

# ANALYSES OF OFFICIAL FERTILIZER SAMPLES

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by the

FEED AND FERTILIZER DEPARTMENT  
KENTUCKY AGRICULTURAL EXPERIMENT STATION

Semi-Annual Report  
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UNIVERSITY OF KENTUCKY, LEXINGTON  
27257

## Regulatory Bulletin No. 76

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 CO., Cincinnati, Ohio					
6-8-6 (Muriate 3, Sulfate 3)					
2736 Lancaster Coal & Feed Co., Lancaster	5.92	8.25	6.21	35.6	36.0
2813 J. M. Milling Co., Frankfort	5.80	8.60	6.05	35.6	36.0
3055 Oldham Feed & Supply Co., Buckner	5.93	8.33	6.08	35.6	35.9
3260 L. F. Wellman, Louisa	5.94	8.00	6.04	35.6	35.5
5-10-10 (Muriate)					
3261 L. F. Wellman, Louisa	5.25	9.98	10.51	40.0	41.0
3262 Ravenna Grocery, Ravenna	5.21	10.00	10.51	40.0	41.0
4-12-8 (Muriate 4, Sulfate 4)					
2814 J. M. Milling Co., Frankfort	4.03	12.33	7.98	38.4	38.8
3056 Bradley & Kerns, Moorefield	4.03	12.15	8.19	38.4	38.8
3057 E. J. Vanhook, Moreland	3.98	12.20	7.99	38.4	38.6
3058 Henderson & Hardy Co., Shepherdsville	3.88	12.15	8.02	38.4	38.4
3263 Weisenberger San. Flour Mills, Midway	4.14	12.53	7.76	38.4	39.1
3264 L. F. Wellman, Louisa	3.98	12.20	8.18	38.4	38.8
3265 Melton Grocery Co., Lynnville	4.24	12.30	8.05	38.4	39.3
3266 Lebanon Carriage & Implement Co., Lebanon	4.00	12.20	8.20	38.4	38.8
3267 Ross Feed Co., Murray	4.29	12.08	8.21	38.4	39.3
4-12-4 (Muriate)					
2915 Rowland's Feed & Hdw. Store, Owensboro	3.83	12.20	4.52	34.4	34.8
4-12-0					
2737 Mountain Dew Coal Company, Lexington	3.90	12.40	....	28.4	28.7
2815 Bedford & Tuttle, Winchester	3.95	12.45	....	28.4	28.8
3268 Johnson Coleman, Brooksville	3.89	12.33	....	28.4	28.6
3-9-6 (Muriate)					
3269 Booneville Wholesale Co., Booneville	2.87	9.50	5.96	30.8	31.1
3270 Lebanon Carriage & Impl. Co., Lebanon	2.89	9.48	6.04	30.8	31.2
3271 Middlesboro Wholesale Co., Middlesboro	2.89	9.60	6.00	30.8	31.3
3-9-6 (Muriate 3, Sulfate 3)					
2916 Rowland's Feed & Hdw. Store, Owensboro	2.98	9.43	5.82	30.8	31.1
3059 Baughman Milling Co., Stanford	2.98	9.30	6.08	30.8	31.2
3272 Rowland's Feed & Hdw. Store, Owensboro	3.08	9.55	5.79	30.8	31.4

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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 AMERICAN AGRICULTURAL CHEMICAL CO., (Cont'd.)</b>					
3273 L. F. Wellman, Louisa	2.94	9.48	6.04 <sup>a</sup>	30.8	31.3
3274 Triplett's Store, South Corbin	3.04	9.35	5.99 <sup>b</sup>	30.8	31.3
3275 John A. Sheehan, Falmouth	3.00	9.40	6.11 <sup>c</sup>	30.8	31.4
<b>2-12-6 (Muriate)</b>					
2671 Baughman Milling Co., Stanford	1.83	12.03	6.18	32.4	32.3
2917 J. R. Williams Hdw. Store, Beaver Dam	1.93	12.30	5.85	32.4	32.5
3060 Norris Hdw. & Seed Co., Henderson	1.97	11.83	6.11	32.4	32.3
3061 Hayes Hardware Store, Dawson Springs	1.99	12.00	5.86	32.4	32.2
3062 E. J. Vanhook, Moreland	2.03	12.33	6.13	32.4	33.0
3276 Douthitt & Spillman Feed Mills, Wingo	1.97	12.33	6.25	32.4	33.0
3277 Lebanon Carriage & Impl. Co., Lebanon	1.92	13.03	6.25	32.4	33.7
3278 L. C. McLoney & Sons, Cynthiana	1.98	12.50	6.44	32.4	33.4
<b>18% Superphosphate</b>					
2672 Baughman Milling Co., Stanford	....	18.43	....	23.4	24.0
3279 L. F. Wellman, Louisa	....	18.95	....	23.4	24.6
3280 Lebanon Carriage & Impl. Co., Lebanon	....	18.60	....	23.4	24.2
3281 Crab Orchard Lumber Co., Crab Orchard	....	18.60	....	23.4	24.2
3282 Rowland's Hdw. & Feed Store, Owensboro	....	18.63	....	23.4	24.2
3283 Triplett's Store, South Corbin	....	19.35	....	23.4	25.2
3284 Henry County Farm & Home Service, Eminence	....	18.78	....	23.4	24.4
3285 Kentucky State Reformatory, LaGrange	....	18.58	....	23.4	24.2
<b>ARMOUR FERTILIZER WORKS, Cincinnati, O., Nashville, Tenn., Jeffersonville, Ind.</b>					
<b>6-8-6 (Muriate) "Big Crop Brand"</b>					
2673 Farmers Gin Co., Clinton	5.67	8.33	5.31	35.6	34.7
2816 Forbes Hardware Co., Hopkinsville	5.87	10.73	5.82	35.6	38.4
<b>6-8-6 (Sulfate) Armour's</b>					
2609 Penn & Ratcliffe Co., Campbellsville	5.95	8.40	6.05	35.6	36.0
2610 J. T. Brown & Son, Burkesville	5.31	7.70	6.24	35.6	34.1
2611 Mt. Sherman Hdw. Store, Mt. Sherman	6.22	8.58	6.35	35.6	37.1
2612 J. C. Everett & Co., Maysville	5.87	8.30	6.19	35.6	35.9
2613 Skelton's General Store, Shelbyville	6.02	7.95	6.24	35.6	35.8
2674 Page & Goulder Impl. Co., Barlow	5.87	8.50	6.12	35.6	36.1
2675 Salyersville Cash & Carry Store, Salyersville	5.85	8.48	6.18	35.6	36.1
2676 Saufley & Bell, Stanford	5.78	8.40	6.23	35.6	35.9
2677 Brent & Co., Paris	5.80	8.40	6.18	35.6	35.9

- a. Excess Muriate equivalent to 1.44 percent potash  
b. Excess Muriate equivalent to 0.43 percent potash  
c. Excess Muriate equivalent to 0.38 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
ARMOUR FERTILIZER WORKS,(Cont'd.)					
2738 Anderson & Spilman, Danville	5.85	8.45	6.04	35.6	35.9
2918 J. W. Purkey, Berea	5.70	8.13	6.16	35.6	35.3
3064 Liberty Hdw. Store, Liberty	5.70	8.35	5.98	35.6	35.4
3065 J. von Grunegan, Nicholasville	5.83	8.23	5.98	35.6	35.5
3289 Big Four Feed & Impl. Co., Scottsville	5.54	8.80	5.83	35.6	35.5
3290 T. G. Smithers, Bagdad	6.03	8.30	6.19	35.6	36.2
3291 J. C. Everett & Co., Maysville	5.44	8.68	5.88	35.6	35.2
3292 Sphar & Co., Winchester	6.19	8.65	6.49	35.6	37.3
3293 Jellico Grocery, Corbin	5.50	8.68	6.21	35.6	35.6
5-10-5 (Muriate) "Velvetgreen Brand"					
2614 Marattay Brothers, Taylorsville	5.15	10.20	5.59	35.0	36.1
2615 U. L. Rogers, Columbia	5.06	10.60	5.29	35.0	36.1
2678 Brent & Co., Paris	4.95	10.55	5.23	35.0	35.9
2679 Salyersville Wholesale Grocery, Salyersville	4.95	10.45	5.22	35.0	35.7
2680 Page & Goulder Impl. Co., Barlow	4.92	10.78	5.10	35.0	35.9
2739 Peoples General Store, Paint Lick	5.15	10.40	5.18	35.0	36.0
3066 M. F. Bryant & Son Mfg. Co., Sebree	4.78	10.88	5.04	35.0	35.7
3067 H. W. Duvall, Park City	4.90	10.28	5.24	35.0	35.4
3068 Goodman Bros. Co., Shelbyville	5.17	10.30	5.35	35.0	36.1
5-10-5 (Sulfate) Armour's "Velvetgreen Brand"					
2919 Ideal Hdw. Co., Glasgow	4.86	10.38	5.08	35.0	35.3
2920 Robert E. Kratzer, Mt. Sterling	4.98	10.25	5.30	35.0	35.6
3069 Jerome Glass, Grayson	4.90	10.35	5.20	35.0	35.4
3070 E. M. Bryant, Tollesboro	5.05	10.20	5.10 <sup>a</sup>	35.0	35.4
3294 J. C. Everett & Co., Maysville	4.89	10.28	5.13	35.0	35.3
3295 Guy Armes Impl. Co., Hardinsburg	4.93	10.28	5.65	35.0	35.9
3296 Pulaski Feed Co., Somerset	4.90	10.75	5.04	35.0	35.7
4-12-8 (Sulfate) Armour's					
2616 Farmers Supply Co., Hodgenville	3.85	12.20	7.89	38.4	38.2
2681 Brent & Co., Paris	3.94	12.38	8.22	38.4	39.1
2740 Coffey's Store, Yosemite	4.36	11.48	7.50	38.4	38.0
2741 Peoples General Store, Paint Lick	3.77	12.68	7.35	38.4	38.1
2817 B. C. Morris, McKinney	3.59	12.15	7.99	38.4	37.8
2921 O'Rear Hdw. Store, Mt. Sterling	3.89	12.05	7.71	38.4	38.0
3071 S. E. Hale & Son, Greenville	3.92	11.65	7.51	38.4	37.3
3072 E. M. Bryant, Tollesboro	3.89	12.03	8.10	38.4	38.3
3073 Quality Grocery & Hdw. Co., Greenville	3.91	11.80	6.32 <sup>b</sup>	38.4	36.3
3074 Frank B. Marksburg, Lancaster	3.89	12.05	7.95	38.4	38.2
3297 John B. Penn, Georgetown	3.61	12.20	8.43	38.4	38.3
3298 J. C. Everett & Co., Maysville	3.99	12.03	8.18	38.4	38.6
3299 Holloway Hdw. Co., Wingo	3.94	11.70	8.19	38.4	38.1
4-12-4 (Muriate) "Big Crop Brand"					
2922 Tichenor Bros., Calhoun	3.84	11.50	4.06	34.4	33.5
3075 Jerome Glass, Grayson	3.71	11.65	4.59	34.4	34.0
3076 Powell-Hackney Grocery, Jackson	3.89	11.45	4.29	34.4	33.8

a. Excess Muriate equivalent to 3.76 percent potash

b. Excess Muriate equivalent to 1.05 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	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
ARMOUR FERTILIZER WORKS, (Cont'd.)					
3300 Clay County Grocery, Manchester	3.87	12.33	4.14	34.4	34.7
3301 Bray & Co., Gamaliel	<u>3.16</u>	<u>9.60</u>	7.19	34.4	<u>33.0</u>
4-12-4 (Sulfate) Armour's					
2742 Ravenna Grocery, Ravenna	3.81	12.18	5.91 <sup>a</sup>	34.4	36.2
2923 Shay Hinton, Flemingsburg	3.94	12.25	5.10 <sup>b</sup>	34.4	35.7
3077 Edgar Skelton, Shelbyville	3.90	12.50	4.66	34.4	35.5
3078 Jim Pyles, Junction City	4.01	12.55	4.00	34.4	35.1
3079 Frank B. Marksburg, Lancaster	3.73	11.40	4.71	34.4	33.9
3080 Liberty Hdw. Co., Liberty	<u>3.67</u>	<u>12.30</u>	4.41	34.4	34.5
3302 John B. Penn, Georgetown	3.75	11.83	4.66	34.4	34.4
3-9-6 (Muriate) "Big Crop Brand"					
2743 Howard Wholesale Co., West Prestonsburg	2.98	9.23	5.98	30.8	31.0
2744 Butterworth Seed Co., Mayfield	3.20	9.70	6.25	30.8	32.3
2745 Ravenna Grocery, Ravenna	<u>2.72</u>	8.98	5.93	30.8	30.2
2818 Forbes Hdw. Co., Hopkinsville	3.07	9.35	6.24	30.8	31.6
2819 Middlesboro Wholesale Gro., Middlesboro	3.03	9.05	5.98	30.8	30.9
2924 Bullock & Bullock, Mt. Vernon	3.06	8.85	6.26	30.8	31.0
3081 Halls Hdw. Co., Elkton	2.91	9.00	5.80	30.8	30.4
3-9-6 (Sulfate) Armour's					
2617 U. L. Rogers, Columbia	3.00	9.60	6.22	30.8	31.7
2635 C. W. Whittaker & Sons, Richmond	3.01	9.00	6.08	30.8	30.9
2820 Mt. Sherman Hdw. Co., Mt. Sherman	2.82	9.50	6.00	30.8	31.0
2821 U. L. Rogers, Columbia	3.02	10.10	6.08	30.8	32.2
2925 The T. J. Turley Co., Owensboro	2.99	8.98	6.08	30.8	30.8
2926 H. D. Jones, Glasgow	2.56	9.23	5.95	30.8	30.2
2927 J. W. Purkey, Berea	<u>3.01</u>	8.95	<u>5.62</u>	30.8	30.4
2928 O'Rear Hdw. Co., Mt. Sterling	3.23	9.18	6.01	30.8	31.5
3082 J. Von Gruenigan, Nicholasville	2.89	9.65	6.19	30.8	31.6
3083 Edgar Skelton, Shelbyville	<u>2.60</u>	<u>8.73</u>	5.99	30.8	29.7
3304 Jellico Grocery, Corbin	<u>2.53</u>	10.30	6.11	30.8	31.5
3305 Sphar & Co., Winchester	3.50	10.28	6.27	30.8	33.6
3306 Smith & Jackson, Cropper	<u>2.70</u>	<u>8.70</u>	6.16	30.8	30.0
3307 Guy Armes Impl. Co., Hardinsburg	<u>2.88</u>	<u>9.20</u>	5.90	30.8	30.7
2-12-6 (Muriate) "Big Crop Brand"					
2682 Halls Hdw. & Gro. Co., Elkton	2.14	12.13	6.30	32.4	33.1
2746 Ravenna Grocery, Ravenna	2.08	12.03	5.93	32.4	32.5
2822 Mt. Sherman Hdw. Co., Mt. Sherman	2.04	12.15	6.22	32.4	32.9
2929 M. G. Prewitt Impl. Co., Bowling Green	2.28	12.20	5.98	32.4	33.2
2930 Bullock & Bullock, Mt. Vernon	2.05	11.83	6.24	32.4	32.5
2931 G. M. Haycraft & Son, Leitchfield	2.00	11.78	6.26	32.4	32.4
3084 D. H. Tate, Monticello	2.04	12.20	6.14	32.4	32.9
3085 Elkins & Rose, Stillwater	1.92	11.93	5.98	32.4	32.1
3308 T. G. Smithers, Bagdad	2.06	12.25	6.54	32.4	33.4
3309 Sphar and Co., Winchester	2.16	12.20	6.63	32.4	33.6
3310 Nu Hardware & Service Station, Island	2.00	11.60	6.16	32.4	32.1
3311 Barren County Hdw. Co., Glasgow	1.88	<u>12.30</u>	6.55	32.4	33.1

a. Excess Muriate equivalent to 1.63 percent potash  
 b. Excess Muriate equivalent to 0.70 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
ARMOUR FERTILIZER WORKS, (Cont'd.)					
20% Superphosphate, "Big Crop Brand"					
2747 Ravenna Grocery, Ravenna	....	20.00	....	26.0	26.0
2823 Penn & Ratcliffe, Campbellsville	....	19.85	....	26.0	25.8
2932 G. M. Haycraft & Son, Leitchfield	....	20.80	....	26.0	27.0
2933 Peck's Farmers Supply Co., Sharpsburg	....	19.75	....	26.0	25.7
3086 Skelton's General Store, Shelbyville	....	20.00	....	26.0	26.0
3312 Clay County Grocery, Manchester	....	20.38	....	26.0	26.5
3313 Morris Feed Store, Somerset	....	20.20	....	26.0	26.3
16% Nitrate of Soda, Armour's					
2934 O'Rear Hdw. Store, Mt. Sterling	16.28	....	....	48.0	48.7
3314 O'Rear Hdw. Store, Mt. Sterling	16.24	....	....	48.0	48.7
ASSOCIATED COOPERATIVES, INC., Sheffield, Alabama					
48% Superphosphate					
2748 Southern States Co-op., Somerset	....	48.05	....	62.4	62.5
2825 Southern States Co-op., Lebanon	....	46.90	....	62.4	61.0
47% Superphosphate					
2824 Columbia Bldg. & Supply Co., Columbia	....	46.98	....	61.1	61.1
2935 Southern States Co-op., Flemingsburg	....	47.35	....	61.1	61.6
3087 Farmers Supply Co., Paintsville	....	47.13	....	61.1	61.3
3088 Farmers Co-op., Madisonville	....	47.05	....	61.1	61.2
3315 Southern States Co-op., Maysville	....	47.00	....	61.1	61.1
46% Superphosphate					
2936 Bray & Co., Gamaliel	....	47.88	....	59.8	62.2
2937 Southern States Co-op., Flemingsburg	....	46.20	....	59.8	60.1
3089 Southern States Co-op., Madisonville	....	46.00	....	59.8	59.8
45% Superphosphate					
3090 Henderson Feed & Commission Co., Henderson	....	47.28	....	58.5	61.5
33% Ammonium Nitrate					
2826 Morrison & Wallace, Hodgenville	33.24	....	....	66.0	66.5
2938 Bullock & Bullock, Mt. Vernon	33.92	....	....	66.0	65.8
3091 Deaton Bros., Jackson	33.80	....	....	66.0	67.6
3316 Southern States Co-op., Bardstown	33.88	....	....	66.0	67.8
THE BARRETT DIV., ALLIED CHEMICAL & DYE CORP., New York 6, N. Y.					
16% Nitrate of Soda, Arcadian the American					
2939 Kratzer Supply Co., Mt. Sterling	16.16	....	....	48.0	48.4
3092 Farmers Supply Co., Danville	16.36	....	....	48.0	49.1
3093 Upton Hardware Co., Upton	16.24	....	....	48.0	48.7
3318 W. C. Howk, Cynthiana	16.40	....	....	48.00	49.2
3317 Walker Greer, Camargo	16.40	....	....	48.0	49.2

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
THE BARRETT DIV., ALLIED CHEM. & DYE CORP., (Cont'd.)					
20.50% A-N-L					
2749 J. H. Greene, Lexington	21.12	....	....	41.0	42.2
3094 Western Ky. Experiment Substation, Princeton	20.60	....	....	41.0	41.2
BLUEGRASS PLANT FOODS, INC., Cynthiana, Ky.					
6-8-6 (Muriate 3, Sulfate 3) "Bluegrass Brand"					
3095 Steve Rose Market, Campton	5.86	8.43	6.67	35.6	36.5
3319 Sandy Valley Grocery, Paintsville	5.92	8.68	6.21	35.6	36.9
3320 W. C. Howk, Cynthiana	6.00	8.45	6.63	35.6	36.8
4-10-6 (Sulfate) "Bluegrass Brand"					
3096 Wells Produce Co., Carlisle	3.95	10.45	6.58	34.0	35.0
3321 J. C. Everett & Co., Maysville	4.26	9.90	6.62	34.0	35.0
4-10-6 (Muriate 3, Sulfate 3) "Bluegrass Brand"					
2750 Manufacturer's warehouse	4.06	10.30	6.36	34.0	34.8
3097 Wells Produce Co., Carlisle	3.77	10.48	6.52	34.0	34.6
3322 Sandy Valley Grocery, Paintsville	4.19	10.10	6.44	34.0	34.9
3-12-12 (Muriate 6, Sulfate 6) "Bluegrass Brand"					
3323 W. C. Howk, Cynthiana	3.49	12.00	12.09	40.4	41.5
20% Superphosphate					
3324 W. C. Howk, Cynthiana	....	20.53	....	26.0	26.7
BUHNER FERTILIZER CO., Seymour, Indiana					
6-8-6 (Muriate) Buhner's					
3166 Irvington Coal & Feed Co., Irvington	5.73	7.60	6.04	35.6	34.6
3167 Thompson & Wilson, Booneville	5.51	7.40	5.98	35.6	33.9
3168 Hedgspeth & Mardis, Campbellsville	5.65	7.78	5.93	35.6	34.6
6-8-6 (Muriate 3, Sulfate 3) Buhner's					
3169 Shelby Feed & Seed Co., Shelbyville	5.95	8.35	5.98	35.6	35.9
3444 Carter's Feed Store, Forks of Elkhorn	5.76	8.03	6.05	35.6	35.2
3-12-12 (Muriate) Buhner's					
3445 Joe Fister, Lexington	2.96	11.45	11.64	40.4	39.3
3-9-6 (Muriate) Buhner's					
3170 Thompson & Wilson, Booneville	2.81	9.28	7.03	30.8	31.8
3171 Shelby Feed & Seed Co., Shelbyville	2.90	9.15	6.63	30.8	31.4
3172 Paul Brite's Mill, Hardinsburg	3.00	9.33	7.11	30.8	32.3
3173 Fern Creek Feed & Hdw. Co., Buechel	3.07	8.93	6.35	30.8	31.2
3446 Kratzer Supply Co., Mt. Sterling	2.89	9.00	6.56	30.8	31.1
3447 Shipp & Allen, Campbellsville	3.48	8.90	6.05	30.8	31.7
3448 Mt. Sherman Hdw. Co., Mt. Sherman	3.09	9.10	6.44	30.8	31.5
3449 B. & W. Coal Co., Vine Grove	3.10	9.05	6.33	30.8	31.4

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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
<b>BUHNER FERTILIZER CO., (Cont'd.)</b>					
2-12-6 (Muriate) Buhner's					
3174 Shelby Feed & Seed Co., Shelbyville	2.05	<u>11.30</u>	6.39	32.4	32.1
3175 Thompson & Wilson, Booneville	2.00	<u>11.38</u>	6.63	32.4	32.3
3450 Hedgespeth & Mardis, Campbellsville	2.06	<u>11.28</u>	6.66	32.4	32.3
3451 B. & W. Coal Co., Vine Grove	2.23	<u>11.60</u>	6.13	32.4	32.5
0-14-7 (Muriate) Buhner's					
3176 Shelby Feed & Seed Co., Shelbyville	....	<u>13.13</u>	7.99	29.8	29.8
0-12-12 (Muriate) Buhner's					
3452 Springfield Grain & Feed Co., Springfield	....	<u>11.65</u>	12.88	32.4	32.9
20% Superphosphate					
3177 Hedgespeth & Mardis, Campbellsville	....	19.83	....	26.0	25.8
<b>BYCOLIFE FERTILIZER MNFG. CO., Clinton, S. C.</b>					
4-10-6 (Muriate) "Bycolife Brand"					
2827 The Mitchell Co., Corbin	4.17	10.63	6.04	34.0	35.1
<b>CHILEAN NITRATE SALES CORPORATION, New York, N. Y.</b>					
16% Nitrate of Soda, "Champion Brand"					
2828 Bedford and Tuttle, Winchester	16.16	....	....	48.0	48.5
2940 Davis Gillespie, Mayslick	16.04	....	....	48.0	48.1
<b>CONSOLIDATED CHEMICAL CO., DIV. PRICE &amp; CO., Louisville, Ky.</b>					
6-8-6 (Muriate) Camel Brand					
3325 Thompson's Store, Loretto	6.24	8.65	6.11	35.6	37.0
3-9-6 (Muriate) Camel Brand					
3326 Thompson's Store, Loretto	3.51	9.50	6.17	30.8	32.6
<b>COOPERATIVE FERTILIZER SERVICE, Winchester, Ky.</b>					
6-8-6 (Muriate 3, Sulfate 3) "Service Quality Brand" Open Formula					
2618 Anderson Ice Co., Lawrenceburg	6.03	8.38	6.16 <sup>a</sup>	35.6	36.3
2663 Stewart & Co., Munfordville	6.38	8.20	6.08	35.6	36.7
2664 Southern States Co-op., Bowling Green	5.99	8.35	6.21 <sup>b</sup>	35.6	36.2
2687 Morgan Farmers Store, West Liberty	6.25	8.00	6.06	36.6	36.2
2688 Southern States Co-op., Clinton	6.25	8.33	6.05 <sup>c</sup>	35.6	36.6
2751 Marshall County Soil Improvement Association, Benton	6.24	8.65	6.14 <sup>d</sup>	35.6	37.0

a. Excess Muriate equivalent to 1.75 percent potash

b. Excess Muriate equivalent to 1.70 percent potash

c. Excess Muriate equivalent to 1.75 percent potash

d. Excess Muriate equivalent to 0.46 percent potash



Analyses of Official Fertilizer Samples

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

Manufacturer, Brand Name, Guaranty, Station No. and From Whom Obtained	Nitrogen	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
COOPERATIVE FERTILIZER SERVICE, (Cont'd.)					
2752 Clinton Farmers Supply, Albany	6.56	8.30	6.35	35.6	37.4
2753 Farmers Supply Co., Monticello	6.47	8.08	6.30	35.6	36.9
2754 Pike County Hatchery, Pikeville	6.10	8.68	6.09	35.6	36.7
2755 Southern States Co-op., Harrodsburg	6.38	8.18	6.32	35.6	36.9
2829 Morrison & Wallace, Hodgenville	6.13	8.68	5.98	35.6	36.7
3098 Southern States Co-op., LaGrange	5.76	8.55	6.04 <sup>a</sup>	35.6	35.8
3-9-6 (Sulfate) "Service Quality Brand" Open Formula					
2689 Southern States Co-op., Paducah	3.16	8.20	6.12	30.8	30.3
2756 Camargo Farmers Supply, Camargo	3.21	8.05	6.03	30.8	30.1
3099 Southern States Co-op., Henderson	3.11	9.45	6.23	30.8	31.8
3100 Southern States Co-op., Shelbyville	3.09	9.55	6.16	30.8	31.8
3101 Womack Brothers Farm Supply, Grayson	3.18	9.15	6.11	30.8	31.5
3102 Edmonson Farmers Co-op., Brownsville	3.37	8.23	6.22	30.8	30.8
3103 Southern States Co-op., Madisonville	3.09	7.85	6.24	30.8	29.8
3327 Columbia Bldg. & Supply Co., Columbia	3.32	8.98	6.41	30.8	31.8
3328 Southern States Co-op., Maysville	3.18	9.53	6.17	30.8	32.0
2-12-6 (Muriate) Open Formula					
2941 Bullock & Bullock, Mt. Vernon	2.13	12.35	6.60	32.4	33.7
2942 Southern States Co-op., Flemingsburg	2.13	12.70	6.55	32.4	34.1
2757 Southern States Co-op., Lancaster	2.11	12.30	6.42	32.4	33.4
3104 Southern States Co-op., Frankfort	1.97	12.30	6.08	32.4	32.8
3105 Farmers Supply Co., Monticello	2.12	11.63	6.39	32.4	32.6
3106 Meade Farmers Supply, Brandenburg	2.07	12.60	6.32	32.4	33.6
3107 Wilson Supply Co., Trenton	2.01	12.43	6.01	32.4	33.0
3329 Southern States Co-op., Fulton	2.11	12.48	6.36	32.4	33.6
0-12-12 (Muriate) "Super Brand" with 3# Borax per 100#					
2758 Southern States Co-op., Cynthiana *	....	12.60	12.19	32.4	33.3
3109 Meade Farmers Supply, Brandenburg**	....	12.23	12.65	32.4	33.3
0-12-12 (Muriate) "Quality Brand"					
2830 Farmers Exchange, Burkesville	....	12.55	12.44	32.4	33.5
3108 Farmers Service Store, Jamestown	....	12.58	12.86	32.4	34.0
3330 Southern States Co-op., Paducah	....	12.60	12.69	32.4	33.8
20% Superphosphate					
2759 Southern States Co-op., Cynthiana	....	20.00	....	26.0	26.0
2760 Camargo Farmers Supply, Camargo	....	20.10	....	26.0	26.1
3110 Southern States Co-op., Frankfort	....	20.48	....	26.0	26.6
3111 Womack Brothers Farm Supply, Grayson	....	20.28	....	26.0	26.4
3112 Southern States Co-op., Winchester	....	20.15	....	26.0	26.2
3331 Crab Orchard Grocery & Hdw. Co., Crab Orchard	...	20.58	....	26.0	26.8

a. Excess Muriate equivalent to 0.35 percent potash

\* Boron guaranteed 0.34 percent - Found 0.28 percent  
 \*\* Boron guaranteed 0.34 percent - Found 0.28 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 CO., Hopkinsville, Ky.					
6-8-6 (Muriate 3, Sulfate 3) Cumberland					
3113 Ratliff Hardware Co., Princeton	6.04	8.53	6.77 <sup>a</sup>	35.6	37.1
2831 Ratliff Hardware Co., Princeton	5.90	8.83	6.86 <sup>b</sup>	35.6	37.3
4-12-8 (Muriate) Cumberland					
3114 Trenton Hardware Co., Trenton	4.14	11.78	9.19	38.4	39.6
2-12-6 (Muriate) Cumberland					
3332 Kevil's Store, Rockport	2.20	12.10	6.44	32.4	33.4
20% Superphosphate, Cumberland					
3333 Wilson & Son, Golden Pond	....	19.83	...	26.0	25.8
3115 Ratliff Hardware Co., Princeton	....	20.00	....	26.0	26.0
48% Sulfate of Potash					
3116 Western Kentucky Experiment Substation, Princeton	....	....	48.72	52.8	53.6
60% Muriate of Potash					
3117 Western Kentucky Experiment Substation, Princeton	....	....	61.24	54.0	55.1
21.50% Sulfate of Potash Magnesia					
3334 Thompson & Miller, Edmonton	....	....	21.88	43.0	43.8
THE DAVISON CHEMICAL CORP., HOPKINS FERT. DIV., New Albany, Ind.					
6-8-6 (Muriate) Old Time Brand					
2619 Jewell & Hayden Hdw. Co., Bardstown	5.96	8.60	6.22	35.6	36.6
2761 John Underwood & Son, Nicholasville	5.95	8.55	6.41	35.6	36.6
3118 Buechel Produce Exchange, Buechel	5.82	8.50	6.78	35.6	36.6
3119 Wells Produce Co., Carlisle	6.08	8.45	6.15	35.6	36.5
3120 Rural Supply Co., Shively	6.09	8.43	6.68	35.6	37.0
3335 The Big Store, Harrodsburg	6.21	7.83	6.98	35.6	36.8
6-8-6 (Sulfate) Old Time Brand					
2620 Jewell & Hayden Hdw. Co., Bardstown	6.15	8.70	6.05	35.6	36.8
2621 Springfield Feed & Grain Co., Springfield	6.05	8.90	5.98	35.6	36.8
6-8-6 (Muriate 3, Sulfate 3) Old Time Brand					
3336 Mayslick Implement Co., Mayslick	5.91	8.95	6.97	35.6	37.5
3-9-6 (Muriate) Old Time Brand					
3121 Buechel Produce Exchange, Buechel	2.77	9.63	6.35	30.8	31.5
3337 Clifton Vickers, Gray Hawk	3.38	9.65	6.56	30.8	32.9

a. All potash from muriate

b. All potash from muriate

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 DAVISON CHEM. CORP., HOPKINS FERT. DIV., (Cont'd.)					
2-12-6 (Muriate) Old Time Brand					
3338 Climax Roller Mills, Shelbyville	2.13	12.05	6.08	32.4	32.8
3339 Jewell & Hayden Hdw. Co., Bardstown	2.15	12.25	6.45	32.4	33.5
3340 Clifton Vickers, Gray Hawk	2.14	12.10	7.01	32.4	33.8
THE DAVISON CHEMICAL CORPORATION, Nashville, Tennessee					
6-8-6 (Muriate) Davco Red Diamond					
2622 I. K. Miller and Son, Campbellsville	5.73	8.25	6.16	35.6	35.5
2623 Haydon Mill & Grain Co., Lebanon	6.17	8.20	6.29	35.6	36.5
2636 Guenther Hdw. Co., Owensboro	6.09	8.28	6.09	35.6	36.2
2637 Madison Farm Bureau, Richmond	5.57	8.50	5.99	35.6	35.3
2665 Simpson County Farmers Co-op., Franklin	5.97	8.30	6.19	35.6	36.1
2666 Farmers Cooperative, Madisonville	6.16	8.10	6.23	35.6	36.3
2690 M. D. Royse, Winchester	6.03	8.20	6.00	35.6	35.9
2691 Payton Hatchery, Horse Cave	5.51	8.95	6.06	35.6	35.8
2762 C. S. Brent Seed Co., Lexington	5.86	8.75	6.26	35.6	36.5
2763 Calloway County Soil Improvement Association, Murray	6.00	8.35	6.04	35.6	36.1
2764 Garrard Milling Co., Lancaster	6.15	8.00	6.15	35.6	36.1
2832 Eldred Hardware Co., Princeton	6.01	8.03	6.01	35.6	35.7
2833 Robinson Implement Co., Princeton	6.16	8.25	6.08	35.6	36.3
2943 McLean County Hdw. Co., Calhoun	5.97	8.13	5.95	35.6	35.7
3123 Corbin Farm Supply, Providence	6.12	8.23	6.11	35.6	36.2
6-8-6 (Sulfate) Davco Red Diamond					
2624 Rizer Brothers, Bardstown	5.92	8.45	5.99 <sup>a</sup>	35.6	36.0
2638 Cook & Moore, Tompkinsville	5.95	8.25	6.29	35.6	36.1
2639 Thomerson Milling Co., Glasgow	6.06	8.23	6.14	35.6	36.1
2640 Guenther Hdw. Co., Owensboro	5.22	8.50	5.96 <sup>b</sup>	35.6	34.6
2667 Farmers Cooperative, Madisonville	6.02	8.43	6.05	35.6	36.2
2692 M. D. Royse, Winchester	6.08	8.20	6.06	35.6	36.1
2765 C. S. Brent Seed Co., Lexington	6.19	8.05	6.05	35.6	36.1
3124 W. I. Smith General Store, Sebree	5.96	8.00	5.88	35.6	35.4
4-12-8 (Muriate) Davco Red Diamond					
3341 Calloway County Soil Improvement Association, Murray	4.24	12.00	7.94	38.4	38.8
3342 Morton's General Store, Lynn Grove	4.24	11.95	7.65	38.4	38.5
4-12-4 (Muriate) Davco Red Diamond					
2834 Robinson & Turley, Richmond	4.11	12.03	4.42	34.4	35.1
2835 Farmers Supply Co., Morganfield	4.25	12.23	4.22	34.4	35.4
2944 Bryant's Mill, Caneyville	4.19	12.05	4.53	34.4	35.4
3125 Eldred Hdw. Co., Princeton	4.31	12.15	4.30	34.4	35.5
3343 Harrison Bros. Farm Supply Co., Berea	4.21	12.00	4.52	34.4	35.3

a. Excess Muriate equivalent to 0.50 percent potash  
b. Excess Muriate equivalent to 1.06 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
THE DAVISON CHEMICAL CORP., (Cont'd.)					
3344 E. S. Ferrell & Son, Buffalo	4.22	12.60	3.89	34.4	35.5
3345 Calloway County Soil Improvement Association, Murray	4.18	12.20	4.41	34.4	35.4
3346 Henry Durham Hdw. Store, Greensburg	4.22	12.35	4.15	34.4	35.4
3-9-6 (Muriate) Davco Red Diamond					
2766 Butterworth Seed Co., Mayfield	3.67	9.35	6.27	30.8	32.8
2945 Greene Hdw. Store, Cave City	3.34	9.45	6.03	30.8	32.1
3122 Shearin's Grocery, Shelby City	3.02	9.75	6.47	30.8	32.2
3126 Corbin Farm Supply, Providence	3.12	8.75	5.84	30.8	30.6
3127 Eldred Hdw. Co., Princeton	3.04	8.80	6.04	30.8	30.7
3128 C. T. Ashley Co., Nicholasville	2.98	8.65	5.95	30.8	30.3
3347 Gentry McCauley, Versailles	3.12	8.78	6.02	30.8	30.8
2-12-6 (Muriate) Davco Red Diamond					
2836 Willoughby Supply Co., Richmond	2.31	12.05	5.93	32.4	33.0
3348 Hughes Hdw. Co., Franklin	2.58	12.13	6.60	32.4	34.3
3349 Farmers Exchange, Burkesville	2.38	11.90	4.91	32.4	32.0
20% Superphosphate, Davco Granulated					
2693 Kevil Feed Mill, Kevil	....	20.90	....	26.0	27.2
2694 Payton's Hatchery, Horse Cave	....	20.75	....	26.0	27.0
2837 Nelson's Feed Store, Marion	....	20.58	....	26.0	26.8
2946 Bryant's Mill, Caneyville	....	21.25	....	26.0	27.6
3129 E. B. Walton, Allensville	....	20.25	....	26.0	26.3
3130 Fulkerson Bros., Sonora	....	20.75	....	26.0	27.0
3350 Climax Roller Mills, Shelbyville	....	21.05	....	26.0	27.4
3351 U. L. Rogers, Columbia	....	20.85	....	26.0	27.1
ELLIS CHEMICAL CO., New Albany, Ind.					
6-8-6 (Muriate)					
2641 Madison Farm Bureau, Richmond	5.54	8.05	6.22	35.6	35.0
2642 Monarch Milling Co., Mt. Sterling	5.59	8.15	6.60	35.6	35.6
2767 Camargo Farmers Supply, Camargo	5.45	8.28	6.48	35.6	35.3
2838 Burd Brothers Feed Store, Buffalo	5.51	9.28	4.45	35.6	34.6
2983 O'Nan Brothers, Defoe	5.53	8.10	6.01	35.6	34.8
2984 George Waugh & Son, Carlisle	5.85	8.75	6.66	35.6	36.9
6-8-6 (Muriate 3, Sulfate 3)					
2625 Haydon Coal & Oil Co., Springfield	5.68	8.00	6.45	35.6	35.4
2643 Madison Farm Bureau, Richmond	5.29	8.25	6.29	35.6	34.8
2839 W. J. McKinney, Sulphur Well	5.89	9.20	6.32	35.6	37.1
2840 George Barrett, Beechville	5.03	9.33	5.54	35.6	34.8
2841 Haydon Coal & Oil Co., Springfield	5.77	7.80	7.03	35.6	35.9
2985 Garrard County Farmers Supply Co., Lancaster	5.95	8.48	6.05	35.6	36.1
3178 Woodford Feed Co., Versailles	5.50	9.00	5.82	35.6	35.6

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
ELLIS CHEMICAL CO., (Cont'd.)					
4-12-8 (Sulfate)					
3453 Garrard County Farmers Supply Co., Lancaster	4.20	<u>11.05</u>	8.51	38.4	38.2
3454 C. F. Howard & Son, New Haven	4.45	<u>10.70</u>	9.39 <sup>a</sup>	38.4	39.1
3-18-9 (Muriate)					
3455 L. D. Flanagan, Russell Springs	2.86	<u>17.53</u>	9.53	44.6	44.3
3-12-12 (Muriate)					
2947 Madison County Farm Bureau, Richmond	3.45	<u>11.35</u>	13.14	40.4	41.7
2986 Crofton Brothers, Henderson	3.08	<u>12.00</u>	11.87	40.4	40.4
3456 H. B. McClary, Auburn	3.03	<u>14.15</u>	<u>9.51</u>	40.4	40.6
3-9-6 (Muriate)					
2644 Madison Farm Bureau, Richmond	2.83	9.23	6.02	30.8	30.8
2948 Star Roller Mills, Cloverport	3.13	9.03	6.23	30.8	31.3
2987 L. D. Flanagan, Russell Springs	3.24	9.00	6.24	30.8	31.5
3457 Dyers Store, Boston	3.39	9.35	5.77	30.8	31.8
3-9-6 (Muriate 3, Sulfate 3)					
2988 Garrard County Farmers Supply Co., Lancaster	3.30	<u>7.88</u>	6.94	30.8	31.0
3179 Woodford Feed Co., Versailles	3.02	<u>8.50</u>	7.20	30.8	31.4
2-12-6 (Muriate)					
2949 Star Roller Mills, Cloverport	2.52	<u>11.15</u>	6.60	32.4	33.0
3180 Paul Brite's Mill, Hardinsburg	1.87	<u>12.30</u>	6.52	32.4	33.0
3181 Carter Sparks, Edmonton	2.16	<u>11.35</u>	5.96	32.4	31.9
3458 Dudgeon & Robinson, Campbellsville	2.44	<u>12.30</u>	6.86	32.4	34.5
0-12-12 (Muriate)					
3459 H. B. McClary, Auburn	....	<u>11.58</u>	12.60	32.4	32.5
20% Superphosphate					
2645 Monarch Milling Co., Mt. Sterling	....	<u>19.00</u>	....	26.0	<u>24.7</u>
2646 Madison Farm Bureau, Richmond	....	<u>20.38</u>	....	26.0	26.5
2989 Monarch Milling Co., Mt. Sterling	....	<u>20.50</u>	....	26.0	26.7
2950 Madison County Farm Bureau, Richmond	....	<u>20.53</u>	....	26.0	26.7
3182 Burd Brothers Feed Store Buffalo	....	<u>20.50</u>	....	26.0	26.7
3183 H. Warner, Nancy	....	<u>20.35</u>	....	26.0	26.5
3184 Thomerson Milling Co., Glasgow	....	<u>19.35</u>	....	26.0	25.2
3460 Star Roller Mills, Cloverport	....	<u>20.65</u>	....	26.0	26.9
3461 Monarch Milling Co., Mt. Sterling	....	<u>20.45</u>	....	26.0	26.6
3462 Garrard County Farmers Supply Co., Lancaster	....	<u>19.78</u>	....	26.0	25.7
3463 R. D. Reynolds, Cave City	....	<u>20.30</u>	....	26.0	26.4

a. Excess Muriate equivalent to 0.46 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
FEDERAL CHEMICAL COMPANY, Louisville, Ky.					
6-8-6 (Muriate) Federal					
2626 Farmers Exchange, Burkesville	5.80	8.45	6.23	35.6	36.0
2627 Southern States Co-op., Maysville	5.93	8.53	6.02	35.6	36.1
2647 Guy Armes Impl. Co., Hardinsburg	5.85	8.45	6.31	35.6	36.2
2695 Campbell's Mill, Kevil	6.04	8.13	5.92	35.6	35.8
2720 R. C. Taylor Produce Co., Monticello	5.78	8.68	6.30	35.6	36.3
2721 Ford Richardson & Son, Mayfield	5.67	8.55	6.18	35.6	35.8
2786 J. B. Atkinson Truck Line, Hopkinsville	5.60	9.05	5.55	35.6	35.6
2893 Truman Atherton's Grocery, Livermore	5.65	9.13	6.01	35.6	36.3
2894 Robert James Feed Store, Franklin	4.74	8.93	5.55	35.6	33.8
2990 Slone Brothers, Jackson	5.86	8.35	6.05	35.6	35.8
2991 Benson Valley Milling Co., Frankfort	5.91	8.60	6.13	35.6	36.3
2992 Southern States Co-op., Shelbyville	6.05	8.10	5.90	35.6	35.7
2993 Hall Seed Co., Louisville	5.32	8.80	6.18	35.6	35.4
3185 Holloway Hardware Co., Wingo	6.03	8.23	6.25	35.6	36.2
3185 Julius & Carl Fister, Lexington	6.09	7.75	6.25	35.6	35.7
3464 Fiechter Hardware Co., London	5.94	8.48	6.41	35.6	36.5
6-8-6 (Sulfate) Federal					
2787 Benson Valley Milling Co., Frankfort	5.93	8.45	6.35	35.6	36.4
2994 Hancock Feed Store, Middletown	5.49	9.30	5.80	35.6	35.9
3187 Floyd G. Barlow, Cynthiana	5.64	9.15	5.98	35.6	36.2
3465 Stamping Ground Lumber Co., Stamping Ground	5.87	8.80	5.93	35.6	36.2
3466 Hughes Hamilton, Lexington	6.19	8.30	6.16	35.6	36.5
3441 Hughes Hamilton, Lexington	5.82	8.25	6.68 <sup>a</sup>	35.6	36.2
4-12-8 (Muriate) Federal					
2648 M. C. Roberts, South Irvine	3.67	12.73	7.81	38.4	38.4
2696 Campbell's Mill, Kevil	4.19	12.15	8.10	38.4	39.1
2697 Ashland Hatchery, Ashland	3.72	12.50	7.79	38.4	38.2
2698 A. C. Bogie, Winchester	3.73	12.53	7.94	38.4	38.4
2722 Garrard Milling Co., Lancaster	3.92	12.45	7.44	38.4	38.2
2723 Murray Milling Co., Murray	4.49	11.78	8.37	38.4	39.5
2788 Richmond Coal & Feed Co., Richmond	3.78	12.25	7.84	38.4	38.1
2995 Salt Lick Milling Co., Salt Lick	3.70	12.33	7.90	38.4	38.1
3188 H. B. Leneave & Son, Golden Pond	4.01	11.05	7.70	38.4	37.0
3189 Murray Milling Co., Murray	4.05	12.00	7.92	38.4	38.4
3190 Dairyman's Feed & Supply Co., Mayfield	3.99	11.85	8.18	38.4	38.4
3191 Smathers & Co., Stanton	3.23	12.18	7.90	38.4	37.0
3192 D. C. Lykins, Clay City	3.55	12.48	7.74	38.4	37.8
3193 Sedalia Feed Mill, Sedalia	4.24	12.05	7.80	38.4	38.7
3194 Parker Seed Co., Murray	4.09	12.08	8.21	38.4	38.9
3467 H. B. Leneave & Son, Golden Pond	3.96	12.78	7.95	38.4	39.2
3468 Cook & Moore, Tompkinsville	3.96	11.95	8.11	38.4	38.4
3442 Lewis J. Burke, Sr., Lexington	3.55	12.65	7.70	38.4	38.0

a. Excess Muriate equivalent to 2.52 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	Phos-phoric Acid Avail-able	Potash	Index of Relative Value	
				Guar.	Found
FEDERAL CHEMICAL COMPANY, (Cont'd.)					
4-12-8 (Sulfate) Federal					
2628 Southern States Co-op., Lebanon	4.25	11.80	7.53 <sup>a</sup>	38.4	38.2
2649 Big 4 Feed & Impl. Co., Scottsville	3.84	12.38	7.43 <sup>b</sup>	38.4	38.0
2699 A. C. Bogie, Winchester	3.58	12.80	7.54 <sup>c</sup>	38.4	38.1
2895 Allen & Jenkins, Bowling Green	3.97	12.25	7.11	38.4	37.8
2996 Southern States Co-op., Shelbyville	3.68	12.20	8.38 <sup>d</sup>	38.4	38.4
2997 Warren Elevator Co., Guthrie	3.88	11.93	7.18 <sup>e</sup>	38.4	37.3
2998 Stanley Galbraith & Son, Carlisle	3.48	12.35	7.74 <sup>f</sup>	38.4	37.5
2999 Stock Yard Feed Store, Louisville	3.84	12.33	8.17	38.4	38.7
3000 Carter's Feed Store, Forks of Elkhorn	3.89	12.35	7.59	38.4	38.2
3001 Benson Valley Milling Co., Frankfort	3.69	12.50	7.92 <sup>g</sup>	38.4	38.3
3002 Slone Brothers, Jackson	4.00	12.80	7.22	38.4	38.6
3003 C. F. Cecil, Mize	3.86	12.05	7.90	38.4	38.1
3195 Berryman Coal & Feed Co., Winchester	3.76	11.80	7.78 <sup>h</sup>	38.4	37.5
3196 McWhorter & Boyle, Paint Lick	3.96	12.10	8.30 <sup>i</sup>	38.4	38.7
3469 Vine Street Feed Store, Lexington	4.03	12.05	8.64	38.4	39.2
3470 Mayes & Helm, Perryville	3.79	12.73	7.66 <sup>j</sup>	38.4	38.5
3471 Southern States Co-op., Frankfort	3.08	12.08	8.10 <sup>k</sup>	38.4	36.8
3472 Thomerson Milling Co., Glasgow	4.03	12.45	8.42	38.4	39.4
3473 Allen & Jenkins, Bowling Green	3.98	11.93	7.95	38.4	38.2
3474 Black Brothers, Greenmount	3.63	12.65	7.10	38.4	37.5
3443 Lewis J. Burke, Lexington	3.77	12.70	7.64	38.4	38.4
4-12-4 (Muriate) Federal					
2650 M. C. Roberts, South Irvine	3.95	12.50	4.10	34.4	35.0
2724 Leer & Ballard, Lancaster	3.50	12.65	3.96	34.4	34.1
2896 Cook & Moore, Tompkinsville	3.87	12.05	4.33	34.4	34.5
2897 Smith & Wells, Glasgow	3.90	12.03	4.17	34.4	34.4
2898 Lynn Flood Feed Store, Finchville	4.18	11.98	4.11	34.4	34.9
2899 G. W. Edmond Hdw. Store, Flemmingsburg	4.56	11.45	4.70	34.4	35.6
3004 Slone Brothers, Jackson	3.44	11.28	5.00	34.4	33.4
3197 Farmers Supply Co., Pikeville	3.21	12.15	5.51	34.4	34.5
3198 Smathers & Co., Stanton	3.48	12.00	4.87	34.4	34.2
3475 Benson Valley Milling Co., Frankfort	3.95	12.00	4.14	34.4	34.4
3476 H. T. Hackney Co., Harlan	3.97	11.83	4.45	34.4	34.6
3-9-6 (Muriate) Federal					
2629 Farmers Exchange, Burkesville	2.91	9.53	5.87	30.8	31.1
2630 Interstate Grocery Co., Jellico, Tenn.	2.68	9.68	5.92	30.8	30.9
2700 The May Grocery Co., West Liberty	2.91	10.18	5.88	30.8	31.9
2701 McClure & Harper, Winchester	2.90	9.35	5.88	30.8	30.9
2702 Campbell's Mill, Kevil	3.31	9.03	6.12	30.8	31.6

- a. Excess Muriate equivalent to 0.55 percent potash
- b. Excess Muriate equivalent to 0.26 percent potash
- c. Excess Muriate equivalent to 1.98 percent potash
- d. Excess Muriate equivalent to 0.26 percent potash
- e. Excess Muriate equivalent to 2.37 percent potash
- f. Excess Muriate equivalent to 1.68 percent potash
- g. Excess Muriate equivalent to 2.34 percent potash
- h. Excess Muriate equivalent to 1.71 percent potash
- i. Excess Muriate equivalent to 1.24 percent potash
- j. Excess Muriate equivalent to 0.42 percent potash
- k. Excess Muriate equivalent to 1.40 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
FEDERAL CHEMICAL COMPANY, (Cont'd.)					
2703 A. C. Bogie, Winchester	3.07	9.08	6.00	30.8	31.0
2725 Francis Wholesale Co., Prestonsburg	2.77	9.80	5.75	30.8	31.1
2789 Richmond Coal & Feed Co., Richmond	2.96	9.63	5.77	30.8	31.3
2900 McClure & Harper, Mt. Sterling	2.93	9.15	5.99	30.8	30.8
3005 Thomas Smith, Bulan	3.06	9.58	5.77	30.8	31.4
3006 W. P. Thomason Gen. Store, Clarkson	2.95	9.23	5.96	30.8	30.9
3007 Francis Wholesale Co., Prestonburg	2.98	9.90	5.55	30.8	31.4
3008 Tarter & Smith, Dunnville	2.88	10.05	5.43	30.8	31.3
3009 Bentley Brothers, Garrison	2.93	9.55	5.77	30.8	31.1
3010 Salt Lick Milling Co., Salt Lick	2.94	9.28	6.21	30.8	31.2
3011 C. F. Cecil, Mize	2.98	9.33	5.99	30.8	31.2
3012 Slone Brothers, Jackson	2.83	10.45	5.85	30.8	32.1
3013 Fannin Wholesale Co., W. Prestonsburg	2.80	9.60	5.74	30.8	30.9
3014 Warren Elevator Co., Guthrie	3.00	9.68	6.21	30.8	31.8
3015 Howard Wholesale Co., W. Prestonsburg	2.92	9.65	5.80	30.8	31.2
3199 Parker Seed Co., Murray	3.20	8.68	6.34	30.8	31.2
3200 H. B. Leneave & Son., Golden Pond	3.20	9.10	6.49	30.8	31.8
3201 A. & Z. Store, Pine Knot	2.98	9.08	5.86	30.8	30.7
3202 Julius & Carl Fister, Lexington	3.14	9.73	5.74	30.8	31.7
3203 Cochrum's Store, Lynnville	3.00	9.00	6.05	30.8	30.9
3204 Smathers & Co., Stanton	3.14	9.53	6.11	30.8	31.8
3205 Berryman's Coal & Feed Co., Winchester	2.86	10.15	5.49	30.8	31.4
3206 Cross & Duncan, Strunk	3.00	10.05	6.23	30.8	32.3
3207 Dairyman's Feed & Supply Co., Mayfield	3.17	9.13	6.76	30.8	32.1
3477 Cochrum's Gen. Store, Lynnville	2.89	9.30	6.21	30.8	31.2
3478 Fields Grain & Feed Co., Cumberland	3.14	9.40	6.47	30.8	32.0
3479 Nebo Exchange Mill, Nebo	3.03	9.45	6.47	30.8	31.9
3480 L. F. Thurmond Feed Store, Murray	3.22	9.23	6.21	30.8	31.7
3-9-6 (Sulfate) Federal					
2651 Guy Armes Impl. Co., Hardinsburg	3.04	9.70	5.92 <sup>a</sup>	30.8	31.6
2901 Smith & Wells, Glasgow	2.84	9.28	6.34 <sup>b</sup>	30.8	31.2
2902 Elgin McIntyre, Flemingsburg	3.33	9.13	6.34 <sup>c</sup>	30.8	32.0
3016 Capital Super Service, Frankfort	2.87	9.80	5.90 <sup>d</sup>	30.8	31.4
3208 Carter Sparks, Edmonton	4.28	9.03	6.54	30.8	33.9
3481 J. F. Bertram & Son, Vanceburg	3.03	9.68	5.71 <sup>e</sup>	30.8	31.4
2-12-6 (Muriate)					
2652 H. D. Jones, Glasgow	2.22	12.20	6.11	32.4	33.2
2903 Truman Atherton's Grocery, Livermore	2.14	11.85	6.58	32.4	33.1
2904 H. D. Jones, Glasgow	1.97	12.75	5.92	32.4	33.2
3017 Bentley Brothers, Garrison	2.08	12.33	5.93	32.4	32.9
3018 Hall Seed Co., Louisville	1.90	12.40	6.63	32.4	33.3
3019 W. B. Monroe & Son, LaGrange	2.02	12.60	5.94	32.4	33.1
3020 Hancock Feed Store, Middletown	2.12	11.53	6.39	32.4	32.5
3021 W. P. Thomason Gen. Store, Clarkson	2.05	12.10	6.89	32.4	33.5
3209 Jackson Wholesale Co., Praise	2.05	12.80	5.85	32.4	33.3

- a. Excess Muriate equivalent to 1.24 percent potash  
b. Excess Muriate equivalent to 1.92 percent potash  
c. Excess Muriate equivalent to 0.50 percent potash  
d. Excess Muriate equivalent to 0.34 percent potash  
e. Excess Muriate equivalent to 0.34 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	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
<b>FEDERAL CHEMICAL COMPANY, (Cont'd.)</b>					
3482 M. S. Qualls & Co., Olive Hill	2.36	12.03	7.34	32.4	34.5
3483 Flippin Roller Mills, Flippin	1.95	12.50	6.24	32.4	33.1
3484 Allen & Jenkins, Bowling Green	2.05	12.70	5.99	32.4	33.3
3485 A. & Z. Grocery, Pine Knot	2.19	12.23	5.95	32.4	33.0
3486 Craft Grocery, Manchester	2.16	12.28	<u>5.56</u>	32.4	32.6
0-14-7 (Muriate) Federal					
3210 Smathers & Co., Stanton	....	<u>12.25</u>	7.48	29.8	28.2
20% Superphosphate					
2905 Cook & Moore, Tompkinsville	....	19.25	....	26.0	25.0
16% Nitrate of Soda					
2653 H. D. Jones, Glasgow	16.28	....	....	48.0	48.8
3022 Bentley Brothers, Garrison	16.24	....	....	48.0	48.7
3211 Smathers & Co., Stanton	16.20	....	....	48.0	48.6
<b>FORD MOTOR COMPANY, Dearborn, Michigan</b>					
20.80% Ammonium Sulfate, Ford's					
2768 Blue Grass Plant Foods, Cynthiana	20.92	....	....	41.6	41.8
3352 Booneville Wholesale Co., Booneville	20.90	....	....	41.6	41.8
<b>HAGAN, LANDRUM &amp; STONE, Tompkinsville. Ky.</b>					
3-9-6 (Muriate)					
3303 Manufacturer's warehouse	2.90	9.23	5.95	30.8	30.8
<b>HUTSON CHEMICAL CO., Murray, Ky.</b>					
4-12-8 (Muriate) Hutson's					
2769 Manufacturer's warehouse	3.94	11.90	8.26	38.4	38.4
3353 Manufacturer's warehouse	3.78	<u>11.43</u>	8.44	38.4	37.7
3487 Manufacturer's warehouse	4.00	<u>11.95</u>	<u>7.61</u>	38.4	38.0
<b>INTERNATIONAL MINERALS &amp; CHEM. CORP., Cincinnati, O., Wales &amp; Greenville, Tenn., Somerset, Ky.</b>					
6-8-6 (Muriate 2, Sulfate 4)					
2704 Boone's Feed Store, Stanford	6.08	8.03	7.02	35.6	36.8
2770 Lee Flynn & Son, Somerset	6.03	8.18	7.06	35.6	36.9
2771 Robinson Milling Co., Somerset	6.00	8.28	6.98	35.6	36.9
2772 L. C. McLoney & Sons, Cynthiana	6.13	8.45	6.22	35.6	36.6
2842 Jett Coal & Supply Co., Jett	5.98	8.35	6.21	35.6	36.2
2843 Farmers Feed & Supply Co., London	5.98	8.30	7.14	35.6	37.1
3131 Lawson Hardware Store, Greenup	6.08	8.50	5.90	35.6	36.3
3354 Bryant's Mill, Caneyville	5.86	8.45	6.58 <sup>a</sup>	35.6	36.4
3355 Cecilian Milling Co., Elizabethtown	6.20	8.10	6.49	35.6	36.6
3356 John A. Sheehan, Falmouth	5.91	8.70	5.95	35.6	36.2

a. Excess Muriate equivalent to 0.27 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
INTERNATIONAL MINERALS & CHEM. CORP., (Cont'd.)					
5-10-10 (Muriate 5, Sulfate 5)					
2773 L. C. McLoney & Sons, Cynthiana	5.26	10.25	10.34	40.0	41.2
2844 Coomer Feed Store, Columbia	4.56	10.60	10.67	40.0	40.5
2845 Springfield Feed & Grain Co., Springfield	5.10	10.53	10.19	40.0	41.0
3132 Steve Rose Market, Campton	5.25	10.58	9.81	40.0	41.0
3133 Lawson Hardware Store, Greenup	5.34	10.25	10.22	40.0	41.2
3357 L. C. McLoney & Sons, Cynthiana	5.10	10.50	10.26	40.0	41.1
5-10-5 (Muriate)					
2846 Harlan Fruit Co., Harlan	5.21	10.50	5.66	35.0	36.7
3134 John Adams, Jeff	5.21	10.20	5.82	35.0	36.5
3358 Farmers Supply Co., Whitesburg	4.93	10.90	5.08	35.0	36.0
4-16-0					
2847 Farmers Supply Store, Wilmore	3.92	16.30	....	33.2	33.4
2951 Richardson & Stewart, Mt. Sterling	4.20	16.15	....	33.2	33.8
3359 Coomer Feed Store, Columbia	3.83	16.18	....	33.2	33.1
3360 Smathers & Co., Stanton	4.47	15.78	....	33.2	33.9
4-12-8 (Muriate)					
2952 Cass & Cash, Brodhead	3.75	11.65	9.66	38.4	39.1
3361 Tony Bezold, Newport	3.23	11.05	11.43	38.4	39.2
3362 Richardson Mercantile Co., Berea	3.76	11.30	8.64	38.4	37.7
3363 Anderson's Grocery, Pine Knot	3.41	12.80	8.50	38.4	38.7
4-12-8 (Sulfate)					
2953 Cecilian Milling Co., Elizabethtown	4.36	11.73	8.33	38.4	39.1
3364 Buckhorn Coal Co., Campbellsville	4.17	12.00	8.26	38.4	39.0
4-12-8 (Muriate 4, Sulfate 4)					
2848 L. T. Brown & Son, Burgin	4.31	12.40	8.46	38.4	40.0
2954 Cass & Cash, Brodhead	4.02	12.10	7.94	38.4	38.5
3365 Bryant's Mill, Caneyville	4.15	12.73	8.36	38.4	39.9
3366 Walker Greer, Camargo	4.25	12.13	8.77	38.4	39.8
3367 John A. Sheehan, Falmouth	3.97	12.75	8.43	38.4	39.7
3368 L. C. McLoney & Sons, Cynthiana	4.49	12.13	8.52	38.4	40.1
3369 Amon Tucker, Windsor	4.24	11.68	8.60	38.4	39.1
3-12-12 (Muriate)					
3135 W. S. Allen & Co., Liberty	2.82	12.03	14.36	40.4	42.4
3370 Chas. M. Warner, Nancy	2.58	12.23	14.12	40.4	42.0
2-12-6 (Muriate)					
2955 Cecilian Milling Co., Elizabethtown	2.00	12.73	6.44	32.4	33.7
2956 Cass & Cash, Brodhead	2.11	11.05	6.80	32.4	32.3
2957 Hogan, Landrum & Stone, Tompkinsville	2.15	12.10	5.85	32.4	32.7
3136 Tunks & Isenburg, Rocky Hill	2.07	12.03	5.91	32.4	32.5
3137 N. T. Nuckols, Elkton	2.03	11.30	5.86	32.4	31.5

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
INTERNATIONAL MINERALS & CHEM. CORP., (Cont'd.)					
0-14-7 (Muriate)					
2849 Coomer Feed Store, Columbia	....	16.10	7.60	29.8	32.9
2958 Cass & Cash, Brodhead	....	14.53	8.26	29.8	31.7
3371 Sweet Feed Mills, Bowling Green	....	14.25	7.30	29.8	30.4
3372 Owingsville Farmers Supply Co., Owingsville	....	14.18	7.29	29.8	30.3
20% Superphosphate					
2850 Willoughby Supply Co., Richmond	....	20.60	....	26.0	26.8
2851 Woodson Lewis, Greensburg	....	20.18	....	26.0	26.2
2959 Cass & Cash, Brodhead	....	20.63	....	26.0	26.8
3373 Cecilian Milling Co., Elizabethtown	....	20.70	....	26.0	26.9
3374 Bryant's Mill, Caneyville	....	20.05	....	26.0	26.1
3375 G. H. Bowles & Son, Glasgow	....	21.85	....	26.0	28.4
33.50% Ammonium Nitrate					
3376 Walker Greer, Camargo	33.44	....	....	67.0	66.9
21.50% Sulfate of Potash Magnesia					
2960 Hagan, Landrum & Stone, Tompkinsville	....	....	21.14 <sup>a</sup>	43.0	42.3
2961 Davis Gillespie, Mayslick	....	....	21.72 <sup>b</sup>	43.0	43.4
2962 G. H. Bowles, Glasgow	....	....	21.64 <sup>c</sup>	43.0	43.3
3377 Ice's Produce Co., Bardstown	....	....	21.94	43.0	43.9
INTERSTATE FERTILIZER CO., Cairo, Illinois					
6-8-6 (Muriate) Interstate Brand					
3378 Marshall County Soil Improvement Association, Benton	6.08	8.45	5.76	35.6	36.1
3379 Yopp Seed Co., Paducah	5.90	8.30	5.59	35.6	35.4
4-12-8 (Muriate) Interstate Brand					
3380 Marshall County Soil Improvement Association, Benton	4.34	12.00	8.35	38.4	39.4
3381 Mayfield Sweet Feed Mill, Mayfield	4.17	12.00	8.44	38.4	39.2
3382 Southern States Cooperative, LaCenter	4.08	12.00	8.28	38.4	38.8
3383 Yopp Seed Co., Paducah	4.02	12.28	8.36	38.4	39.1
3-12-12 (Muriate) Interstate Brand					
3384 Yopp Seed Co., Paducah	3.14	12.48	12.31	40.4	41.6
3385 Southern States Cooperative, LaCenter	3.18	12.28	12.45	40.4	41.6
21.50% Sulfate of Potash Magnesia					
3386 Southern States Ballard Co-op., LaCenter	....	....	22.20	43.0	44.4

- a. Excess Muriate equivalent to 0.89 percent potash  
 b. Excess Muriate equivalent to 0.34 percent potash  
 c. Excess Muriate equivalent to 1.50 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
<b>KENTUCKY FERTILIZER WORKS, Winchester, Ky.</b>					
<b>6-8-6 (Muriate) "P.P.F. Brand"</b>					
2654 Manufacturer's warehouse	6.00	7.80	6.15	35.0	35.5
2790 Robinson & Turley, Richmond	6.09	7.78	5.85	35.0	35.4
3212 Berryman Coal & Feed Co., Winchester	6.12	<u>7.58</u>	5.82	35.0	35.2
3488 R. T. Little, Pomeroyton	6.47	8.15	5.90	35.0	36.6
<b>6-8-6 (Sulfate) "P.P.F. Brand"</b>					
2631 Brock Brothers Grain Co., Maysville	5.77	8.10	6.15	35.6	35.4
2655 Manufacturer's warehouse	6.11	8.50	5.92	35.6	36.3
2705 M. D. Royse, Winchester	6.00	<u>7.45</u>	6.66	35.6	35.6
2774 Farmers Supply Co., Danville	5.82	8.00	6.96	35.6	36.2
2906 Davis Gillespie, Mayslick	5.83	8.30	6.11	35.6	35.7
2907 Peck's Farmers Supply Co., Sharpsburg	6.15	<u>7.55</u>	6.35	35.6	35.7
2908 Farmers Supply Co., Mt. Sterling	6.16	<u>7.55</u>	6.39	35.6	35.8
3023 Rex Center, Campton	5.79	<u>7.50</u>	6.47	35.6	35.1
3024 Fletcher's Market, Campton	5.74	<u>7.55</u>	6.84	35.6	35.4
3025 Lancaster Coal & Feed Co., Lancaster	6.17	<u>7.70</u>	6.01	35.6	35.6
3026 The May Grocery Co., West Liberty	6.33	<u>7.10</u>	6.52	35.6	35.7
3213 Sphar and Co., Winchester	5.76	8.20	6.05	35.6	35.4
3214 Cogar-Rumley Co., Midway	<u>5.62</u>	8.13	6.44	35.6	35.4
3215 Brock Brothers Grain Co., Maysville	<u>5.79</u>	8.00	6.21	35.6	35.4
3489 Campbell Feed Co., Lexington	5.95	8.10	6.36	35.6	36.0
3490 Greenup Milling Co., Greenup	5.82	8.20	6.01	35.6	35.5
3491 Danville Supply Co., Danville	5.93	8.65	6.84	35.6	37.1
<b>3-9-6 (Muriate) "P.P.F. Brand"</b>					
2656 Manufacturer's warehouse	3.17	9.33	6.46	30.8	32.0
2791 Robinson and Turley, Richmond	3.03	9.23	6.33	30.8	31.5
3216 Walfinberger's Grocery, West Irvine	3.32	9.23	6.83	30.8	32.4
3492 Louisa Supply Co., Louisa	3.21	9.98	5.95	30.8	32.4
3493 The May Grocery Co., West Liberty	3.28	9.20	5.90	30.8	31.5
3494 R. T. Little, Pomeroyton	3.40	9.10	6.40	30.8	32.1
3495 Farmers Supply Co., Harrodsburg	3.50	9.25	6.56	30.8	32.7
3496 Wooten's Grocery & Feed Store, Dwarf	3.46	9.72	5.88	30.8	32.5
<b>3-9-6 (Sulfate) "P.P.F. Brand"</b>					
2657 Manufacturer's warehouse	3.56	<u>8.30</u>	6.23	30.8	31.3
2775 McCauley Brothers Seed Co., Versailles	2.94	<u>8.30</u>	6.36	30.8	30.2
3027 The May Grocery Co., West Liberty	3.30	9.08	6.08	30.8	31.6
3138 Farmers Supply Co., Mt. Sterling	3.32	8.63	6.03	30.8	31.0
3497 Thomas Richardson, Cannel City	3.34	9.40	<u>5.62</u>	30.8	31.6
3498 Louisa Supply Co., Louisa	3.08	<u>8.30</u>	6.33	30.8	30.5
<b>20% Superphosphate "P.P.F. Brand"</b>					
2792 Robinson & Turley, Richmond	....	20.50	....	26.0	26.7
<b>16% Nitrate of Soda "P.P.F. Brand"</b>					
2909 Peck's Farmers Supply Co., Sharpsburg	16.12	....	....	48.0	48.4
3028 Rex Carter, Campton	16.04	....	....	48.0	48.1

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>KENTUCKY FERTILIZER WORKS, (Cont'd.)</b>					
33.50% Ammonium Nitrate "P.P.F. Brand"					
3217 Elliott & Witt, Irvine	33.48	....	....	67.0	67.0
21% Sulfate of Potash Magnesia					
3218 Sphar and Co., Winchester	....	....	22.06	42.0	44.1
3499 J. F. Bertram & Son, Vanceburg	....	....	21.50	42.0	43.0
<b>KNOXVILLE FERTILIZER CO., Knoxville &amp; Nashville, Tenn., London, Ky.</b>					
4-12-8 (Muriate 4, Sulfate 4)					
3387 Brock Brothers Grain Co., Maysville	4.05	12.88	8.65 <sup>a</sup>	38.4	40.2
4-12-4 (Muriate)					
2852 Farmers Feed & Supply Co., London	4.01	13.18	3.99	34.4	35.8
3388 Powell-Hackney Grocery, Hazard	4.13	12.48	4.76	34.4	36.0
3389 Shipp & Allen, Campbellsville	3.26	12.15	4.45	34.4	33.6
3390 Arnold Weddle, Nancy	3.91	12.45	4.02	34.4	34.8
2776 Barnett & Sullivan, Harrodsburg	3.90	12.93	4.41	34.4	35.7
2777 Hobert & Milton Roberts, Monticello	3.99	12.85	3.98	34.4	35.4
2778 McCauley Brothers Seed Co., Versailles	3.64	12.75	4.35	34.4	34.9
3-12-4 (Muriate) "Special"					
2963 Lonnie Deweese, Cave City	2.93	12.00	4.40	32.4	32.7
3391 Curtis & McComas, Burkesville	3.01	11.73	4.71	32.4	32.8
3392 Allen County Mills, Scottsville	3.20	11.80	4.73	32.4	33.3
3-9-6 (Muriate)					
2853 Farmers Feed & Supply Co., London	2.89	9.80	6.10	30.8	31.6
2854 Jellico Grocery, Harlan	2.88	10.15	6.00	30.8	31.9
3139 Geo. P. Taylor, Burnside	3.22	9.60	6.32	30.8	32.3
3393 The Chappell Wholesale Grocery, Pineville	2.99	10.80	5.64	30.8	32.6
3394 Arnold Weddle, Nancy	2.97	10.70	5.84	30.8	32.6
3-9-6 (Muriate 4, Sulfate 2)					
2855 Jack Shirley, Edmonton	2.83	9.95	5.80	30.8	31.4
2856 J. T. Beard Feed Store, Crofton	2.92	9.75	5.83	30.8	31.4
2964 Mt. Vernon Produce Co., Mt. Vernon	3.11	9.75	6.37	30.8	32.3
2965 Wyndall's Feed & Hdw. Store, Owensboro	3.03	9.95	5.91	30.8	31.9
3140 Thornhill Service Station, Frankfort	3.03	9.95	6.24	30.8	32.2
2779 Barnett & Sullivan, Harrodsburg	2.91	10.53	6.04	30.8	32.5
2780 Hobert & Milton Roberts, Monticello	3.00	9.60	6.56	30.8	32.1
3395 Robey's Farm Store, Georgetown	2.95	10.50	6.10	30.8	32.6
3396 McCauley Brothers Feed Co., Versailles	2.87	10.30	5.92	30.8	32.0
3397 W. H. Brock & Co., Winchester	3.04	10.00	6.39	30.8	32.5
3398 L. C. McLoney & Sons, Cynthiana	2.97	10.88	6.01	30.8	33.0
3399 Hoagland's Hdw. Store, Sacramento	2.77	10.83	5.86	30.8	32.4

a. Excess Muriate equivalent to 0.51 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
KNOXVILLE FERTILIZER CO., (Cont'd.)					
2-12-6 (Muriate)					
2857 Farmers Feed & Supply Co., London	2.14	12.98	6.15	32.4	34.0
3141 Kennedy Supply Co., Liberty	2.17	12.60	6.63	32.4	34.1
20% Superphosphate, Pulverized					
2858 Farmers Feed & Supply Co., London	....	21.28	....	26.0	27.7
3142 Geo. P. Taylor Co., Burnside	....	20.05	....	26.0	26.1
2706 Loving Mallory, Allensville	....	19.88	....	26.0	25.8
3400 Ruby Guffey, Morgantown	....	<u>19.40</u>	....	26.0	25.2
32.50% Ammonium Nitrate					
3401 Morrison & Wallace, Hodgenville	32.76	....	....	65.0	65.5
25% Manure Salts					
3402 Morrison & Wallace, Hodgenville	....	....	26.08	22.5	23.5
22% Sulfate of Potash Magnesia					
2859 J. T. Beard Feed Store, Crofton	....	....	22.36	44.0	44.7
LOUISVILLE FERTILIZER CO., DIV. ARMOUR & CO., Cincinnati, O., Nashville, Tenn., & Jeffersonville, Indiana					
4-12-4 (Muriate) Louisville					
2683 Yopp Seed Co., Paducah	3.79	12.28	4.20	34.4	34.5
2966 Kent Miller's Store, Sacramento	3.94	12.05	4.87	34.4	35.2
3-9-6 (Muriate) Louisville					
2967 Tichenor Brothers, Calhoun	3.08	9.03	5.79	30.8	30.8
3403 Nu Hardware & Service Station, Island	2.98	9.45	6.13	30.8	31.4
MIDWESTERN PHOSPHATE CORPORATION, Madison, Wisconsin					
20% Superphosphate					
2860 Robinson & Turley, Richmond	....	20.05	....	26.0	26.1
MORRIS FERTILIZER CO., DIV. ARMOUR & CO., Cincinnati, O., Nashville, Tenn., Jeffersonville, Indiana					
20% Superphosphate, Morris					
3404 Gid Hollinsworth, Tompkinsville	....	<u>19.25</u>	....	26.0	25.0
NORTH AMERICAN FERTILIZER CO., Louisville, Ky.					
6-8-6 (Muriate)					
3029 Wheeler & Williams Hdw. Co., Ashland	6.34	8.15	7.23	35.6	37.7
3219 Ky. State Reformatory, LaGrange	6.41	8.00	6.89	35.6	37.3
3220 Farmers Supply Co., Owingsville	6.29	8.48	6.52	35.6	37.3
3500 Moses Supply Co., Richmond	6.30	8.50	6.65	35.6	37.5

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
NORTH AMERICAN FERTILIZER CO., (Cont'd.)					
6-8-6 (Sulfate)					
2726 Roy Stivers, Lexington	5.41	8.43	7.11 <sup>a</sup>	35.6	36.1
2793 Logan Bryan Feed Co., North Middletown	5.99	8.03	7.08 <sup>b</sup>	35.6	36.7
2881 J. H. Meyers, Ewing	6.09	7.95	7.07	35.6	36.8
6-8-6 (Muriate 3, Sulfate 3)					
2668 J. M. Milling Co., Frankfort	5.96	8.53	6.56	35.6	36.7
3501 Thomas Burford, Owenton	6.28	8.15	6.42	35.6	36.8
4-12-8 (Sulfate)					
3030 Southern States Co-op., Shelbyville	4.62	11.23	9.31 <sup>c</sup>	38.4	40.0
3221 Maysville Grocery Co., Maysville	3.84	12.25	8.03	38.4	38.4
3502 Carroll County Farm Bureau, Carrollton	4.31	11.45	9.47	38.4	39.8
3503 Southern States Co-op., Danville	4.00	11.90	9.32	38.4	39.6
4-12-8 (Muriate 4, Sulfate 4)					
3504 Winchester Grocery Co., Winchester	3.83	12.03	8.85	38.4	39.0
3505 Southern States Co-op., Owenton	4.61	10.78	9.31	38.4	39.5
4-12-4 (Muriate)					
3031 Bunton Seed Co., Louisville	4.02	12.08	4.74	34.4	35.3
4-10-6 (Muriate)					
2882 Farmers Cooperative Store, Owensboro	4.05	10.08	6.13	34.0	34.3
3222 Farmers Supply Co., Owingsville	4.03	10.98	6.34	34.0	35.6
3223 Eastern State Hospital, Lexington	4.03	11.25	4.72	34.0	34.3
3224 Central State Hospital, Lakeland	4.01	10.60	6.21	34.0	35.0
3506 Long & Lawson, Pine Knot	3.82	9.35	6.42	34.0	33.3
3507 L. F. Thurmond Feed Store, Murray	4.13	10.08	5.90	34.0	34.3
3508 Gibson Farm & Home Service, Barboursville	4.13	10.03	6.55	34.0	34.9
3509 Risner Wholesale Grocery, Lee City	3.94	10.38	6.83	34.0	35.2
3510 Southern States Co-op., Hazard	4.06	10.35	6.77	34.0	35.3
4-10-6 (Sulfate)					
2669 Southern States Co-op., Frankfort	3.89	9.75	6.96 <sup>d</sup>	34.0	34.4
3032 Ned Owens, Russell Springs	3.97	9.75	6.58 <sup>e</sup>	34.0	34.2
3033 Baughman Milling Co., Stanford	4.15	9.58	8.85 <sup>f</sup>	34.0	36.7
3511 Morgan Farmers Store, West Liberty	3.74	10.00	7.45 <sup>g</sup>	34.0	34.9
3512 R. R. Gilreath, Marshes Siding	4.32	9.45	6.58 <sup>h</sup>	34.0	34.6
4-10-6 (Muriate 3, Sulfate 3)					
2727 Fletcher Taylor & Son, Nicholasville	4.06	10.45	7.03	34.0	35.7
2728 Stockton Bros., Albany	4.17	9.88	6.81	34.0	35.0
2729 McCauley Brothers Seed Co., Versailles	4.10	10.03	6.63	34.0	35.0

- a. Excess Muriate equivalent to 0.34 percent potash
- b. Excess Muriate equivalent to 0.83 percent potash
- c. Excess Muriate equivalent to 0.43 percent potash
- d. Excess Muriate equivalent to 0.38 percent potash
- e. Excess Muriate equivalent to 0.60 percent potash
- f. Excess Muriate equivalent to 1.18 percent potash
- g. Excess Muriate equivalent to 0.56 percent potash
- h. Excess Muriate equivalent to 1.94 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
NORTH AMERICAN FERTILIZER CO., (Cont'd.)					
2730 Ned Owens, Russell Springs	4.26	10.05	6.55	34.0	35.1
2794 Richmond Coal & Feed Co., Richmond	3.96	10.88	6.40	34.0	35.4
2795 Richmond Coal & Feed Co., Richmond	4.23	10.15	6.39	34.0	35.0
2796 Hardware & Supply Co., North Middletown	4.35	9.48	6.29	34.0	34.4
2797 Marvin Johnson, Lawrenceburg	4.11	9.43	6.89	34.0	34.4
2798 Wilson Produce Co., Columbia	3.95	10.48	6.50 <sup>a</sup>	34.0	35.0
2799 Logan Bryan Feed Co., North Middletown	4.30	9.98	6.86	34.0	35.4
2883 Thomerson Milling Co., Glasgow	3.90	10.45	6.70	34.0	35.0
2884 D. B. Saylor, Mt. Vernon	4.24	9.85	6.29	34.0	34.6
2885 J. H. Meyers, Ewing	4.11	9.98	6.64	34.0	34.8
3034 Dorsey Brothers & Fisher, Carlisle	4.22	10.40	6.44	34.0	35.4
3035 Tates Farmers Supply Co., Monticello	4.02	10.13	6.67	34.0	34.9
3225 M. C. Roberts Coal & Feed Co., South Irvine	4.21	10.13	7.23	34.0	35.8
3226 M. C. Roberts Coal & Feed Co., South Irvine	4.13	9.75	6.63	34.0	34.6
3227 Maysville Grocery, Maysville	4.16	9.88	7.56	34.0	35.7
3513 Thomas Burford, Owenton	4.48	9.93	6.91	34.0	35.8
3514 Snyder Hardware Store, Hawesville	3.93	10.53	6.67	34.0	35.2
3515 Farmers Cooperative, Madisonville	3.91	10.00	6.78	34.0	34.6
3-12-12 (Muriate)					
3516 Farmers Cooperative, Madisonville	3.00	12.03	11.18	40.4	39.6
3-12-12 (Muriate 6, Sulfate 6)					
2800 Hardware & Supply Co., North Middletown	3.33	11.60	9.98	40.4	38.6
3-9-6 (Muriate)					
2632 Dudgeon & Robinson, Campbellsville	2.95	9.05	6.35	30.8	31.1
2801 Martin's Grocery, Manchester	3.55	9.20	6.50	30.8	32.6
2886 D. B. Saylor, Mt. Vernon	3.37	8.00	6.30	30.8	30.6
2887 Farmers Cooperative Store, Owensboro	3.18	10.03	6.05	30.8	32.5
3036 Oldham Feed & Supply Co., Buckner	3.12	9.03	7.24	30.8	32.3
3037 Farmers Feed Store, Central City	3.12	9.28	6.70	30.8	32.1
3038 Wheeler & Williams Hdw. Store, Ashland	3.02	9.10	6.99	30.8	32.0
3228 A. H. Stroud, Pineville	3.20	9.33	6.89	30.8	32.4
3229 Bell Grocery Co., Baxter	3.13	9.25	6.88	30.8	32.2
3230 Renfro Supply Co., Williamsburg	3.15	9.28	7.00	30.8	32.4
3231 Roberts Model Grocery, Olive Hill	3.03	10.33	8.25	30.8	34.7
3232 Long and Lawson, Pine Knot	2.72	9.65	5.72	30.8	30.7
3517 Southern States Co-op., London	3.01	9.08	6.19	30.8	31.1
3518 Farmers Cooperative, Madisonville	2.97	13.20	6.00	30.8	35.8
3-9-6 (Sulfate)					
2707 Payton Hatchery, Horse Cave	3.23	9.03	8.04 <sup>b</sup>	30.8	33.3
2802 Marvin Johnson, Lawrenceburg	3.20	8.43	7.80 <sup>c</sup>	30.8	32.3
2888 D. B. Saylor, Mt. Vernon	3.31	8.93	6.97 <sup>d</sup>	30.8	32.3
3039 Bonnieville Hdw. Co., Bonnieville	3.26	9.10	6.68	30.8	32.1

a. Excess Muriate equivalent to 0.27 percent potash

b. Excess Muriate equivalent to 0.45 percent potash

c. Excess Muriate equivalent to 0.52 percent potash

d. Excess Muriate equivalent to 0.33 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	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
<b>NORTH AMERICAN FERTILIZER CO., (Cont'd.)</b>					
3519 Wheeler & Williams Hdw. Store, Ashland	3.06	9.53	6.56	30.8	32.1
3520 Lewis, Whitt & Co., Wrigley	3.14	10.40	5.46 <sup>a</sup>	30.8	32.2
3521 Southern States Co-op., Flemingsburg	3.05	9.05	6.92 <sup>b</sup>	30.8	31.9
<b>3-9-6 (Muriate 3, Sulfate 3)</b>					
2633 Frank Ballard, Springfield	3.30	9.08	6.83	30.8	32.3
2803 Logan Bryan Feed Co., North Middletown	3.43	8.98	6.91	30.8	32.6
2889 Laswell Milling Co., Brodhead	3.26	9.13	6.79	30.8	32.3
3233 Roberts Model Grocery, Olive Hill	3.30	10.20	7.37	30.8	34.2
<b>2-12-6 (Muriate)</b>					
2804 Buckhorn Coal Co., Campbellsville	2.38	12.05	7.16	32.4	34.4
2890 Laswell Milling Co., Brodhead	2.57	11.98	6.63	32.4	34.2
3040 Tate's Farmers Supply Co., Monticello	2.62	11.48	6.39	32.4	33.4
3041 Farmers Feed Store, Central City	2.21	12.00	6.18	32.4	33.0
3234 Bell Grocery Co., Baxter	2.07	12.00	7.07	32.4	33.6
3235 Roberts Model Grocery, Olive Hill	2.25	12.18	6.60	32.4	33.7
3522 W. D. Cunningham, Webbs Cross Roads	2.21	12.13	5.80	32.4	32.8
3523 Deaton Brothers, Jackson	2.02	12.25	6.29	32.4	33.0
3524 Haydon Grain & Mill Co., Lebanon	2.38	12.35	5.62	32.4	33.2
3525 Snyder Hardware Store, Hawesville	2.16	11.55	7.22	32.4	33.4
3526 Ned Owens, Russell Springs	2.72	12.33	6.04	32.4	34.3
<b>0-14-7 (Muriate)</b>					
3527 Southern States Co-op., London	....	14.53	7.98	29.8	31.4
<b>0-14-4 (Muriate)</b>					
2634 C. P. Benningfield, Jessietown	....	11.10	5.82	26.8	25.1
<b>20% Superphosphate</b>					
2805 Marvin Johnson, Lawrenceburg	....	19.63	....	26.0	25.5
2891 J. H. Meyers, Ewing	....	20.30	....	26.0	26.4
3042 Bonnierville Hdw. Co., Bonnierville	....	21.35	....	26.0	27.8
3043 Wheeler & Williams Hdw. Store, Ashland	....	20.90	....	26.0	27.2
3528 Grigsby & Co., Bardstown	....	21.40	....	26.0	27.8
<b>60% Muriate of Potash</b>					
3236 U. S. Public Health Service Hospital, Lexington	....	....	54.84	54.0	49.4
<b>48% Sulfate of Potash</b>					
2892 Southern States Co-op., Flemingsburg	....	....	47.92	52.8	52.7
2806 Jewell & Haydon Hdw. Co., Bardstown	....	....	48.28	52.8	53.1
3237 Jewell & Haydon Hdw. Co., Bardstown	....	....	47.88	52.8	52.7
3238 Roberts Model Grocery, Olive Hill	....	....	52.24	52.8	57.5
<b>21.50% Sulfate of Potash Magnesia</b>					
3239 Roberts Model Grocery, Olive Hill	....	....	21.46	43.0	42.9
3529 Southern States Co-op., London	....	....	21.88	43.0	43.8

a. Excess Muriate equivalent to 0.58 percent potash

b. Excess Muriate equivalent to 0.35 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
PRICE CHEMICAL CO., INC., Louisville, Ky.					
6-8-6 (Muriate)					
2658 Guenther Hardware Co., Owensboro	6.42	8.85	6.89	35.6	38.4
2659 Monarch Milling Co., Mt. Sterling	6.20	9.25	6.27	35.6	37.8
2861 Kenneth Stewart, North Middletown	6.30	9.20	6.91	35.6	38.6
2862 Foster Fertilizer Co., Hopkinsville	5.95	8.65	7.14	35.6	37.4
3143 Hall's Feed Store, Morehead	6.32	9.63	6.13	35.6	38.3
3405 St. Matthews Produce Exchange, St. Matthews	6.37	8.78	7.10	35.6	38.4
3406 Central State Hospital, Lakeland	6.13	9.88	5.13	35.6	37.3
6-8-6 (Muriate 3, Sulfate 3)					
2863 Haydon Coal & Oil Co., Springfield	6.14	9.15	6.33	35.6	37.6
2968 Eugene Kelley, Mayslick	6.00	9.05	6.05	35.6	36.9
3144 Stout Feed Store, Mt. Washington	6.10	8.80	6.66	35.6	37.4
3145 Bastin Lumber Co., Lancaster	6.45	8.18	6.92	35.6	37.6
2708 Fox Brothers, Winchester	6.19	8.85	6.76	35.6	37.8
3407 Hardin County Milling Co., Elizabethtown	6.17	9.13	6.19	35.6	37.5
3408 G. H. Nunnally, Georgetown	6.07	8.45	6.86	35.6	37.1
4-12-4 (Muriate)					
3146 Walters & Thompson, Shelbyville	4.67	11.48	5.49	34.4	36.6
3147 Bastin Lumber Co., Lancaster	4.83	11.30	5.46	34.4	36.7
3409 G. H. Nunnally, Georgetown	4.51	11.45	5.72	34.4	36.5
4-10-6 (Muriate)					
2660 Monarch Milling Co., Mt. Sterling	4.79	10.35	6.35	34.0	36.4
2864 Kenneth Stewart, North Middletown	4.59	10.55	6.75	34.0	36.6
3-9-6 (Muriate)					
3148 Hall's Feed Store, Morehead	3.45	9.60	6.58	30.8	33.0
3410 Sam R. Lykins & Son, Stanton	3.37	9.63	5.77	30.8	32.1
0-14-7 (Muriate) with 200# tobacco stems					
2969 A. C. Roberts, Scottsville	....	13.65	7.28	29.8	29.7
0-12-12 (Muriate) with 200# tobacco stems					
3149 Walters & Thompson, Shelbyville	....	12.00	11.83	32.4	33.4
33.50% Ammonium Nitrate					
2970 Eugene Kelley, Mayslick	33.44	....	....	67.0	66.9
RALSTON PURINA COMPANY, St. Louis, Mo.					
5-10-5 (Muriate 2.50, Sulfate 2.50) "Purina Plant Food"					
3150 Goodman Brothers Co., Shelbyville	5.13	10.25	5.29	35.0	35.9
3411 Haydon Grain & Mill Co., Lebanon	5.27	10.10	5.17	35.0	35.8
3412 Holland Mills, Holland	5.25	10.58	5.15	35.0	36.4
3413 Nahm & Son, Bowling Green	5.18	10.23	5.26	35.0	35.9

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>SCHROCK FERTILIZER SERVICE, Congerville, Illinois</b>					
50% Muriate of Potash					
2781 Farmers Supply Co., Danville	....	....	52.76	58.0	55.0
<b>O. M. SCOTT &amp; SONS COMPANY, Marysville, Ohio</b>					
9-7-4 (Muriate)					
3416 Jack Dayton, Louisville	8.75	7.75	4.46	38.4	39.3
3417 Guenther Hardware Co., Owensboro	8.85	7.85	4.36	38.4	39.5
<b>THE SMITH AGRICULTURAL CHEMICAL CO., Indianapolis, Ind.</b>					
4-12-4 (Muriate) "Sacco Brand"					
3418 Master Feed & Seed Co., Louisville	4.09	11.80	4.28	34.4	34.6
<b>CARTER C. SPARKS, Edmonton, Ky.</b>					
33.50% Ammonium Nitrate					
3419 Jack Shirley, Edmonton	33.88	....	....	67.0	67.8
<b>SPENCER CHEMICAL CO., Pittsburg, Kansas</b>					
33.50% Ammonium Nitrate					
3420 Clay-Gentry Stock Yards, Lexington	33.76	....	....	67.0	67.5
3421 Walfinberger's Grocery, West Irvine	33.88	....	....	67.0	67.8
<b>SWIFT &amp; COMPANY PLANT FOOD DIVISION, National Stock Yards, Ill.</b>					
6-8-6 (Sulfate) "Blenn Brand"					
2670 J. W. Settle Feed Store, Frankfort	5.78	8.65	6.13	35.6	36.1
2709 Stanley Penn, Lexington	5.96	8.40	6.30	35.6	36.3
2710 Millersburg Coal & Lumber Co., Millersburg	5.99	8.35	6.06	35.6	36.1
2711 Kratzer Supply Co., Mt. Sterling	6.28	9.68	6.30 <sup>a</sup>	35.6	38.5
2712 Cooper Seed & Feed Co., Bandana	5.87	9.40	6.49 <sup>b</sup>	35.6	37.5
2713 Spears-Kiser Co., Paris	5.94	8.43	6.42 <sup>c</sup>	35.6	36.4
2731 Graves County Soil Association, Mayfield	5.89	9.50	6.33 <sup>d</sup>	35.6	37.5
2732 Farmers Supply Co., Danville	5.97	8.58	6.31	35.6	36.6
2733 Farmers Supply Co., Harrodsburg	6.06	8.00	6.33	35.6	36.1
2734 McCauley Bros. Seed Co., Versailles	5.84	8.40	6.31 <sup>e</sup>	35.6	36.1
2808 Cayce-Yost Co., Hopkinsville	5.82	8.70	6.21 <sup>f</sup>	35.6	36.3

- a. Excess Muriate equivalent to 0.87 percent potash
- b. Excess Muriate equivalent to 0.66 percent potash
- c. Excess Muriate equivalent to 0.34 percent potash
- d. Excess Muriate equivalent to 0.29 percent potash
- e. Excess Muriate equivalent to 0.34 percent potash
- f. Excess Muriate equivalent to 0.42 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
SWIFT & COMPANY, (Cont'd.)					
3044 Farmers Supply Co., Danville	5.84	8.53	6.19 <sup>a</sup>	35.6	36.1
3241 Sunshine Stores, Paducah	5.71	9.18	6.91 <sup>b</sup>	35.6	37.4
3242 The Peoples Store, Owingsville	6.05	8.73	6.10	35.6	36.7
3531 Morganfield Hdw. Co., Morganfield	5.90	8.02	6.17	35.6	35.6
3532 Farm Service Cooperative, Henderson	5.72	8.25	6.41 <sup>c</sup>	35.6	35.8
4-12-8 (Muriate) "Brimm Brand"					
2735 Graves County Soil Association, Mayfield	4.01	12.15	8.16	38.4	38.8
3533 Calloway County Soil Improvement Association, Murray	4.08	12.38	7.87	38.4	38.9
4-12-4 (Muriate) "Vigoro Brand"					
2714 Stanley Penn, Lexington	4.15	11.83	4.22	34.4	34.7
2715 Spears-Kiser Co., Paris	4.08	11.65	3.99	34.4	34.1
2716 Amburgey Farm Supply Co., Mt. Sterling	4.14	10.80	4.20	34.4	33.4
2809 Trigg County Trading Co., Cadiz	4.05	10.98	4.05	34.4	33.3
2810 Young & Conway Seed Co., Morganfield	4.11	13.00	4.21	34.4	36.0
2811 Cayce-Yost Co., Hopkinsville	4.01	11.43	4.06	34.4	33.8
2910 Cecilian Milling Co., Elizabethtown	3.83	12.75	3.86	34.4	34.8
2911 Allen & Jenkins, Bowling Green	4.10	13.53	4.25	34.4	36.7
2912 Big Four Feed & Impl. Co., Scottsville	4.10	14.75	4.08	34.4	38.0
2913 Farmers Co-op Store, Owensboro	4.19	12.88	4.41	34.4	36.3
3046 Bunton Seed Co., Louisville	3.97	11.65	4.42	34.4	34.3
3047 Denton Hdw. Co., Madisonville	4.08	13.75	4.27	34.4	36.9
3048 Shelby Feed & Seed Co., Shelbyville	4.02	12.13	3.98	34.4	34.6
3049 Stout Feed Store, Mt. Washington	4.05	14.35	4.14	34.4	37.5
3050 H. B. McClary, Auburn	4.06	12.25	3.78	34.4	34.6
3051 Farmers Supply Co., Shelbyville	4.10	12.23	4.23	34.4	35.1
3052 Shepherdsville Feed Mills, Shepherdsville	4.19	12.30	4.48	34.4	35.6
3246 Peoples Ice & Coal Co., Smiths Grove	4.01	12.55	4.02	34.4	35.1
3247 Yopp Seed Co., Paducah	3.93	12.05	4.12	34.4	34.4
3248 Corbett Hdw. Store, Elizabethtown	4.00	12.60	3.97	34.4	35.1
3249 Paintsville Grocery, Paintsville	4.02	12.95	4.04	34.4	35.6
3250 Farmers Co-op Store, Owensboro	4.07	12.00	4.14	34.4	34.7
3251 Harlan Fruit Co., Harlan	4.07	12.30	3.88	34.4	34.8
3252 Dudgeon & Robinson, Campbellsville	4.06	12.28	4.19	34.4	35.1
3253 Haydon Coal & Oil Co., Springfield	4.23	13.60	4.57	34.4	37.4
3254 Robert James Feed Co., Franklin	3.93	12.00	4.30	34.4	34.6
3255 The Peoples Store, Owingsville	3.98	12.78	4.43	34.4	35.7
3256 J. R. Miller, Louisa	4.08	11.95	4.14	34.4	34.6
3257 Owingsville Farmers Supply Co., Owingsville	4.01	12.05	4.23	34.4	34.7
4-12-4 (Muriate) Red Steer Brand					
3045 Dorsey Bros. & Fisher, Carlisle	4.10	12.73	4.38	34.4	35.9
3243 Millersburg Coal & Lmbr. Co., Millersburg	3.98	12.63	4.27	34.4	35.4
3244 Sunshine Stores, Paducah	3.93	12.68	4.45	34.4	35.5
3245 Paintsville Grocery, Paintsville	3.90	12.35	4.19	34.4	34.8
3534 Morganfield Hdw. Co., Morganfield	3.98	12.62	4.19	34.4	35.3

a. Excess Muriate equivalent to 0.33 percent potash

b. Excess Muriate equivalent to 1.54 percent potash

c. Excess Muriate equivalent to 0.52 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	Phos- phoric Acid Avail- able	Potash	Index of Relative Value	
				Guar.	Found
SWIFT & COMPANY, (Cont'd.)					
3-12-6 (Muriate) "Red Steer Brand"					
2812 J. E. Settle Feed Store, Frankfort	3.18	12.33	6.32	34.4	35.5
16% Nitrate of Soda					
3053 Carlisle Mill & Supply Co., Carlisle	16.20	....	....	48.0	48.6
TENNESSEE CHEM. CO., DIV. ARMOUR & CO., Cincinnati, O., Nashville, Tenn., Jeffersonville, Ind.					
6-8-6 (Sulfate) "Ox Brand"					
2684 N. T. Nuckols, Elkton	<u>5.33</u>	8.70	6.50 <sup>a</sup>	35.6	35.6
4-12-4 (Muriate) "Ox Brand"					
2685 N. T. Nuckols, Elkton	4.27	<u>11.45</u>	4.56	34.4	34.8
3151 Hall's Hdw. Co., Elkton	3.81	<u>13.50</u>	<u>3.69</u>	34.4	35.5
3-9-6 (Muriate) "Ox Brand"					
3152 Quality Grocery & Hdw. Co., Greenville	2.90	9.70	5.75	30.8	31.2
3153 Henderson Feed & Commission Co., Henderson	2.81	9.00	<u>5.54</u>	30.8	30.0
3154 H. W. Duvall, Park City	3.00	9.08	<u>5.96</u>	30.8	30.9
20% Superphosphate					
2686 N. T. Nuckols, Elkton	....	20.65	....	26.0	26.9
3155 Quality Grocery & Hdw. Co., Greenville	....	<u>18.78</u>	....	26.0	<u>24.4</u>
TENNESSEE CORPORATION, Lockland, O., New Albany, Ind.					
6-8-6 (Sulfate) "Superior Quality Brand"					
3422 Wolfinbarger's Grocery, West Irvine	6.27	8.90	<u>5.71</u>	35.6	36.9
3423 Clay-Gentry Stock Yards, Lexington	6.34	8.95	<u>5.74</u>	35.6	37.2
4-12-8 (Muriate) "Superior Quality Brand"					
2971 Houston Brothers, Brodhead	<u>3.26</u>	14.05	8.01	38.4	39.4
3156 Stagg Brothers Vanceburg	4.05	12.20	7.98	38.4	38.7
3424 Mt. Sherman Hdw. Store, Mt. Sherman	4.20	12.10	7.90	38.4	38.8
3425 Pulaski Feed Co., Somerset	4.02	12.30	8.13	38.4	38.9
4-12-8 (Sulfate) "Superior Quality Brand"					
2782 Gentry McCauley, Versailles	4.05	12.25	<u>7.49</u>	38.4	38.3
2783 Pulaski Feed Co., Somerset	4.14	12.80	<u>7.55</u>	38.4	39.2
2866 Willoughby Supply Co., Richmond	4.14	13.05	<u>7.59</u>	38.4	39.5
2867 Ward Oates Supply Co., Frankfort	4.13	12.80	<u>7.84</u>	38.4	39.5
2972 Scott McLain, Taylorsville	4.07	12.05	7.92	38.4	38.5
2973 Kratzer Supply Co., Mt. Sterling	4.05	12.35	7.76	38.4	38.7
3157 Knight Brothers, Pleasureville	4.11	12.30	<u>7.65</u>	38.4	38.6

a. 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
TENNESSEE CORPORATION, (Cont'd.)					
4-12-8 (Muriate 4, Sulfate 4) "Superior Quality Brand"					
2868 Cayce-Yost Co., Hopkinsville	4.06	12.38	7.35	38.4	38.3
2974 Davis Gillespie, Mayslick	4.20	12.63	8.04	38.4	39.6
3158 Paintsville Grocery, Paintsville	4.26	12.60	7.97	38.4	39.6
3-18-9 (Muriate) "Superior Quality Brand"					
2975 Houston Brothers, Brodhead	3.09	18.20	9.32	44.6	45.3
2-12-6 (Muriate)					
2869 Cayce-Yost Co., Hopkinsville	2.05	12.58	6.21	32.4	33.4
2870 Haydon Mill & Grain Co., Lebanon	2.02	12.25	6.39	32.4	33.1
2976 Houston Brothers, Brodhead	2.06	12.78	6.39	32.4	33.9
3426 Sandy Valley Grocery, Paintsville	2.16	11.80	6.42	32.4	32.9
3427 I. K. Miller & Sons, Campbellsville	2.10	12.15	6.08	32.4	32.9
3428 Pendleton County Mills, Falmouth	2.26	11.75	6.42	32.4	33.0
3429 Merchants Grocery Co., Pikeville	2.17	12.40	6.44	32.4	33.7
3430 Union Grocery Co., Morehead	2.08	12.28	6.25	32.4	33.2
3431 Hoagland's Hdw. Store, Sacramento	2.14	12.75	6.66	32.4	34.2
0-20-10 (Muriate) "Superior Quality Brand"					
2977 Houston Brothers, Brodhead	....	20.03	10.51	40.0	40.6
20% Superphosphate "Superior Quality Brand"					
2978 Houston Brothers, Brodhead	....	20.10	....	26.0	26.1
3159 Dorsey Brothers & Fisher, Carlisle	....	20.90	....	26.0	27.2
3432 M. C. Roberts Coal & Feed Co., South Irvine	....	20.00	....	26.0	26.0
16% Nitrate of Soda					
2979 Houston Brothers, Brodhead	15.96	....	....	48.0	47.9
27-0-0 Urea (with Peanut hulls added)					
3433 Harlan Fruit Co., Harlan	<u>22.04</u>	....	....	48.6	<u>39.7</u>
3434 Penn Mercantile Co., Mannsville	<u>23.68</u>	....	....	48.6	<u>42.6</u>
VALLEY COUNTIES OF KENTUCKY COOPERATIVE, Murray, Ky.					
33% Ammonium Nitrate					
3435 Southern States Ballard Co-op., LaCenter	32.96	....	....	66.0	65.9
VIRGINIA-CAROLINA CHEMICAL CORPORATION, Cincinnati, O., Mt. Pleasant, Tenn., Richmond, Va., Atlanta, Ga.					
6-8-6 (Muriate) V-C					
2871 Farmers Supply Co., Morganfield	<u>5.46</u>	8.55	<u>5.54</u>	35.6	34.7

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
VIRGINIA-CAROLINA CHEMICAL CORP., (Cont'd.)					
6-8-6 (Sulfate)					
2662 Madison Farmers Supply, Richmond	5.38	8.40	6.29	35.6	35.1
2718 A. C. Bogie, Winchester	5.24	8.63	6.24	35.6	35.1
2784 Barnett & Sullivan, Harrodsburg	6.06	8.25	6.18	35.6	36.2
2872 Madison Farmers Supply Co., Richmond	5.54	8.45	6.50	35.6	35.7
2980 Hardin County Milling Co., Elizabethtown	5.66	8.60	6.31	35.6	36.0
3160 Dodd's Corner, Nicholasville	5.88	8.20	6.35	35.6	36.0
3161 Shelby Feed & Seed Co., Shelbyville	5.92	8.58	6.10	35.6	36.2
4-12-8 (Sulfate)					
2873 Madison Farmers Supply Co., Richmond	3.92	12.40	7.66	38.4	38.4
2874 U. L. Rogers, Columbia	4.05	11.70	8.32	38.4	38.5
3436 Vance Evans, Mt. Sterling	3.89	13.03	7.63	38.4	39.1
4-12-8 (Muriate 4, Sulfate 4)					
2719 A. C. Bogie, Winchester	3.38	12.30	8.37	38.4	37.9
2785 J. H. Greene, Lexington	3.72	11.80	8.21	38.4	37.8
2875 H. R. Squires, Greensburg	3.22	12.10	8.43 <sup>a</sup>	38.4	37.4
4-12-4 (Muriate)					
2876 Bell County Supply Co., Middlesboro	3.84	13.00	4.25	34.4	35.5
4-12-4 (Sulfate)					
2877 Madison Farmers Supply Co., Richmond	3.73	12.25	4.68 <sup>b</sup>	34.4	34.8
3162 Grayson Milling Co., Grayson	3.55	12.60	4.24	34.4	34.5
3437 Adams & Moore, Cynthia	3.98	12.00	4.64	34.4	35.0
3-9-6 (Muriate)					
2878 Bell County Supply Co., Middlesboro	2.97	9.53	5.95	30.8	31.3
3438 Francis Wholesale Co., Prestonsburg	3.10	9.05	5.82	30.8	30.9
2-12-6 (Muriate)					
2981 Big 4 Feed & Impl. Co., Scottsville	2.01	12.55	6.27	32.4	33.4
2982 D. B. Saylor, Mt. Vernon	1.90	12.25	6.08	32.4	32.6
3163 E. M. Osborne General Store, Beech Grove	1.96	12.25	6.27	32.4	32.9
20% Superphosphate					
3439 Hardin County Milling Co., Elizabethtown	....	20.33	....	26.0	26.4
3440 U. C. Janes, Gradyville	....	20.40	....	26.0	26.5
18% Superphosphate					
2879 Bell County Supply Co., Middlesboro	....	19.00	....	23.4	24.7
21.50% Sulfate of Potash Magnesia					
2880 Madison Farmers Supply Co., Richmond	....	....	21.48	43.0	43.0
3164 Stanley Galbraith & Son, Carlisle	....	....	21.84	43.0	43.7
3165 Sanders & Rankin, Lancaster	....	....	21.84	43.0	43.7

a. Excess Muriate equivalent to 0.50 percent potash

b. Excess Muriate equivalent to 0.40 percent potash

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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 rela- tive value	
	Available		Total		Guar.	Found
	Guar.	Found	Guar.	Found		
THE AMERICAN AGRICULTURAL CHEMICAL CO., Cincinnati, O.						
Ground Phosphate Rock						
3063 John Leet, Prospect	3.00	2.95	31.00	31.65	15.5	15.8
3286 L. C. McLoney and Sons, Cynthiana	3.00	3.70	31.00	31.40	15.5	15.7
RUHM PHOSPHATE & CHEMICAL CO., Mt. Pleasant, Tenn.						
Phosphate Rock "Red Seal Brand"						
2661 Southern States Co-op., Hawesville	....	....	30.00	30.10	15.0	15.0
2807 C. V. Clark, Greensburg	....	....	30.00	30.40	15.0	15.2
3240 C. M. Probus, Lebanon	....	....	30.00	30.45	15.0	15.2
3530 Meade Farmers Supply, Brandenburg	....	....	30.00	30.50	15.0	15.3
SCHROCK FERTILIZER SERVICE, Congerville, Ill.						
Phosphate Rock						
3414 Harrison Bros. Farm Supply, Berea	....	....	33.00	33.30	16.5	16.7
Phosphate Rock						
3415 Farmers Co-op Store, Owensboro	....	....	30.00	33.10	15.0	16.6
SWIFT & COMPANY PLANT FOOD DIVISION, National Stock Yards, Ill.						
Ground Raw Phosphate						
3258 Robert E. Kratzer, Mt. Sterling	....	....	31.00	32.40	15.5	16.2
TENNESSEE COAL, IRON & RAILROAD CO., Birmingham, Alabama						
Basic Slag, Low Grade Open Hearth						
2865 Shipp & Allen, Campbellsville	....	....	8.00	11.90	8.0	11.9
THOMSON PHOSPHATE COMPANY, Chicago, Ill.						
Powdered Rock Phosphate, "Four Leaf Brand, Florida"						
2717 Morgan Farmers Store, West Liberty	2.00	3.65	31.00	31.20	15.5	15.6
3259 Don Reynolds, Tyner	2.00	3.70	31.00	31.50	15.5	15.8
Powdered Rock Phosphate "Four Leaf Brand"						
2914 Joe Nickell, Daysboro	2.00	3.60	30.00	31.40	15.0	15.7
3054 Garrard Mills, Lancaster	2.00	2.65	30.00	28.90	15.0	14.5