

Regulatory Bulletin 60

October, 1947

# ANALYSES OF OFFICIAL FERTILIZER SAMPLES

by the

FEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT  
STATION

Semi-Annual Report  
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Kentucky Agricultural Experiment Station  
University of Kentucky  
Lexington

TABLE 1—ANALYSES OF INSPECTION SAMPLES OF MIXED FERTILIZERS, SUPERPHOSPHATE, AND FERTILIZER SALTS

(Analyses printed in bold type in the following table failed to equal guaranty by more than one-fourth of 1 percent. A tolerance of one-fourth of 1 percent is allowed, as deficiencies within this amount are not considered to be evidence of fraudulent intent.)

Name and Address of Manufacturer, Brand Name, Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
	Total	Water Soluble				Guar.	Found
<b>The American Agricultural Chemical Co., Cincinnati, Ohio.</b>							
6-8-6 (Muriate)							
J. H. Fedders & Son, Covington	6.02	5.96	8.23	6.24	---	35.6	36.2
L. C. McLoney and Sons, Cynthiana	6.18	6.06	8.43	6.53	---	35.6	37.0
Geo. W. Hill, Covington	5.81	5.69	8.13	6.24	---	35.6	35.6
Bale Hdw. & Impl. Co., Horse Cave	<b>5.61</b>	5.53	8.43	5.91	---	35.6	35.3
V. R. Sanders & Son, Rocky Hill	<b>5.67</b>	5.60	8.33	6.27	---	35.6	35.6
6-8-6 (Muriate 3, Sulfate 3)							
Forest Retreat Farm, Carlisle	5.90	5.02	8.95	6.04	Yes	35.6	35.6
Walter & Readnour, Walton	5.90	5.67	8.33	5.82	Yes	35.6	35.6
Corbett Hardware Co., Elizabethtown	5.75	5.68	8.33	5.86	Yes	35.6	35.4
Lebanon Carriage & Impl. Co., Lebanon	5.93	5.71	8.63	6.04	Yes	35.6	36.3
Mountain Dew Coal Co., Lexington	<b>5.73</b>	5.63	8.65	5.96	Yes	35.6	35.8
Weisenberger Sanitary Flour Mills, Midway	5.89	5.79	8.38	6.01	Yes	35.6	35.9
T. S. Roberts, Mill Springs	5.85	5.79	8.33	6.24	Yes	35.6	35.9
Rowland's Feed & Hdw. Co., Owensboro	5.89	5.80	8.25	6.27	Yes	35.6	36.0
Johnson & Hodges, Waynesburg	5.90	5.74	8.55	6.11	Yes	35.6	36.2
4-12-8 (Muriate)							
L. F. Wellman, Louisa	4.18	4.12	12.05	8.28	---	38.4	39.1
4-12-8 (Muriate 4, Sulfate 4)							
Clinton Jones, Morehead	3.98	3.80	11.78	8.60	Yes	38.4	38.7
Mountain Dew Coal Co., Lexington	3.95	3.80	12.03	8.65	Yes	38.4	39.0
Caulk Hardware Co., Campbellsville	4.01	3.91	12.05	8.21	Yes	38.4	38.7
Carroll Co. Farm Bureau, Carrollton	4.04	3.92	<b>11.65</b>	8.85	Yes	38.4	38.9
J. J. Hughes, Campton	4.01	3.86	<b>11.65</b>	8.61	Yes	38.4	38.6
C. B. Goering, Hawesville	4.04	3.85	11.95	8.03	Yes	38.4	38.5
J. W. Davidson, Science Hill	4.09	3.91	<b>11.50</b>	8.07	Yes	38.4	38.1
4-12-4 (Muriate)							
Southern States Cooperative, Newport	4.08	3.91	<b>11.53</b>	4.48	---	34.4	34.5
Isaac Craigs, Mt. Sterling	4.04	3.91	11.90	4.64	---	34.4	35.0
4-12-0							
Bale Hardware Co., Horse Cave	4.08	3.78	<b>11.50</b>	---	---	28.4	28.0
L. C. McLoney & Sons, Cynthiana	4.00	3.71	<b>11.45</b>	---	---	28.4	27.7
H. C. Harmon, Perryville	4.14	3.80	11.80	---	---	28.4	28.4

3-9-6 (Muriate)												
L. F. Wellman, Louisa	3.02	2.89	8.90	6.13	---	---	---	30.8	30.9	---	---	---
Clinton Jones, Morehead	3.10	2.95	8.95	6.24	---	---	---	30.8	31.0	---	---	---
Lebanon Carriage & Impl. Co., Lebanon	3.03	2.92	8.75	6.32	---	---	---	30.8	31.1	---	---	---
J. E. M. Milling Co., Frankfort	3.02	2.94	8.35	6.16	---	---	---	30.8	30.7	---	---	---
C. C. Hdw. Seed & Feed Co., Hartford	2.98	2.90	8.88	5.74	---	---	---	30.8	31.4	---	---	---
Mountain Dew Coal Co., Lexington	3.17	3.13	9.33	6.48	---	---	---	30.8	30.4	---	---	---
Isaac Craig, Mt. Sterling	3.03	2.94	9.20	6.13	---	---	---	30.8	32.0	---	---	---
Kentucky Wholesale Co., Pikeville	3.03	2.94	9.18	6.09	---	---	---	30.8	31.2	---	---	---
Rowland Hdw. & Feed Store, Owensboro	3.00	2.92	8.58	5.88	---	---	---	30.8	31.3	---	---	---
Hayes Hardware Store, Dawson Springs	2.94	1.89	9.68	5.56	---	---	---	30.8	30.2	---	---	---
M. H. Sidwell, Monticello	2.94	1.89	9.68	5.56	---	---	---	30.8	31.1	---	---	---
2-12-6 (Muriate)												
L. F. Wellman, Louisa	2.06	2.00	12.28	6.25	---	---	---	32.4	33.1	---	---	---
Ross Feed Store, Murray	1.98	1.84	11.75	6.25	---	---	---	32.4	32.3	---	---	---
Rowland Hdw. & Feed Store, Owensboro	1.99	1.93	11.95	5.93	---	---	---	32.4	32.3	---	---	---
A. G. Miller & Co., Magnolia	2.05	2.00	11.83	6.13	---	---	---	32.4	32.4	---	---	---
V. R. Sanders & Son, Rocky Hill	2.01	1.89	11.48	6.01	---	---	---	32.4	31.8	---	---	---
Johnson and Hodges, Waynesburg	2.03	1.96	11.50	6.22	---	---	---	32.4	32.1	---	---	---
M. H. Sidwell, Monticello	2.11	2.04	12.15	5.99	---	---	---	32.4	32.8	---	---	---
Woodson Lewis & Son, Greensburg	1.99	1.95	12.03	5.93	---	---	---	32.4	32.4	---	---	---
Hayes Hardware Store, Dawson Springs	2.02	1.97	12.23	6.36	---	---	---	32.4	33.1	---	---	---
Caulk Hardware Co., Campbellsville	2.01	1.94	11.73	6.16	---	---	---	32.4	32.3	---	---	---
L. C. McLoney & Sons, Cynthiana	1.96	1.90	11.68	6.01	---	---	---	32.4	32.0	---	---	---
0-12-12 (Muriate)												
Forest Retreat Farm, Carlisle	---	---	12.00	13.09	---	---	---	32.4	33.5	---	---	---
18% Superphosphate												
Millersburg Coal & Lumber Co., Millersburg	---	---	18.78	---	---	---	---	23.4	24.4	---	---	---
J. W. Davidson, Science Hill	---	---	18.35	---	---	---	---	23.4	23.9	---	---	---
Watson Coal & Feed Co., Princeton	---	---	19.08	---	---	---	---	23.4	24.8	---	---	---
L. C. McLoney & Sons, Cynthiana	---	---	18.73	---	---	---	---	23.4	24.4	---	---	---
C. C. Hdw., Seed and Feed Co., Hartford	---	---	18.48	---	---	---	---	23.4	24.0	---	---	---
Kidd Brothers, Barbourville	---	---	18.38	---	---	---	---	23.4	23.9	---	---	---
Mountain Wholesale Grocery, Lothair	---	---	18.85	---	---	---	---	23.4	24.5	---	---	---
T. S. Roberts, Mill Springs	---	---	18.55	---	---	---	---	23.4	24.1	---	---	---
M. H. Sidwell, Monticello	---	---	18.40	---	---	---	---	23.4	23.9	---	---	---
H. W. Smith Store, Horse Cave	---	---	18.53	---	---	---	---	23.4	24.1	---	---	---
V. R. Sanders, Rocky Hill	---	---	18.08	---	---	---	---	23.4	23.5	---	---	---
20.60% "Aero" Cyanamid Grandular Farmers Supply Co., Monticello	20.88	---	---	---	---	---	---	49.4	50.1	---	---	---
16% Chilean Nitrate of Soda L. F. Wellman, Louisa	16.08	---	---	---	---	---	---	48.0	48.2	---	---	---
<b>Armour Fertilizer Works, Cincinnati, O., Jeffersonville, Ind., Nashville, Tenn.</b>												
6-8-6 (Muriate) "Big Crop Brand" Farmers Supply Co., Hodgenville	6.47	6.31	8.00	6.83	---	---	---	35.6	37.4	---	---	---
Forbes Hardware Co., Hopkinsville	5.86	5.57	9.35	6.08	---	---	---	35.6	37.0	---	---	---
6-8-6 (Sulfate) Armour's Fayette Coal & Feed Co., Lexington	5.87	5.75	8.00	5.77	---	---	---	35.6	35.1	Yes	---	---

ANALYSES OF INSPECTION SAMPLES OF MIXED FERTILIZERS, SUPERPHOSPHATE, AND FERTILIZER SALTS—Continued

Name and Address of Manufacturer, Brand Name, Guaranty, and From Whom Obtained	Nitrogen		Phos- phoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
	Total	Water Soluble				Guar.	Found
<b>Armour Fertilizer Works, Cincinnati, O.; Jeffersonville, Ind., Nashville, Tenn.—(Cont.)</b>							
Upton Hardware Co., Upton	6.02	5.68	8.20	5.38	Yes	35.6	35.3
Monarch Supply Co., Morehead	6.13	6.00	8.07	5.80	Yes	35.6	35.7
L. C. McLoney and Sons, Cynthia	6.03	5.83	8.53	6.75	Yes	35.6	37.1
Sphar and Company, Winchester	6.05	5.66	7.90	6.84	Yes	35.6	36.4
Ramsey Feed Store, Campbellsville	6.30	5.95	7.65	6.44	Yes	35.6	36.2
Willoughby Supply Co., Richmond	6.03	5.74	9.18	6.05	Yes	35.6	37.1
Big Four Feed & Impl. Co., Scottsville	5.55	5.18	9.08	5.74	Yes	35.6	35.7
J. E. Collins, Clay	5.88	5.64	7.95	6.49	Yes	35.6	35.8
J. Leonard Stamer, Grassy Creek	6.00	5.73	8.68	6.81	Yes	35.6	37.2
Von Grunigan Hdw. Co., Nicholasville	5.81	5.68	7.98	5.77	Yes	35.6	35.0
Goodman Brothers, Shelbyville	6.03	5.75	8.65	6.48	Yes	35.6	36.9
W. D. Cunningham, Webb's Cross Roads	6.28	5.94	7.93	6.04	Yes	35.6	36.1
E. M. Bryant, Tollesboro	5.76	5.54	8.68	6.83	Yes	35.6	36.8
D. H. Tate, Monticello	6.00	5.58	8.28	5.66	No <sup>1</sup>	35.6	35.6
Anderson and Spilman, Danville	6.02	5.59	8.15	5.96	Yes	35.6	35.8
4-12-4 (Muriate) "Big Crop"							
H. B. McClary, Auburn	3.98	3.61	11.27	4.58	---	34.4	34.1
Kuttawa Milling Co., Kuttawa	4.23	3.95	12.10	4.02	---	34.4	35.1
Page & Goulder, Barlow	4.02	3.67	11.95	4.11	---	34.4	34.5
L. B. Coleman & Son, Pikeville	4.07	3.87	12.10	4.40	---	34.4	35.1
Willoughby Supply Co., Richmond	3.87	3.68	12.03	4.61	---	34.4	34.8
Stearns Coal & Lumber Co., Stearns	4.00	3.92	12.55	4.30	---	34.4	35.4
G. F. Johnson, Virgie	3.89	3.75	12.23	4.16	---	34.4	34.6
H. B. McClary, Auburn	3.79	3.46	12.35	4.14	---	34.4	34.5
Keller Hay & Grain Co., Newport	3.41	3.27	12.50	4.33	---	34.4	34.2
D. H. Tate, Monticello	4.09	3.70	12.03	4.33	---	34.4	35.0
Gid Hollingsworth, Tompkinsville	3.74	3.38	12.05	4.27	---	34.4	34.2
4-12-4 (Sulfate) Armour's							
Herman Singleton, Brodhead	3.96	3.81	12.03	4.35	Yes	34.4	34.7
Jim Pyles, Junction City	4.03	3.76	12.05	4.39	Yes	34.4	34.9
J. C. Everett & Co., Maysville	4.00	3.78	12.00	4.81	No <sup>2</sup>	34.4	35.2
John P. Penn & Co., Georgetown	4.07	3.81	12.00	4.32	Yes	34.4	34.7
Sphar and Co., Winchester	4.15	3.85	12.08	4.33	Yes	34.4	35.0
Barren County Hdw. Co., Glasgow	4.15	3.78	12.03	4.44	Yes	34.4	35.2
Elkins & Rose, Stillwater	4.17	3.80	11.85	4.19	Yes	34.4	34.7
Farmers Supply Co., Eminence	4.11	3.83	11.78	4.19	Yes	34.4	34.7
Clyde Dean, Augusta	4.11	3.98	12.33	4.14	Yes	34.4	35.2
Von Grunigan Hdw. Co., Nicholasville	4.08	3.95	12.00	4.14	Yes	34.4	34.6

<sup>1</sup> Excess Muriate Equivalent to 1.06 percent potash  
<sup>2</sup> Excess Muriate Equivalent to 1.51 percent potash

Durham Hdw. & Impl. Co., Danville  
 S. A. Hill, Harrodsburg  
 T. E. Clausen, Bonnieville  
 Anderson and Spilman, Danville

3-9-6 (Muriate) "Big Crop Brand"  
 Herman Singleton, Brodhead  
 Louisa Supply Co., Louisa  
 Butterworth Seed Co., Mayfield  
 Guy Armes, Hardinsburg  
 Elkins & Ross, Stillwater  
 Central Grocery Co., Prestonsburg  
 Big Four Feed & Impl. Co., Scottsville  
 L. B. Coleman and Son, Pikeville  
 Williams Grocery, Paintsville  
 Wayne Milling Co., Monticello  
 Stearns Coal & Lumber Co., Stearns

3.16  
 4.08  
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3.84  
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11.80  
 11.85  
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4.90  
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 4.95

Yes  
 Yes  
 Yes  
 Yes

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 2.81  
 3.03

3-9-6 (Sulfate) Armour's  
 Herman Singleton, Brodhead  
 Jim Pyles, Junction City  
 Irvington Truck Lines, Irvington  
 Upton Hardware Co., Upton  
 Monarch Supply Co., Morehead  
 Lester Lynd, Ashland  
 L. C. McLoney & Sons, Cynthia  
 Elkins and Ross, Stillwater  
 Farmers Supply Co., Hodgenville  
 Globmyer Coal & Lumber Co., Carrollton  
 Barren County Hardware Co., Glasgow  
 Centers and Terrell, Campton  
 Wayne Milling Co., Monticello  
 J. Leonard Stamer, Grassy Creek  
 Goodman Brothers, Shelbyville  
 Hatter Hardware Co., Franklin  
 R. A. Wilson Company, Russellville  
 G. M. Haycraft and Son, Leitchfield  
 D. H. Tate, Monticello  
 Ramsey Feed Store, Campbellsville

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 2.18  
 2.01  
 2.13  
 1.99

2-12-6 (Muriate) "Old Black Joe"  
 Herman Singleton, Brodhead  
 Jim Pyles, Junction City  
 Irvington Truck Lines, Irvington  
 D. H. Tate, Monticello  
 D. H. Tate, Monticello  
 E. M. Bryant, Tollesboro  
 John P. Penn & Co., Georgetown  
 Farmers Feed Store, Marion  
 Big Four Feed & Impl. Co., Scottsville  
 Elkins & Ross, Stillwater  
 Hollingsworth & Chappell, Tompkinsville  
 Farmers Supply Co., Hodgenville

1.92  
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 32.4

<sup>1</sup> Excess Muriate equivalent to 0.29 percent potash

**ANALYSES OF INSPECTION SAMPLES OF MIXED FERTILIZERS, SUPERPHOSPHATE, AND FERTILIZER SALTS—Continued**

Name and Address of Manufacturer, Brand Name, Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met.	Index of Relative Value	
	Total	Water Soluble				Guar.	Found
<b>Armour Fertilizer Works, Cincinnati, O., Jeffersonville, Ind.,</b>							
<b>2-12-6 (Muriate) "Old Black Joe"</b>							
Centers & Terrell, Campton	2.13	1.95	11.98	6.66	---	32.4	33.3
Bachman Implement Co., Calhoun	2.03	1.85	11.95	5.92	---	32.4	32.3
J. F. Miller & Son, Temple Hill	1.93	1.81	12.00	6.33	---	32.4	32.6
O. J. Webb, Lackey	1.91	1.80	12.63	6.16	---	32.4	33.2
T. E. Clausen, Bonnieville	2.11	1.79	12.30	5.96	---	32.4	32.5
Forbes Hardware Co., Hopkinsville	1.86	1.76	11.63	6.39	---	32.4	32.5
Watkins Brothers, Smithfield	---	1.69	11.93	6.38	---	32.4	32.4
<b>0-14-7 (Muriate) "Big Crop Brand"</b>							
T. M. Lee, Cave City	---	---	11.73	7.51	---	29.8	27.6
<b>0-14-4 (Muriate) "Big Crop Brand"</b>							
Kuttawa Milling Company, Kuttawa	---	---	15.00	4.50	---	26.8	28.5
<b>20% Superphosphate "Big Crop Brand"</b>							
D. H. Tate, Monticello	---	---	19.80	---	---	26.0	25.7
Keller Hay & Grain Co., Newport	---	---	19.55	---	---	26.0	25.4
E. M. Love, Elihu	---	---	18.90	---	---	26.0	24.6
Herman Singleton, Brodhead	---	---	19.75	---	---	26.0	25.7
<b>19% Superphosphate "Big Crop Brand"</b>							
H. B. McClary, Auburn	---	---	19.02	---	---	24.7	24.7
Farmers Feed Store, Marion	---	---	19.28	---	---	24.7	25.1
Butterworth Seed Company, Mayfield	---	---	19.63	---	---	24.7	25.5
Cadiz Hardware Co., Cadiz	---	---	19.33	---	---	24.7	25.1
L. C. McLoney & Sons, Cynthiana	---	---	19.50	---	---	24.7	25.4
<b>Associated Cooperatives, Sheffield, Alabama.</b>							
<b>45% Superphosphate</b>							
Southern States Cooperative, Maysville	---	---	46.50	---	---	58.5	60.5
Southern States Cooperative, Flemingsburg	---	---	46.95	---	---	58.5	61.0
<b>46% Superphosphate</b>							
Southern States Cooperative, Shelbyville	---	---	47.93	---	---	59.8	62.3
<b>47% Superphosphate</b>							
Southern States Cooperative, Tompkinsville	---	---	48.13	---	---	61.1	62.6
<b>32.50% Ammonium Nitrate</b>							
Southern States Cooperative, Flemingsburg	32.56	---	---	---	---	65.0	65.1
Graves County Soil Asso., Mayfield	33.20	---	---	---	---	65.0	66.4
W. C. Turner, Greensburg	32.72	---	---	---	---	65.0	65.4
Carroll County Farm Bureau, Carrollton	33.32	---	---	---	---	65.0	66.6

Deaton Brothers, Jackson	33.52	---	---	---	---	---	---	---	67.0
Southern States Cooperative, Campbellsville	33.16	---	---	---	---	---	---	---	66.3
Farmers Cash Store, Liberty	33.24	---	---	---	---	---	---	---	66.5
Farmers Supply Co., Monticello	33.12	---	---	---	---	---	---	---	66.2
<b>The Buhner Fertilizer Company, Seymour, Indiana.</b>									
6-8-6 (Muriate) Buhner's	5.65	5.50	8.25	6.24	---	---	---	---	35.4
Paul Bright, Hardinsburg	---	---	---	---	---	---	---	---	---
4-12-8 (Muriate) Buhner's	4.12	3.95	12.63	8.71	---	---	---	---	40.1
Manufacturer's warehouse, Louisville	---	---	---	---	---	---	---	---	---
4-12-0 Buhner's	4.06	3.87	12.88	---	---	---	---	---	29.6
Buhner and Company, Louisville	---	---	---	---	---	---	---	---	---
2-12-12 (Muriate) Buhner's	3.44	3.30	12.33	11.91	---	---	---	---	41.6
Buhner and Company, Louisville	3.22	3.08	12.05	12.15	---	---	---	---	41.1
Cleo M. Wilson, Nancy	---	---	---	---	---	---	---	---	---
3-9-6 (Muriate) Buhner's	3.14	2.97	9.30	7.37	---	---	---	---	32.8
Buhner and Company, Louisville	2.76	2.63	9.30	7.82	---	---	---	---	32.5
Cleo M. Wilson, Nancy	2.59	2.45	8.65	7.04	---	---	---	---	30.8
Fern Creek Feed & Hdw. Co., Buechel	2.91	2.76	8.60	7.92	---	---	---	---	30.6
Roscoe Morris, Somerset	3.15	3.01	9.23	6.98	---	---	---	---	32.1
Shepherdsville Feed Mills, Shepherdsville	3.15	3.01	10.10	6.08	---	---	---	---	32.4
J. L. Wilson General Mdse., Canmer	---	---	---	---	---	---	---	---	32.5
2-12-6 (Muriate) Buhner's	2.04	1.95	11.83	6.42	---	---	---	---	32.7
Rock's Farm Center, Munfordville	3.05	2.84	9.80	6.24	---	---	---	---	32.1
J. H. Hubbard, Leitchfield	1.94	1.85	11.33	6.39	---	---	---	---	31.9
Roscoe Morris, Somerset	---	---	---	---	---	---	---	---	---
0-12-12 (Muriate) Buhner's	---	---	12.08	12.76	---	---	---	---	33.3
Buhner and Co., Louisville	---	---	12.20	12.69	---	---	---	---	33.3
Cleo M. Wilson, Nancy	---	---	---	---	---	---	---	---	---
<b>Cooperative Fertilizer Service, Richmond, Virginia.</b>									
2-12-6 (Muriate)	2.11	2.02	12.25	6.04	---	---	---	---	33.0
Southern States Cooperative, Somerset	2.11	2.03	12.40	6.13	---	---	---	---	33.2
Farmers Supply Co., Monticello	2.09	2.02	12.35	6.11	---	---	---	---	33.1
Berea Seed Growers, Berea	2.07	1.99	12.20	6.55	---	---	---	---	33.3
Southern States Cooperative, Maysville	2.23	2.14	12.80	5.96	---	---	---	---	33.4
Deaton Brothers, Jackson	2.15	2.07	12.45	5.87	---	---	---	---	33.8
Farmers Exchange, Burkesville	2.12	2.06	12.58	6.17	---	---	---	---	33.1
Southern States Cooperative, LaGrange	2.13	2.04	12.40	5.98	---	---	---	---	33.5
Southern States Cooperative, Lebanon	2.21	2.12	12.25	6.78	---	---	---	---	33.1
Barnett, Sullivan & Co., Harrodsburg	---	---	---	---	---	---	---	---	33.9
6-8-6 (Muriate) Cumberland	5.50	5.31	8.35	6.06	---	---	---	---	35.1
<b>Cumberland Chemical Company, Hopkinsville, Ky.</b>	---	---	---	---	---	---	---	---	---
Smith & Reynolds Co., Slaughters	---	---	---	---	---	---	---	---	---
6-8-6 (Muriate 3, Sulfate 3) Cumberland	5.99	5.76	8.58	6.29	---	---	---	---	35.6
Bachman Implement Co., Calhoun	---	---	---	---	---	---	---	---	---
									Yes

**ANALYSES OF INSPECTION SAMPLES OF MIXED FERTILIZERS, SUPERPHOSPHATE, AND FERTILIZER SALTS—Continued**

Name and Address of Manufacturer, Brand Name, Guaranty, and From Whom Obtained	Nitrogen		Phos- phoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
	Total	Water Soluble				Guar.	Found
<b>Cumberland Chemical Company, Hopkinsville, Ky.—(Cont.)</b>							
3-9-6 (Muriate) Cumberland Fox Hardware Co., Madisonville	2.91	2.81	9.35	<b>5.68</b>	—	30.8	30.7
Trigg County Trading Co., Cadiz	3.49	3.38	8.80	6.15	—	30.8	31.7
Ratliff Hardware Co., Princeton	3.58	3.48	<b>8.67</b>	6.37	—	30.8	31.9
Smith & Reynolds Co., Slaughters	3.16	3.06	9.03	6.01	—	30.8	31.2
2-12-6 (Muriate) Cumberland Fox Hardware Co., Madisonville	1.83	1.64	12.08	5.85	—	32.4	32.0
18% Superphosphate, Cumberland Forbes Hardware Co., Hopkinsville	—	—	18.15	—	—	23.4	23.6
Trigg County Trading Co., Cadiz	—	—	18.75	—	—	23.4	24.4
33.50% Imported Ammonium Nitrate Farmers Cooperative Store, Owensboro	33.68	—	—	—	—	67.0	67.4
<b>The Davison Chemical Corporation, Hopkins Fertilizer Division, New Albany, Ind.</b>							
6-8-6 (Muriate) "Old Time" Blue Grass Produce Co., Carlisle	5.89	5.70	8.23	6.16	—	35.6	35.8
G. C. McPhetridge, London	6.49	6.33	8.00	6.34	—	35.6	36.9
William Schwartz, Mayslick	5.99	5.80	8.50	6.29	—	35.6	36.5
Summerhayes Lumber & Coal Co., Paris	6.07	5.88	8.83	5.88	—	35.6	36.6
Buechel Produce Exchange, Buechel	5.82	5.67	8.73	6.49	—	35.6	36.6
Warsaw Hardware Co., Warsaw	5.90	5.71	8.45	6.21	—	35.6	36.2
Lillard Miles, Nicholasville	6.11	5.97	8.53	6.24	—	35.6	36.7
Ward's General Store, Munfordville	5.71	5.56	8.55	6.17	—	35.6	35.9
3-10-3 (Muriate) "Old Time" G. C. McPhetridge, London	3.11	2.96	9.30	3.18	—	29.0	28.6
R. D. Reynolds, Cave City	3.28	3.16	10.03	3.62	—	29.0	30.2
3-9-6 (Muriate) "Old Time" G. C. McPhetridge, London	3.11	2.96	9.50	6.31	—	30.8	31.9
Farmers Feed & Supply Co., London	3.02	2.88	9.45	6.36	—	30.8	31.7
G. C. McPhetridge, London	3.14	3.00	9.18	5.93	—	30.8	31.2
Buechel Produce Exchange, Buechel	3.11	2.99	9.83	6.31	—	30.8	32.8
Jewell & Hayden Hdw. Co., Bardstown	2.90	2.75	10.05	<b>5.57</b>	—	30.8	31.4
2-12-6 (Muriate) "Old Time" G. C. McPhetridge, London	2.15	1.96	12.18	6.46	—	32.4	33.4
Henderson Feed & Commission Co., Henderson	2.16	2.01	11.75	6.00	—	32.4	32.4
Nelson Feed Store, Marion	2.24	2.12	12.30	6.07	—	32.4	33.3
Farmers Feed & Supply Co., London	1.86	1.76	13.80	<b>4.35</b>	—	32.4	32.6
Jewell & Hayden Hdw. Co., Bardstown	2.15	2.02	12.38	5.90	—	32.4	33.1



Ward's General Store, Munfordville	2.10	1.95	12.28	5.66	---	32.4	32.6
W. S. Allen, Liberty	2.12	2.01	12.20	6.62	---	32.4	33.5
20% Superphosphate "Old Time"	---	---	20.75	---	---	26.0	27.0
Farmers Feed & Supply Co., London	---	---	21.10	---	---	26.0	27.4
Jewell & Hayden, Bardstown	---	---	---	---	---	---	---
33.50% Ammonium Nitrate "Old Time"	33.76	---	---	---	---	67.0	67.5
Farmers Feed & Supply Co., London	33.52	---	---	---	---	67.0	67.0
G. C. McPhetridge, London	---	---	---	---	---	---	---
<b>The Davison Chemical Corporation, Nashville, Tennessee.</b>							
6-8-6 (Muriate 3, Sulfate 3) "Davco Red Diamond"	6.14	5.95	8.85	6.08	Yes	35.6	37.0
Calloway County Soil Improvement Association, Murray	6.01	5.86	8.35	6.87	No <sup>1</sup>	35.6	36.9
Farmers Supply Store, Mt. Sterling	5.80	5.64	9.35	6.41	No <sup>2</sup>	35.6	37.2
Haydon Mill & Grain Co., Lebanon	5.55	5.35	8.48	5.84	Yes	35.6	35.1
C. S. Brent Seed Co., Lexington	6.16	5.94	8.23	5.79	Yes	35.6	36.0
Farmers Supply Co., Harrodsburg	5.85	5.60	8.37	5.98	Yes	35.6	35.7
Simpson County Seed Co-op., Franklin	5.30	5.17	10.13	4.88	Yes	35.6	35.4
Garrard Mills, Lancaster	5.27	5.09	8.30	5.76	No <sup>3</sup>	35.6	34.3
Eldred Hardware Co., Princeton	6.10	5.92	8.75	5.23	Yes	35.6	35.9
Henry Durham, Greensburg	6.26	6.08	8.48	6.16	No <sup>4</sup>	35.6	36.9
Elkton Cash Grocery, Elkton	---	---	---	---	---	---	---
4-12-4 (Muriate) "Davco Red Diamond"	4.20	3.92	11.90	4.28	---	34.4	35.0
Guenther Hardware Co., Owensboro	4.09	3.94	12.23	3.99	---	34.4	34.9
J. A. Bennett Hdw. Co., Taylorsville	4.36	4.17	12.85	4.35	---	34.4	36.5
Farmers Supply Store, Mt. Sterling	4.14	3.94	12.15	4.32	---	34.4	35.2
Robinson & Turley, Richmond	3.89	3.72	12.03	4.04	---	34.4	34.3
Cook & Moore, Tompkinsville	3.87	3.72	12.35	4.22	---	34.4	34.8
Henderson Feed & Commission Co., Henderson	3.97	3.82	12.38	4.07	---	34.4	34.9
Farmers Supply Co., Morganfield	4.24	4.09	12.05	4.45	---	34.4	35.4
C. T. Ashley and Co., Nicholasville	3.98	3.84	11.85	4.42	---	34.4	34.6
Peyton's Hatchery, Horse Cave	4.30	4.17	12.30	4.20	---	34.4	35.6
Garrard Mills, Lancaster	4.16	3.97	12.95	3.98	---	34.4	35.8
I. K. Miller & Son, Campbellsville	4.31	4.15	12.40	4.33	---	34.4	35.8
I. K. Miller & Son, Campbellsville	---	---	---	---	---	---	---
3-9-6 (Muriate) "Davco Red Diamond"	3.74	3.61	9.00	6.31	---	30.8	32.6
C. S. Brent Seed Co., Lexington	3.90	3.79	9.68	6.37	---	30.8	33.8
Calloway County Soil Improvement Association, Murray	3.22	3.12	9.03	6.50	---	30.8	31.8
Gentry McCauley, Versailles	3.37	3.29	9.68	5.82	---	30.8	32.2
Bell County Supply Co., Middlesboro	3.08	3.00	10.15	6.50	---	30.8	32.8
Cook and Moore, Tompkinsville	---	---	---	---	---	---	---

<sup>1</sup> Excess Muriate equivalent to 0.96 percent potash

<sup>2</sup> Excess Muriate equivalent to 0.67 percent potash

<sup>3</sup> Excess Muriate equivalent to 0.30 percent potash

<sup>4</sup> Excess Muriate equivalent to 0.25 percent potash

**ANALYSES OF INSPECTION SAMPLES OF MIXED FERTILIZERS, SUPERPHOSPHATE, AND FERTILIZER SALTS—Continued**

Name and Address of Manufacturer, Brand Name, Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
	Total	Water Soluble				Guar.	Found
<b>The Davison Chemical Corporation, Nashville, Tennessee—(Cont.)</b>							
3-9-6 (Muriate) "Davco Red Diamond" Willoughby Supply Co., Richmond	3.16	3.09	9.73	5.98	—	30.8	32.0
Stockton Brothers, Albany	3.11	3.00	9.55	5.91	—	30.8	31.6
Peyton's Hatchery, Horse Cave	3.26	3.15	9.28	5.74	—	30.8	31.4
Garrard Mills, Lancaster	3.29	3.19	9.23	6.05	—	30.8	31.7
I. K. Miller & Son, Campbellsville	3.05	2.94	9.35	5.77	—	30.8	31.1
Henry Durham, Greensburg	3.64	3.51	9.68	5.04	—	30.8	31.9
Gaylon James, Hazel	3.15	3.07	10.13	5.43	—	30.8	32.9
2-12-6 (Muriate) "Davco Red Diamond"							
Simpson County Seed Co-op., Franklin	2.91	2.80	11.17	5.77	—	32.4	33.0
Butterworth Seed Co., Mayfield	2.13	2.04	13.08	6.45	—	32.4	34.4
Willoughby Supply Co., Richmond	2.57	2.48	11.98	5.78	—	32.4	33.3
19% Superphosphate "Davco Red Diamond"							
Guenther Hardware Co., Owensboro	—	—	19.65	—	—	24.7	25.6
Farmers Supply Co., Morganfield	—	—	18.53	—	—	24.7	24.1
Garrard Mills, Lancaster	—	—	19.38	—	—	24.7	25.2
Graves County Soil Association, Mayfield	—	—	18.98	—	—	24.7	24.7
Bishop-Patterson and Gray Bros., Glasgow	—	—	18.53	—	—	24.7	24.1
18% Superphosphate "Davco Red Diamond"							
Henry Durham, Greensburg	—	—	19.30	—	—	23.4	25.1
32.50% Ammonium Nitrate							
Farmers Supply Store, Mt. Sterling	32.84	—	—	—	—	65.0	65.7
<b>Federal Chemical Co., Louisville, Kentucky.</b>							
6-8-6 (Muriate) Federal Asher Supply Co., Barbourville	5.67	5.49	8.00	5.71	—	35.6	34.7
Elliott & Witt, Irvine	5.67	5.53	7.63	5.98	—	35.6	34.5
Louisa Grocery, Louisa	5.92	5.77	8.00	6.19	—	35.6	35.6
Foster Fertilizer Co., Hopkinsville	5.43	5.21	8.15	5.65	—	34.3	34.3
Clinton Jones, Morehead	5.92	5.77	8.05	5.99	—	35.6	35.5
Ballard's Hardware Co., Wickliffe	5.66	5.54	7.90	6.78	—	35.6	35.6
Southern States Cooperative, Lebanon	6.03	5.85	7.98	6.46	—	35.6	35.8
Yount's Mill, Frankfort	5.90	5.77	7.70	6.36	—	35.6	35.7
Chas. Davis, Arlington	5.49	5.76	8.55	6.80	—	35.6	36.9
Farmers Supply Co., Henderson	5.92	5.29	8.30	5.66	—	35.6	34.6
Farmers Supply Co., Bedford	5.92	5.79	8.45	5.95	—	35.6	35.9
Farmers Supply Co., Pikeville	5.20	5.07	8.10	5.92	—	35.6	34.0
6-8-6 (Sulfate) Federal							
Galbraith and Son, Carlisle	6.16	5.96	8.00	6.15	Yes	35.6	36.1
Farmers Supply Co., Bedford	5.88	5.75	8.18	6.49	Yes	35.6	36.1
Clinton Farmers Supply Co., Albany	5.64	5.51	8.50	6.52	Yes	35.6	36.0

4-12-8 (Muriate) Federal Elliott and Witt, Irvine	4.16	4.01	11.43	8.57	38.4	38.6
Pat Farley Feed & Supply Store, Catlettsburg	4.16	3.98	11.65	8.15	38.4	38.5
C. H. Stephens, Russell	4.13	3.91	11.42	8.57	38.4	38.5
Dairyman's Feed & Supply Co., Mayfield	3.86	3.76	12.23	8.40	38.4	38.7
Montgomery Supply Co., Mt. Sterling	4.14	3.94	11.75	8.36	38.4	38.7
W. T. Scheffer, Wickliffe	3.73	3.60	12.00	8.88	38.4	38.6
Ross Feed Store, Murray	3.84	3.68	12.00	8.54	38.4	38.6
Ford Richardson and Sons, Mayfield	3.92	3.77	12.00	8.61	38.4	38.9
Chas. Davis, Arlington	3.55	3.43	12.43	8.61	38.4	38.6
4-12-4 (Muriate) Federal Elliott and Witt, Irvine	4.01	3.96	11.40	5.20	34.4	34.9
Ashland Hatchery, Ashland	4.20	4.03	11.67	4.42	34.4	34.8
Montgomery Supply Co., Mt. Sterling	4.14	3.97	11.18	4.33	34.4	34.0
Vine Street Feed Store, Lexington	3.93	3.69	11.85	4.50	34.4	34.6
Farmers Supply Co., Bedford	3.97	3.75	12.03	4.51	34.4	34.9
Farmers Supply Co., Pikeville	4.05	3.90	10.98	4.64	34.4	33.9
The May Grocery Co., West Liberty	4.01	3.77	12.90	4.45	34.4	34.9
3-9-6 (Muriate) Federal Asher Supply Co., Barbourville	2.81	2.68	8.80	5.87	30.8	30.1
Sandy Valley Grocery, Ashland	3.07	2.92	8.95	6.70	30.8	31.6
Pat Farley Feed & Supply Co., Catlettsburg	3.00	2.82	8.57	6.58	30.8	30.9
C. H. Stephens, Russell	3.01	2.84	8.90	6.32	30.8	31.0
Campbells Mill, Kevil	3.23	3.09	9.48	6.75	30.8	32.6
Ross Feed Co., Murray	3.07	2.94	9.43	5.94	30.8	31.4
Otis H. Stevens, Beaver Dam	3.03	2.89	8.93	6.47	30.8	31.3
Crawford-Ferguson Co., Benton	3.08	2.91	9.18	6.11	30.8	31.3
Farmers Supply Co., Bedford	3.07	2.86	9.38	5.93	30.8	31.3
Ross Feed Store, Murray	3.20	2.48	8.85	6.19	30.8	30.0
Faulkner's Supermarket, Pikeville	3.20	3.10	8.88	6.16	30.8	31.2
Hancock Feed Store, Middletown	3.48	3.32	8.95	6.78	30.8	32.5
2-12-6 (Muriate) Federal M. C. Roberts, S. Irvine	2.25	2.10	12.00	6.47	32.4	33.4
Edmonson County Cooperative, Brownsville	2.07	1.90	11.58	5.99	32.4	32.0
W. P. Ray & Sons, New Haven	2.13	1.96	11.55	5.98	32.4	32.1
Union Grocery Co., Morehead	1.93	1.81	12.10	6.42	32.4	32.8
Grayson County Supply Co., Leitchfield	2.28	2.07	11.53	5.86	32.4	32.3
Salt Lick Milling Co., Salt Lick	2.22	2.09	11.75	6.72	32.4	33.3
Jackson & Morgan, Whitley City	2.28	2.16	11.73	5.99	32.4	32.6
Asher Supply Co., Barbourville	2.31	2.14	11.10	6.16	32.4	32.1
0-14-7 (Muriate) Federal U. L. Rogers, Gradyville	16.23	13.90	7.64	29.8	48.0	30.3
16% Nitrate of Soda M. C. Roberts, S. Irvine	3.81	3.65	12.13	8.11	38.4	48.8
Hutson Chemical Company, Murray, Ky.						
4-12-8 (Muriate) Hutson's Manufacturer's warehouse	3.81	3.65	12.13	8.11	38.4	38.4

**ANALYSES OF INSPECTION SAMPLES OF MIXED FERTILIZERS, SUPERPHOSPHATE, AND FERTILIZER SALTS—Continued**

Name and Address of Manufacturer, Brand Name, Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
	Total	Water Soluble				Guar.	Found
<b>International Minerals &amp; Chemical Corporation, Cincinnati, Ohio.</b>							
8-8-8 (Muriate) Gulley and Pettit, Burlington	7.86	7.56	8.65	8.19	---	41.6	41.9
6-8-6 (Muriate 2, Sulfate 4) Farmers Supply Co., Lexington	6.11	6.03	8.20	6.23	Yes	35.6	36.3
L. C. McLoney & Sons, Cynthiana	5.94	5.84	8.65	6.13	Yes	35.6	36.4
J. T. Lawson Hdw. Co., Greenup	5.92	5.84	8.30	6.16	Yes	35.6	36.6
Boone Feed Store, Stanford	6.14	6.05	8.50	6.15	Yes	35.6	36.6
L. C. McLoney & Sons, Cynthiana	5.24	5.16	8.90	6.19	No <sup>1</sup>	35.6	35.4
5-10-10 (Muriate) Steve Rose Market, Campton	5.21	5.16	10.08	10.32	---	40.0	40.8
5-10-10 (Muriate 5, Sulfate 5) Steve Rose Market, Campton	5.08	5.00	10.20	9.93	Yes	40.0	40.3
Carroll County Farm Bureau, Carrollton	4.27	4.18	10.85	9.80	Yes	40.0	39.4
Galbraith & Son, Carlisle	4.54	4.48	10.20	10.05	Yes	40.0	41.4
J. T. Lawson Hdw. Co., Greenup	4.63	4.58	10.20	10.15	Yes	40.0	39.7
5-10-5 (Muriate) Harlan Fruit Co., Harlan	5.09	5.00	10.45	4.98	---	35.0	35.7
Champion Stores, Inc., Jenkins	5.03	4.94	10.35	5.03	---	35.0	35.5
4-12-8 (Muriate) Smith & Reynolds Co., Slaughters	4.00	3.90	12.10	6.37	---	38.4	36.9
Tony Bezold, Newport	3.83	3.75	12.00	8.36	---	38.4	38.4
4-12-8 (Sulfate) Galbraith & Son, Carlisle	3.95	3.78	12.20	8.47	Yes	38.4	39.0
Ralph Hovious, Hustonville	4.08	3.92	12.25	8.52	Yes	38.4	39.4
4-12-8 (Muriate 4, Sulfate 4) Springfield Feed & Grain Co., Springfield	4.25	4.02	12.48	8.32	Yes	38.4	39.8
Walker Greer, Camargo	4.01	3.87	12.20	8.33	Yes	38.4	39.0
Gulley & Pettit, Burlington	4.03	3.91	12.45	8.96	Yes	38.4	40.0
Owingsville Farmers Supply, Owingsville	4.19	4.09	12.15	8.52	Yes	38.4	39.5
Brent Norfleet, Nancy	4.07	3.96	12.50	8.50	Yes	38.4	39.6
L. T. Brown & Sons, Burgin	4.11	3.96	12.30	8.80	Yes	38.4	39.8
F. L. Barker, Trimble	3.73	3.57	12.35	8.75	Yes	38.4	39.0
4-12-0 Walker Greer, Camargo	3.93	3.82	12.08	---	---	28.4	28.4
L. T. Brown & Sons, Burgin	4.06	3.95	11.63	---	---	28.4	28.1
Bi-County Farm Bureau Co-op., Erlanger	3.99	3.88	11.80	---	---	28.4	28.1

<sup>1</sup> Excess Muriate equivalent to 0.18 percent potash

3-12-12 (Muriate)									
Cass & Cash, Brodhead	2.98	2.93	12.48	12.34	---	40.4	41.3	---	---
Bl-County Farm Bureau Co-op., Erlanger	3.06	3.00	11.80	12.64	---	40.4	40.9	---	---
J. T. Lawson Hdw. Co., Greenup	3.04	3.01	11.33	13.40	---	40.4	41.1	---	---
3-9-6 (Muriate)									
Carroll County Farm Bureau, Carrollton	3.40	3.28	9.20	6.04	---	30.8	31.9	---	---
Walker Greer, Camargo	3.06	2.96	9.00	5.28	---	30.8	30.2	---	---
H. D. McKeenan, Rockhold	3.07	2.99	9.00	6.52	---	30.8	31.5	---	---
Ice's Produce, Bardstown	3.14	3.07	8.30	5.80	---	30.8	30.0	---	---
Smith & Reynolds Co., Slaughterers	2.99	2.93	8.08	5.67	---	30.8	29.4	---	---
3-9-6 (Muriate 3, Sulfate 3)									
Cass and Cash, Brodhead	3.00	2.91	9.28	6.15	Yes	30.8	31.3	---	---
Bourbon Hardware Co., Paris	3.03	2.95	9.00	6.11	Yes	30.8	31.0	---	---
Maze & Rogers, Owingsville	3.00	2.96	9.28	6.03	Yes	30.8	31.2	---	---
L. C. McLoney & Sons, Cynthiana	3.09	3.02	9.08	6.44	Yes	30.8	31.5	---	---
Farmers Supply Co., Lexington	3.02	2.95	9.33	6.23	Yes	30.8	31.5	---	---
Tony Bezold, Newport	3.03	3.00	9.05	6.33	Yes	30.8	31.4	---	---
Willoughby Supply Co., Richmond	3.01	2.92	9.00	6.24	Yes	30.8	31.1	---	---
Farmers Feed & Supply Co., London	2.98	2.89	9.40	6.21	Yes	30.8	31.5	---	---
F. L. Barker, Trimble	2.99	2.94	9.05	6.08	Yes	30.8	30.9	---	---
Ruckhorn Coal Co., Campbellsville	3.06	3.01	9.20	6.44	Yes	30.8	31.6	---	---
Ralph Hovious, Hustonville	3.01	2.98	9.05	6.36	Yes	30.8	31.2	---	---
2-12-6 (Muriate)									
Cass & Cash, Brodhead	1.98	1.88	12.63	6.48	---	32.4	33.6	---	---
Farmers Mill, Clay	1.97	1.77	13.83	5.51	---	32.4	34.1	---	---
O. J. Carmack & Son, Alexandria	2.26	2.19	12.40	6.68	---	32.4	34.1	---	---
Ice's Produce, Bardstown	2.34	2.19	12.93	5.51	---	32.4	33.7	---	---
Stout Feed Store, Mt. Washington	2.34	2.18	11.68	6.27	---	32.4	33.0	---	---
Ralph Hovious, Hustonville	1.98	1.92	12.43	6.94	---	32.4	33.8	---	---
Smith & Reynolds Co., Slaughterers	2.18	2.06	11.33	5.92	---	32.4	33.9	---	---
Bale Hardware & Impl. Co., Horse Cave	2.11	1.96	13.25	6.04	---	32.4	34.2	---	---
W. S. Allen, Liberty	1.97	1.88	12.60	6.39	---	32.4	33.5	---	---
0-14-7 (Muriate)									
Cass & Cash, Brodhead	---	---	14.40	7.54	---	29.8	30.8	---	---
Walker Greer, Camargo	---	---	14.35	7.03	---	29.8	30.3	---	---
20% Superphosphate									
Tunks & Isenberger, Rocky Hill	---	---	20.80	---	---	26.0	27.0	---	---
Jack Sherley Hdw. Co., Edmonton	---	---	20.55	---	---	26.0	26.7	---	---
Y. B. Nuckols, Elkton	---	---	19.98	---	---	26.0	26.0	---	---
J. L. Wilson Gen. Mdse. Co., Canmer	---	---	21.20	---	---	26.0	27.6	---	---
16% Nitrate of Soda									
Farmers Supply Co., Lexington	16.28	---	---	---	---	48.0	48.8	---	---
33.50% Canadian Ammonium Nitrate									
Farmers Feed & Supply Co., London	33.68	---	---	---	---	67.0	67.4	---	---
Walker Greer, Camargo	33.84	---	---	---	---	67.0	67.7	---	---
Gulley & Pettit, Burlington	33.76	---	---	---	---	67.0	67.5	---	---

ANALYSES OF INSPECTION SAMPLES OF MIXED FERTILIZERS, SUPERPHOSPHATE, AND FERTILIZER SALTS—Continued

Name and Address of Manufacturer, Brand Name, Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
	Total	Water Soluble				Guar.	Found
<b>Kentucky Fertilizer Works, Winchester, Ky.</b>							
6-8-6 (Muriate) "P.P.F." Manufacturer's warehouse	6.00	5.90	7.98	6.00	---	35.6	35.6
6-8-6 (Sulfate) "P.P.F." Manufacturer's warehouse	5.85	5.72	8.68	6.60	Yes	35.6	36.7
3-9-6 (Muriate) "P.P.F." Manufacturer's warehouse	3.19	3.11	9.25	5.98	---	30.8	31.5
Manufacturer's warehouse	2.85	2.80	9.10	6.00	---	30.8	30.6
3-9-6 (Sulfate) "P.P.F." Richardson & Stewart, Mt. Sterling	2.56	2.46	8.50	5.69	Yes	30.8	29.0
16% Nitrate of Soda "P.P.F." W. H. Brock & Co., Winchester	16.08	---	---	---	---	48.0	48.2
<b>Knoxville Fertilizer Co., Knoxville and Nashville, Tennessee.</b>							
4-12-4 (Muriate) Parker S. Cooper, Monticello	4.03	3.91	12.60	4.33	---	34.4	35.5
C. M. Langdon, Science Hill	3.97	3.80	12.50	4.54	---	34.4	35.5
H. B. McClary, Auburn	3.93	3.79	12.00	4.77	---	34.4	35.0
W. H. Brock & Co., Winchester	3.88	3.68	12.63	4.50	---	34.4	35.4
Grays Hardware Co., Grays	3.53	3.39	12.65	4.17	---	34.4	34.4
Kenneth Cundiff, Columbia	3.84	3.68	12.20	4.24	---	34.4	34.6
Parker S. Cooper, Monticello	4.16	4.06	12.65	4.47	---	34.4	35.7
Allen County Mill, Scottsville	4.17	3.93	9.48	4.24	---	34.4	32.2
Ellis Brothers, Glasgow	3.81	3.67	12.10	4.50	---	34.4	34.6
W. C. Turner, Greensburg	3.65	3.49	12.60	4.46	---	34.4	34.9
4-12-0 Knox Pulverized McCauley Brothers Seed Co., Versailles	3.53	3.35	12.45	---	---	28.4	28.0
3-12-4 (Muriate) "Special" G. H. Bowles & Son, Glasgow	3.17	2.95	12.63	3.83	---	32.4	33.3
3-9-6 (Muriate) Farmers Feed & Supply Co., London	2.31	2.22	11.53	5.36	---	30.8	31.8
Parker S. Cooper, Monticello	3.09	3.00	10.18	6.31	---	30.8	32.7
C. M. Langdon, Science Hill	2.95	2.85	10.55	6.01	---	30.8	32.6
Denton Mercantile Co., Hillsboro	3.08	2.90	8.75	6.05	---	30.8	30.7
W. H. Brock and Co., Winchester	3.02	2.89	9.80	6.52	---	30.8	32.3
Fayette Seed Co., Lexington	3.09	3.00	9.95	7.06	---	30.8	33.2
G. H. Bowles & Son, Glasgow	3.09	2.93	9.50	6.36	---	30.8	31.9
McCauley Brothers Seed Co., Versailles	3.06	2.96	9.80	6.35	---	30.8	32.2
Scarbough & Taylor, Hazel	2.04	1.95	11.60	6.24	---	30.8	32.2
Jack Sherley Hardware Co., Edmonton	3.02	2.87	9.18	6.21	---	30.8	31.3

3-9-6 (Muriate 4, Sulfate 2) Farmers Feed & Supply Co., London	3.01	2.74	10.03	6.05	Yes	30.8	32.1
C. M. Langdon, Science Hill	3.09	2.86	9.85	6.05	Yes	30.8	32.1
Parker S. Cooper, Monticello	2.97	2.82	9.70	6.18	Yes	30.8	32.0
Barnett & Sullivan, Harrodsburg	3.07	2.70	9.75	6.37	Yes	30.8	32.0
W. H. Brock and Co., Maysville	3.13	2.84	9.65	6.55	Yes	30.8	32.3
Ace Eubank, Mt. Sterling	3.11	2.89	9.70	6.52	Yes	30.8	32.4
L. C. McLoney & Sons, Cynthiana	3.15	2.94	9.85	7.22	Yes	30.8	33.3
Carters Cash Market, Edmonton	3.08	2.83	8.95	6.52	Yes	30.8	31.5
G. H. Bowles & Son, Glasgow	3.03	2.74	8.95	6.70	Yes	30.8	31.6
Curtis & McComas, Burkesville	2.85	2.69	8.45	6.40	No <sup>1</sup>	30.8	31.8
Fox Hardware Co., Madisonville	2.85	2.50	8.93	6.85	Yes	30.8	31.3
0-14-4 (Muriate) "Basic" Parker S. Cooper, Monticello	---	---	13.95	4.59	---	26.8	27.3
Elkton Cash Grocery, Elkton	---	---	13.85	4.39	---	26.8	27.0
L. C. McLoney & Sons, Cynthiana	---	---	14.78	4.36	---	26.8	28.1
Fox Hardware Co., Madisonville	---	---	14.25	4.66	---	26.8	27.8
G. H. Bowles & Son, Glasgow	---	---	14.05	4.74	---	26.8	27.6
Hollingsworth & Chappell, Tompkinsville	---	---	13.85	4.58	---	26.8	27.2
<b>Lion Oil Company, Eldorado, Arkansas.</b>							
32-50% Ammonium Nitrate Eldred Hardware Co., Princeton	33.16	---	---	---	---	65.0	66.3
<b>Louisville Fertilizer Company, Div. Armour &amp; Co., Cincinnati, O., Jeffersonville, Ind., Nashville, Tenn.</b>							
6-8-6 (Sulfate) Yopp Seed Company, Paducah	6.52	6.05	7.78	6.04	---	35.5	36.4
20% Superphosphate Rice Brothers, Rice Station	---	---	20.50	---	---	26.0	26.7
<b>Morris Fertilizer Co., Div. Armour &amp; Co., Cincinnati, O., Jeffersonville, Ind., Nashville, Tenn.</b>							
6-8-6 (Sulfate) Young Lumber Co., Beaver Dam	6.50	6.07	7.98	5.87	Yes	35.5	36.5
<b>National Chemical Co., Div. North American Fertilizer Co., Louisville, Kentucky.</b>							
6-8-6 (Muriate) "Big Pay Brand" Wes Chenault, Versailles	5.99	5.90	8.00	5.49	---	35.6	35.1
3-10-3 (Muriate) "Big Pay" Lindsey & Reed, Brownsville	3.00	2.91	9.83	3.14	---	29.0	28.9
3-9-6 (Muriate) "Big Pay" Farmers Cooperative Store, Owensboro	3.06	2.91	8.95	6.64	---	30.8	31.5
Lindsey & Reed, Brownsville	2.38	1.96	5.70	6.36	---	30.8	26.0

<sup>1</sup> Excess Muriate equivalent to 0.42 percent potash

ANALYSES OF INSPECTION SAMPLES OF MIXED FERTILIZERS, SUPERPHOSPHATE, AND FERTILIZER SALTS—Continued

Name and Address of Manufacturer, Brand Name, Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met.	Index of Relative Value	
	Total	Water Soluble				Guar.	Found
<b>North American Fertilizer Co., Louisville, Ky.</b>							
6-8-6 (Muriate) N. Am.	6.07	5.86	8.58	5.90	—	35.6	36.3
M. C. Roberts, S. Irvine	5.69	5.51	8.10	6.22	—	35.6	35.3
Jim Pyles, Junction City	5.73	5.49	8.35	6.36	—	35.6	35.5
Knight Brothers, Pleasureville	5.83	5.58	8.05	6.45	—	35.6	35.6
Spears-Kiser Co., Paris	5.98	5.77	8.40	6.63	—	35.6	36.4
Lusby Feed Store, Owenton					Yes		36.9
6-8-6 (Muriate 3, Sulfate 3) N. Am.							
Woodford Feed Co., Versailles							
4-12-4 (Muriate) N. Am.	4.11	3.94	12.03	4.36	—	34.4	35.0
Denton Mercantile Co., Hillsboro	3.79	3.64	11.70	4.50	—	34.4	34.1
Mosses Supply Co., Richmond					—		
4-12-0 N. Am.	4.00	3.87	10.38	—	—	28.4	26.5
Gentry McCauley, Versailles					—		
3-10-3 (Muriate) N. Am.	3.12	2.90	10.60	3.11	—	29.0	30.1
D. H. Tate, Monticello	3.17	2.95	9.50	3.49	—	29.0	29.2
Farmers Cooperative Store, Owensboro	3.23	3.04	9.25	3.05	—	29.0	28.6
Jim Pyles, Junction City	3.10	3.02	9.58	3.37	—	29.0	29.1
Cofor Service Station, N. Pleasureville	3.29	3.17	10.23	3.34	—	29.0	30.2
J. M. Clark & Sons, Calhoun	2.99	2.92	10.03	3.13	—	29.0	29.2
Thompson & Miller, Edmonon	3.08	3.01	9.93	3.24	—	29.0	29.3
Knight Brothers, Pleasureville					—		
3-9-6 (Muriate) N. Am.	3.06	2.91	9.25	8.00	—	30.8	33.2
Jim Pyles, Junction City	2.84	1.66	10.25	6.44	—	30.8	32.4
Hardware Supply Co., N. Middletown	3.10	2.94	9.10	6.24	—	30.8	31.4
M. C. Roberts, S. Irvine	2.84	2.68	9.23	6.21	—	30.8	31.0
Renfro Supply Co., Williamsburg	3.00	2.80	9.18	6.24	—	30.8	31.3
The Watson Coal & Feed Co., Princeton					—		
<b>Price Chemical Company, Louisville, Ky.</b>							
6-8-6 (Muriate) Price	6.21	5.99	8.80	6.52	—	35.6	37.5
G. H. Nunnally & Co., Georgetown	6.22	6.02	8.18	7.12	—	35.6	37.4
St. Matthews Produce Exchange, St. Matthews					—		
6-8-6 (Muriate 3, Sulfate 3) Price	6.29	6.05	8.10	6.29	Yes	35.6	36.6
Sherman Benge, London	5.64	5.41	8.73	6.16	Yes	35.6	35.9
Hollins & Iuler, S. Union	6.15	5.94	8.73	6.21	Yes	35.6	37.0
Fox Brothers, Winchester	6.25	6.02	8.15	7.37	Yes	35.6	37.7
Perryville Ice & Produce Co., Perryville	6.23	5.98	8.03	6.39	Yes	35.6	36.5
B. E. Houchins, Glasgow					—		
4-12-4 (Muriate) Price	3.94	2.67	11.90	4.87	—	34.4	35.0
Sherman Benge, London	4.06	3.79	11.57	4.99	—	34.4	35.0
Guenther Hardware Co., Owensboro	4.15	3.87	11.60	5.05	—	34.4	35.3
Monarch Milling Co., Mt. Sterling	4.08	3.87	11.73	6.05	—	34.4	36.3
Perryville Ice & Produce Co., Perryville	3.97	3.74	12.23	5.07	—	34.4	36.7
R. L. Hazel & Son, Hodgenville					—		



4-12-0 Price								
Monarch Milling Co., Mt. Sterling	4.27	3.95	12.35	—	—	—	28.4	29.4
Fox Brothers, Winchester	4.52	4.18	12.43	—	—	—	28.4	30.0
Walters & Thompson, Shelbyville	4.69	4.37	12.10	—	—	—	28.4	29.9
A. C. Roberts, Scottsville	4.07	3.76	12.18	—	—	—	28.4	28.8
3-10-3 (Muriate) Price								
Sherman Bengel, London	3.29	3.06	10.70	—	3.71	—	29.0	31.1
Foster Fertilizer Co., Hopkinsville	3.35	3.12	10.70	—	3.72	—	29.0	31.3
3-9-6 (Muriate 3, Sulfate 3) Price								
J. C. Hinton, Bowling Green	3.53	3.28	8.15	Yes	6.60	—	30.8	31.4
E. B. Houchins, Glasgow	3.83	3.57	8.60	Yes	6.22	—	30.8	32.2
<b>Balston Purina Co., St. Louis, Mo.</b>								
5-10-5 (Muriate 2.50, Sulfate 2.50) Purina	5.01	4.87	10.13	Yes	5.03	—	35.0	35.2
M. G. Williams Implement Co., Hopkinsville	5.10	4.97	11.20	Yes	5.13	—	35.0	36.8
Prince Hardware Co., Eddyville	5.12	4.98	10.80	Yes	5.16	—	35.0	36.4
Farmers Supply Co., Morganfield								
<b>Spencer Chemical Co., Pittsburg, Kans.</b>								
32.50% Ammonium Nitrate Fertilizer	33.52	—	—	—	—	—	65.0	67.0
Caulk Hardware Co., Campbellsville								
<b>Swift &amp; Company Plant Food Division, National Stock Yards, Ill.</b>								
4-12-4 (Muriate) Red Steer								
Millersburg Coal & Lumber Co., Millersburg	3.76	3.66	12.00	—	4.14	—	34.4	34.1
Farmers Feed & Supply Co., Arlington	3.77	3.69	12.18	—	4.38	—	34.4	34.5
J. W. Settle Feed Store, Frankfort	3.95	3.86	12.13	—	3.97	—	34.4	34.4
Knight Brothers, Pleasureville	3.81	3.70	11.55	—	4.11	—	34.4	33.6
Spears-Kiser Co., Paris	3.70	3.61	11.93	—	4.27	—	34.4	34.0
Morganfield Hardware Co., Morganfield	3.74	3.55	12.93	—	4.38	—	34.4	35.4
4-12-4 (Muriate) "Vigoro Brand"								
The Mitchell Co., Corbin	3.96	3.85	12.65	—	4.48	—	34.4	35.6
Farmers Supply Co., Harrodsburg	4.11	3.96	12.25	—	4.42	—	34.4	35.3
Ashland Hatchery, Ashland	3.96	3.79	12.58	—	4.48	—	34.4	35.5
Allen & Jenkins, Bowling Green	4.12	3.92	11.85	—	4.58	—	34.4	35.0
Monarch Supply Store, Morehead	3.88	3.75	12.68	—	4.38	—	34.4	35.4
M. G. Williams Implement Co., Hopkinsville	3.96	3.80	12.45	—	4.35	—	34.4	35.2
Harris Feed Co., Franklin	4.05	3.89	12.48	—	4.27	—	34.4	35.4
Corbett Hardware Co., Elizabethtown	3.75	3.50	12.73	—	4.58	—	34.4	35.4
Harold Bailey, Corinth	4.10	3.91	12.48	—	4.38	—	34.4	35.6
L. N. Kratzer, Mt. Sterling	3.99	3.84	12.40	—	4.33	—	34.4	35.2
Spears-Kiser Co., Paris	3.97	3.84	12.53	—	4.31	—	34.4	35.3
Stanley Penn, Lexington	3.94	3.81	12.43	—	4.35	—	34.4	35.2
3-9-6 (Muriate) "Red Steer"								
Spears-Kiser Co., Paris	2.99	2.92	9.75	—	5.95	—	30.8	31.6
2-12-6 (Muriate) "Red Steer"								
Henderson Feed & Commission Co., Henderson	2.16	2.01	12.15	—	6.01	—	32.4	32.9
Farmers Feed & Supply Co., Arlington	1.98	1.91	12.50	—	5.90	—	32.4	32.9
Morganfield Hdw. Co., Morganfield	2.19	2.07	12.38	—	5.48	—	32.4	32.7

ANALYSES OF INSPECTION SAMPLES OF MIXED FERTILIZERS, SUPERPHOSPHATE, AND FERTILIZER SALTS—Continued

Name and Address of Manufacturer, Brand Name, Guaranty, and From Whom Obtained	Nitrogen		Phos- phoric Acid Available	Potash	Sulfate Guar. Met.	Index of Relative Value	
	Total	Water Soluble				Guar.	Found
<b>Tennessee Chemical Co., Div. Armour and Co., Cincinnati, O., Jeffersonville, Ind., Nashville, Tenn.</b>							
6-8-6 (Muriate) "Ox" V. B. Nuckols, Elkton Sewell & Co., Waterview	5.90 5.95	5.65 5.70	8.40 8.38	6.15 6.08	---	35.6 35.6	36.0 36.0
3-9-6 (Muriate) "Ox" Henderson Feed & Commission Co., Henderson Sewell & Co., Waterview	3.15 3.85	2.99 3.45	8.95 8.95	6.27 5.87	---	30.8 30.8	31.3 32.3
3-9-6 (Sulfate) "Ox" Farmers Exchange, Burkesville H. T. Adcock General Mdse., Nortonville D. H. Tate, Monticello Farmers Exchange, Burkesville	3.21 2.96 2.78 2.98	2.84 2.77 2.55 2.61	9.35 9.63 9.20 9.40	5.99 5.95 6.39 5.71	Yes No <sup>1</sup> Yes Yes	30.8 30.8 30.8 30.8	31.6 31.4 31.0 31.0
2-12-6 (Muriate) "Ox" V. B. Nuckols, Elkton Sewell & Co., Waterview H. T. Adcock Gen. Mdse., Nortonville Henderson Feed & Com. Co., Henderson	1.88 2.03 2.10 2.18	1.65 1.80 1.83 1.93	12.10 12.18 12.00 12.38	5.90 6.06 5.88 5.82	---	32.4 32.4 32.4 32.4	32.2 32.7 32.5 33.0
0-14-4 (Muriate) "Ox" H. B. McClary, Auburn	---	---	14.05	4.35	---	26.8	27.2
19% Superphosphate "Ox" Farmers Exchange, Burkesville	---	---	18.55	---	---	24.7	24.1
<b>Tennessee Corporation, New Albany, Indiana.</b>							
3-9-6 (Muriate 3, Sulfate 3) Walters & Thompson, Shelbyville Gentry McCauley, Versailles	3.08 2.95	2.93 2.81	9.65 9.80	6.25 6.50	Yes Yes	30.8 30.8	32.0 32.2
2-12-6 (Muriate) Farmers Supply Co., Bedford Denton Mercantile Co., Hillsboro F. J. Snyder Impl. Co., Elizabethtown	1.99 1.96 1.96	1.91 1.88 1.81	12.50 12.30 12.15	6.05 6.15 6.21	---	32.4 32.4 32.4	33.0 32.8 32.7
<b>Valley Counties of Kentucky Cooperative, Murray, Ky.</b>							
45% Superphosphate Southern States Cooperative, Campbellsville	---	---	47.35	---	---	58.5	61.6

<sup>1</sup> Excess Muriate equivalent to 0.24 percent potash

Virginia-Carolina Chemical Corporation,  
Cincinnati, O., Mt. Pleasant, Tenn.

8-8-8 (Muriate) V-C Cottingham Grain Co., Henderson	8.32	8.17	8.10	7.95	—	41.6	42.3
6-8-6 (Muriate) V-C Grayson Milling Co., Grayson	5.86	5.69	9.00	6.77	—	35.6	37.3
4-12-8 (Muriate) V-C Miss Agnes Davis, Russellville J. W. Purkey, Berea	3.65 4.01	3.47 3.86	12.98 12.15	7.01 8.57	—	38.4 38.4	37.9 39.2
4-12-8 (Muriate 4, Sulfate 4) V-C J. H. Greene, Lexington R. D. Reynolds, Cave City Shelby Feed & Seed Co., Shelbyville	4.10 3.99 4.15	3.96 3.84 4.02	12.68 11.73 12.00	8.16 7.68 8.38	Yes Yes Yes	38.4 38.4 38.4	39.6 37.7 39.1
4-12-4 (Muriate) V-C Third Street Feed Store, Lexington	4.04	3.78	12.28	4.61	—	34.4	35.4
4-12-0 V-C Grayson Milling Co., Grayson Adams & Moore, Cynthiaana Shelby Feed & Seed Co., Shelbyville J. W. Purkey, Berea	4.18 4.08 4.03 4.15	3.78 3.65 3.61 3.78	12.00 11.98 11.40 11.60	— — — —	— — — —	28.4 28.4 28.4 28.4	28.8 28.5 27.7 28.2
3-9-6 (Muriate) V-C Grayson Milling Co., Grayson Adams & Moore, Cynthiaana Bell County Supply Co., Middlesboro Wood Mercantile Co., Smiths Grove W. R. Catron & Son, Campton Mountain Wholesale Grocery, Lothair Knox County Supply Co., Barbourville	3.17 3.03 3.09 3.03 3.05 2.94 2.90	3.00 2.87 2.96 2.86 2.90 2.76 2.74	9.93 9.80 9.13 9.43 9.60 9.40 9.23	6.45 6.15 5.90 6.18 6.16 5.96 6.26	— — — — — — —	30.8 30.8 30.8 30.8 30.8 30.8 30.8	32.7 32.0 31.0 31.6 31.8 31.1 31.1
3-9-6 (Muriate 3, Sulfate 3) V-C Mountain Wholesale Grocery, Lothair J. W. Purkey, Berea	3.00 2.92	2.82 2.76	9.40 9.15	6.06 6.18	No <sup>1</sup> Yes	30.8 30.8	31.3 31.0
2-12-6 (Muriate V-C R. B. McCollum, Eubank Knox County Supply Co., Barbourville Farmers Supply Co., Morganfield	2.04 2.07 1.95	1.86 1.79 1.76	12.13 11.95 12.00	6.25 5.98 6.65	— — —	32.4 32.4 32.4	32.9 32.5 33.0
20% Superphosphate V-C Hardin County Milling Co., Elizabethtown Knox County Supply Co., Barbourville Knox County Supply Co., Barbourville	— — —	— — —	20.98 20.15 20.73	— — —	— — —	26.0 26.0 26.0	27.3 26.2 27.0
16% Nitrate of Soda V-C Bell County Supply Co., Middlesboro	16.20	—	—	—	—	48.0	48.6
33.50% Ammonium Nitrate V-C J. W. Purkey, Berea	33.88	—	—	—	—	67.0	67.8

<sup>1</sup> All Potash from Muriate

TABLE 2—ANALYSES OF INSPECTION SAMPLES OF ROCK AND WASTE POND PHOSPHATES

Name and Address of Manufacturer, Brand Name, Guaranty, and From Whom Obtained	Phosphoric Acid Total		Index of Relative Value	
	Guaranty	Found	Guaranty	Found
<b>Euhm Phosphate &amp; Chemical Co., Mt. Pleasant, Tenn.</b>				
Red Seal Brand Euhm's Phosphate Rock	30.00	30.30	15.0	15.2
Lemons Brothers, Cynthiana	30.00	30.00	15.0	15.0
C. L. Conley, Greensburg	30.00	29.20	15.0	14.6
Farmers Supply Co., Henderson				
<b>Thompson Sales Co., Montgomery, Alabama.</b>				
Florida Waste Pond Rock Phosphate	18.00	20.75	9.0	10.3
Farmers Cooperative Store, Owensboro	18.00	20.20	9.0	10.1
G. H. Bowles & Son, Glasgow				

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