

# ANALYSES OF OFFICIAL FERTILIZER SAMPLES

by the

FEED AND FERTILIZER DEPARTMENT

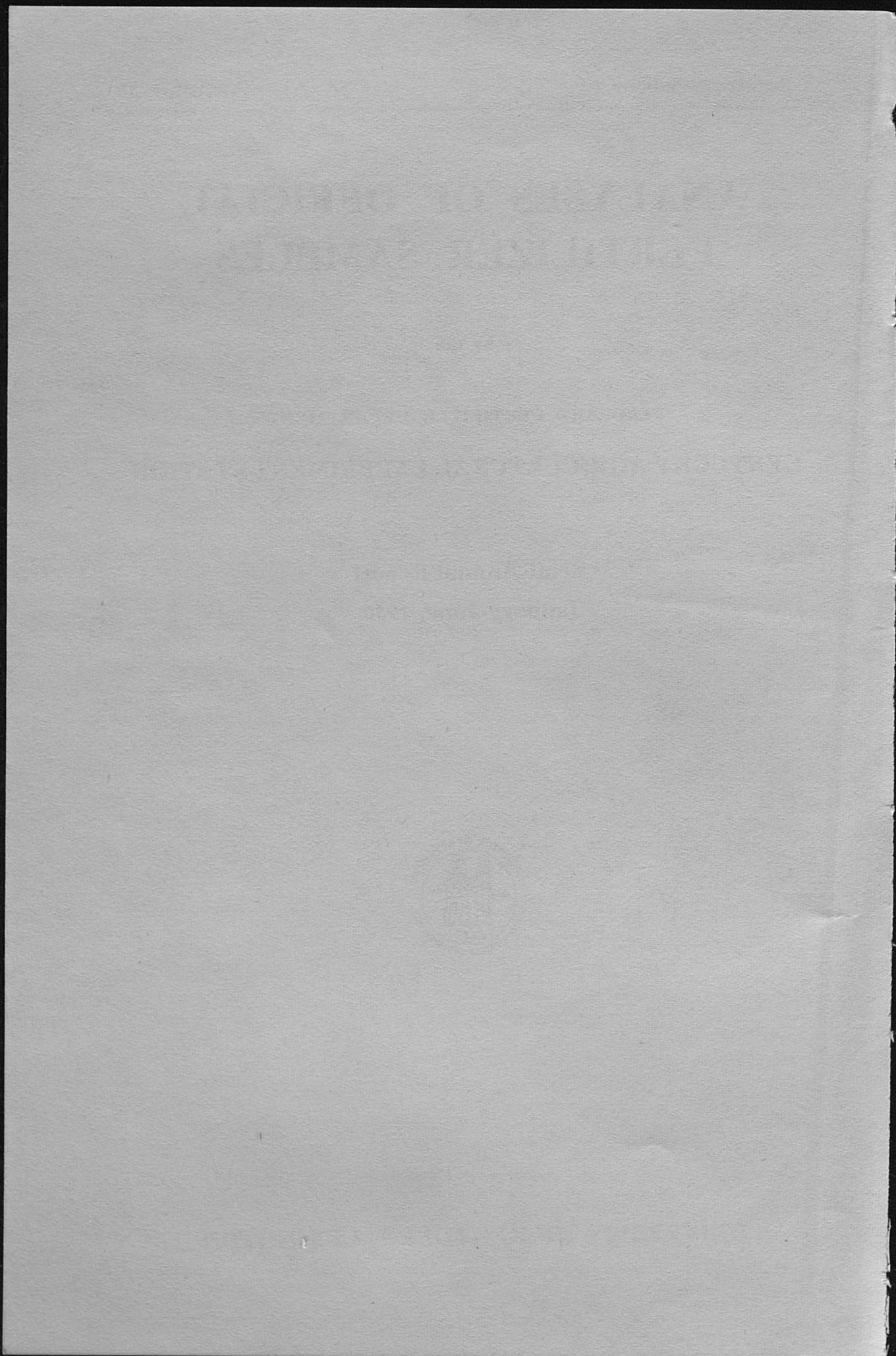
KENTUCKY AGRICULTURAL EXPERIMENT STATION

Semi-Annual Report

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UNIVERSITY OF KENTUCKY, LEXINGTON





## Regulatory Bulletin No. 84

TABLE 1 — Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts

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

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, Cincinnati, Ohio.					
6-10-4 (Muriate)					
5425 J. H. Fedders and Son, Covington	5.83	10.38	4.30	36.0	36.4
6-8-6 (Muriate)					
4885 Rowland Hdw. & Feed Store, Owensboro	5.66	9.15	5.93	35.6	36.2
5179 Norris Hdw. & Seed Co., Henderson	<u>5.69</u>	8.05	6.09	35.6	35.1
6-8-6 (Sulfate)					
4598 Bedford and Tuttle, Winchester	5.93	8.05	6.21	35.6	35.7
4712 Anderson Ice Co., Lawrenceburg	5.98	8.00	5.96	35.6	35.5
4713 John A. Sheehan, Falmouth	5.85	7.75	6.11	35.6	35.1
4792 Monarch Milling Co., Mt. Sterling	5.92	7.90	5.99	35.6	35.3
4793 Mayes & Helm, Perryville	5.30	9.35	6.00	35.6	35.8
4886 Willard Mann, Mariba	<u>5.95</u>	8.28	6.17	35.6	36.0
4969 J. M. Milling Co., Frankfort	5.89	8.15	6.01	35.6	35.6
4970 McDonald & Girdler, Eubank	5.91	8.20	6.13	35.6	35.8
5180 Walters and Thompson, Shelbyville	6.08	7.98	6.22	35.6	36.0
5543 Weisenberger Sanitary Flour Mill, Midway	5.97	8.20	6.09	35.6	35.9
5544 Farmers Supply Co., Danville	<u>5.55</u>	8.98	<u>5.74</u>	35.6	35.6
5-10-10 (Muriate)					
4972 J. W. Davidson, Science Hill	4.68	9.90	9.76	40.0	39.0
5181 L. F. Wellman, Louisa	<u>4.88</u>	9.93	9.96	40.0	39.6
4-12-8 (Muriate)					
4621 Rowland Hdw. & Feed Store, Owensboro	4.04	12.13	8.69	38.4	39.3
4-12-8 (Sulfate)					
4794 Mayes & Helm, Perryville	3.91	12.05	7.87	38.4	38.2
4887 Baughman Milling Co., Stanford	3.58	12.55	8.00	38.4	38.2
4971 J. M. Milling Co., Frankfort	<u>3.59</u>	12.50	7.68	38.4	37.9
5269 Millersburg Coal & Lumber Co., Millersburg	<u>3.83</u>	12.38	<u>7.82</u>	38.4	38.3
5545 Weisenberger Sanitary Flour Mill, Midway	3.92	12.18	8.19	38.4	38.7
4-12-4 (Muriate)					
4622 Rowland Hdw. & Feed Store, Owensboro	3.91	12.75	3.57	34.4	34.7
4714 Anderson Ice Co., Lawrenceburg	3.92	12.30	<u>4.19</u>	<del>34.4</del>	34.8
4795 Fedford & Tuttle, Winchester	3.81	12.10	4.02	34.4	34.2
4796 Mayes & Helm, Perryville	3.92	12.28	4.22	34.4	34.8
5426 Geo. W. Hill, Covington	3.86	12.53	3.99	34.4	34.8
3-9-6 (Muriate)					
4623 Rowland Hdw. & Feed Store, Owensboro	3.29	9.70	<u>5.59</u>	30.8	31.8
5034 Middlesboro Wholesale Co., Middlesboro	2.62	9.55	6.21	30.8	30.9
5182 Norris Hdw. & Seed Co., Henderson	<u>3.07</u>	9.10	5.63	30.8	30.7
5183 L. F. Wellman, Louisa	2.84	9.00	<u>5.95</u>	30.8	30.4
5270 Lebanon Carriage & Impl. Co., Lebanon	2.83	9.03	6.01	30.8	30.5
5427 E. L. Barnes & Son, Princeton	3.02	9.50	5.90	30.8	31.3

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
THE AMERICAN AGRICULTURAL CHEMICAL CO., (Cont'd.)					
2-12-6 (Muriate)					
4973 J. W. Davidson, Science Hill	1.90	<u>11.55</u>	6.04	32.4	31.7
4974 McDonald & Girdler, Eubank	1.87	<u>11.65</u>	6.05	32.4	31.8
5184 L. F. Wellman, Louisa	1.82	<u>11.60</u>	6.18	32.4	31.7
5271 Oldham Feed & Supply Co., Buckner	1.88	<u>11.65</u>	6.01	32.4	31.8
0-14-7 (Muriate)					
5272 Sam Litton, Morehead	....	<u>12.90</u>	6.97	29.8	<u>28.5</u>
0-12-12 (Muriate)					
5428 Morganfield Hdw. Co., Morganfield	....	<u>12.35</u>	12.26	32.4	33.1
18% Superphosphate					
4888 Farmers Supply Co., Danville	....	18.63	....	23.4	24.2
4889 Baughman Milling Co., Stanford	....	17.00	....	23.4	22.1
5273 C. C. Adams, New Castle	....	<u>19.58</u>	....	23.4	<u>25.5</u>
5274 Lebanon Carriage & Impl. Co., Lebanon	....	18.33	....	23.4	23.8
5429 Jones Farm Supply, Corinth	....	18.75	....	23.4	24.4
5546 Johnson Bros. Service Station, Lexington	....	19.08	....	23.4	24.8
AMERICAN CYANAMID CO., New York, N. Y.					
33.50% Ammonium Nitrate "Aeroprills"					
4715 U. L. Rogers, Columbia	33.68	....	....	67.0	67.4
4797 Walker Supply Co., Richmond	33.68	....	....	67.0	67.4
5185 Farmers Co-op Store, Owensboro	33.68	....	....	67.0	67.4
APCO FERTILIZER CO., Halls, Tenn.					
6-8-6 (Muriate) "Super X#5"					
5035 Oakton Cotton Co., Oakton	6.35	8.65	6.80	35.6	37.9
ARMOUR FERTILIZER WORKS, Cincinnati O., Jeffersonville, Ind., Nashville, Tenn.					
10-6-4 (Muriate) "Big Crop Brand"					
4798 S. E. Hale & Son Hdw. Co., Greenville	<u>9.17</u>	6.95	4.31	39.2	39.0
6-8-6 (Muriate) "Big Crop Brand"					
4799 Cadiz Hardware Co., Cadiz	5.91	8.73	6.04	35.6	36.3
4800 H. B. McClary, Auburn	5.11	8.08	9.76	35.6	37.7
4890 McWhorter Produce Co., Albany	<u>5.80</u>	8.78	6.36	35.6	36.5
5430 Ratliff Hardware Co., Princeton	6.24	8.45	5.31	35.6	35.9
5547 Holloway Hardware Co., Wingo	<u>5.66</u>	8.85	<u>6.86</u>	35.6	36.8
6-8-6 (Sulfate) Armour's					
4599 Neal B. Whittaker, Richmond	5.81	8.95	6.36	35.6	36.7
4600 H. B. McClary, Auburn	5.88	8.73	6.34	35.6	36.6
4609 The Peoples Store, Owingsville	6.00	8.70	6.14	35.6	36.6
4624 D. H. Tate, Monticello	5.93	8.55	6.07	35.6	36.2
4640 Burgin Supply Co., Burgin	5.75	8.10	6.26	35.6	35.5
4681 Rock Farm Center, Munfordville	5.89	8.73	6.10	35.6	36.4
4682 Sphar and Co., Winchester	5.93	8.70	6.14	35.6	36.4
4683 Forbes Hardware Co., Hopkinsville	6.20	8.05	6.29	35.6	36.4
4684, Bullock and Bullock, Mt. Vernon	5.75	8.75	6.24	35.6	36.2



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Table 1 - 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
ARMOUR FERTILIZER WORKS, (Cont'd.)					
6-8-6 (Sulfate) Armour's (Cont'd.)					
4716 Ryle and Hambrick, Burlington	5.87	8.70	5.96	35.6	36.1
4801 Ravenna Grocery, Ravenna	5.77	8.65	6.15	35.6	36.1
4802 Quality Grocery & Hdw. Co., Greenville	6.10	8.23	6.26	35.6	36.3
4891 W. D. Cunningham, Webb's Cross Roads	6.00	8.30	6.21	35.6	36.2
4892 G. M. Haycraft & Son, Leitchfield	6.04	8.35	6.15	35.6	36.3
4975 Butts Milling Co., Fulton	5.76	8.78	5.93	35.6	36.0
5106 John B. Penn, Georgetown	6.02	8.65	6.19	35.6	36.6
5107 Skelton's General Store, Shelbyville	5.72	9.13	5.98	35.6	36.4
5108 Prent and Co., Paris	5.92	8.78	6.33	35.6	36.7
5186 Brown Auto & Electric Co., West Liberty	6.04	8.85	6.34	35.6	37.0
5275 Globmyer Lumber & Coal Co., Carrollton	5.72	9.03	6.18	35.6	36.5
5276 Farmers Supply Co., Eminence	5.63	8.55	7.09	35.6	36.6
5431 Luther Reed, Caney	5.84	9.18	6.78	35.6	37.5
5432 Fayette Coal & Feed Co., Lexington	6.06	8.95	6.45	35.6	37.3
5433 Farmers Supply Co., Hodgenville	6.06	9.10	6.10	35.6	37.1
5-10-16 (Sulfate) Armour's					
4717 Peck's Farm Supply, Sharpsburg	4.90	10.70	15.82	46.0	46.5
5109 Brent and Co., Paris	4.86	10.85	15.80	46.0	46.5
5277 Smith & Barnett, Campbellsburg	4.82	10.20	15.85	46.0	45.7
5-10-5 (Muriate) "Vertagreen Brand"					
4805 S. E. Hale & Son Hdw. Co., Greenville	5.09	11.10	4.93	35.0	36.4
5278 J. C. Everett & Co., Maysville	5.19	10.45	5.51	35.0	36.4
5548 Pineville Fruit Store, Pineville	4.90	10.90	5.55	35.0	36.4
5-10-5 (Sulfate) Armour's "Vertagreen Brand"					
4803 Ravenna Grocery, Ravenna	5.03	10.88	7.16 <sup>a</sup>	35.0	38.3
4804 Camargo Farmers Supply, Camargo	5.13	10.55	5.25 <sup>b</sup>	35.0	36.2
5110 Brent & Co., Paris	5.23	11.50	6.27 <sup>b</sup>	35.0	38.5
5549 Pineville Fruit Store, Pineville	4.85	11.53	4.76 <sup>c</sup>	35.0	36.3
4-12-8 (Muriate) "Big Crop Brand"					
4685 Butterworth-Seed Co., Mayfield	4.11	12.15	8.43	38.4	39.2
4806 Quality Grocery & Hdw. Co., Greenville	4.08	12.10	8.26	38.4	38.9
4-12-8 (Sulfate) Armour's					
4641 Edgar Skelton Gen. Mdse., Shelbyville	3.89	12.20	7.82	38.4	38.2
4718 J. F. Bertam and Son, Vanceburg	4.01	12.85	7.82	38.4	39.3
4808 A. A. Clay & Son, Winchester	3.98	12.80	7.67	38.4	39.0
4893 G. M. Haycraft & Son, Leitchfield	3.73	12.15	7.93	38.4	38.0
4894 W. D. Cunningham, Webb's Cross Roads	4.28	12.53	7.95	38.4	39.6
5111 Fulkerson Brothers, Sonora	3.70	12.78	7.74	38.4	38.5
5112 T. E. Clausen, Bonnieville	3.83	12.88	8.23	38.4	39.4
5279 Logan Bryan Feed Co., North Middletown	4.10	12.50	7.96	38.4	39.2
5280 Watkins Brothers, Smithfield	3.90	11.95	8.46	38.4	38.6
5281 J. C. Everett & Co., Maysville	4.10	11.90	7.58	38.4	38.1
5435 Hulett Hardware Co., Williamstown	3.85	12.75	7.31	38.4	38.3

a. Excess muriate equivalent to 1.97 per cent potash

b. " " " " 2.11 " " "

c. " " " " 3.50 " " "

Analyses of Official Fertilizer Samples

Table 1 - 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, (Cont'd.)					
4-12-8 (Sulfate) Armour's "Vertagreen Brand"					
4807 Peck's Farmers Supply, Sharpsburg	4.01	12.50	7.74	38.4	38.8
5036 Southern States Co-op., Bowling Green	4.01	11.95	<u>7.58</u>	38.4	37.9
5187 G. M. Haycraft & Son, Leitchfield	4.48	12.75	<u>9.12</u>	38.4	41.4
5434 Fayette Coal & Feed Co., Lexington	4.23	12.55	<u>7.74</u>	38.4	39.3
5550 Anderson & Spilman, Danville	4.09	12.78	<u>7.76</u>	38.4	39.3
5551 Butterworth Seed Company, Mayfield	4.10	12.90	8.60	38.4	40.3
5552 Stock Yard Feed Store, Louisville	4.24	12.18	<u>7.63</u>	38.4	38.7
4-12-4 (Muriate) "Big Crop Brand"					
4601 H. B. McClary, Auburn	4.02	12.48	3.76	34.4	34.8
4652 Cave City Ice & Coal Co., Cave City	4.01	12.15	5.09	34.4	35.7
4809 Ravenna Grocery, Ravenna	4.01	12.55	4.36	34.4	35.4
4976 Farmers Supply Co., Whitesburg	4.05	12.15	4.10	34.4	34.8
5113 J. T. Beard Feed Store, Crofton	4.00	12.45	3.80	34.4	34.7
5438 Keller Hay & Grain Co., Newport	3.99	12.35	4.10	34.4	34.9
5439 John Adams, Jeff	3.96	12.48	4.83	34.4	35.7
5440 Seth Ferguson Gen. Store, Crayne	<u>3.68</u>	12.00	4.42	34.4	34.2
4-12-4 (Muriate) "Old Black Joe Brand"					
5282 Slaughters Mercantile Co., Slaughters	3.93	13.15	4.44	34.4	36.1
5436 Hatter Hardware Co., Franklin	4.03	12.15	4.61	34.4	35.3
5437 Kuttawa Milling Co., Kuttawa	4.19	13.00	4.22	34.4	36.2
5553 Farmers Service Store, Jamestown	3.95	12.20	4.30	34.4	34.8
5554 W. D. Cunningham, Webb's Cross Roads	3.97	12.18	4.23	34.4	34.8
4-12-4 (Sulfate) Armour's					
4650 Barren County Hardware Co., Glasgow	4.12	12.95	4.45	34.4	36.2
4651 Cave City Ice & Coal Co., Cave City	4.10	12.85	5.15	34.4	36.8
4810 Ravenna Grocery, Ravenna	3.96	12.25	7.20	34.4	37.8
4895 Thompson's Wholesale Grocery, Booneville	3.95	12.25	4.11	34.4	34.7
5037 Jellico Grocery, Barbourville	4.04	12.03	4.44	34.4	35.0
5114 J. A. Bennett Hdw. Co., Taylorsville	3.80	12.18	5.74	34.4	36.0
5115 Bale Hardware Co., Horse Cave	3.61	12.48	5.56 <sup>d</sup>	34.4	35.8
5116 Brent & Co., Paris	<u>3.91</u>	12.43	4.13	34.4	34.9
5188 Brown Auto & Elec. Co., West Liberty	3.88	11.98	4.48	34.4	34.6
5555 W. A. Herrick & Son, Simpsonville	3.97	12.98	4.64	34.4	36.2
2-12-12 (Muriate) "Big Crop Brand"					
5038 George Patmor & Son, Marion	3.79	12.30	<u>10.41</u>	40.4	40.8
5441 Keller Hay & Grain Co., Newport	2.99	11.93	<u>12.99</u>	40.4	41.3
3-12-12 (Sulfate) Armour's					
4896 Farmers Service Station, Jamestown	3.14	12.45	<u>11.39</u>	40.4	40.6
3-12-6 (Muriate) "Old Black Joe Brand"					
4686 N. T. Nuckols, Elkton	2.96	12.45	5.88	34.4	34.7
4687 Bullock & Bullock, Mt. Vernon	2.94	12.05	6.16	34.4	34.5
4719 Cincinnati Grain & Hay Co., Covington	3.22	12.95	6.57	34.4	36.6
4811 Hatter Hardware Co., Franklin	3.18	12.50	6.13	34.4	35.5
4812 Ravenna Grocery, Ravenna	2.95	12.00	6.58	34.4	34.9
4813 Quality Grocery & Hdw. Co., Greenville	2.99	12.13	6.04	34.4	34.6
4897 Gibson Produce Co., Monticello	3.64	<u>11.55</u>	5.87	34.4	35.0
4977 Robinson Milling Co., Somerset	3.07	<u>11.90</u>	6.45	34.4	34.9

d. Excess muriate equivalent to 0.58 per cent potash



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Table 1 - 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
ARMOUR FERTILIZER WORKS, (Cont'd.)					
5039 Laswell Milling Co., Brodhead	3.18	12.35	6.34	34.4	35.5
5283 Ralph Berry, Port Royal	2.99	12.40	6.05	34.4	34.9
5284 Carl Bartley, Beaumont	2.93	12.08	6.35	34.4	34.7
5442 L. H. Gilley Grocery, Lecta	2.80	12.10	6.68	34.4	34.8
5556 Watkins Wholesale Co., East Bernstadt	3.19	12.30	6.72	34.4	35.9
3-9-6 (Muriate) "Big Crop Brand"					
4688 Bullock & Bullock, Mt. Vernon	2.85	9.50	6.62	30.8	31.7
4815 Ravenna Grocery, Ravenna	2.89	9.15	6.58	30.8	31.3
4816 H. B. McClary, Auburn	2.97	9.73	6.50	30.8	32.1
4817 Camargo Farmers Supply, Camargo	3.08	9.73	6.13	30.8	32.0
4898 Thompson's Wholesale Grocery, Booneville	3.16	9.88	6.50	30.8	32.7
4978 Riley's Grocery, Mayfield	3.05	9.05	5.74	30.8	30.7
4979 Robinson Milling Co., Somerset	3.03	9.50	6.05	30.8	31.5
5117 J. A. Bennett, Taylorsville	3.06	9.48	5.93	30.8	31.4
5285 S. E. Hale & Son, Greenville	2.95	9.15	5.65	30.8	30.5
5443 L. C. Orndorff, Adairville	3.01	10.45	5.99	30.8	32.6
5444 Howard Wholesale Co., Allen	3.07	9.03	6.31	30.8	31.3
5557 Ross Feed Co., Murray	3.17	9.18	6.22	30.8	31.6
5558 Hester & Porter Motor Co., Hustonville	3.06	9.78	7.28	30.8	33.1
5559 W. D. Cunningham, Webb's Cross Roads	3.00	9.33	6.48	30.8	31.7
3-9-6 (Sulfate) Armour's					
4610 The Peoples Store, Owingsville	2.95	9.45	6.18	30.8	31.4
4611 N. S. Dudley & Son, Flemingsburg	2.95	9.15	6.32 <sup>e</sup>	30.8	31.2
4625 Irvington Truck Lines, Irvington	2.90	9.42	6.04	30.8	31.1
4653 Cave City Ice & Coal Co., Cave City	2.76	9.10	5.91	30.8	30.4
4720 J. F. Bertram & Son, Vanceburg	2.96	9.70	6.29	30.8	31.9
4814 S. E. Hale & Son, Greenville	3.07	9.35	5.96	30.8	31.3
5118 J. A. Bennett Hdw. Store, Taylorsville	2.98	8.75	7.84	30.8	32.3
5119 Brent & Co., Paris	3.12	9.15	6.07	30.8	31.3
5189 Stamper Wholesale Co., Grassy Creek	2.91	9.85	5.99	30.8	31.6
5286 Fred Bishop, Owenton	2.83	9.98	5.65	30.8	31.3
5287 Keith & Lykins, Springdale	2.97	9.25	5.85	30.8	30.9
5288 Penn & Ratcliffe, Campbellsville	3.13	8.75	7.92	30.8	32.7
5289 E. H. Froedge, Summer Shade	3.01	8.90	7.87	30.8	32.6
5560 Jellico Grocery, Barbourville	3.12	9.85	5.85	30.8	31.9
5561 Saufley & Bell, Stanford	3.02	9.05	7.73	30.8	32.6
5562 Smith & Jackson, Cropper	3.14	9.43	6.94 <sup>f</sup>	30.8	32.5
2-12-6 (Muriate) "Big Crop Brand"					
4626 Irvington Truck Lines, Irvington	2.00	12.20	6.53	32.4	33.2
4654 Gid Hollingsworth & Co., Tompkinsville	2.06	12.00	6.78	32.4	33.3
4655 Glasgow Trading Center, Glasgow	1.97	12.33	6.42	32.4	33.2
4818 Cadiz Hardware Co., Cadiz	2.18	12.03	5.82	32.4	32.6
4819 Mitchell Implement Co., Princeton	2.21	12.28	5.88	32.4	33.0
5120 Bales Hardware Co., Horse Cave	1.94	12.28	6.27	32.4	32.9
5121 Irvington Truck Lines, Irvington	1.87	12.15	6.45	32.4	32.8
5190 Jerome Glass, Grayson	2.03	12.15	6.08	32.4	32.7
5191 Cash & Carry, Salyersville	2.20	12.23	6.27	32.4	33.4
5445 Keller Hay & Grain Co., Newport	2.07	12.35	6.32	32.4	33.3
5563 Stock Yards Feed Store, Louisville	1.98	12.00	6.35	32.4	32.7

e. Excess muriate equivalent to 1.05 per cent potash

f. " " " " 0.54 " " "

Analyses of Official Fertilizer Samples

Table 1 - 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
ARMOUR FERTILIZER WORKS, (Cont'd.)					
0-14-7 (Muriate) "Big Crop Brand"					
5564 H. L. Sparks and Co., N. Pleasureville	....	13.80	7.29	29.8	29.9
4870 H. B. McClary, Auburn	....	14.08	7.65	29.8	30.6
20% Superphosphate "Big Crop Brand"					
4721 J. L. O'Bryan, Hopewell	....	20.25	....	26.0	26.3
4820 Cadiz Hardware Co., Cadiz	....	20.25	....	26.0	26.3
4899 Harralson Seed Co., Owensboro	....	20.03	....	26.0	26.0
4900 Saufley & Bell, Stanford	....	20.10	....	26.0	26.1
4901 Thompson's Wholesale Grocery, Booneville	....	20.15	....	26.0	26.2
4980 G. C. Cornette, Cumberland	....	20.85	....	26.0	27.1
4981 John Spurlock & Co., McKee	....	19.98	....	26.0	26.0
4982 Peoples General Store, Paint Lick	....	20.18	....	26.0	26.2
5040 Big 4 Feed & Impl. Co., Scottsville	....	20.58	....	26.0	26.8
5192 Goodman Brothers, Shelbyville	....	19.98	....	26.0	26.0
5193 Stamper Wholesale Co., Grassy Creek	....	20.35	....	26.0	26.5
5290 Penn & Ratcliffe, Campbellsville	....	20.70	....	26.0	26.9
5291 Farmers Supply Co., Eminence	....	20.00	....	26.0	26.0
5292 Sewell & Co., Waterview	....	20.40	....	26.0	26.5
5293 W. L. Ambrose Gen. Mdse., Beech Grove	....	19.13	....	26.0	24.9
5446 Henry Northcutt, Williamstown	....	21.20	....	26.0	27.3
5565 T. G. Smithers, Bagdad	....	20.05	....	26.0	26.1
16% Nitrate of Soda					
4821 Ravenna Grocery, Ravenna	16.04	....	....	48.0	48.1
4983 G. C. Cornette, Cumberland	16.00	....	....	48.0	48.0
33.50% Ammonium Nitrate					
5041 C. E. Herrin, Willailla	33.60	....	....	67.0	67.2
ASSOCIATED COOPERATIVES, INC., Sheffield, Alabama.					
48% Superphosphate					
4822 Simpson Farmers Cooperative, Franklin	....	47.50	....	62.4	61.8
5194 Southern States Co-op., Shelbyville	....	48.75	....	62.4	63.4
47% Superphosphate					
4627 Farmers Supply Co., Monticello	....	46.78	....	61.1	60.8
4823 Southern States Co-op., Russellville	....	46.48	....	61.1	60.4
5042 Southern States Co-op., London	....	46.88	....	61.1	60.9
5043 Stewart & Co., Munfordville	....	48.00	....	61.1	62.4
5195 Farmers Co-op Store, Owensboro	....	47.30	....	61.1	61.5
5294 Southern States Co-op., Maysville	....	47.73	....	61.1	62.2
5447 Farmers Supply Co., Paintsville	....	49.58	....	61.1	64.5
46% Superphosphate					
4612 Southern States Co-op., Flemingsburg	....	46.80	....	59.8	60.8
4722 Southern States Co-op., Lebanon	....	46.75	....	59.8	60.8
33% Ammonium Nitrate					
4723 Owingsville Farmers Supply, Owingsville	32.92	....	....	66.0	65.8
THE BARRETT DIV., ALLIED CHEMICAL & DYE CORP., New York 6, N. Y.					
16% Nitrate of Soda - Arcadian the American					
4724 Bentley Brothers, Garrison	16.32	....	....	48.0	49.0



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Table 1 - 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 BARRETT DIV., ALLIED CHEMICAL & DYE CORP., (Cont'd.)					
33.50% Ammonium Nitrate					
5566 Hobert & Milton Roberts, Monticello	33.68	....	....	67.0	67.4
BLUE GRASS PLANT FOODS, INC., Cynthiana, Ky.					
6-8-6 (Sulfate) "Bluegrass Brand"					
4824 Walker Supply Co., Richmond	5.83	8.70	5.98	35.6	36.1
4825 Ravenna Grocery, Ravenna	5.77	8.65	5.85	35.6	35.8
5295 Manufacturer's warehouse	5.84	8.28	6.35	35.6	36.0
5448 Mountain Dew Coal Co., Lexington	5.83	8.40	6.32	35.6	36.1
6-8-6 (Muriate 3, Sulfate 3) "Bluegrass Brand"					
4725 Louisa Grocery, Louisa	6.00	8.28	6.13	35.6	36.1
4826 Walker Supply Co., Richmond	6.07	8.28	6.01	35.6	36.1
5296 Floyd S. Barlow, Cynthiana	5.90	8.60	6.21	35.6	36.3
5-10-5 (Muriate) "Bluegrass Brand"					
5449 Letcher Grocery Co., Whitesburg	4.98	10.10	5.29	35.0	35.4
4-12-8 (Sulfate) "Bluegrass Brand"					
4827 Ravenna Grocery, Ravenna	4.31	12.35	8.03	38.4	39.5
4828 Walker Supply Co., Richmond	4.27	11.93	8.08	38.4	38.9
4984 C. T. Ashley & Co., Nicholasville	4.15	12.33	7.64	38.4	38.7
5297 Floyd G. Barlow, Cynthiana	4.26	12.35	7.99	38.4	39.3
5450 Mountain Dew Coal Co., Lexington	4.26	12.55	8.17	38.4	39.8
4-12-8 (Muriate 4, Sulfate 4)					
4726 Union Grocery, Morehead	4.14	12.15	8.18	38.4	39.0
5298 Manufacturer's warehouse	4.01	12.10	8.10	38.4	38.6
4-10-6 (Muriate 3, Sulfate 3) "Bluegrass Brand"					
4829 Walker Supply Co., Richmond	4.14	10.23	6.26	34.0	34.8
3-12-12 (Muriate 3, Sulfate 9)					
5299 Floyd G. Barlow, Cynthiana	3.21	12.48	11.74	40.4	41.1
5300 Davis Gillespie, Mayslick	3.41	12.13	11.90	40.4	41.3
3-9-6 (Muriate) "Bluegrass Brand"					
4830 Walker Supply Co., Richmond	3.25	10.35	6.45	30.8	33.4
4902 Letcher Grocery Co., Whitesburg	3.33	9.43	6.68	30.8	32.7
3-9-6 (Sulfate)					
5301 Manufacturer's warehouse	3.15	9.13	5.94	30.8	31.2
5302 J. H. Myers, Ewing	3.34	9.35	6.06	30.8	32.1
2-12-6 (Muriate) "Bluegrass Brand"					
4727 Stagg Brothers, Vanceburg	2.10	11.93	6.49	32.4	33.0
4831 Ravenna Grocery, Ravenna	2.19	11.93	6.29	32.4	33.0
20% Superphosphate					
5303 Wells Produce Co., Carlisle	....	18.98	....	26.0	24.7
5567 Harrison Bros. Farm Supply, Berea	....	18.88	....	26.0	24.5
21.50% Sulfate of Potash Magnesia					
4832 Walker Supply Co., Richmond	....	....	22.10	43.0	44.2
4903 Southern States Co-op., Danville	....	....	21.70	43.0	43.4
5304 Davis Gillespie, Mayslick	....	....	22.04	43.0	44.1

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
<b>BUHNER FERTILIZER COMPANY,</b> Seymour, Indiana.					
6-8-6 (Muriate) Buhner's 5568 Sellers Hardware Store, Okolona	<u>5.60</u>	8.43	6.63	35.6	36.0
6-8-6 (Sulfate) Buhner's 4833 J. L. Wilson, Canmer	5.29	8.83	6.21	35.6	35.4
5196 Buhner & Co., Louisville	<u>5.39</u>	8.70	<u>5.59</u>	35.6	34.8
5305 Kratzer Supply Co., Mt. Sterling	<u>5.31</u>	8.70	<u>5.69</u>	35.6	34.8
5306 J. W. Settle Feed Store, Frankfort	<u>5.46</u>	8.95	<u>5.82</u>	35.6	35.5
5307 Rizer Brothers, Bardstown	<u>5.18</u>	8.83	6.16 <sup>g</sup>	35.6	35.1
5451 Cann's Feed Store, Clarkson	<u>5.09</u>	8.90	5.95	35.6	34.8
5569 Shepherdsville Feed Mill, Shepherdsville	<u>5.41</u>	8.33	5.96	35.6	34.8
4-12-8 (Muriate) Buhner's 5570 Joe Fister, Lexington	4.06	<u>11.70</u>	8.26	38.4	38.4
3-9-6 (Muriate) Buhner's 5122 Paul Brite's Mill, Hardinsburg	2.60	8.63	7.30	30.8	30.9
5197 Buhner & Co., Louisville	<u>3.08</u>	<u>8.58</u>	6.21	30.8	30.7
5308 J. W. Settle Feed Store, Frankfort	3.01	<u>8.98</u>	6.23	30.8	31.0
5309 Mt. Sherman Hdw. Co., Mt. Sherman	3.24	8.95	6.48	30.8	31.7
5571 Diemer Feed Store, Louisville	3.18	9.05	5.96	30.8	31.2
5572 Sellers Hardware Store, Okolona	3.29	9.08	6.13	30.8	31.6
2-12-6 (Muriate) 4834 Bransetter & Edwards, Hardyville	2.09	<u>11.40</u>	6.36	32.4	32.2
5310 Springfield Feed & Grain Co., Springfield	2.13	<u>11.53</u>	6.11	32.4	32.2
5452 Cann's Feed Store, Clarkson	2.33	<u>11.78</u>	6.15	32.4	33.0
5453 Milton Edwards, Hardyville	1.97	<u>11.58</u>	5.95	32.4	31.8
5573 Summer Feed Store, Valley Station	2.56	<u>11.28</u>	6.33	32.4	33.0
5574 Sellers Hardware Store, Okolona	2.10	<u>11.58</u>	5.98	32.4	32.1
5575 Shepherdsville Feed Mill, Shepherdsville	1.97	<u>11.70</u>	6.70	32.4	32.7
<b>CHILEAN NITRATE SALES CORPORATION,</b> New York, N. Y.					
16% Nitrate of Soda "Champion Brand" 4656 H. D. Jones, Glasgow	16.28	....	....	48.0	48.8
4904 Powell-Hackney Grocery, Hazard	16.00	....	....	48.0	48.0
<b>COMMONWEALTH FERTILIZER COMPANY,</b> Russellville, Ky.					
6-8-6 (Muriate) "Indian Head Brand" 5454 Manufacturer's warehouse	<u>5.27</u>	10.25	6.78	35.6	37.6
6-8-6 (Muriate 3, Sulfate 3) "Indian Head Brand" 5455 J. B. Lucas Seed Company, Franklin	5.99	9.53	6.79	35.6	38.2
3-9-6 (Muriate) "Indian Head Brand" 5311 Ruby Distributing Co., Central City	3.16	10.03	6.68	30.8	33.0
5456 Farmers Elevator, Franklin	3.17	10.48	6.52	30.8	33.4

g. Excess muriate equivalent to 0.26 per cent potash



## Regulatory Bulletin No. 84

Table 1 - 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
CONSOLIDATED CHEMICAL CO., DIV. PRICE CHEMICAL CO., Louisville, Ky.					
6-8-6 (Muriate) Camel Brand					
5123 E. M. Woosley Gen. Mdse., Rosine	6.25	8.03	6.69	35.6	36.8
5198 Star Roller Mills, Cloverport	6.26	8.43	6.25	35.6	36.9
5576 Valley Farm Store, Valley Station	5.76	8.08	7.15	35.6	36.4
6-8-6 (Sulfate) Camel Brand					
4835 Rogers Brothers, Owingsville	6.38	8.60	6.72	35.6	37.8
5124 Farm Veterans Co-op., Frankfort	6.20	8.20	6.97	35.6	37.2
3-12-12 (Sulfate) Camel Brand					
5312 Haydon Coal & Oil Co., Springfield	3.15	12.13	12.41	40.4	41.3
3-9-6 (Muriate) Camel Brand					
5577 Stockton Brothers, Albany	3.22	9.00	6.63	30.8	31.9
2-12-6 (Muriate) Camel Brand					
4905 Farmers Supply Center, Leitchfield	2.59	11.90	6.55	32.4	34.0
5457 Tuxedo Feed Store, Hodgenville	2.65	11.93	6.84	32.4	34.5
COOPERATIVE FERTILIZER SERVICE, Winchester, Ky.					
6-8-6 (Muriate) "Service Quality Open Formula"					
4836 Southern States Co-op., Morganfield	6.03	8.23	6.23	35.6	36.2
5313 Morgan Farmers Store, West Liberty	6.29	8.35	6.33	35.6	36.9
5314 Southern States Co-op., Flemingsburg	6.03	8.43	6.44	35.6	36.6
5458 Morrison & Wallace, Hodgenville	6.36	8.65	6.55	35.6	37.7
5578 Southern States Co-op., Fulton	6.08	8.48	6.52	35.6	36.9
6-8-6 (Sulfate) "Service Quality Open Formula"					
4613 Southern States Cooperative, Carlisle	6.15	8.55	6.39	35.6	37.0
4642 Southern States Co-op., Harrodsburg	6.09	7.93	6.18	35.6	35.9
4657 Deaton Brothers, Jackson	5.96	8.43	6.25	35.6	36.3
4689 Southern States Co-op., Fulton	6.21	8.58	6.13	35.6	36.9
4728 Southern States Co-op., Henderson	6.16	8.15	6.16	35.6	36.3
4729 Lem Offutt, Maud	5.99	8.60	6.40	35.6	36.7
4837 Camargo Farmers Supply, Camargo	6.12	8.48	6.38	35.6	36.8
4906 Southern States Co-op., Danville	5.96	8.38	6.21	35.6	36.2
5199 Southern States Co-op., Shelbyville	6.10	8.00	6.17	35.6	36.0
5315 Southern States Co-op., LaGrange	6.23	8.25	6.55	35.6	36.9
4-16-8 (Muriate) "Service Quality Open Formula"					
4690 Southern States Co-op., Fulton	4.03	16.45	7.96	43.2	43.8
4907 Farmers Service Store, Jamestown	4.26	14.80	7.81	43.2	42.1
4985 Perry County Farm Supply, Hazard	4.08	16.25	8.16	43.2	43.8
5044 Allen County Farmers Service, Scottsville	4.20	15.53	8.28	43.2	43.3
5200 Meade Farmers Supply, Brandenburg	4.12	15.25	8.46	43.2	43.0
5316 Southern States Co-op., Carlisle	4.10	16.10	8.49	43.2	44.0
5317 Slaughters Mercantile Co., Slaughters	4.10	15.85	8.21	43.2	43.4
5318 Southern States Co-op., Campbellsville	4.21	16.25	8.55	43.2	44.5
5579 Southern States Co-op., Harrodsburg	4.17	15.33	8.35	43.2	43.1
5580 Harlan Farmers Supply, Harlan	4.10	15.50	8.30	43.2	43.1
5581 Lincoln Farm Service, Stanford	4.05	15.90	8.30	43.2	43.5
4-12-8 (Muriate) "Service Quality Open Formula"					
4730 Southern States Co-op., Henderson	4.20	12.35	8.36	38.4	39.6
5319 Southern States Co-op., Carlisle	4.01	13.20	9.18	38.4	42.0
5459 Pike County Hatchery, Pikeville	4.44	12.55	8.85	38.4	40.8

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
COOPERATIVE FERTILIZER SERVICE (Cont'd.)					
4-12-8 (Sulfate) "Service Quality Open Formula"					
4838 Camargo Farmers Supply, Camargo	4.19	11.30	8.28	38.4	38.2
4986 Calloway Co. Soil Imp. Asso., Murray	4.15	11.40	8.25	38.4	38.2
5320 Southern States Co-op., Maysville	4.09	13.23	8.31	38.4	40.4
5460 Southern States Co-op., Cynthiana	4.23	11.85	8.32	38.4	39.0
2-12-6 (Muriate) Open Formula					
4658 Bray & Co., Gamaliel	2.15	11.88	6.55	32.4	33.1
4731 Slaughters Mercantile Co., Slaughters	2.11	11.60	6.32	32.4	32.5
4732 Southern States Co-op., Bardstown	2.18	11.30	6.29	32.4	32.2
4733 Owingsville Farmers Supply, Owingsville	2.12	11.83	6.30	32.4	32.7
4839 Southern States Co-op., Russellville	2.13	11.18	6.15	32.4	31.8
4908 Clinton Farmers Supply, Albany	2.51	12.30	6.38	32.4	34.2
5201 Southern States Co-op., Shelbyville	2.34	12.45	6.89	32.4	34.5
5321 Southern States Co-op., Maysville	2.30	12.25	6.62	32.4	33.9
5322 Slaughters Mercantile Co., Slaughters	2.02	12.05	6.09	32.4	32.6
5461 Pike County Hatchery, Pikeville	2.33	12.63	6.45	32.4	34.3
0-20-20 (Muriate) "Quality Brand"					
4987 Southern States Co-op., Fulton	....	20.70	19.72	50.0	50.6
5202 Southern States Co-op., Shelbyville	....	20.15	20.24	50.0	50.4
5323 Carroll County Farm Bureau, Carrollton	....	20.10	20.08	50.0	50.2
5582 Southern States Co-op., Fulton	....	20.33	20.18	50.0	50.6
0-19-19 (Muriate) with 4 lbs. Borax per 100# "Super Brand"					
5125 Southern States Co-op., Hopkinsville *	....	20.10	19.52	47.8	49.6
5324 Southern States Co-op., Carlisle**	....	19.43	19.56	47.8	48.9
20% Superphosphate					
4659 Southern States Co-op., Bowling Green	....	20.28	....	26.0	26.4
5203 Womack Brothers, Grayson	....	19.98	....	26.0	26.0
CUMBERLAND CHEMICAL COMPANY, Hopkinsville, Ky.					
6-8-6 (Muriate) Cumberland					
4840 Ratliffe Hardware Co., Princeton	5.78	8.60	6.81	35.6	36.7
5126 Pyles & Goodman, Crofton	5.95	8.90	6.16	35.6	36.7
5204 Nebo Exchange Mill, Nebo	6.14	8.33	7.04	35.6	37.3
5325 Fox Hardware Co., Madisonville	5.90	9.25	6.42	35.6	37.3
6-8-6 (Muriate 3, Sulfate 3) Cumberland					
5326 Ruby Distributing Co., Central City	6.45	8.70	6.10	35.6	37.4
4-12-8 (Muriate 4, Sulfate 4) Cumberland					
5127 Pyles & Goodman, Crofton	4.25	12.15	7.96	38.4	39.0
5583 Trigg County Trading Co., Cadiz	4.26	12.45	8.05	38.4	39.5
2-12-6 (Muriate) Cumberland					
5205 Nebo Exchange Mill, Nebo	2.39	12.58	6.80	32.4	34.7
5327 Smith & Reynolds Co., Slaughters	2.37	12.25	6.83	32.4	34.3
5584 Trigg County Trading Co., Cadiz	2.27	12.80	6.75	32.4	34.7

\* Boron guaranteed 0.45 percent - Found 0.47 percent

\*\* Boron guaranteed 0.45 percent - Found 0.44 percent



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Table 1 - 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, (Cont'd.)					
20% Superphosphate Cumberland					
4841 Ruble's Grocery & Hdw. Co., Fredonia	....	20.50	....	26.0	26.7
4842 Ratliffe Hardware Co., Princeton	....	20.88	....	26.0	27.1
5128 Cayce-Yost Co., Hopkinsville	....	20.35	....	26.0	26.5
5462 Logan County Seed Co., Russellville	....	20.23	....	26.0	26.3
THE DAVISON CHEMICAL CORPORATION, HOPKINS FERT. DIV., New Albany, Indiana					
6-8-6 (Muriate) Hopkins Old Time					
4734 Henderson Feed & Commission Co., Henderson	5.96	8.65	6.67	35.6	37.0
4735 Jewell & Hayden Co., Bardstown	6.10	8.35	6.53	35.6	36.8
4909 The Big Store, Harrodsburg	6.02	8.30	6.36	35.6	36.4
5049 C. D. Baldwin, Annville	6.04	8.48	6.48	35.6	36.7
5129 Edmonson County Co-op., Brownsville	5.80	8.38	6.85	35.6	36.5
5206 Buechel Produce Exchange, Buechel	6.22	8.08	6.44	35.6	36.5
5328 D. C. Estill, Frankfort	6.15	8.43	6.56	35.6	37.0
5329 Wm. Schwartz, Mayslick	5.75	8.55	6.70	35.6	36.5
5585 Rural Supply Co., Louisville 16	6.02	8.45	6.70	35.6	36.9
6-8-6 (Sulfate) Hopkins Old Time					
4628 W. S. Allen & Co., Liberty	5.94	8.58	6.37	35.6	36.6
4643 H. H. Veal, Nicholasville	6.14	8.65	6.14	35.6	36.8
4660 R. D. Reynolds, Cave City	6.12	8.50	6.39	35.6	36.8
4691 Craft Grocery, Manchester	6.12	8.45	6.39	35.6	36.8
5050 Lance Dillingham, Mt. Vernon	6.04	8.50	6.32	35.6	36.6
5130 Summerhayes Lumber & Coal Co., Paris	6.00	8.93	6.25	35.6	37.0
5207 Climax Roller Mills, Shelbyville	6.21	8.60	5.85	35.6	36.6
5586 J. H. Young, Bagdad	6.05	9.05	6.41	35.6	37.4
4-12-8 (Muriate) Hopkins Old Time					
5208 Buechel Produce Exchange, Buechel	3.85	12.10	8.33	38.4	38.6
4-12-8 (Sulfate) Hopkins Old Time					
5331 Silas Coulter, Chaplin	3.95	12.45	7.68	38.4	38.5
3-12-12 (Muriate) Hopkins Old Time					
5131 Summerhayes Lumber & Coal Co., Paris	2.84	12.20	12.28	40.4	40.6
3-9-6 (Muriate) Hopkins Old Time					
4692 Beckham Garland, Bimble	3.13	9.35	6.63	30.8	32.1
4988 Wakin Bros. Super Market, Middlesboro	3.02	9.03	6.19	30.8	31.1
2-12-6 (Muriate) Hopkins Old Time					
4644 H. H. Veal, Nicholasville	2.24	11.88	6.70	32.4	33.4
4693 Beckham Garland, Bimble	2.18	12.00	6.75	32.4	33.5
4736 Henderson Feed & Com. Co., Henderson	2.13	12.13	6.68	32.4	33.5
5051 Lance Dillingham, Mt. Vernon	2.17	12.30	5.87	32.4	33.0
5209 Henderson Feed & Com. Co., Henderson	2.16	12.28	6.21	32.4	33.3
5463 Nelson's Feed Store, Marion	2.00	12.53	6.84	32.4	33.9
16% Nitrate of Soda					
4989 Wakin Bros. Super Market, Middlesboro	16.08	....	....	48.0	48.2
33.50% Ammonium Nitrate					
5210 Climax Roller Mills, Shelbyville	33.60	....	....	67.0	67.2

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos-phoric Acid Avail-able	Potash	Index of Relative Value	
				Guar.	Found
<b>THE DAVISON CHEMICAL CORPORATION, Nashville, Tennessee.</b>					
6-8-6 (Muriate) Davco Red Diamond					
4737 Crafton Bros. Feed Store, Henderson	5.97	8.28	6.55	35.6	36.4
4843 Emery Keller Grocery, Cerulean	5.93	8.45	6.30	35.6	36.3
4990 Madison Farm Bureau, Richmond	5.87	8.33	5.41	35.6	35.2
6-8-6 (Sulfate) Davco Red Diamond					
4629 Guenther Hdw. Co., Owensboro	6.21	8.50	5.86	35.6	36.5
4661 Bishop, Patterson & Grey Bros., Glasgow	6.33	8.25	6.08	35.6	36.6
4694 Madison Farm Bureau, Richmond	6.26	8.20	6.11	35.6	36.5
4738 Henry Durham, Greensburg	6.19	8.60	6.04	35.6	36.7
4844 Emery Keller Grocery, Cerulean	5.96	8.33	6.32	35.6	36.2
4845 Madison Farm Bureau, Richmond	6.01	8.25	6.47	35.6	36.4
4991 Garrard Mills, Lancaster	6.22	8.25	6.11	35.6	36.5
5132 J. A. Bennett Hdw. Co., Taylorsville	6.03	8.25	6.39	35.6	36.4
5330 Gentry McCauley, Versailles	6.01	8.38	6.32	35.6	36.4
5587 Farmers Supply Co., Cadiz	6.12	8.15	6.52	35.6	36.5
5588 C. S. Brent Seed Co., Lexington	6.31	8.85	6.17	35.6	37.4
5-10-10 (Muriate) Davco Red Diamond					
4846 Simpson Farmers Co-op., Franklin	5.04	9.98	9.90	40.0	40.0
5332 Farmers Cooperative, Madisonville	5.34	10.15	9.50	40.0	40.4
5333 Smith & Reynolds, Slaughters	5.27	9.70	9.39	40.0	39.6
4-12-8 (Muriate) Davco Red Diamond					
4739 Crafton Bros. Feed Store, Henderson	4.34	11.63	7.63	38.4	38.3
4992 Miller Seed & Popcorn Co., Murray	4.19	12.15	8.11	38.4	39.1
4-12-8 (Sulfate) Davco Red Diamond					
5045 Madison Farm Bureau, Richmond	4.32	12.25	8.03	38.4	39.4
5334 Gentry McCauley, Versailles	4.33	11.78	8.23	38.4	39.0
5335 I. K. Miller & Son, Campbellsville	4.30	11.95	7.95	38.4	38.9
5336 Farmers Cooperative, Madisonville	4.29	12.28	8.15 <sup>h</sup>	38.4	39.5
5589 C. S. Brent Seed Co., Lexington	4.06	12.40	8.85 <sup>h</sup>	38.4	39.9
4-12-4 (Muriate) Davco Red Diamond					
4695 Warren Elevator, Guthrie	3.92	11.85	4.61	34.4	34.7
4741 Crafton Bros. Feed Store, Henderson	4.07	12.18	4.22	34.4	35.0
4742 Henry Durham, Greensburg	4.38	11.38	5.79	34.4	36.2
4847 Eldred Hdw. Co., Princeton	4.18	12.00	4.19	34.4	35.0
5046 Frank Snodgrass, Morgantown	4.11	12.15	4.33	34.4	35.1
5464 J. L. Daniels Feed Store, Burna	4.21	11.85	4.09	34.4	34.7
3-9-6 (Muriate) Davco Red Diamond					
4743 Henry Durham, Greensburg	3.06	9.50	5.99	30.8	31.5
4848 Eldred Hardware Co., Princeton	3.31	9.85	5.85	30.8	32.3
4993 Garrard Mills, Lancaster	3.89	8.78	7.42	30.8	33.7
4994 Madison Farm Bureau, Richmond	2.99	9.10	6.26	30.8	31.2
5133 C. O. Bibb Hdw. Co., Sacramento	3.30	9.60	5.75	30.8	31.9
5337 Henry Durham & Son, Greensburg	3.05	9.25	5.64	30.8	30.8
5590 Bell County Supply Co., Middlesboro	3.19	9.08	6.19	30.8	31.5

<sup>h</sup>. Excess muriate equivalent to 2.94 percent potash



## Regulatory Bulletin No. 84

Table 1 - 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., (Cont'd.)					
2-12-6 (Muriate) Davco Red Diamond					
5047 Brown Seed Cleaning Co., Bowling Green	2.97	10.83	6.50	32.4	33.4
5338 Farmers Cooperative, Madisonville	2.09	<u>11.70</u>	6.16	32.4	32.4
5339 W. I. Smith Gen. Mdse., Sebree	2.04	<u>11.10</u>	5.86	32.4	31.3
5340 Rizer Brothers, Bardstown	2.33	<u>11.48</u>	5.80	32.4	32.3
5465 Woodburn Farmers Supply, Woodburn	2.12	<u>11.95</u>	6.55	32.4	33.1
5466 W. P. Thomson Gen. Store, Clarkson	2.27	11.93	5.98	32.4	32.8
0-14-7 (Muriate) Davco Red Diamond					
5341 Smith & Reynolds Co., Slaughters	....	14.03	7.29	29.8	30.1
5467 Simpson Farmers Cooperative, Franklin	....	14.05	7.02	29.8	29.9
0-12-12 (Muriate) Davco Red Diamond					
5591 C. S. Brent Seed Co., Lexington	....	12.15	12.51	32.4	33.1
46% Superphosphate Davco					
5048 Salem Feed Store, Salem	....	<u>45.28</u>	....	59.8	58.9
20% Superphosphate Davco Granulated					
4662 Bishop, Patterson & Gray Bros., Glasgow	....	20.45	....	26.0	26.6
4696 N. T. Nuckols, Elkton	....	20.75	....	26.0	27.0
4744 Buckhorn Coal Co., Campbellsville	....	20.35	....	26.0	26.5
4745 Henderson Feed & Commission Co., Henderson	....	20.65	....	26.0	26.9
4995 Madison Farm Bureau, Richmond	....	21.05	....	26.0	27.4
4996 Coy R. Hubble, Somerset	....	20.70	....	26.0	26.9
16% Nitrate of Soda					
5592 Bell County Supply Co., Middlesboro	16.04	....	....	48.0	48.1
ELLIS CHEMICAL COMPANY, New Albany, Indiana.					
6-8-12 (Sulfate) Ellis					
5468 J. H. Greene, Lexington	<u>5.12</u>	8.65	13.73 <sup>i</sup>	41.6	42.4
6-8-6 (Muriate)					
5211 Star Roller Mills, Cloverport	6.30	7.88	6.60	35.6	36.7
5342 M. L. Sweasy, Mt. Eden	5.71	7.93	6.78	35.6	35.7
5343 Central State Hospital, Lakeland	<u>6.14</u>	8.25	6.63	35.6	36.8
5469 J. H. Greene, Lexington	5.15	8.15	7.56	35.6	35.6
5593 Kentucky State Reformatory, LaGrange	<u>5.86</u>	8.45	6.34	35.6	36.4
6-8-6 (Sulfate)					
4746 R. C. Anderson, Marrowbone	5.53	8.75	6.39	35.6	36.0
4849 J. H. Lyons, Loretto	<u>5.74</u>	7.88	6.79	35.6	35.7
4997 Madison Farm Bureau, Richmond	5.84	7.48	6.93	35.6	35.6
5134 Farm Veteran's Co-op., Frankfort	5.66	9.05	7.19 <sup>j</sup>	35.6	37.4
5344 Woodford Feed Co., Versailles	<u>5.40</u>	8.23	7.30 <sup>k</sup>	35.6	36.1
5345 W. A. Simpson, Mt. Eden	<u>6.07</u>	8.03	7.66	35.6	37.4
5346 Oldham Feed & Supply, Bučkner	5.82	8.13	6.55	35.6	36.0
5470 A. Douglas Estill, Frankfort	5.45	8.83	6.81 <sup>l</sup>	35.6	36.3
5471 Horace Emmick, Lewisport	<u>5.71</u>	8.13	6.83	35.6	36.0
5472 L. H. Gilley Grocery, Lecta	<u>4.92</u>	8.58	6.67	35.6	34.8
5473 J. H. Greene, Lexington	<u>5.78</u>	7.88	6.92	35.6	35.9
5594 W. C. Blair, Russell Springs	<u>4.62</u>	10.75	7.25	35.6	37.4

i. Excess muriate equivalent to 0.58 percent potash

j. " " " " 0.78 " "

k. " " " " 0.38 " "

l. " " " " 0.93 " "

Analyses of Official Fertilizer Samples

Table 1 - 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 CO., (Cont'd.)					
4-12-8 (Sulfate)					
5135 Farm Veterans Co-op., Frankfort	4.23	12.05	8.07	38.4	40.0
5212 Southern States Co-op., Shelbyville	4.03	11.10	8.89	38.4	38.3
5474 J. H. Greene, Lexington	4.34	<u>11.70</u>	8.00*	38.4	38.7
4-12-4 (Muriate)					
4998 Madison Farm Bureau, Richmond	4.13	11.95	4.29	34.4	34.9
3-18-9 (Muriate)					
5475 H. B. McClary, Auburn	2.91	<u>16.25</u>	10.40	44.6	43.7
3-12-12 (Muriate)					
4850 Branstetter & Edwards, Hardyville	3.10	<u>11.30</u>	12.35	40.4	40.1
4910 Barnett & Sullivan, Harrodsburg	2.79	<u>12.25</u>	10.68	40.4	39.0
5595 Kentucky State Reformatory, LaGrange	3.03	<u>11.28</u>	<u>12.92</u>	40.4	40.5
3-12-12 (Sulfate)					
5347 Woodford Feed Co., Versailles	<u>2.74</u>	<u>8.70</u>	13.27 <sup>m</sup>	40.4	<u>37.2</u>
5476 J. H. Greene, Lexington	<u>3.03</u>	<u>10.28</u>	12.99 <sup>n</sup>	40.4	<u>39.4</u>
5596 Barnett & Sullivan, Harrodsburg	2.87	<u>10.90</u>	13.30	40.4	40.1
3-9-6 (Muriate)					
4911 L. D. Flanagan, Russell Springs	3.10	8.98	8.13	30.8	33.1
4999 Madison Farm Bureau, Richmond	2.97	9.20	7.25	30.8	32.2
5348 Farmers Feed Store, Central City	<u>2.63</u>	<u>8.73</u>	7.90	30.8	31.6
2-12-6 (Muriate)					
5000 H. Warner, Nancy	2.37	<u>11.25</u>	7.31	32.4	33.6
5477 H. B. McClary, Auburn	2.47	<u>11.73</u>	7.28	32.4	34.3
0-12-12 (Sulfate)					
5136 Madison Farm Bureau, Richmond	....	12.05	12.27 <sup>o</sup>	32.4	32.7
5478 J. H. Greene, Lexington	....	12.35	12.88 <sup>p</sup>	32.4	33.7
0-12-12 (Muriate 6, Sulfate 6)					
5479 H. B. McClary, Auburn	....	11.95	13.50	32.4	33.8
20% Superphosphate					
4747 Dudgeon & Robinson, Campbellsville	....	20.65	....	26.0	26.9
4851 Monarch Milling Co., Mt. Sterling	....	20.40	....	26.0	26.5
5001 Carlos Smith, Somerset	....	19.95	....	26.0	25.9
5002 Madison Farm Bureau, Richmond	....	20.18	....	26.0	26.2
5213 Star Roller Mills, Cloverport	....	<u>19.43</u>	....	26.0	25.3
5352 Dudgeon & Robinson, Campbellsville	....	20.05	....	26.0	26.1
5353 Allen's Coal Service, Brandenburg	....	20.25	....	26.0	26.3
5354 Henry County Farm & Home Service, Eminence	....	20.20	....	26.0	26.3
5480 J. H. Greene, Lexington	....	21.53	....	26.0	28.0
5481 Horace Emmick, Lewisport	....	20.95	....	26.0	27.2
5482 Milton Edwards, Hardyville	....	20.35	....	26.0	26.5
5597 Madison Farm Bureau, Richmond	....	20.85	....	26.0	27.1
5598 W. C. Blair, Russell Springs	....	20.33	....	26.0	26.4

\* Excess muriate equivalent to 0.31 percent potash

m.	"	"	"	0.43	"	"
n.	"	"	"	0.40	"	"
o.	"	"	"	2.77	"	"
p.	"	"	"	0.43	"	"



## Regulatory Bulletin No. 84

Table 1 - 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 CO., (Cont d.)					
50% Sulfate of Potash					
5349 Oldham Feed & Supply Co., Buckner	.....	.....	51.36	55.0	56.5
38% Cotton Hull Ash					
5350 Hal Young & Sons, Hawesville	.....	.....	27.96 <sup>q</sup>	41.8	<u>30.8</u>
16.50% Sulfate of Potash Magnesia					
5351 Carter Sparks, Edmonton	.....	.....	22.36	33.0	44.7
FEDERAL CHEMICAL CO., Louisville, Kentucky.					
6-12-12 (Muriate 3, Sulfate 9)					
5137 H. F. Asbury, Lexington	6.01	11.95	12.84	46.4	47.2
6-8-6 (Muriate)					
4604 Pat Farley Feed & Supply, Catlettsburg	5.63	9.30	6.11	35.6	36.5
4630 John J. Carter, Waynesburg	6.14	8.00	5.96	35.6	35.8
4748 Lynn Flood Hdw. Store, Finchville	5.46	9.30	6.11	35.6	36.2
4852 L. J. Burke, Lexington	5.71	8.80	6.70	35.6	36.7
5052 Randolph Bros. Hdw. Co., Bandana	5.75	8.73	6.01	35.6	36.0
5138 Carl & Julius Fister, Lexington	6.30	8.38	6.65	35.6	37.3
5214 Meade & Co., Paintsville	6.09	8.78	6.78	35.6	37.5
5355 Crawley Bros. Garage, Poole	6.23	8.48	5.82	35.6	36.5
5483 Scott Grocery, Pikeville	5.99	9.10	6.83	35.6	37.7
4853 M. C. Roberts Coal & Feed Co., S. Irvine	6.06	8.68	6.35	35.6	36.9
6-8-6 (Sulfate)					
4602 Estes Brothers, Richmond	6.07	8.25	6.35	35.6	36.4
4603 Pat Farley Feed & Supply Co., Catlettsburg	6.08	8.45	6.33	35.6	36.6
4614 Lear & Ballard, Lancaster	6.06	8.40	6.30	35.6	36.5
4663 Slone Brothers, Jackson	5.94	8.60	6.08	35.6	36.3
4697 A. C. Pogie, Winchester	6.12	8.70	6.02	35.6	36.7
4698 Harper Wholesale Co., Winchester	6.19	9.10	5.88	35.6	37.2
4749 Lynn Flood Hdw. Store, Finchville	6.08	8.60	6.37	35.6	36.9
4750 Carl J. Hagman, Cloverport	5.98	8.60	6.24	35.6	36.5
4751 Farmers Exchange, Burkesville	5.99	8.30	6.31	35.6	36.3
4854 Robinson Implement Co., Princeton	5.93	8.58	5.93	35.6	36.1
4855 L. J. Burke, Lexington	6.01	8.50	6.32 <sup>r</sup>	35.6	36.5
4856 Robert James Feed Co., Franklin	5.97	8.35	5.88	35.6	35.8
5053 Thomerson Milling Co., Glasgow	5.81	8.38	5.92	35.6	35.6
5139 Guy Armes Impl. Co., Hardinsburg	6.22	8.50	6.21	35.6	36.9
5356 Southern States Co-op., Maysville	6.34	8.55	6.11	35.6	37.1
5599 Vine Street Feed Store, Lexington	5.50	9.13	6.17	35.6	35.9
5600 Stockton Brothers, Albany	6.16	8.83	6.07	35.6	37.0
4-12-8 (Muriate)					
4700 Dairyman's Feed & Supply, Mayfield	4.09	12.03	8.04	38.4	38.7
4752 J. F. Bertram & Son, Vanceburg	4.27	12.00	7.85	38.4	38.8
4857 L. J. Burke, Lexington	4.58	11.70	8.38	38.4	39.6
4912 Jackson Wholesale Co., Praise	4.80	11.93	7.95	38.4	39.9
4913 Thomas Smith, Bulan	4.52	11.98	7.95	38.4	39.4
5003 L. F. Thurmond Feed Store, Murray	4.18	11.78	8.13	38.4	38.6
5054 Earl Ward's Mill, Paducah	4.10	11.98	7.97	38.4	38.6

q. Potash from carbonate

r. Excess muriate equivalent to 0.37 percent potash

Analyses of Official Fertilizer Samples

Table 1 - 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
FEDERAL CHEMICAL CO., (Cont'd.)					
4-12-8 (Sulfate)					
4615 G. W. Edmond Hdw. Co., Flemingsburg	4.13	12.45	7.94	38.4	39.1
4616 Stanley Galbraith & Son, Carlisle	4.30	12.25	8.48	38.4	39.8
4617 J. B. Barnes, Somerset	4.07	12.90	7.85	38.4	39.5
4699 Harper Wholesale Co., Winchester	4.33	12.30	7.79 <sup>s</sup>	38.4	39.2
4740 Southern States Co-op., Lebanon	4.23	12.35	7.73	38.4	39.0
5004 Dairyman's Feed & Supply Co., Mayfield	4.28	12.25	8.05	38.4	39.3
5005 The Midget Mills, Somerset	4.22	12.45	8.44	38.4	39.8
5215 Farmers Supply Co., Shelbyville	4.06	12.38	8.40 <sup>t</sup>	38.4	39.4
5216 C. F. Cecil, Mize	4.57	12.48	8.07	38.4	40.2
5357 W. B. Monroe, LaGrange	4.27	12.35	7.62	38.4	39.0
5484 Wm. R. Sewell, Daysboro	4.49	12.60	7.93 <sup>u</sup>	38.4	40.0
5601 Vine Street Feed Store, Lexington	4.40	12.13	7.95	38.4	39.3
5602 W. D. Shoemaker Seed Co., Murray	4.64	12.00	7.53	38.4	39.2
3-12-12 (Muriate)					
4914 Grayson County Supply Co., Leitchfield	2.99	12.05	11.87	40.4	40.3
5140 Carl & Julius Fister, Lexington	3.05	12.08	12.01	40.4	40.6
3-9-6 (Muriate)					
4631 W. S. Allen & Co., Liberty	3.33	9.40	6.63	30.8	32.6
4664 Campbell's Mill, Kevil	3.54	8.45	6.62	30.8	31.8
4701 Harper Wholesale Co., Winchester	3.41	9.53	6.97	30.8	33.2
4753 Carl J. Hagman, Cloverport	3.24	9.60	6.55	30.8	32.6
4754 Bentley Brothers, Garrison	3.35	9.15	6.81	30.8	32.5
4858 Robert James Feed Co., Franklin	2.83	9.65	6.08	30.8	31.3
4915 Thomas Smith, Bulan	3.22	9.40	6.48	30.8	32.2
5006 The Midget Mills, Somerset	3.27	10.08	6.53	30.8	33.2
5007 Crawford-Ferguson Hdw. Co., Benton	3.37	7.40	6.39	30.8	30.0
5217 Hancock Feed Store, Middletown	3.35	9.65	6.26	30.8	32.5
5358 G. E. Bruner, Vine Grove	3.42	9.45	6.08	30.8	32.3
5485 W. P. Ray & Sons, New Haven	3.14	9.80	5.95	30.8	32.0
5603 Vine Street Feed Store, Lexington	3.39	9.55	6.07	30.8	32.3
3-9-6 (Sulfate)					
5486 Campbell Wholesale Co., Krypton	3.13	9.90	6.08	30.8	32.2
2-12-6 (Muriate)					
4755 Bentley Brothers, Garrison	2.29	12.33	6.35	30.8	33.7
4859 Pat Davis Gen. Mdse., Cerulean	2.18	12.28	5.98	32.4	33.1
4916 Jackson Wholesale Co., Praise	2.41	12.23	6.18	32.4	33.7
5008 Cundiff Seed Farms, Somerset	2.35	12.20	6.14	32.4	33.5
5055 H. D. Jones, Glasgow	2.34	12.03	5.95	32.4	33.1
5141 W. L. Howard, Whitesville	2.34	12.00	6.03	32.4	33.1
5142 Guy Armes Impl. Co., Hardinsburg	2.63	12.10	5.77	32.4	33.6
5143 Warren Elevator, Guthrie	2.21	12.18	6.11	32.4	33.2
5218 Cyclone Cash Store, Mt. Washington	2.42	12.30	6.32	32.4	33.9
5219 Hall Seed Co., Louisville	2.85	11.30	6.47	32.4	33.7
5359 Lillie Pulliam, Patesville	2.20	11.88	6.24	32.4	32.9
5487 Campbell Wholesale Co., Krypton	2.42	12.55	6.00	32.4	33.9
5604 I. L. Hancock, Louisville	2.35	12.53	6.00	32.4	33.7

s. Excess muriate equivalent to 1.18 percent potash  
t. " " " " 0.37 " "  
u. " " " " 0.42 " "



## Regulatory Bulletin No. 84

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
FEDERAL CHEMICAL CO., (Cont'd.)					
0-12-12 (Muriate)					
4860 Robinson Implement Co., Princeton	....	11.85	12.03	32.4	32.3
5056 Campbell's Mill, Kevil	....	11.43	10.88	32.4	30.6
5144 Warren Elevator, Guthrie	....	<u>12.00</u>	<u>11.62</u>	32.4	<u>32.0</u>
20% Superphosphate					
4605 Pat Farley Feed & Supply Co., Catlettsburg	....	20.10	....	26.0	26.1
4665 Slone Brothers, Jackson	....	19.95	....	26.0	25.9
4756 Lynn Flood Hdw. Store, Finchville	....	20.10	....	26.0	26.1
4861 W. R. Ratliffe, Sharpsburg	....	<u>20.05</u>	....	26.0	26.1
5057 Allen & Jenkins, Bowling Green	....	19.85	....	26.0	25.8
5360 Corbin Farm Supply, Providence	....	19.58	....	26.0	25.5
5488 Robert James Feed Co., Franklin	....	<u>20.20</u>	....	26.0	26.3
5605 P. O. Faris, Oakley	....	20.05	....	26.0	26.1
5606 Triplett's Store, South Corbin	....	20.48	....	26.0	26.6
5607 Ross Feed Co., Murray	....	20.53	....	26.0	26.7
16% Nitrate of Soda					
4757 J. F. Bertram & Son, Vanceburg	16.08	....	....	48.0	48.2
33.50% Ammonium Nitrate					
5361 Floyd G. Barlow, Cynthiana	33.92	....	....	67.0	67.8
5489 Howard Wholesale Co., Allen	33.96	....	....	67.0	67.9
32.50% Ammonium Nitrate					
5145 Carl & Julius Fister, Lexington	33.36	....	....	65.0	66.7
HUTSON CHEMICAL COMPANY, Murray, Ky.					
4-12-8 (Muriate)					
5009 Manufacturer's warehouse	3.88	12.55	<u>7.34</u>	38.4	38.2
5608 Marvin Hdw. & Gen. Store, Lynn Grove	4.24	12.15	<u>8.79</u>	38.4	39.9
5609 Manufacturer's warehouse	4.09	12.48	8.21	38.4	39.4
INTERNATIONAL MINERALS & CHEMICAL CORPORATION, Cincinnati, Ohio.					
10-10-10 (Muriate)					
5490 Gulley & Pettit, Burlington	9.96	10.55	10.65	50.0	51.2
6-12-12 (Muriate)					
4917 Farmers Cooperative Store, Owensboro	5.81	12.13	12.32	46.4	46.5
6-12-12 (Muriate 3, Sulfate 9)					
4666 Boyd Anderson, Ezel	<u>5.72</u>	12.75	11.97	46.4	46.7
4758 L. C. McLoney & Sons, Cynthiana	<u>5.57</u>	12.60	11.91 <sup>v</sup>	46.4	46.2
4759 Woodson Lewis, Greensburg	<u>5.74</u>	12.05	11.92 <sup>w</sup>	46.4	45.9
4960 Owingsville Farmers Supply, Owingsville	<u>5.97</u>	12.10	12.23 <sup>x</sup>	46.4	46.7
4918 Hovious & Shearer, Hustonville	5.91	12.03	13.02	46.4	47.3
4919 Farmers Co-op Store, Owensboro	5.79	12.18	11.80	46.4	46.0
5491 Simpson & Johnson, Walton	<u>4.99</u>	12.60	<u>11.28<sup>y</sup></u>	46.4	<u>44.4</u>
v. Excess muriate equivalent to 0.60 percent potash					
w. " " " " 0.52 " "					
x. " " " " 0.34 " "					
y. " " " " 0.73 " "					

Analyses of Official Fertilizer Samples

Table 1 - 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
INTERNATIONAL MINERALS & CHEM. CORP., (Cont'd.)					
6-8-6 (Sulfate)					
4645 John Underwood & Son, Nicholasville	5.90	8.83	6.08	35.6	36.5
4667 Boyd Anderson, Ezel	5.98	8.55	6.34	35.6	36.6
4761 John A. Sheehan, Falmouth	5.96	8.05	6.35	35.6	35.9
4762 Woodson Lewis, Greensburg	5.95	8.30	6.30	35.6	36.2
4920 Jett Coal & Supply Co., Jett	5.75	8.38	6.36	35.6	35.9
4921 Farmers Co-op Store, Owensboro	5.89	8.20	6.48	35.6	36.1
5058 Cass & Cash, Brodhead	6.32	8.40	6.54	35.6	37.3
5059 G. H. Bowles & Son, Glasgow	6.09	8.85	6.32	35.6	37.1
5146 Young Lumber Co., Beaver Dam	5.73	7.90	5.90	35.6	34.8
5492 John A. Sheehan, Falmouth	<u>5.94</u>	8.53	6.36	35.6	36.5
5610 Richardson Mercantile Co., Berea	5.73	8.98	6.52	35.6	36.8
5611 Farmers Supply Co., Lexington	<u>5.71</u>	8.80	6.21	35.6	36.3
5-10-10 (Muriate)					
5612 Harlan Fruit Co., Harlan	5.07	10.65	10.37	40.0	41.3
5-10-5 (Muriate)					
4702 Harlan Fruit Co., Harlan	4.95	10.20	5.12	35.0	35.3
4922 Lewis Wholesale Co., Whitesburg	4.86	10.05	5.03	35.0	34.8
5493 Elkhorn Coal Co., Jackhorn	5.04	10.50	5.24	35.0	35.9
4-12-8 (Muriate)					
4763 Tony Bezold, Newport	3.95	12.05	8.54	38.4	38.9
5010 L. F. Thurmond Feed Store, Murray	4.04	12.15	8.49	38.4	39.2
5060 Cass & Cash, Brodhead	4.02	13.40	8.15	38.4	40.3
5061 H. D. McKeehan, Rockholds	3.85	13.80	8.32	38.4	40.6
5613 L. F. Thurmond Feed Store, Murray	4.13	11.80	9.17	38.4	39.6
4-12-8 (Sulfate)					
4646 John Underwood & Son, Nicholasville	4.27	12.08	8.39	38.4	39.4
4668 Boyd Anderson, Ezel	4.29	11.85	8.59	38.4	39.4
4764 Owingsville Farmers Supply, Owingsville	4.35	<u>11.65</u>	8.95	38.4	39.6
5011 Hart Brothers, Somerset	4.00	<u>11.95</u>	8.92	38.4	39.3
5147 Young Lumber Co., Beaver Dam	4.08	12.00	7.84	38.4	38.4
5148 Cooper Bros. Feed Store, Elizabethtown	4.18	11.90	7.96	38.4	38.6
5494 Baker & Hulley, Alexandria	4.14	13.00	8.12	38.4	40.0
5614 Richardson Mercantile Co., Berea	4.15	12.00	8.51	38.4	39.2
3-18-9 (Muriate)					
4923 Farmers Co-op Store, Owensboro	2.98	18.10	9.49	44.6	45.2
3-12-12 (Muriate)					
4924 Hovious & Shearer, Hustonville	2.96	12.55	12.08	40.4	41.1
5062 Cass & Cash, Brodhead	3.13	12.43	12.31	40.4	41.5
5362 J. C. Eldridge, Sharkey	2.98	12.33	12.47	40.4	41.2
5615 Richardson Mercantile Co., Berea	3.10	13.60	13.02	40.4	43.5
5616 Boone Feed Store, Stanford	3.09	12.98	12.40	40.4	42.2
3-9-6 (Muriate)					
4703 Harlan Fruit Co., Harlan	3.22	9.85	6.21	30.8	32.5
2-12-6 (Muriate)					
4765 Buckhorn Coal Co., Campbellsville	2.13	11.98	6.91	32.4	33.6
4766 Woodson Lewis, Greensburg	1.95	12.35	6.53	32.4	33.3



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Table 1 - 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 (Cont'd.)					
2-12-6 (Muriate) (Cont'd.)					
4925 Emerson's Store, Waynesburg	2.43	11.55	8.35	32.4	35.1
4926 Farmers Cooperative Store, Owensboro	1.99	<u>12.08</u>	6.75	32.4	33.2
5063 Cass & Cash, Brodhead	2.03	12.23	6.60	32.4	33.3
5220 Henderson Feed & Commission Co., Henderson	2.07	11.55	6.18	32.4	32.2
5221 Caneyville Roller Mills, Caneyville	2.08	<u>12.00</u>	7.61	32.4	34.2
5495 Baker & Hulley, Alexandria	2.26	11.50	7.88	32.4	34.2
5496 Morris Brothers, Hazel Green	2.09	<u>12.15</u>	6.48	32.4	33.2
0-14-7 (Muriate)					
5064 Cass & Cash, Brodhead	....	14.60	7.25	29.8	30.8
0-12-12 (Muriate)					
5149 M. G. Williams, Impl. Co., Hopkinsville	....	12.08	13.14	32.4	33.6
5222 Pat Farley Feed & Supply, Catlettsburg	....	12.60	11.86	32.4	33.0
20% Superphosphate					
4669 Boyd Anderson, Ezel	....	20.00	....	26.0	26.0
4767 J. C. Eldridge, Sharkey	....	19.83	....	26.0	25.8
4927 Boone Feed Store, Stanford	....	21.93	....	26.0	28.5
4928 Emerson's Store, Waynesburg	....	20.68	....	26.0	26.9
5012 G. M. Sandidge & Son, Eubank	....	21.03	....	26.0	27.3
5363 Allen's Coal Service, Brandenburg	....	19.75	....	26.0	25.7
5497 Baker & Hulley, Alexandria	....	21.55	....	26.0	28.0
33.50% Ammonium Nitrate					
4670 Boyd Anderson, Ezel	33.72	....	....	67.0	67.5
5498 Morris Bros., Hazel Green	33.68	....	....	67.0	67.4
50% Muriate of Potash					
4671 Boyd Anderson, Ezel	....	....	<u>39.44</u>	45.0	<u>35.5</u>
48% Sulfate of Potash					
4672 Boyd Anderson, Ezel	....	....	50.16	52.8	55.2
4768 L. C. McLoney & Sons, Cynthiana	....	....	43.92 <sup>z</sup>	52.8	48.4
5364 J. C. Eldridge, Sharkey	....	....	<u>47.96*</u>	52.8	<u>52.8</u>
21.50% Sulfate of Potash Magnesia					
4769 L. C. McLoney & Sons, Cynthiana	....	....	21.48	43.0	43.0
5150 N. T. Nuckols, Elkton	....	....	21.58	43.0	43.2
5223 Caneyville Roller Mills, Caneyville	....	....	22.14	43.0	44.3
5617 Harrison Bros. Farm Supply, Berea	....	....	22.10	43.0	44.2
INTERSTATE FERTILIZER COMPANY, Cairo, Ill.					
6-8-6 (Muriate)					
5065 Bardwell Sweet Feed Mill, Bardwell	5.81	7.98	6.37	35.6	35.6
5618 Calloway County Soil Imp. Asso., Murray	<u>5.73</u>	8.18	6.21	35.6	35.5
5619 Mayfield Sweet Feed Mill, Mayfield	<u>5.71</u>	8.40	6.60	35.6	36.1
6-8-6 (Muriate 3, Sulfate 3)					
5066 Yopp Seed Co., Paducah	6.01	7.95	6.49	35.6	36.1
5-10-10 (Muriate 5, Sulfate 5)					
5067 Ballard County Co-op., LaCenter	5.01	10.05	10.54	40.0	40.6
z. Excess muriate equivalent to 0.92 percent potash					
*. " " " " 0.84 " "					

Analyses of Official Fertilizer Samples

Table 1 - 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
INTERSTATE FERTILIZER COMPANY, (Cont'd.)					
4-12-8 (Muriate)					
5013 Mayfield Sweet Feed Mill, Mayfield	4.05	12.15	8.47	38.4	39.2
5620 Marshall County Soil Imp. Asso., Benton	3.84	12.00	8.39	38.4	38.5
3-12-12 (Muriate)					
5014 Marshall County Soil Imp. Asso., Benton	3.05	12.28	12.68	40.4	41.5
5068 Ballard County Co-op., LaCenter	3.12	12.25	11.87	40.4	40.8
3-9-6 (Muriate)					
5621 Marshall County Soil Imp. Asso., Benton	2.99	9.30	6.47	30.8	31.6
5622 Calloway County Soil Imp. Asso., Murray	3.04	9.20	6.35	30.8	31.5
21.50% Sulfate of Potash Magnesia					
5623 Calloway County Soil Imp. Asso., Murray	....	....	21.88	43.0	43.8
KENTUCKY FERTILIZER WORKS, Winchester, Ky.					
6-8-6 (Muriate) "P. P. F. Brand"					
5224 Wheeler & Williams, Ashland	6.28	7.80	5.93	35.6	35.9
5365 Wheeler and Williams, Carlisle	6.19	8.35	6.23	35.6	36.6
6-8-6 (Sulfate) "P. P. F. Brand"					
4606 Robinson & Turley, Richmond	6.23	8.63	6.10	35.6	36.9
4632 Farmers Supply Co., Danville	6.29	8.58	6.00	35.6	36.9
4704 Sphar & Co., Winchester	6.20	8.55	6.04	35.6	36.7
4862 T. Griggs, Winchester	6.03	8.53	6.70	35.6	37.0
4863 John K. Ramsey, Winchester	6.13	8.60	6.35	35.6	36.9
4864 W. A. Embs, Indian Fields	6.18	8.30	6.08	35.6	36.4
4865 Ray Center, Clay City	6.21	8.40	6.36	35.6	36.9
4866 R. P. Parido, Winchester	6.19	8.50	6.02	35.6	36.6
4929 Farmers Supply Co., Paintsville	6.09	8.45	6.09	35.6	36.4
5151 Farm Veterans Co-op., Frankfort	6.06	8.48	6.62	35.6	36.9
5366 M. D. Royse, Winchester	6.38	8.48	6.05	35.6	37.0
5-10-5 (Sulfate) "P. P. F. Brand"					
5225 Wheeler & Williams, Ashland	5.18	10.58	4.89	35.0	36.0
5499 Whitesburg Farm Service, Whitesburg	5.18	10.85	4.95	35.0	36.3
4-12-8 (Sulfate) "P. P. F. Brand"					
4867 Chas. Cornwell, Rothwell	4.08	12.53	8.08	38.4	40.9
3-9-6 (Muriate) "P. P. F. Brand"					
4868 Chas. Cornwell, Rothwell	3.14	9.20	6.35	30.8	31.7
5226 Wheeler and Williams, Ashland	3.38	8.80	5.88	30.8	31.2
3-9-6 (Sulfate) "P. P. F. Brand"					
5500 Thomas Richardson, Cannell City	3.35	9.60	6.39	30.8	32.6
20% Superphosphate "P. P. F. Brand"					
5368 Earl Murray, Morehead	....	21.30	....	26.0	27.7
5501 Farmers Supply Co., Mt. Sterling	....	20.95	....	26.0	27.2
60% Muriate of Potash "P. P. F. Brand"					
5369 Earl Murray, Morehead	....	....	61.72	54.0	55.5



Table 1 - 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 CO., Knoxville, and Nashville, Tenn., London, Ky.					
6-8-6 (Muriate) Knox Pulverized					
4770 Curtis & McComas, Burkesville	6.12	8.65	6.08	35.6	36.7
4930 Hobert & Milton Roberts, Monticello	5.96	8.50	6.81	35.6	36.9
5502 Eastern State Hospital, Lexington	4.84	9.08	5.51	35.6	34.1
5624 Kentucky House of Reform, Greendale	<u>4.90</u>	<u>7.63</u>	<u>5.88</u>	35.6	<u>32.8</u>
6-8-6 (Sulfate) Knox Pulverized					
4771 L. C. McLoney & Sons, Cynthiana	<u>5.23</u>	9.90	<u>5.63<sup>a</sup></u>	35.6	36.0
4931 Hobart & Milton Roberts, Monticello	<u>6.02</u>	8.30	<u>6.98</u>	35.6	37.0
4932 Barnett & Sullivan Co., Harrodsburg	<u>5.68</u>	8.70	6.31	35.6	36.1
4933 Powell Hackney Grocery, Beattyville	<u>6.38</u>	8.03	6.50	35.6	36.9
5153 J. C. Brown, Guthrie	<u>5.65</u>	9.08	6.27 <sup>b</sup>	35.6	36.5
5152 Sanders & Rankin, Lancaster	<u>5.96</u>	8.53	6.21	35.6	36.4
5370 Curtis & McComas, Burkesville	5.36	9.68	5.96 <sup>c</sup>	35.6	36.3
5371 McCauley Bros. Seed Co., Versailles	<u>6.01</u>	8.30	6.01	35.6	36.0
5372 Thornhill Service Station, Frankfort	6.07	7.90	5.96	35.6	35.6
5503 Powell Hackney Grocery, Jackson	6.20	8.20	6.08	35.6	36.3
5504 Princeton Mills, Princeton	5.74	9.45	6.34	35.6	37.2
5625 Fayette Seed Co., Lexington	<u>6.00</u>	8.38	6.13	35.6	36.2
5-10-5 (Muriate) Knox Pulverized					
5154 J. C. Brown, Guthrie	<u>4.72</u>	10.30	5.43	35.0	35.2
4-12-12 (Sulfate) Knox Pulverized					
5505 L. C. McLoney & Sons, Cynthiana	4.08	12.10	<u>11.39</u>	42.4	42.1
4-12-8 (Muriate) Knox Pulverized					
5155 Foster Fertilizer Co., Hopkinsville	4.17	<u>11.68</u>	8.08	38.4	38.4
5626 Parker Seed Co., Murray	<u>3.74</u>	<u>12.00</u>	<u>7.71</u>	38.4	37.6
4-12-8 (Sulfate) Knox Pulverized					
5069 Tom Craft, East Bernstadt	3.89	<u>11.10</u>	8.21	38.4	37.3
5373 Thornhill Service Station, Frankfort	4.16	<u>12.00</u>	7.28	38.4	38.0
5627 Harrison Bros. Farm Supply, Berea	3.97	12.15	<u>7.15</u>	38.4	37.7
4-12-4 (Muriate)					
4633 Hobert & Milton Roberts, Monticello	3.92	13.05	4.60	34.4	36.1
5015 Dixie Feed Co., Middlesboro	3.99	12.10	4.10	34.4	34.6
5070 Farmers Feed & Supply Co., London	4.28	<u>11.70</u>	4.50	34.4	35.1
5071 Farmers Feed Market, Bowling Green	4.01	<u>11.75</u>	4.51	34.4	34.6
5072 Ruby H. Guffy, Morgantown	3.93	<u>11.55</u>	4.16	34.4	33.9
5374 McCauley Bros. Seed Co., Versailles	4.35	<u>11.90</u>	4.42	34.4	35.4
5375 City Supply Co., Columbia	3.85	12.38	4.04	34.4	34.6
5506 Powell Hackney Grocery, Hazard	4.06	12.95	4.11	34.4	35.8
5628 Fayette Seed Co., Lexington	3.84	12.73	4.25	34.4	35.2

a. Excess muriate equivalent to 0.26 percent potash

b. " " " " 0.39 " "

c. " " " " 0.47 " "

Analyses of Official Fertilizer Samples

Table 1 - 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, (Cont'd.)					
3-12-12 (Muriate 3, Sulfate 9) Knox Pulverized 5073 Sherman Bengé, London	3.01	<u>10.60</u>	<u>9.99</u>	40.4	<u>36.7</u>
3-9-6 (Muriate)					
4635 John J. Carter, Waynesburg	3.07	9.85	6.26	30.8	32.2
4934 Powell Hackney Grocery, Beattyville	2.92	10.00	6.08	30.8	31.9
5227 Wyndall's Feed & Hdw. Co., Owensboro	3.12	9.65	6.45	30.8	32.3
5228 Grayson County Supply Co., Leitchfield	3.01	10.30	6.38	30.8	32.8
5376 Hal Young & Sons, Hawesville	3.12	10.45	5.98	30.8	32.8
5507 Powell Hackney Grocery, Hazard	3.18	9.38	6.19	30.8	31.8
5629 Jellico Grocery, Barbourville	3.09	9.98	6.16	30.8	32.3
3-9-6 (Muriate 3, Sulfate 3)					
5016 Dixie Feed Co., Middlesboro	2.94	9.50	6.30	30.8	31.6
5229 Wyndalls Feed & Hdw. Co., Owensboro	2.96	10.50	5.71	30.8	32.2
5377 S. E. Hale & Son Hdw. Co., Greenville	3.31	9.95	<u>6.29</u>	30.8	32.9
5378 McCauley Bros. Seed Co., Versailles	3.09	9.23	6.00	30.8	31.3
5630 Fayette Seed Co., Lexington	3.04	9.18	6.24	30.8	31.3
5631 Harrison Bros. Farm Supply, Berea	3.14	9.55	6.05	30.8	31.8
3-9-6 (Muriate 4, Sulfate 2)					
4634 Hobert & Milton Roberts, Monticello	3.04	9.13	7.01	30.8	32.1
4673 Farmers Feed Market, Bowling Green	3.09	10.18	5.79 <sup>d</sup>	30.8	32.2
4772 Curtis & McComas, Burkesville	3.04	10.03	6.04	30.8	32.2
4935 Barnett & Sullivan, Harrodsburg	2.96	9.20	7.25	30.8	32.2
5017 A. P. Vaught & Co., Science Hill	2.89	9.40	7.17	30.8	32.2
5074 Jellico Grocery, Corbin	2.98	9.35	6.50	30.8	31.7
2-12-12 (Muriate) with 60# Borax per ton Knox					
5379 Shipp & Allen, Campbellsville*	2.24	<u>11.45</u>	14.27	38.4	40.5
2-12-6 (Muriate) Knox Pulverized					
4674 Clay & Johnson, Fountain Run	2.08	12.25	5.95	32.4	32.8
5018 A. P. Vaught Co., Science Hill	2.35	12.03	6.27	32.4	33.4
5075 Sherman Bengé, London	2.03	12.85	5.83	32.4	33.3
5076 Ellis Brothers, Glasgow	2.22	10.90	6.56	32.4	32.1
5077 Peoples Feed Mill Co., Cave City	2.32	<u>10.85</u>	6.89	32.4	32.6
5508 Princeton Mills, Princeton	2.09	<u>12.95</u>	5.99	32.4	33.7
5509 Powell Hackney Grocery, Jackson	2.18	13.20	6.21	32.4	34.4
5632 Kennedy Supply Store, Liberty	2.14	12.70	6.24	32.4	33.8
0-14-7 (Muriate) Knox					
5380 Jack Shirley Hdw. Co., Edmonton	....	14.13	7.04	29.8	30.0
5510 Morrison & Wallace, Hodgenville	....	14.50	<u>6.15</u>	29.8	29.6
0-12-12 (Muriate) Knox Pulverized					
5633 Fayette Seed Co., Lexington	....	12.63	<u>10.01</u>	32.4	<u>31.2</u>
20% Superphosphate Knox Pulverized					
4773 Shipp & Allen, Campbellsville	....	18.53	....	26.0	24.1
4869 M. C. Roberts Coal & Feed Co., S. Irvine	....	<u>19.28</u>	....	26.0	<u>25.1</u>
4936 Geo. P. Taylor Co., Burnside	....	<u>20.00</u>	....	26.0	26.0
5019 Roscoe Morris, Somerset	....	19.93	....	26.0	25.9
5381 Hal Young & Sons, Hawesville	....	20.05	....	26.0	26.1
5511 Morrison & Wallace, Hodgenville	....	20.33	....	26.0	26.4
5634 D. & D. Farm Supply, Corbin	....	20.10	....	26.0	26.1

d. Excess muriate equivalent to 0.32 percent potash

\* Boron guaranteed 0.34 percent - Found 0.30 percent



Table 1 - 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, (Cont'd.)					
19% Superphosphate Knox 5635 Hobart & Milton Roberts, Monticello	....	<u>18.40</u>	....	24.7	23.9
33.50% Ammonium Nitrate 5078 Jellico Grocery, Corbin	34.00	....	....	67.0	68.0
32.50% Ammonium Nitrate 4937 Powell Hackney Grocery, Beattyville	33.60	....	....	65.0	67.2
48% Sulfate of Potash 5512 L. C. McLoney & Sons, Cynthiana	....	....	52.76	52.8	58.0
5636 Barnett & Sullivan & Co., Harrodsburg	....	....	52.08	52.8	57.3
LION OIL COMPANY, El Dorado, Ark.					
33.50% Ammonium Nitrate 4705 Cayce-Yost Company, Hopkinsville	33.44	....	....	67.0	66.9
LOUISVILLE FERTILIZER CO., DIV. ARMOUR & CO., Cincinnati, O., Nashville, Tenn., Jeffersonville, Ind.					
3-9-6 (Sulfate) 5156 Kent Miller's Store, Sacramento	2.95	9.45	5.90	30.8	31.1
MATHIESON CHEMICAL CORPORATION, Baltimore 2, Md.					
4-8-12 (Sulfate) 5157 Herschel Weil, Lexington	4.29	9.05	<u>10.19<sup>e</sup></u>	37.6	37.6
NORTH AMERICAN FERTILIZER COMPANY, Louisville, Ky.					
6-8-6 (Muriate)					
4774 Carl J. Hagman, Cloverport	<u>5.60</u>	8.65	5.95	35.6	35.5
4871 Logan County Seed Co., Russellville	<u>5.83</u>	8.98	5.96	35.6	36.4
4938 Farmers Cooperative Store, Owensboro	5.90	8.35	5.98	35.6	35.8
4939 Jett's Grocery, Jackson	6.14	8.25	6.02	35.6	36.2
4940 Shearin Grocery, Danville	5.77	8.63	6.29	35.6	36.2
5158 Snyder's Hardware Co., Hawesville	5.40	9.00	5.87	35.6	35.5
5230 Bunton Seed Co., Louisville	<u>5.66</u>	8.78	6.39	35.6	36.3
5231 Clinton Jones, Morehead	<u>5.65</u>	8.25	5.98	35.6	35.2
5382 Hardware & Supply Co., N. Middletown	<u>6.10</u>	8.50	6.29	35.6	36.7
6-8-6 (Sulfate)					
4607 Estes Brothers, Richmond	5.81	8.15	6.85 <sup>f</sup>	35.6	36.3
4636 W. D. Cunningham, Webbs Cross Roads	<u>5.50</u>	8.50	6.33	35.6	35.5
4647 Ward Oats Supply Co., Frankfort	<u>5.87</u>	7.90	6.08	35.6	35.3
4675 R. D. Reynolds, Cave City	5.98	7.93	6.36 <sup>g</sup>	35.6	35.8
4941 Owens Brothers, Russell Springs	5.70	8.70	6.62 <sup>h</sup>	35.6	36.5
5020 J. M. Milling Co., Frankfort	<u>6.02</u>	8.45	6.84	35.6	37.0
5021 Sherman Adams, Paint Lick	5.92	8.10	6.69 <sup>i</sup>	35.6	36.3
5079 A. C. Roberts, Scottsville	6.15	8.40	7.10 <sup>j</sup>	35.6	37.5

e. Excess muriate equivalent to 1.21 percent potash

f. " " " " 0.51 " "

g. " " " " 0.26 " "

h. " " " " 0.39 " "

i. " " " " 0.57 " "

j. " " " " 0.70 " "

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phosphoric Acid Available	Potash	Index of Relative Value	
				Guar.	Found
NORTH AMERICAN FERTILIZER CO., (Cont'd.)					
6-8-6 (Sulfate) (Cont'd.)					
5080 William Preston, Lexington	6.17	7.70	6.93 <sup>k</sup>	35.6	36.5
5081 Laswell Milling Co., Brodhead	5.93	8.30	6.05 <sup>l</sup>	35.6	35.9
5159 Spears-Kiser Co., Paris	5.70	9.03	5.80 <sup>m</sup>	35.6	36.0
5232 Farm Service Co-op., Henderson	6.14	8.00	6.89	35.6	36.8
5233 Clinton Jones, Morehead	6.13	8.48	6.41	35.6	36.9
5383 Rainbow Coal Co., Versailles	5.42	8.53	6.52	35.6	35.6
5384 Carroll Co. Farm Bureau, Carrollton	5.91	8.45	6.45	35.6	36.4
5385 L. & R. Feed Co., Owenton	6.09	7.95	6.08 <sup>n</sup>	35.6	35.8
5386 Maysville Grocery Co., Maysville	5.41	8.15	6.65	35.6	35.3
5513 Farmers Feed Mill, Lexington	5.92	8.15	7.14 <sup>o</sup>	35.6	36.8
5-10-5 (Muriate 2.50, Sulfate 2.50) Blue Tag Brand					
5022 Fletcher Taylor & Sons, Nicholasville	5.17	10.05	5.82 <sup>p</sup>	35.0	36.2
5387 J. H. Myers, Ewing	4.99	9.90	5.62	35.0	35.5
4-12-8 (Sulfate)					
4637 John J. Carter, Waynesburg	4.20	11.45	8.50	38.4	38.6
5161 Spears-Kiser Co., Paris	3.41	11.40	8.44	38.4	36.9
5388 Dorsey Bros. & Fisher, Carlisle	3.95	12.05	8.40	38.4	38.8
5514 Farmers Feed Mill, Lexington	4.09	11.95	8.10 <sup>q</sup>	38.4	38.6
4-12-4 (Muriate)					
4942 Jett's Grocery, Jackson	4.28	11.23	4.68	34.4	34.7
5234 Bunton Seed Co., Louisville	5.11	12.45	5.03	34.4	38.2
4-10-6 (Sulfate)					
5389 Southern States Co-op., Flemingsburg	3.84	10.55	6.13 <sup>r</sup>	34.0	34.5
3-9-6 (Muriate)					
4943 Jett's Grocery, Jackson	3.45	9.68	6.55	30.8	33.1
4944 Shearin Grocery, Danville	3.20	9.13	6.15	30.8	31.5
5082 R. D. Reynolds, Cave City	3.42	9.35	6.89	30.8	33.0
5083 Renfro Supply Co., Williamsburg	2.98	9.00	5.85	30.8	30.6
5390 Wilson Produce Co., Columbia	3.10	9.38	5.69	30.8	31.2
2-12-6 (Muriate)					
4775 Carl J. Hagman, Cloverport	2.11	12.70	5.69	32.4	33.2
4945 Owens Brothers, Russell Springs	2.34	11.90	6.56	32.4	33.5
5162 Shively Brothers, Whitesville	2.06	12.08	5.59	32.4	32.2
5235 Farm Service Cooperative, Henderson	2.25	12.30	6.21	32.4	33.5
5391 Grigsby & Co., Bardstown	2.76	12.18	6.98	32.4	35.1
0-14-7 (Muriate) With 100# Borax per ton					
5084 William Preston, Lexington*	.....	13.70	7.00	29.8	29.4
k. Excess muriate equivalent to 0.27 percent potash					
l. " " " " 0.31 " "					
m. " " " " 1.21 " "					
n. " " " " 0.37 " "					
o. " " " " 0.70 " "					
p. " " " " 2.13 " "					
q. " " " " 1.10 " "					
r. " " " " 0.39 " "					

\* Boron guaranteed 0.57 percent - Found 0.54 percent



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Table 1 - 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 CO., (Cont'd.)					
0-12-12 (Muriate)					
4872 Camargo Farmers Supply, Camargo	....	12.00	12.04	32.4	32.4
20% Superphosphate					
4946 Crab Orchard Lumber Co., Crab Orchard	....	20.83	....	26.0	27.1
5085 Abel Cunagin, Greenmount	....	20.90	....	26.0	27.2
5163 Spears-Kiser Co., Paris	....	20.30	....	26.0	26.4
33.50% Ammonium Nitrate					
4608 Estes Brothers, Richmond	33.68	....	....	67.0	67.4
4947 Jett's Grocery, Jackson	33.72	....	....	67.0	67.4
48% Sulfate of Potash					
4676 Southern States Co-op., Glasgow	....	....	<u>40.20</u>	52.8	<u>44.2</u>
PHILLIPS CHEMICAL CO., Bartlesville, Okla.					
33.50% "66 Prilled" Ammonium Nitrate					
5392 Southern States Co-op., Campbellsville	33.20	....	....	67.0	66.4
PRICE CHEMICAL COMPANY, Louisville, Ky.					
6-8-6 (Muriate)					
4706 Foster Fertilizer Co., Hopkinsville	6.22	8.80	6.39	35.6	37.4
4707 R. J. Jones, Tyner	6.19	8.40	6.73	35.6	37.2
4873 Monarch Milling Co., Mt. Sterling	5.86	8.45	6.78	35.6	36.6
5393 Sam R. Lykins & Son, Stanton	6.00	8.98	7.79	35.6	38.6
6-8-6 (Sulfate)					
4677 Fox Brothers, Winchester	6.07	8.10	7.09	35.6	37.0
4776 Lemons Brothers, Cynthiana	5.84	8.70	7.09	35.6	37.2
4874 Monarch Milling Co., Mt. Sterling	6.16	8.45	6.70	35.6	37.2
4875 Houchens Grocery, Glasgow	5.97	8.38	6.92	35.6	36.9
5160 Shively Brothers, Whitesville	5.94	8.75	6.35	35.6	36.7
5236 Stout Feed Store, Mt. Washington	6.89	8.48	6.29	35.6	38.3
5237 Noah Hall Feed Store, Morehead	6.11	8.13	7.14	35.6	37.1
4-12-8 (Sulfate)					
4678 Fox Brothers, Winchester	4.36	12.75	8.60	38.4	40.6
4876 Monarch Milling Co., Mt. Sterling	4.44	13.40	9.50	38.4	42.5
4877 Houchens Grocery, Glasgow	4.20	12.23	8.75	38.4	39.8
5394 Roscoe Meadows, Clay City	4.68	13.30	7.90	38.4	41.2
5515 Stanley Penn, Lexington	4.40	11.93	9.37	38.4	40.5
3-12-12 (Muriate)					
4708 R. J. Jones, Tyner	3.31	12.80	11.86	40.4	41.8
5238 St. Matthews Produce Exchange, St. Matthews	3.41	12.63	11.90	40.4	41.9
3-12-12 (Sulfate)					
4878 Monarch Milling Co., Mt. Sterling	3.50	12.60	11.93	40.4	42.1
4679 Fox Brothers, Winchester	3.35	12.55	12.06	40.4	41.8

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
PRICE CHEMICAL CO., (Cont'd.)					
3-9-6 (Muriate)					
4709 R. J. Jones, Tyner	3.47	9.40	6.23	30.8	32.5
4879 Monarch Milling Co., Mt. Sterling	5.11	9.33	6.04	30.8	35.5
5164 G. H. Nunnally, Georgetown	5.63	8.43	5.15	30.8	34.5
5239 W. L. Anderson & Sons, Caneyville	3.03	9.48	6.21	30.8	31.7
5240 St. Matthews Produce Exchange, St. Matthews	3.04	9.63	6.35	30.8	32.0
5241 Guenther Hdw. Co., Owensboro	4.41	9.48	5.69	30.8	33.9
2-12-6 (Muriate)					
5165 Foster Fertilizer Co., Hopkinsville	2.45	12.43	5.84	32.4	33.7
5242 St. Matthews Produce Exchange, St. Matthews	2.30	11.98	6.80	32.4	33.8
5243 W. L. Anderson & Sons, Caneyville	2.24	12.33	6.27	32.4	33.6
5516 A. L. Hazle, Hodgenville	2.51	11.65	7.17	32.4	34.2
5637 D. B. Saylor, Mt. Vernon	2.37	12.85	6.69	32.4	34.9
20% Superphosphate					
5244 St. Matthews Produce Exchange, St. Matthews	....	20.83	....	26.0	27.1
5245 W. L. Anderson & Sons, Caneyville	....	20.00	....	26.0	26.0
33.50% Ammonium Nitrate					
5246 Rose Feed & Seed Store, Ezel	33.68	....	....	67.0	67.4
50% Muriate of Potash					
5395 Central State Hospital, Lakeland	....	....	46.68	45.0	42.0
SCHROCK FERTILIZER SERVICE, Congerville, Ill.					
60% Muriate of Potash					
5639 Southern States Co-op., Fulton	....	....	60.80	54.0	54.7
50% Sulfate of Potash					
5397 Sphar and Co., Winchester	....	....	52.12	55.0	57.3
5640 Farmers Supply Co., Harrodsburg	....	....	52.08	55.0	57.3
O. M. SCOTT & SONS CO., Marysville, Ohio.					
9-7-4 (Muriate)					
5638 Jack Dayton & Son, Louisville	9.36	8.37	4.27	38.4	41.0
SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE, Milwaukee, Wisconsin.					
6-2.75-0 "Milorganite" Organic Material from Activated Sludge					
5641 Sears, Roebuck & Co., Louisville	5.82	2.90	....	38.8	37.8
SOUTHERN AGRICULTURAL CHEMICAL CORPORATION, East Point, Georgia.					
20% Superphosphate					
5087 Southern States Co-op., London	....	20.30	....	26.0	26.4
5247 Rowan Farmers Supply, Morehead	....	20.63	....	26.0	26.8
5248 Southern States Co-op., Henderson	....	20.20	....	26.0	26.3
5398 Southern States Co-op., Maysville	....	21.03	....	26.0	27.3



Table 1 - 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
SPENCER CHEMICAL CO., Pittsburg, Kansas.					
33.50% Ammonium Nitrate					
4618 Cundiff Seed Farms, Somerset	33.68	....	....	67.0	67.4
4680 Big Four Implement Co., Scottsville	33.76	....	....	67.0	67.5
5088 Houston Brothers, Brodhead	33.76	....	....	67.0	67.5
5166 Brent and Co., Paris	33.56	....	....	67.0	67.1
SWIFT & COMPANY PLANT FOOD DIVISION, National Stock Yards, Ill.					
6-10-4 (Muriate) "Vigoro Brand"					
5090 Williamsburg Hdw. Co., Williamsburg	5.87	10.33	4.11	36.0	36.3
5249 W. E. Hearon Grocery, Clay	6.01	10.38	4.11	36.0	36.6
5642 D. & D. Farm Supply, Corbin	5.95	10.63	4.10	36.0	36.8
5643 Harlan Fruit Co., Harlan	5.98	10.63	4.07	36.0	36.8
6-8-6 (Muriate)					
5089 Sunshine Stores, Paducah	6.05	8.00	6.26	35.6	36.0
6-8-6 (Sulfate) Blenn Brand					
5167 Spears-Kiser Co., Paris	5.71	8.60	6.36	35.6	36.1
5644 Trigg County Trading Co., Cadiz	5.97	8.63	6.24	35.6	36.5
5-10-5 (Muriate) Red Steer Brand					
5518 Farmers Supply Co., Roadfork	4.73	10.68	5.15	35.0	35.4
4-12-8 (Sulfate) "Vigoro Brand"					
4710 Cayce-Yost Co., Hopkinsville	4.09	12.15	8.09	38.4	38.9
4778 Haydon Coal & Oil Co., Springfield	4.08	12.23	8.19	38.4	39.0
4948 J. W. Settle Feed Store, Frankfort	4.20	12.08	7.88	38.4	38.8
5091 Broadway Roller Mills, Bowling Green	4.16	12.23	8.15	38.4	39.2
5168 Cooper Bros. Feed Store, Elizabethtown	4.14	12.03	8.03	38.4	38.8
5250 Walters & Thompson, Shelbyville	4.10	12.08	7.87	38.4	38.6
5251 Kratzer Supply Co., Mt. Sterling	4.02	12.38	8.28	38.4	39.2
5399 Denton Hardware Co., Madisonville	4.05	12.55	8.18	38.4	39.3
5400 Millersburg Coal & Lumber Co., Millersburg	4.15	12.85	7.98	38.4	39.7
5519 Stanley Penn, Lexington	4.01	12.48	8.07	38.4	39.1
5645 Trigg County Trading Co., Cadiz	3.92	12.35	8.28	38.4	38.9
4-12-4 (Muriate) Red Steer Brand					
5092 W. B. Davis & Sons, Kevil	3.90	12.58	4.09	34.4	35.0
3-12-12 (Muriate)					
5093 Cooper Feed & Seed Co., Bandana	3.05	12.00	11.91	40.4	40.4
5094 Cooper Feed & Seed Co., Bandana	3.01	12.55	11.93	40.4	41.0
3-12-8 (Muriate) Red Steer Brand					
5095 W. B. Davis & Sons, Kevil	2.98	11.80	7.99	36.4	36.1
2-12-6 (Muriate) Red Steer Brand					
4881 Morganfield Hdw. Co., Morganfield	2.31	12.45	6.09	32.4	33.7
5520 Morganfield Hdw. Co., Morganfield	2.07	12.05	6.21	32.4	32.8
0-20-10 (Muriate) Red Steer Brand					
5401 Jewell Hayden Co., Bardstown	....	20.45	10.01	40.0	40.6

## Analyses of Official Fertilizer Samples

 Table 1 - 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 AND CO., (Cont'd.)					
20% Superphosphate Red Steer Brand					
5521 Morganfield Hdw. Co., Morganfield	....	20.98	....	26.0	27.3
5522 Farmers Supply Co., Roadfork	....	20.68	....	26.0	26.9
TENNESSEE CORPORATION, New Albany, Ind., Lockland, Ohio.					
6-8-6 (Sulfate) "Superior Quality Brand"					
4779 Holman Lewis, Summersville	6.00	8.50	6.40	35.6	36.6
4780 Denton Mercantile Co., Hillsboro	5.40	9.88	6.38	35.6	37.0
4781 Haydon Mill & Grain Co., Lebanon	<u>5.79</u>	8.45	6.69	35.6	36.4
4949 Ward Oats Supply Co., Frankfort	5.94	8.40	6.71	35.6	36.7
4950 Paintsville Grocery, Paintsville	5.95	8.43	6.07	35.6	36.1
4951 Owsley Farm Service, Boonesville	5.92	8.38	6.50	35.6	36.4
4952 Hester & Porter, Hustonville	6.09	9.05	6.21	35.6	37.3
5023 Garrard Lumber Co., Lancaster	5.86	8.55	6.63	35.6	36.6
5024 E. W. Barker, Bryantsville	5.91	8.65	5.95	35.6	36.2
5169 Hoagland's Hdw. Co., Sacramento	5.83	8.48	6.44	35.6	36.3
5403 Brock Bros. Grain Co., Maysville	5.85	8.78	6.52	35.6	36.8
5404 Campbellsburg Coal Co., Campbellsburg	6.07	9.48	5.90	35.6	37.4
5-10-10 (Sulfate)					
4953 Farmers Cooperative Store, Owensboro	4.93	9.93	9.88	40.0	39.7
5025 C. M. Warner, Nancy	4.77	10.13	<u>9.68</u>	40.0	39.4
5096 Houston Bros., Brodhead	4.94	10.23	<u>9.95</u>	40.0	40.1
5405 Kratzer Supply Co., Mt. Sterling	4.58	11.60	9.75 <sup>s</sup>	40.0	40.8
5523 Bi-County Farm Bureau Co-op., Erlanger	<u>4.89</u>	10.25	10.03	40.0	40.1
5524 Southern States Newport Co-op., Alexandria	4.88	10.70	9.70	40.4	40.3
5525 Clay-Gentry Stock Yards, Lexington	4.92	10.05	<u>10.04</u>	40.0	39.9
4-12-8 (Muriate) "Superior Quality Brand"					
4782 Ryle & Hambrick, Burlington	3.88	11.88	<u>7.54</u>	38.4	37.6
4954 Farmers Co-op Store, Owensboro	4.22	11.95	<u>8.38</u>	38.4	39.2
4955 Paintsville Grocery, Paintsville	4.20	11.88	<u>7.60</u>	38.4	38.3
5646 Harrison Bros. Farm Supply, Berea	4.16	12.40	<u>8.11</u>	38.4	39.3
4-12-8 (Sulfate)					
4648 Scott McClain, Taylorsville	4.32	12.53	8.29	38.4	40.0
4783 I. K. Miller & Son, Campbellsville	4.16	11.93	8.46	38.4	39.1
4784 Ryle & Hambrick, Burlington	4.00	13.53	8.15	38.4	40.4
4956 J. E. Whitt, Frenchburg	3.93	12.15	8.21	38.4	38.7
4957 Morrow's Store, Dixon	4.21	<u>11.50</u>	8.90	38.4	39.1
4958 Farmers Supply Co., Monticello	3.95	<u>12.40</u>	8.16	38.4	38.9
4959 Hester & Porter, Hustonville	3.99	12.45	8.30	38.4	39.2
5026 Garrard Lumber Co., Lancaster	4.36	12.40	8.29	38.4	40.0
5027 E. W. Barker, Bryantsville	3.94	12.80	8.24	38.4	39.5
5170 Hoagland's Hdw. Co., Sacramento	4.18	11.50	8.71	38.4	38.9
5406 H. R. Squires, Greensburg	4.14	<u>12.68</u>	8.60	38.4	40.1
5407 Platz Garage, Ghent	4.01	12.90	8.10	38.4	39.6
5408 Dorsey Bros. & Fisher, Carlisle	4.14	12.60	8.55	38.4	40.0
5526 Fay Bell & Son, Clarkson	4.18	12.50	8.46	38.4	39.8
4-12-8 (Muriate 4, Sulfate 4) "Superior Quality Brand"					
5409 H. T. Roberts, Frenchburg	4.00	13.08	8.10	38.4	39.8

s. Excess muriate equivalent to 0.97 percent potash



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Table 1 - 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
TENNESSEE CORPORATION (Cont'd.)					
3-18-9 (Muriate) "Superior Quality Brand" 4960 Farmers Co-op Store, Owensboro	3.24	17.18	9.14	44.6	44.2
3-12-12 (Muriate) "Superior Quality Brand" 5252 Farmers Co-op Store, Owensboro	3.10	11.90	12.31	40.4	40.8
5527 Bi-County Farm Bureau, Erlanger	3.12	12.18	11.95	40.4	40.8
3-9-6 (Muriate) "Superior Quality Brand" 4961 Paintsville Grocery, Paintsville	2.86	9.30	6.16	30.8	31.0
5253 Farmers Co-op Store, Owensboro	3.08	9.80	6.15	30.8	32.1
5410 Brock Bros. Grain Co., Maysville	3.03	10.15	6.00	30.8	32.2
3-9-6 (Sulfate) "Superior Quality Brand" 4962 Farmers Co-op Store, Owensboro	2.67	9.70	8.63 <sup>t</sup>	30.8	33.6
4963 Southern States Co-op., Frankfort	2.98	9.35	5.90	30.8	31.1
4964 Hester & Porter, Hustonville	2.90	9.68	5.96	30.8	31.4
5411 Davis Gillespie, Mayslick	2.92	10.20	5.83	30.8	31.9
5412 L. & R. Feed Store, Owenton	2.97	10.75	5.91	30.8	32.8
5413 Brock Bros. Grain Co., Maysville	2.87	10.10	6.44 <sup>u</sup>	30.8	32.3
5647 Harrison Bros. Farm Supply, Berea	3.00	10.20	5.72	30.8	32.0
2-12-6 (Muriate) 4785 Haydon Mill & Grain Co., Lebanon	2.14	12.08	5.94	32.4	32.7
4965 Morrow's Store, Dixon	2.11	12.48	6.41	32.4	33.6
5028 Cumberland Farm Supply, Cumberland	2.13	11.95	6.10	32.4	32.7
5171 Hoagland's Hardware Co., Sacramento	2.01	11.93	6.11	32.4	32.5
5254 Walters & Thompson, Shelbyville	1.99	12.00	5.80	32.4	32.2
5414 Davis Gillespie, Mayslick	2.02	12.80	6.27	32.4	33.7
5528 Keller Hay & Grain Co., Newport	2.34	12.23	6.27	32.4	33.6
5648 D. H. Tate, Monticello	2.02	12.02	5.80	32.4	32.3
20% Superphosphate "Superior Quality Brand" 4786 I. K. Miller & Son, Campbellsville	....	21.23	....	26.0	27.6
4966 J. E. Whitt, Frenchburg	....	20.13	....	26.0	26.2
5029 C. M. Warner, Nancy	....	20.40	....	26.0	26.5
5097 Noble Faulkner, Williamsburg	....	19.83	....	26.0	25.8
5255 Hancock Feed Store, Middletown	....	20.05	....	26.0	26.1
5529 Fay Bell & Son, Clarkson	....	20.30	....	26.0	26.4
33.50% Ammonium Nitrate 4787 Denton Mercantile Co., Hillsboro	33.88	.....	.....	67.0	67.8
5416 Dorsey Bros. & Fisher, Carlisle	33.92	.....	.....	67.0	67.8
21.50% Sulfate of Potash Magnesia 5649 D. B. Saylor, Mt. Vernon	....	.....	22.28	43.0	44.6
U. S. PHOSPHORIC PRODUCTS CO., BR. TENNESSEE CORP., Lockland, Ohio.					
46% Superphosphate (Florida) 5415 Davis Gillespie, Mayslick	....	46.55	....	59.8	60.5

t. Excess muriate equivalent to 3.03 percent potash

u. " " " " 0.95 " "

Analyses of Official Fertilizer Samples

Table 1 - 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
VALLEY COUNTIES OF KENTUCKY COOPERATIVE, Murray, Ky.					
6-8-6 (Muriate) 5256 Farmers Cooperative Store, Owensboro	6.11	8.28	6.13	35.6	36.3
4-12-8 (Sulfate) 5172 Southern States Co-op., Hawesville	4.22	11.85	8.23	38.4	38.9
49% Superphosphate 5651 Marshall County Soil Imp. Asso., Benton	....	49.83	....	63.7	64.8
48% Superphosphate 5417 Southern States Co-op., Carlisle	....	47.15	....	62.4	61.3
5418 Farmers Cooperative, Madisonville	....	47.60	....	62.4	61.9
5419 Southern States Co-op., Maysville	....	49.53	....	62.4	64.4
VIRGINIA-CAROLINA CHEMICAL CORPORATION, Cincinnati, Ohio., Mt. Pleasant, Tenn.					
8-8-8 (Muriate) 5257 Cottingham Grain Co., Henderson	7.52	8.88	7.80	41.6	41.5
5532 Farmers Supply Co., Morganfield	<u>7.26</u>	9.10	7.99	41.6	41.4
6-8-12 (Muriate 3, Sulfate 9) 5030 Madison Farmers Supply, Richmond	6.02	8.45	11.21	41.6	41.4
5652 Lexington Seed Co., Lexington	5.96	8.43	<u>11.66</u>	41.6	41.7
6-8-6 (Muriate) 5258 Ashland Feed & Seed Co., Ashland	6.14	8.48	6.42	35.6	36.9
5259 R. L. Phillips & Son, Owensboro	<u>5.66</u>	8.70	6.23	35.6	36.0
5420 E. M. Osborne Gen. Mdse., Beech Grove	<u>5.70</u>	9.03	6.29	35.6	36.5
4882 Miss Agnes Davis, Russellville	<u>4.67</u>	9.28	5.96	35.6	34.4
5173 Hopkinsville Impl. Co., Hopkinsville	<u>5.65</u>	8.20	6.07	35.6	35.2
5533 Miss Agnes Davis, Russellville	<u>5.49</u>	8.95	5.98	35.6	35.7
5653 J. W. Purkey & Sons, Berea	<u>5.84</u>	9.00	6.41	35.6	36.9
6-8-6 (Sulfate) 4711 A. C. Bogie, Winchester	5.77	9.23	6.21	35.6	36.8
4619 Stanley Galbraith & Son, Carlisle	6.13	8.90	6.11 <sup>v</sup>	35.6	37.1
4967 Jett Coal & Supply Co., Jett	5.95	8.63	6.08	35.6	36.3
5031 Dodd's Corner, Nicholasville	6.08	8.58	6.37	35.6	36.8
5032 Sanders & Rankin, Lancaster	6.18	7.90	6.26	35.6	36.1
5098 Knox County Supply Co., Barbourville	6.00	8.68	6.11	35.6	36.5
5099 Stewart & Co., Munfordville	6.02	8.40	6.39	35.6	36.5
5174 Hardin County Mills, Elizabethtown	6.05	8.00	6.32	35.6	36.0
5260 Shelby Feed & Seed Co., Shelbyville	5.83	8.53	6.16	35.6	36.1
5421 Woodford Feed Co., Versailles	5.61	9.05	6.21	35.6	36.3
5654 Vitatoe's General Store, Monticello	<u>6.05</u>	8.60	5.95	35.6	36.4
5655 Lexington Seed Co., Lexington	5.94	8.70	6.81	35.6	37.1
5-10-5 (Muriate) 5534 Eastern Coal Corporation, McVeigh	5.00	10.23	5.23	35.0	35.5
5535 Belfry Grocery, Belfry	4.91	10.70	5.31	35.0	36.0
4-12-8 (Muriate) 5261 Paintsville Grocery, Paintsville	<u>3.68</u>	13.15	<u>7.28</u>	38.4	38.4

v. Excess muriate equivalent to 0.31 percent potash



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Table 1 - 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., (Cont'd.)					
4-12-8 (Sulfate)					
5175 Woodford Spears & Son, Paris	3.96	12.40	7.98	38.4	38.8
5262 Shelby Feed & Seed Co., Shelbyville	4.10	11.93	8.39	38.4	38.9
5422 Eubank Lumber & Supply Co., Bloomfield	4.08	12.60	8.51	38.4	39.8
5536 Miss Agnes Davis, Russellville	3.87	12.50	8.85 <sup>w</sup>	38.4	39.6
4-12-4 (Muriate)					
5033 Dodd's Corner, Nicholasville	4.37	13.00	4.35	34.4	36.8
5100 Bell County Supply Co., Middlesboro	4.16	12.05	4.25	34.4	35.0
5263 Shelby Feed & Seed Co., Shelbyville	3.85	13.70	3.98	34.4	36.1
5423 Eubank Lumber & Supply Co., Bloomfield	3.67	12.08	4.97	34.4	34.8
5537 Belfry Grocery, Belfry	4.05	12.53	4.04	34.4	35.2*
5538 East Jenkins Food Market, E. Jenkins	4.04	12.33	4.09	34.4	35.0
5539 Powell Hackney Grocery, Hazard	4.12	12.63	4.14	34.4	35.5
3-12-12 (Muriate)					
5176 Hopkinsville Impl. Co., Hopkinsville	2.77	12.20	10.63	40.4	38.8
3-9-6 (Muriate)					
5101 R. D. Reynolds, Cave City	3.04	9.10	6.39	30.8	31.4
5102 Bell County Supply Co., Middlesboro	3.08	9.00	6.00	30.8	31.0
5264 Paintsville Grocery, Paintsville	3.12	9.55	6.44	30.8	32.1
5265 Grayson Milling Co., Grayson	3.09	9.95	6.32	30.8	32.4
5424 U. L. Rogers, Columbia	2.95	9.15	6.17	30.8	31.1
2-12-6 (Muriate)					
4789 Carter Sparks, Edmonton	2.06	12.83	6.21	32.4	33.7
4883 Farmers Supply Co., Morganfield	2.27	11.30	6.14	32.4	32.2
5103 Big 4 Feed & Impl. Co., Scottsville	2.18	11.90	6.03	32.4	32.7
5266 Ashland Feed & Seed Co., Ashland	2.28	12.78	6.38	32.4	34.3
5540 Farmers Supply Co., Morganfield	2.20	11.95	6.41	32.4	33.2
5541 Robinson Impl. Co., Princeton	2.05	13.13	5.92	32.4	33.8
0-12-12 (Muriate)					
4884 Miss Agnes Davis, Russellville	....	12.80	10.60	32.4	32.0
20% Superphosphate					
4790 Stagg Brothers, Vanceburg	....	20.13	....	26.0	26.2
5104 Knox County Supply Co., Barbourville	....	21.38	....	26.0	27.8
5177 Hardin County Mills, Elizabethtown	....	20.85	....	26.0	27.1
5267 Louisa Supply Co., Louisa	....	19.53	....	26.0	25.5
5268 Shelby Feed & Seed Co., Shelbyville	....	20.18	....	26.0	26.2
5542 Kentucky Wholesale Co., Pikeville	....	20.15	....	26.0	26.2
16% Nitrate of Soda					
4791 Carter Sparks, Edmonton	16.16	.....	....	48.0	48.5
5105 Bell County Supply Co., Middlesboro	16.00	.....	....	48.0	48.0
33.50% Ammonium Nitrate					
4638 Casey County Hatchery, Liberty	33.44	.....	....	67.0	66.9
4968 J. W. Whitt, Frenchburg	33.44	.....	....	67.0	66.9
5178 J. T. Beard Feed Co., Crofton	33.44	.....	....	67.0	66.9
48% Sulfate of Potash					
4620 Rowan Farmers Supply, Morehead	....	.....	48.52	52.8	53.4
4639 Casey County Hatchery, Liberty	....	.....	48.68	52.8	53.5

\*w. Excess muriate equivalent to 0.61 percent potash

Analyses of Official Fertilizer Samples

TABLE 2 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, etc.

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Phosphoric Acid				Index of relative value	
	Available		Total			
	Guar.	Found	Guar.	Found	Guar.	Found
THE AMERICAN AGRICULTURAL CHEMICAL CO., Cincinnati, Ohio.						
Ground Phosphate Rock						
4649 Joseph Davenport, Bowling Green	3.00	3.35	30.00	30.95	15.0	15.5
ROBIN JONES PHOSPHATE COMPANY, Nashville, Tennessee.						
Rock Phosphate "Arrow Brand"						
5086 Paducah Hatchery & Feed Store, Paducah	2.00	2.30	30.00	30.55	15.0	15.3
5517 Logan County Seed Co., Russellville	2.00	2.90	30.00	30.10	15.0	15.1
RUHM PHOSPHATE & CHEMICAL CO., Mt. Pleasant, Tenn.						
Phosphate Rock "Red Seal Brand"						
4880 Farmers Supply Co., Morganfield	....	....	30.00	30.50	15.0	15.3
5396 Buckhorn Coal Co., Campbellsville	....	....	30.00	30.30	15.0	15.2
SCHROCK FERTILIZER SERVICE, Congerville, Ill.						
Phosphate Rock						
4777 Owingsville Farmers Supply, Owingsville	....	....	33.0	33.4	16.5	16.7
TENNESSEE COAL, IRON & RAILROAD CO., Birmingham, Ala.						
Low Grade Open Hearth Basic Slag						
5402 Shipp & Allen, Campbellsville	....	....	8.00	11.40	8.0	11.4
THOMSON PHOSPHATE COMPANY, Chicago 5, Ill.						
Rock Phosphate "Four Leaf Brand" (Florida)						
5530 Joe Nickell, Daysboro	2.00	3.45	31.00	31.45	15.5	15.7
Rock Phosphate "Four Leaf Powdered"						
4788 K. W. Buchanan, Manitou	2.00	2.15	30.00	29.90	15.0	15.0
5531 Simpson Farmers Co-op., Franklin	2.00	2.35	30.00	30.55	15.0	15.3
5650 Ed. Berman, Shepherdsville	2.00	2.90	30.00	30.10	15.0	15.1