.4 34.4 34.4 34.4 34.4 34.4 34.4	35.9 35.4 34.6 35.1 35.1 34.8 35.2 34.6 34.7 34.0 35.3 35.1 34.9 34.8
3-12-12 (Muriate) "Red Steer Brand" 4493 Morganfield Hdw. Co., Morganfield 4553 Burna Feed Co., Burna	2.98 3.07	12.25 12.30	11.83 12.01	40.4 40.4	40.5 40.9
3-12-6 (Muriate) "Red Steer Brand" 3546 Hoskins Store, Campbellsville 3856 Farmers Supply Co., Roadfork	<u>2.62</u> <u>3.00</u>	12.75 12.25	6.61 6.50	34.4 34.4	35.2 35.2
2-12-6 (Muriate) "Red Steer Brand" 3547 Water Valley Milling Co., Water Valley 3857 Hickman Hdw. Co., Hickman 4343 W. B. Davis & Sons, Kevil 4256 Calloway Co. Soil Imp. Asso., Murray	2.17 2.16 1.92 1.95	12.20 12.20 12.35 12.00	<u>5.70</u> <u>5.57</u> <u>5.98</u> 6.00	32.4 32.4 32.4 32.4	32.7 32.5 32.6 32.3
0-12-12 (Muriate) "Red Steer Brand" 4257 Graves Co. Soil Association, Mayfield	...	11.90	<u>10.86</u>	32.4	31.1

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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
Swift & Company, Continued					
20% Superphosphate "Red Steer Brand"					
3858 Farmers Supply Co., Roadfork	....	20.40	....	26.0	26.5
3859 Watson Coal & Feed Co., Princeton	....	20.25	....	26.0	26.3
4344 Cooper's Seed & Feed Co., Bandana	....	20.80	....	26.0	27.0
4494 Morganfield Hdw. Co., Morganfield	....	20.10	....	26.0	26.1
TENNESSEE CORPORATION, Lockland, Ohio., New Albany, Ind.					
4-24-12 (Muriate) "Superior Quality Brand"					
4176 Cayce-Yost Co., Hopkinsville	4.12	<u>23.33</u>	12.40	56.8	56.6
4-12-8 (Muriate) "Superior Quality Brand"					
3752 Southern States Cooperative, Morganfield	3.96	12.48	7.88	38.4	38.8
4028 Harrison Bros. Farm Supply, Berea	3.99	11.88	8.28	38.4	38.5
4423 Hoagland Hdw. Store, Sacramento	3.97	12.70	7.89	38.4	39.1
4-12-8 (Sulfate) "Superior Quality Brand"					
3753 A. R. Dyer General Store, McQuady	4.29	12.40	<u>7.58</u>	38.4	39.0
3754 Southern States Cooperative, Somerset	3.93	12.43	<u>7.82</u>	38.4	38.6
3755 Star Roller Mills, Cloverport	4.15	12.28	8.00	38.4	39.0
3756 E. A. Barker, Bryantsville	4.25	12.10	7.76 ^v	38.4	38.8
3757 Campbellsburg Coal Co., Campbellsburg	4.10	12.73	<u>7.68^v</u>	38.4	39.2
3758 Baughman Milling Co., Stanford	3.94	13.53	<u>7.90</u>	38.4	40.0
4029 Harrison Bros. Farm Supply, Berea	4.35	<u>11.03</u>	7.84	38.4	37.8
4030 Haydon Coal & Oil Co., Springfield	4.24	<u>11.35</u>	<u>7.74</u>	38.4	37.8
4-12-8 (Muriate 4, Sulfate 4) "Superior Quality Brand"					
4031 W. C. Dulin Feed Store, Taylorsville	4.06	12.40	<u>7.71</u>	38.4	38.7
4032 Harrison Bros. Farm Supply, Berea	4.13	12.18	<u>7.76</u>	38.4	38.6
3-18-9 (Muriate) "Superior Quality Brand"					
4033 Farmers Cooperative Store, Owensboro	3.14	<u>17.60</u>	9.39	44.6	44.8
4177 Cayce-Yost Co., Hopkinsville	3.03	<u>17.60</u>	9.31	44.6	44.5
3-12-12 (Muriate) "Superior Quality Brand"					
4034 Farmers Cooperative Store, Owensboro	2.98	11.80	12.27	40.4	40.4
2-12-6 (Muriate)					
3760 Jasper Produce Co., Science Hill	1.99	12.18	6.60	32.4	33.2
3761 Morrow's Store, Dixon	2.12	12.23	6.45	32.4	33.4
4035 Davis Gillespie, Mayslick	2.04	12.10	6.25	32.4	32.9
4036 Harlan Fruit Co., Harlan	2.14	11.85	6.01	32.4	32.5
4037 Rufus Tarter, Norfleet	2.24	11.80	6.06	32.4	32.7
4038 Cayce-Yost Co., Hopkinsville	2.18	<u>11.60</u>	6.03	32.4	32.3
4424 Hoagland's Hardware Store, Sacramento	2.34	<u>12.60</u>	6.46	32.4	34.3
4495 D. B. Saylor, Mt. Vernon	2.08	12.05	5.98	32.4	32.6
4496 I. K. Miller & Son, Campbellsville	2.11	11.98	5.96	32.4	32.6
4497 Fay Bell & Son, Clarkson	2.06	11.98	5.93	32.4	32.4

^v Excess Muriate equivalent to 0.34 percent potash

REGULATORY BULLETIN NO. 80
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
Tennessee Corp., Continued					
0-20-20 (Muriate) "Superior Quality Brand" 3762 Farmers Supply Co., Bedford	....	19.80	<u>18.56</u>	50.0	48.3
0-20-10 (Muriate) "Superior Quality Brand" 3763 R. C. Taylor Produce Co., Monticello	....	20.10	10.38	40.0	40.5
0-12-12 (Muriate) "Superior Quality Brand" 4260 I. K. Miller & Son, Campbellsville	....	12.00	12.91	32.4	33.3
46% Florida Superphosphate 4091 Kentucky Farmers Supply, Hodgenville	....	<u>45.68</u>	....	59.8	59.4
20% Superphosphate "Superior Quality Brand"					
3764 Fay Bell & Son, Clarkson	....	20.90	....	26.0	27.2
3765 Pulaski Feed Co., Somerset	....	20.58	....	26.0	26.8
3766 Farmers Supply Co., Bedford	....	20.95	....	26.0	27.2
4039 Southern States Cooperative, Harrodsburg	....	<u>19.10</u>	....	26.0	<u>24.8</u>
4040 Farm & Home Supply, Irvine	....	<u>20.10</u>	....	26.0	<u>26.1</u>
4041 Farmers Cooperative Store, Owensboro	....	20.85	....	26.0	27.1
4042 Baughman Milling Co., Stanford	....	19.75	....	26.0	25.7
4043 Garrard Lumber Co., Lancaster	....	20.03	....	26.0	26.0
4092 C. M. Warner, Nancy	....	19.83	....	26.0	25.8
4259 I. K. Miller & Son, Campbellsville	....	20.73	....	26.0	27.0
4345 Porter Beckett, Flemingsburg	....	20.23	....	26.0	26.3
4425 Hoagland's Hardware Store, Sacramento	....	19.90	....	26.0	25.9
4498 Fay Bell & Son; Clarkson	....	21.15	....	26.0	27.5
4583 Cooper Bros. Feed Store, Elizabethtown	....	21.53	....	26.0	28.0
16% Nitrate of Soda					
3770 H. T. Roberts, Frenchburg	16.04	....	....	48.0	48.1
33.50% Ammonium Nitrate					
4044 Booneville Wholesale Co., Booneville	33.52	....	....	67.0	67.0
4045 R. C. Taylor Produce Co., Monticello	<u>33.24</u>	....	....	67.0	66.5
27-0-0 Urea (with peanut hulls added)					
3767 P. J. Honaker, Port Royal	<u>24.12</u>	....	....	48.6	<u>43.4</u>
3768 H. T. Roberts, Frenchburg	<u>24.40</u>	....	....	48.6	<u>43.9</u>
3769 Coffey's Store, Yosemite	<u>26.48</u>	....	....	48.6	47.7
3793 Garrard Lumber Co., Lancaster	<u>25.56</u>	....	....	48.6	<u>46.0</u>
3794 Loyd Yates & Son, Maud	28.00	....	....	48.6	<u>50.4</u>
3795 Southern States Cooperative, Frankfort	28.38	....	....	48.6	51.1
3796 Clay-Gentry Stock Yards, Lexington	<u>26.02</u>	....	....	48.6	46.8
20.60% Cyanamid					
4499 D. B. Saylor, Mt. Vernon	21.20	....	....	49.4	50.9
0-0-31 Cotton Hull Ash (Muriate not more than 5%)					
3771 U. L. Rogers, Columbia	....	....	28.50 ^w	31.0	28.5
4046 R. C. Taylor, Produce Co., Monticello	....	....	<u>30.82</u>	31.0	<u>30.8</u>

^w Excess muriate equivalent to 0.49 percent potash

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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
Tennessee Corporation, Continued					
21.50% Sulfate of Potash Magnesia 3772 Farmers Supply Co., Bedford	....	....	<u>21.00</u>	43.0	42.0
VALLEY COUNTIES OF KENTUCKY COOPERATIVE, Murray, Ky.					
47% Superphosphate					
4047 Southern States Co-op., Paducah	....	<u>45.25</u>	....	61.1	58.8
4566 Southern States Co-op., Paducah	....	<u>46.75</u>	....	61.1	60.8
46% Superphosphate					
4428 Major's Produce Co., Central City	....	<u>47.60</u>	....	59.8	61.9
4555 Southern States Co-op., Marion	....	<u>45.68</u>	....	59.8	59.4
4261 Calloway County Soil Imp. Asso., Murray	....	<u>45.08</u>	....	59.8	58.6
33% Ammonium Nitrate					
4080 Southern States Co-op., Hopkinsville	33.04	....	....	66.0	66.1
VIRGINIA-CAROLINA CHEMICAL CORPORATION, Cincinnati, O., Mt. Pleasant, Tenn., Lynchburg, Va., Rome, Ga.					
6-8-6 (Muriate) V-C					
4049 Farmers Supply Co., Cadiz	5.97	8.05	6.16	35.6	35.8
4501 W. D. Smith & Co., Sebree	<u>5.26</u>	8.38	5.85	35.6	34.4
3773 Farmers Supply Co., Cadiz	<u>6.17</u>	8.08	5.84	35.6	35.9
6-8-6 (Sulfate) V-C					
4050 Ashland Feed & Seed Co., Ashland	5.88	8.60	6.63 ^x	35.6	36.7
3774 Casey County Hatchery, Liberty	6.46	8.75	6.05 ^y	35.6	37.5
3775 Miss Agnes Davis, Russellville	6.11	8.18	5.96 ^z	35.6	36.0
4346 Hardin Kennon, Clay City	<u>5.57</u>	8.88	6.69 ^a	35.6	36.5
4556 Grayson Milling Co., Grayson	<u>5.84</u>	9.28	5.96 ^b	35.6	36.8
4-12-8 (Sulfate) V-C					
3776 Casey County Hatchery, Liberty	3.89	12.98	7.57	38.4	38.9
3777 Farmers Supply Co., Cadiz	<u>3.25</u>	13.53	<u>6.97</u>	38.4	37.7
3778 Woodford Spears & Son, Paris	<u>4.31</u>	12.28	<u>7.99^c</u>	38.4	40.6
4051 Roy Clark, Big Hill	4.04	12.30	7.92	38.4	38.8
4-12-8 (Muriate 4, Sulfate 4) V-C					
3779 H. T. Roberts, Frenchburg	<u>3.65</u>	11.95	8.31	38.4	38.0
4-12-8 (Muriate 2, Sulfate 6)					
4052 H. & H. Store, Elkton	3.89	<u>11.50</u>	8.52 ^d	38.4	38.1
4053 Ashland Feed & Seed Co., Ashland	4.23	<u>13.00</u>	8.12	38.4	40.2
4054 Grayson Milling Co., Grayson	4.34	12.90	7.98	38.4	40.1
4055 G. W. Bowling & Sons, Catlettsburg	4.38	12.93	8.02	38.4	40.3

- x Excess muriate equivalent to 0.33 percent potash
 y Excess muriate equivalent to 3.43 percent potash
 z Excess muriate equivalent to 0.36 percent potash
 a Excess muriate equivalent to 0.59 percent potash
 b Excess muriate equivalent to 0.55 percent potash
 c Excess muriate equivalent to 1.50 percent potash
 d Excess muriate equivalent to 0.68 percent potash

REGULATORY BULLETIN NO. 80
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 Corp., Continued					
3-12-12 (Muriate) V-C					
4502 H. T. Roberts, Frenchburg	2.82	12.70	12.61	40.4	41.5
4503 Farmers Supply Co., Morganfield	2.76	12.15	11.36	40.4	39.5
4534 Miss Agnes Davis, Russellville	<u>2.64</u>	12.60	<u>11.20</u>	40.4	39.6
3-12-12 (Muriate 6, Sulfate 6) V-C					
3780 Miss Agnes Davis, Russellville	3.03	12.60	<u>10.46</u>	40.4	39.6
3-12-6 (Muriate) V-C					
4056 Wilson's Trading Post, Turkey Creek	3.11	12.08	5.98	34.4	34.7
3-9-6 (Muriate) V-C					
3781 Interstate Grocery Co., Jellico, Tenn.	2.98	10.15	6.03	30.8	32.2
3782 Bell County Supply Co., Middlesboro	3.01	9.73	5.96	30.8	31.7
4057 Bell County Supply Co., Middlesboro	2.95	8.90	6.01	30.8	30.6
4058 U. L. Rogers, Columbia	3.01	9.80	6.06	30.8	31.8
4059 Farmers Supply Co., Whitesburg	3.02	8.93	5.77	30.8	30.5
4178 Bell County Supply Co., Middlesboro	3.03	8.80	6.10	30.8	30.7
2-12-6 (Muriate) V-C					
3783 Farmers Supply Co., Cadiz	2.20	12.80	5.91	32.4	33.7
3784 W. I. Smith General Store, Sebree	2.01	12.13	6.42	32.4	33.0
3785 Font Hill Milling Co., Font Hill	1.98	12.18	6.27	32.4	32.9
3786 Glenwood Hatchery, Carrollton	2.10	12.48	6.21	32.4	33.4
3787 Knox County Supply Co., Barbourville	1.98	12.35	5.95	32.4	32.7
4060 Ashland Feed & Seed Co., Ashland	2.05	11.65	6.55	32.4	32.6
4061 M. G. Williams Impl. Co., Hopkinsville	2.03	<u>12.43</u>	5.88	32.4	32.9
4136 Cottingham Grain Co., Henderson	2.05	12.70	5.86	32.4	33.2
4179 Miss Agnes Davis, Russellville	2.06	12.00	6.07	32.4	32.6
4429 Sam Nahm & Son, Bowling Green	2.07	12.30	5.93	32.4	32.8
4430 Young Lumber Co., Beaver Dam	2.09	11.98	6.11	32.4	32.7
4431 Sanders & Rankin, Lancaster	2.02	11.90	6.16	32.4	32.5
4093 Shelby Feed & Seed Co., Shelbyville	1.96	12.20	6.18	32.4	32.7
4504 Farmers Supply Co., Morganfield	2.11	12.00	6.21	32.4	32.9
4505 Trenton Hdw. Co., Trenton	2.12	11.70	6.16	32.4	32.4
4535 H. T. Roberts, Frenchburg	2.14	<u>12.43</u>	6.45	32.4	33.7
0-14-7 (Muriate) V-C					
4180 Robinson Implement Co., Princeton	....	<u>13.05</u>	6.83	29.8	38.5
4596 Farmers Supply Co., Morganfield	....	<u>14.20</u>	7.96	29.8	31.0
0-12-12 (Muriate) V-C					
3788 Miss Agnes Davis, Russellville	....	11.80	11.93	32.4	32.1
4094 Shelby Feed & Seed Co., Shelbyville	....	12.33	12.03	32.4	32.8
4096 Johnson Brothers, Lexington	....	11.93	12.39	32.4	32.7
4432 Sanders & Rankin, Lancaster	....	12.35	<u>11.36</u>	32.4	32.2
4597 Farmers Supply Co., Morganfield	....	12.60	<u>12.54</u>	32.4	33.7
0-12-12 (Muriate) with 5# borax per 100#					
4181 Miss Agnes Davis, Russellville	....	12.53	11.25	32.4	32.3
4571 Gorman-Brown Hdw. Co., Flemingsburg	....	12.75	<u>12.27</u>	32.4	33.6

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949
 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 Corp., Continued					
20% Superphosphate V-C					
3789 Ralph Berry, Port Royal	20.13	....	26.0	26.2
3790 Dyche Jones, London	20.00	....	26.0	26.0
3791 H. T. Roberts, Frenchburg	20.78	....	26.0	27.0
4062 M. G. Williams Impl. Co., Hopkinsville	19.75	....	26.0	25.7
4063 Elliott & Witt, Irvine	19.90	....	26.0	25.9
4064 Farmers Supply Co., Cadiz	19.65	....	26.0	25.6
4065 Miss Agnes Davis, Russellville	19.93	....	26.0	25.9
4137 Cottingham Grain Co., Henderson	19.88	....	26.0	25.8
4347 Hardin Kenmon, Clay City	20.48	....	26.0	26.6
4348 Vitatoc's General Store, Monticello	19.95	....	26.0	25.9
4262 U. L. Rogers, Columbia	20.05	....	26.0	26.1
4433 Sam Nahm & Son, Bowling Green	20.63	....	26.0	26.8
4506 U. L. Rogers, Columbia	20.05	....	26.0	26.2
4507 Trenton Hardware Co., Trenton	19.98	....	26.0	26.0
4557 Grayson Milling Co., Grayson	20.35	....	26.0	26.5
4536 H. T. Roberts, Frenchburg	20.05	....	26.0	26.1
4584 Hardin County Milling Co., Elizabethtown	20.30	....	36.0	26.4
18% Superphosphate V-C					
4066 Young Lumber Co., Beaver Dam	18.23	....	23.4	23.7
4067 Seiler Feed Store, Marion	18.03	....	23.4	23.4
16% Nitrate of Soda V-C					
3792 Bell County Supply Co., Middlesboro	16.20	....	....	48.0	48.6
33.50% Ammonium Nitrate V-C					
4508 H. T. Roberts, Frenchburg	33.92	....	....	67.0	67.8
50% Muriate of Potash V-C					
4509 H. T. Roberts, Frenchburg	50.88	45.0	45.8
21.50% Sulfate of Potash Magnesia V-C					
4068 Knox County Supply Co., Barbourville	21.64	43.0	43.3

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Table 4 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, etc.,
July - December 1949

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Phosphoric Acid				Index of relative value	
	Available		Total		Guar.	Found
	Guar.	Found	Guar.	Found		
J. C. ADDERLEY & ASSOCIATES, Molino, Florida.						
Florida Waste Pond Phosphate						
3550 Curtis E. George, Princeton	....	....	20.00	16.65	10.0	8.3
3551 Boyd Satterfield, Princeton	....	....	20.00	20.95	10.0	10.5
4474 Curtis E. George, Princeton	....	....	20.00	21.75	10.0	10.9
THE AMERICAN CYANAMID COMPANY New York 20, N. Y.						
Florida Natural Phosphate "Aero-Phos Brand"						
3571 W. C. Turner, Greensburg	3.00	5.20	33.00	33.60	16.5	16.8
3878 Taylor's Farm Service, Beattyville	3.00	3.65	33.00	33.25	16.5	16.6
4356 Farmers Cooperative Store, Owensboro	3.00	3.10	33.00	33.10	16.5	16.6
4357 Garrard Farmers Supply, Lancaster	3.00	3.35	33.00	33.15	16.5	16.6
THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, Cincinnati, Ohio						
Ground Phosphate Rock						
4435 Morganfield Hdw. Co., Morganfield	3.00	2.80	30.00	31.50	15.0	15.8
MIDWEST PHOSPHATE COMPANY, Joliet, Ill.						
Rock Phosphate						
4334 W. B. Davis & Sons, Kevil	....	....	30.00	31.25	15.0	15.6
ROBIN JONES PHOSPHATE COMPANY, Nashville, Tenn.						
Rock Phosphate "Arrow Brand"						
4021 Logan County Seed Co., Russellville	2.00	2.75	30.00	30.40	15.0	15.2
4022 Graves County Soil Imp. Asso., Mayfield	2.00	2.25	30.00	30.00	15.0	15.0
4486 Henderson Feed & Com. Co., Henderson	2.00	2.70	30.00	30.60	15.0	15.3
4530 Mayfield Sweet Feed Mill, Mayfield	2.00	2.65	30.00	30.50	15.0	15.3
RUHM PHOSPHATE & CHEMICAL COMPANY, Mt. Pleasant, Tenn.						
Phosphate Rock Ruhm's Red Seal Brand						
3846 Cayce-Yost Co., Hopkinsville	....	....	30.00	30.20	15.0	15.1
3847 Calloway Co. Soil Imp. Asso., Murray	....	....	30.00	30.65	15.0	15.4
3848 T. E. Alexander, Ravenna	....	....	30.00	30.20	15.0	15.1
4088 C. M. Probus, Lebanon	....	....	30.00	29.95	15.0	15.0
4340 Yopp Seed Co., Paducah	....	....	30.00	30.55	15.0	15.3
4421 Robert Mahaffey, Green Hall	....	....	30.00	29.80	15.0	14.9
4422 Harralson Seed Co., Owensboro	....	....	30.00	30.00	15.0	15.0
4488 C. M. Probus, Lebanon	....	....	30.00	30.00	15.0	15.0
4487 Farmers Supply Co., Morganfield	....	....	30.00	30.00	15.0	15.0

COMMERCIAL FERTILIZERS IN KENTUCKY, 1949

Table 4 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, etc.,
July - December 1949

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		
SCHROCK FERTILIZER SERVICE, Longville, Ill.						
Phosphate Rock "Schrock" Ground						
4023 Crafton Bros. Feed Store, Henderson	....	....	34.00	32.95	17.0	16.5
3741 Bi-County Farm Bureau Co-op., Erlanger	....	....	33.00	33.10	16.5	16.6
TENNESSEE COAL, IRON & RAILROAD CO., Birmingham, Ala.						
Basic Slag, Low Grade Open Hearth						
4258 Shipp & Allen, Campbellsville	....	....	8.00	11.40	8.0	11.4
THOMSON PHOSPHATE COMPANY, Chicago, Illinois.						
Rock Phosphate "Four Leaf Brand" Florida						
3548 H. T. Roberts, Frenchburg	2.00	4.75	31.00	31.35	15.5	15.7
3549 Clay County Farm Service, Manchester	2.00	4.75	31.00	31.30	15.5	15.7
3860 Triplett's Store, South Corbin	2.00	4.30	31.00	32.30	15.5	16.2
3861 J. A. Oldfield, Mize	2.00	4.05	31.00	31.10	15.5	15.6
3862 Geo. Allen, Harrodsburg	2.00	4.15	31.00	31.70	15.5	15.9
4190 Dewitt Steele, Ashland	2.00	6.55	31.00	31.05	15.5	15.5
4426 Lewis Skaggs, Ashland	2.00	3.85	31.00	31.45	15.5	15.7
4533 Ernest Neal, Paintsville	2.00	4.20	31.00	31.85	15.5	15.9
4595 Ernest Neal, Paintsville	2.00	3.80	31.00	30.80	15.5	15.4
Rock Phosphate "Four Leaf Brand" Powdered						
3863 Simpson Co. Farmers Co-op., Franklin	2.00	4.00	30.00	29.20	15.0	14.6
3864 Geo. Patmor & Son, Marion	2.00	3.25	30.00	29.45	15.0	14.7
3865 R. D. Adams, London	2.00	2.75	30.00	28.70	15.0	14.4
4135 Farm Service Co-op., Henderson	2.00	4.35	30.00	29.75	15.0	14.9
4427 R. D. Adams, London	2.00	2.85	30.00	30.10	15.0	15.1
4500 Farm Service Co-op., Henderson	2.00	3.00	30.00	29.90	15.0	15.0
4554 Geo. Patmor & Son, Marion	2.00	2.55	30.00	29.90	15.0	15.0

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Table 5 - Bones, Dried Manures, etc., July - December 1949

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Total Nitrogen	Total Phosphoric Acid	Potash	Index of Relative Value	
				Guar.	Found
ARMOUR FERTILIZER WORKS, Cincinnati, O., Nashville, Tenn., Jeffersonville, Ind.					
1.50-1-2.50 Sheep Manure 3596 Home Fruit Company, Harlan	1.55	1.50	2.31	12.5	13.1
KNOXVILLE FERTILIZER COMPANY, Knoxville & Nashville, Tenn., London, Ky.					
3.70-21.50-0 Raw Bone Meal 3995 Manufacturer's warehouse	<u>2.44</u>	24.00	....	43.7	<u>38.6</u>
SEWERAGE COMMISSION, Milwaukee, Wisconsin.					
6-2.75-0 "Milorganite" 4191 Willoughby Supply Company, Richmond	5.93	2.80	....	38.8	38.4
THE PULVERIZED MANURE COMPANY, Chicago 9, Ill.					
2-1-1 Cow Manure "Wizard Brand" 4580 Sphar & Co., Winchester	2.19	0.95	1.66	14.0	15.8