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ANALYSES OF OFFICIAL FERTILIZER SAMPLES

by the

FEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT STATION

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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.)

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
The American Agricultural Chemical Company, Cincinnati, Ohio.								
6-10-4 (Muriate)								
1837	J. H. Fedders & Son, Covington	5.76	5.63	10.68	4.10	---	36.0	36.4
6-8-6 (Muriate)								
1045	Rogers Brothers, Fairfield	5.68	5.56	8.13	6.01	---	35.6	35.1
1241	Triplett's Store, Corbin	5.71	5.71	8.23	5.85	---	35.6	35.2
1242	Rowland's Feed and Hdw. Store, Owensboro	5.73	5.65	8.43	5.83	---	35.6	35.4
1584	Ravenna Grocery, Ravenna	5.62	5.54	8.60	6.03	---	35.6	35.6
1585	Henderson & Hardy, Shepherdsville	5.75	5.70	8.50	5.77	---	35.6	35.5
6-8-6 (Muriate 3, Sulfate 3)								
1046	J. H. Fedders & Son, Covington	5.66	5.62	8.55	6.01	Yes	35.6	35.6
1047	Paintsville Grocery, Paintsville	5.69	5.60	8.60	6.01	Yes	35.6	35.7
1048	J.E.M. Milling Co., Frankfort	5.95	5.79	7.98	7.38	Yes	35.6	36.9
1049	Woodson Lewis, Greensburg	5.78	5.67	8.48	6.02	Yes	35.6	35.8
1243	Lebanon Carriage & Implement Co., Lebanon	5.83	5.75	8.40	5.98	Yes	35.6	35.7
1244	L. C. McLoney & Sons, Cynthiana	5.76	5.64	8.40	5.88	Yes	35.6	35.5
1586	Earl Fetterly, Falcon	5.86	5.74	8.33	5.99	Yes	35.6	35.7
1587	Paintsville Grocery, Paintsville	5.90	5.80	8.33	5.79	Yes	35.6	35.6
1838	J.E.M. Milling Co., Frankfort	5.89	5.75	8.55	6.13	Yes	35.6	36.2
4-12-8 (Muriate)								
1245	Ross Feed Company, Murray	4.11	4.03	12.33	8.02	---	38.4	39.0
1588	L. F. Wellman, Louisa	3.82	3.66	12.28	7.80	---	38.4	38.2
4-12-8 (Muriate 4, Sulfate 4)								
1589	Bedford & Tuttle, Winchester	3.92	3.77	12.33	7.79	Yes	38.4	38.4
1590	Henderson & Hardy, Shepherdsville	4.02	3.86	11.98	8.15	Yes	38.4	38.6
1591	John A. Sheehan, Falmouth	3.96	3.81	12.23	8.38	Yes	38.4	39.0
1839	McClain & Brown, Taylorsville	3.95	3.78	12.50	8.33	Yes	38.4	39.2
4-12-4 (Muriate)								
1050	Monarch Milling Co., Mt. Sterling	3.82	3.74	12.00	5.24	---	34.4	35.3
1592	John Friedman, Independence	3.88	3.78	12.65	4.21	---	34.4	35.2
1593	Corbett Hdw. Co., Elizabethtown	3.94	3.78	12.20	4.15	---	34.4	34.7
4-12-0								
1051	Walton & Readnour, Walton	4.02	3.87	12.00	---	---	28.4	28.4
1052	J.E.M. Milling Co., Frankfort	3.90	3.67	11.33	---	---	28.4	27.4
1053	Bedford & Tuttle, Winchester	4.11	3.86	11.23	---	---	28.4	27.7
1054	Paintsville Grocery, Paintsville	4.04	3.76	10.80	---	---	28.4	27.0
1246	Anderson Ice Co., Lawrenceburg	3.89	3.72	12.13	---	---	28.4	28.3
1247	J. W. Davidson, Science Hill	3.96	3.63	10.78	---	---	28.4	26.9
1248	Rowland's Feed & Hdw. Store, Owensboro	4.02	3.75	11.68	---	---	28.4	28.1
1249	L. C. McLoney & Sons, Cynthiana	3.98	3.69	11.23	---	---	28.4	27.4
3-9-6 (Muriate)								
1055	J. H. McClure & Son, Springfield	2.99	2.91	8.85	6.05	---	30.8	30.7
1056	Watson Coal & Feed Co., Princeton	2.93	2.87	9.05	6.13	---	30.8	30.9
1057	Paintsville Grocery, Paintsville	2.97	2.86	8.80	6.01	---	30.8	30.5
1250	Middlesboro Wholesale Grocery, Middlesboro	2.71	2.68	9.78	5.44	---	30.8	30.6
1251	Walters & Thompson, Shelbyville	2.91	2.83	9.20	5.85	---	30.8	30.7
1252	Booneville Wholesale Co., Booneville	2.93	2.85	9.35	5.69	---	30.8	30.8
1253	Norris Hdw. & Seed Co., Henderson	2.90	2.82	8.93	7.14	---	30.8	31.7
1594	John A. Sheehan, Falmouth	2.85	2.76	8.73	5.99	---	30.8	30.2
1595	Miller & Cook, Magnolia	2.94	2.87	9.23	5.82	---	30.8	30.8
1596	Hayes Hardware Store, Dawson Springs	2.93	2.85	8.80	5.82	---	30.8	30.2
1840	Hayes Hardware Store, Dawson Springs	3.00	2.92	9.25	5.83	---	30.8	30.9
2-12-6 (Muriate)								
1058	Bale Hdw. & Impl. Co., Horse Cave	1.97	1.92	12.03	6.38	---	32.4	32.8
1059	Lebanon Carriage & Impl. Co., Lebanon	1.98	1.94	11.98	6.98	---	32.4	33.3
1254	Triplett's Store, Corbin	2.00	1.93	12.10	6.60	---	32.4	33.1
1255	Kidd Brothers, Barbourville	2.00	1.91	12.10	7.01	---	32.4	33.5
1597	Morganfield Hdw. Co., Morganfield	2.05	2.98	12.18	6.33	---	32.4	33.1
1598	L. F. Wellman, Louisa	1.99	1.94	12.40	6.11	---	32.4	33.0
1599	Hayes Hdw. Store, Dawson Springs	1.95	1.87	11.68	6.24	---	32.4	32.2
1841	Lebanon Carriage & Impl. Co., Lebanon	2.02	1.96	12.30	6.85	---	32.4	33.7

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
The American Agricultural Chemical Company—Cont.								
0-14-7 (Muriate)								
1600	J. H. Fedders and Son, Covington			14.53	6.25		29.8	29.7
Superphosphate 18%								
1060	A. T. Hayes and Son, Glendale			18.58			23.4	24.2
1061	Chas. Cornwell, Rothwell			18.28			23.4	23.8
1062	Rogers Brothers, Fairfield			19.00			23.4	24.7
1063	Geo. W. Hill, Covington			18.60			23.4	24.2
1256	Ross Feed Company, Murray			18.50			23.4	24.1
1257	Carroll County Farm Bureau, Carrollton			18.65			23.4	24.3
1258	Kidd Brothers, Barbourville			18.25			23.4	23.7
1601	Ravenna Grocery, Ravenna			19.35			23.4	25.2
1602	Hayes Hardware Store, Dawson Springs			19.23			23.4	25.0
1842	Kentucky Training Home, Frankfort			18.53			23.4	24.1
1843	Morganfield Hdw. Co., Morganfield			19.10			23.4	24.8
Nitrate of Soda 16%								
1064	Paintsville Grocery, Paintsville	16.12					48.0	48.4
American Cyanamid Company, New York 20, N. Y.								
Ammonium Nitrate 33.50% "Aeroprills"								
1066	Monarch Milling Co., Mt. Sterling	33.72					67.0	67.4
Armour Fertilizer Works, Cincinnati, Ohio, Jeffersonville, Indiana, Nashville, Tenn.								
6-8-6 (Sulfate)								
1067	Big Four Feed & Impl. Co., Scottsville	5.92	5.65	8.15	6.01	Yes	35.6	35.6
1068	Farmers Gin Co., Clinton	5.96	5.51	7.88	6.42	Yes	35.6	35.8
1069	Sphar & Co., Winchester	5.70	5.54	8.63	6.08	No ¹	35.6	35.8
6-8-6 (Sulfate) Armour's								
1070	Upton Hardware Co., Upton	6.04	5.50	8.50	6.13	Yes	35.6	36.4
1260	Willoughby Supply Co., Richmond	5.93	5.51	8.80	6.07	Yes	35.6	36.5
1261	Fayette Coal & Feed Co., Lexington	5.97	5.78	8.45	5.85	Yes	35.6	35.9
1262	Brent & Company, Paris	5.97	5.66	8.63	6.14	Yes	35.6	36.4
1263	Ashland Hatchery, Ashland	5.91	5.68	8.63	6.00	Yes	35.6	36.2
5-10-5 (Muriate) "Velvetgreen Brand"								
1071	Humphrey Bros., Bloomfield	5.18	4.90	10.58	5.32		35.0	36.4
1072	Yopp Seed Co., Paducah	5.42	5.08	10.18	5.49		35.0	36.6
4-12-4 (Muriate) "Big Crop Brand"								
1073	Leslie County Grocery, Hyden	4.07	3.90	11.95	4.55		34.4	35.0
1264	Powell, Hackney Grocery, Jackson	3.94	3.64	12.23	4.42		34.4	35.0
1265	U. L. Rogers, Columbia	4.03	3.74	12.13	4.47		34.4	35.1
4-12-4 (Muriate) Old Black Joe								
1074	Forbes Hdw. Co., Hopkinsville	3.74	3.18	12.10	4.19		34.4	34.2
1075	H. B. McCleary, Auburn	4.02	3.42	11.10	4.17		34.4	33.5
1266	Burna Seed Co., Burna	4.03	3.37	12.08	4.01		34.4	34.6
4-12-4 (Sulfate) Armour's								
1076	M. G. Parman, London	4.14	3.56	11.93	4.25	Yes	34.4	34.9
1077	Ravenna Grocery, Ravenna	4.31	4.06	12.60	4.14	Yes	34.4	35.9
1078	Farmers Supply Co., Hodgenville	4.37	4.08	12.40	4.30	Yes	34.4	35.9
1267	Edgar Skelton, Shelbyville	4.48	4.28	13.15	4.14	Yes	34.4	36.9
1268	Herman Singleton, Brodhead	4.11	3.50	11.85	4.33	Yes	34.4	34.8
1269	Brent and Co., Paris	4.02	3.47	12.00	4.33	Yes	34.4	34.8
1270	T. G. Smither, Bagdad	4.23	4.04	12.10	4.63	Yes	34.4	35.6
4-8-6 (Muriate)								
1079	I. K. Miller, Campbellsville	3.96	3.31	8.08	6.35		31.6	32.0
3-9-6 (Muriate) "Big Crop Brand"								
1080	M. G. Parman, London	3.09	2.98	8.60	6.44		30.8	30.9
1081	Harold Bailey, Corinth	2.97	2.73	9.13	6.13		30.8	31.0
1082	U. L. Rogers, Columbia	3.06	2.88	9.05	6.02		30.8	31.0
1083	Ravenna Grocery, Ravenna	3.12	2.95	8.98	6.27		30.8	31.3
1084	Humphrey Bros., Bloomfield	3.13	2.96	8.88	6.16		30.8	31.1
1085	Butterworth Seed Co., Mayfield	3.05	2.86	9.00	6.02		30.8	30.9
1271	Powell-Hackney Grocery, Hazard	2.96	2.73	9.25	6.14		30.8	31.2

¹ Excess muriate equivalent to 0.63 percent potash.

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
Armour Fertilizer Works—Cont.								
3-9-6 (Sulfate) Armour's								
1086	Upton Hardware Store, Upton	3.03	3.06	9.73	6.25	Yes	30.8	32.0
1087	Sphar and Co., Winchester	3.03	2.80	9.25	6.23	Yes	30.8	31.4
1088	J. C. Everett & Co., Maysville	2.98	2.75	9.48	6.21	Yes	30.8	31.6
1272	Edgar Skelton, Shelbyville	3.14	2.79	9.35	6.36	Yes	30.8	31.9
1273	L. C. McLoney and Sons, Cynthiana	3.19	2.83	9.08	6.21	Yes	30.8	31.5
1274	Fayette Coal & Feed Co., Lexington	3.04	2.74	9.63	6.08	Yes	30.8	31.7
1275	Centers & Terrell, Campton	3.07	2.81	9.18	6.39	Yes	30.8	31.6
1276	Irvington Truck Lines, Irvington	3.15	2.87	9.73	6.38	Yes	30.8	32.4
2-12-6 (Muriate) Old Black Joe								
1089	Bale Hdw. & Impl. Co., Horse Cave	2.00	1.83	11.88	6.39	—	32.4	32.7
1090	Farmers Feed Store, Marion	2.11	1.90	12.03	6.39	—	32.4	33.1
1091	Ravenna Grocery, Ravenna	2.11	1.95	12.55	6.08	—	32.4	33.4
1092	M. G. Parman, London	2.27	2.11	11.78	6.19	—	32.4	32.9
1277	Farm Equipment Co., Bedford	2.12	2.02	11.98	6.24	—	32.4	32.9
1278	Upton Hdw. Store, Upton	1.84	1.69	12.20	6.42	—	32.4	32.7
1279	Ewen & Palmer, Stanton	2.21	2.06	11.98	6.32	—	32.4	33.1
2-12-6 (Muriate) "Big Crop Brand"								
1280	Burna Feed Co., Burna	2.15	1.88	12.00	6.45	—	32.4	33.2
1281	Wilson Farm Supply Co., Trenton	2.56	2.34	11.50	6.08	—	32.4	33.0
0-14-7 (Muriate) "Big Crop Brand"								
1282	Shay Hinton, Flemingsburg	—	—	14.25	7.38	—	29.8	30.5
Superphosphate 20% "Big Crop Brand"								
1093	Virgil Stallard, Olive Hill	—	—	19.55	—	—	26.0	25.4
1094	Louisa Supply Co., Louisa	—	—	19.93	—	—	26.0	25.9
1283	Irvington Truck Lines, Irvington	—	—	19.98	—	—	26.0	26.0
1284	Shay Hinton, Flemingsburg	—	—	19.78	—	—	26.0	25.7
Superphosphate 18%, Armour's								
1095	L. H. Gilley Grocery, Lecta	—	—	18.10	—	—	23.4	23.5
1096	T. J. Turley Co., Owensboro	—	—	18.10	—	—	23.4	23.5
1285	Burna Feed Co., Burna	—	—	18.15	—	—	23.4	23.6
Nitrate of Soda 16%								
1097	Ravenna Grocery, Ravenna	16.00	—	—	—	—	48.0	48.0
Associated Cooperatives, Inc., Sheffield, Alabama								
Superphosphate 47%								
1105	Southern States Cooperative, Flemingsburg	—	—	48.00	—	—	61.1	62.4
1287	Farmers Cash Store, Liberty	—	—	48.15	—	—	61.1	62.6
1288	Harlan Farmers Supply, Harlan	—	—	48.23	—	—	61.1	62.7
Ammonium Nitrate Fertilizer 32.50%								
1106	Southern States Cooperative, Flemingsburg	32.72	—	—	—	—	65.0	65.4
1289	Marshall County Soil Imp. Asso., Benton	33.24	—	—	—	—	65.0	66.5
1290	Paducah Hatchery & Feed Store, Paducah	33.16	—	—	—	—	65.0	66.3
1291	Carroll County Farm Bureau, Carrollton	33.12	—	—	—	—	65.0	66.2
1292	Gibson's Farm & Home Service, Barbourville	33.08	—	—	—	—	65.0	66.2
1293	Southern States Cooperative, Shelbyville	33.28	—	—	—	—	65.0	66.6
Nitrate of Soda 16% (Arcadian the American)								
1294	Penn Mercantile Co., Mannsville	16.28	—	—	—	—	48.0	48.8
Buhner Fertilizer Company, Seymour, Indiana.								
6-8-6 (Muriate) Buhner's								
1107	Hizer Brothers, Bardstown	5.51	5.33	7.83	6.29	—	35.6	34.7
1295	Shelby Feed & Seed Co., Shelbyville	5.55	5.42	8.23	6.00	—	35.6	35.0
4-12-8 (Muriate) Buhner's								
1481	Shelby Feed & Seed Co., Shelbyville	3.89	3.71	11.48	9.65	—	38.4	39.2
3-12-12 (Muriate) Buhner's								
1482	Shelby Feed & Seed Co., Shelbyville	2.86	2.76	12.00	11.84	—	40.4	40.0
1483	Shepherdsville Feed Mill, Shepherdsville	2.84	2.72	12.10	12.05	—	40.4	40.3
3-9-6 (Muriate) Buhner's								
1108	Irvington Feed & Coal Co., Irvington	2.96	2.79	9.25	8.54	—	30.8	33.6
1109	Springfield Feed & Grain Co., Springfield	2.93	2.75	8.78	6.81	—	30.8	31.2
1296	Shelby Feed & Seed Co., Shelbyville	2.95	2.76	9.63	6.75	—	30.8	32.2
1484	Farmers Supply Store, Campbellsville	2.84	2.72	8.75	7.63	—	30.8	31.8
2-12-6 (Muriate) Buhner's								
1110	Allison Shipp, Campbellsville	1.93	1.80	11.40	6.37	—	32.4	31.9
1111	Irvington Feed & Coal Co., Irvington	2.00	1.92	11.95	6.01	—	32.4	32.4

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
Buhner Fertilizer Company—Cont.								
2-12-6 (Muriate)—Cont.								
1297	Roscoe Morris, Somerset	1.97	1.86	11.60	6.32	—	32.4	32.2
1485	Edgewood Feed Store, Louisville	1.99	1.95	12.10	5.77	—	32.4	32.3
0-14-7 (Muriate) Buhner's								
1298	Allison Shipp, Campbellsville	—	—	13.90	8.54	—	29.8	31.2
1486	Shepherdsville Feed Mill, Shepherdsville	—	—	13.18	8.02	—	29.8	29.8
1487	Fountain Run Milling Co., Fountain Run	—	—	13.50	8.67	—	29.8	30.9
1488	Fern Creek Feed & Hdw. Co., Buechel	—	—	13.28	8.25	—	29.8	30.2
0-12-12 (Muriate) Buhner's								
1299	Springfield Feed & Grain Co., Springfield	—	—	12.50	13.44	—	32.4	34.4
1489	Shelby Feed & Seed Co., Shelbyville	—	—	12.13	12.56	—	32.4	33.1
Chilean Nitrate Sales Corporation, New York, N. Y.								
Nitrate of Soda 16% "Champion Brand" Chilean								
1112	I. K. Miller, Campbellsville	15.96	—	—	—	—	48.0	47.9
1300	Bale Hdw. & Impl. Co., Horse Cave	16.08	—	—	—	—	48.0	48.2
1301	Stanley Galbraith and Son, Carlisle	16.08	—	—	—	—	48.0	48.2
Consolidated Chemical Co., Div. Price and Co., Louisville, Ky.								
4-12-0 Camel Brand								
1432	Wilmore Coal, Feed and Farm Seed Co., Wilmore	4.26	3.98	12.43	—	—	28.4	29.4
1433	Fox Brothers, Winchester	4.32	4.16	12.48	—	—	28.4	29.6
Cooperative Fertilizer Service, Richmond, Va.								
2-12-6 (Muriate)								
1113	Southern States Cooperative, Maysville	2.20	2.10	12.58	6.27	—	32.4	33.8
1114	Southern States Cooperative, Flemingsburg	2.08	1.96	12.08	6.27	—	32.4	32.9
1302	Carroll County Farm Bureau, Carrollton	2.14	1.96	12.10	6.21	—	32.4	33.0
1303	Clay County Farm Service, Manchester	2.20	2.10	12.25	6.44	—	32.4	33.5
1304	Columbia Building Supply Co., Columbia	2.21	2.11	11.75	6.33	—	32.4	33.4
Superphosphate 20%								
1305	Southern States Cooperative, Cynthiana	—	—	20.35	—	—	26.0	26.5
1306	Farmers Service Store, Hardinsburg	—	—	20.73	—	—	26.0	27.0
1307	Cash Variety Store, Loretto	—	—	20.60	—	—	26.0	26.8
Cumberland Chemical Company, Hopkinsville, Kentucky.								
6-8-6 (Muriate) Cumberland								
1845	Yates Feed Store, Madisonville	6.50	6.40	8.65	5.59	—	35.6	37.0
1846	Cayce-Yost Co., Hopkinsville	5.94	5.72	9.13	6.11	—	35.6	37.0
1847	Trigg County Trading Co., Cadiz	6.17	6.06	8.73	5.79	—	35.6	36.6
6-8-6 (Muriate 3, Sulfate 3) Cumberland								
1490	Trenton Hdw. Co., Trenton	5.59	5.42	8.53	6.76	Yes	35.6	36.2
1491	Trigg County Trading Co., Cadiz	5.80	5.62	8.45	6.31	Yes	35.6	36.1
1492	C. W. Buckner, Pembroke	5.72	5.51	8.43	6.31	Yes	35.6	35.9
4-12-4 (Muriate) Cumberland								
1493	Todd County Implement Co., Elkton	4.06	3.78	12.00	4.45	—	34.4	35.0
1494	Trenton Hardware Co., Trenton	4.05	3.77	12.10	4.11	—	34.4	34.7
1848	Smith-Reynolds Co., Slaughters	3.97	3.67	12.25	4.27	—	34.4	34.9
3-9-6 (Muriate) Cumberland								
1495	H. W. McGeehee Produce Co., Lewisburg	3.53	3.37	8.98	6.47	—	30.8	32.3
1849	Forbes Hdw. Co., Hopkinsville	3.10	3.01	9.90	6.44	—	30.8	32.5
2-12-6 (Muriate) Cumberland								
1115	Todd County Implement Co., Elkton	2.06	1.82	11.90	6.44	—	32.4	32.8
1496	Campbell's Mill, Kevil	2.03	1.89	12.35	6.39	—	32.4	33.3
1497	Ratliff Hdw. Co., Princeton	2.08	1.96	11.95	6.81	—	32.4	33.3
1850	Smith-Reynolds Co., Slaughters	2.18	2.04	12.20	6.44	—	32.4	33.4
Superphosphate 20%, Cumberland								
1851	Cayce-Yost Co., Hopkinsville	—	—	21.23	—	—	26.0	27.6
1852	Trigg County Trading Co., Cadiz	—	—	21.38	—	—	26.0	27.8
Superphosphate 18%, Cumberland								
1116	Ratliff Hdw. Co., Princeton	—	—	18.95	—	—	23.4	24.6
1498	Trigg County Trading Co., Cadiz	—	—	18.95	—	—	23.4	24.6
1499	Trenton Hdw. Co., Trenton	—	—	19.08	—	—	23.4	24.8
1500	Smith and Reynolds Co., Slaughters	—	—	19.38	—	—	23.4	25.2

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
Cumberland Chemical Company—Cont.								
Sulfate of Potash Magnesia 21.50%, Cumberland								
1501	Cayce-Yost Co., Hopkinsville	—	—	—	22.04	No ¹	43.0	44.1
1502	H. W. McGeehee Produce Co., Lewisburg	—	—	—	22.04	No ²	43.0	44.1
The Davison Chemical Corporation, Hopkins Fertilizer Division, New Albany, Ind.								
6-8-6 (Muriate) Old Time Brand								
1117	Blue Grass Produce Co., Carlisle	5.87	5.78	8.45	6.67	—	35.6	36.6
1118	Jewell & Hayden, Bardstown	5.81	5.67	8.28	6.02	—	35.6	35.6
1308	Rural Supply Co., Shively	6.09	5.94	8.55	6.10	—	35.6	36.5
1309	Climax Roller Mills, Shelbyville	5.64	5.52	8.38	6.73	—	35.6	36.1
1310	G. C. McPhetridge, London	5.93	5.79	8.10	6.44	—	35.6	36.0
6-8-6 (Sulfate) Old time Brand								
1311	Jewell & Hayden, Bardstown	5.62	5.34	8.48	6.02	Yes	35.6	35.4
3-9-6 (Muriate) Old Time Brand								
1312	Wells Produce Co., Carlisle	2.88	2.80	9.10	6.89	—	30.8	31.6
3-9-6 (Sulfate) Old Time Brand								
1503	Buechel Produce Exchange, Buechel	3.11	3.03	8.68	6.61	No ³	30.8	31.3
3-9-6 (Muriate 3, Sulfate 3) Old Time Brand								
1504	Duncan and Theiss, LaGrange	3.24	3.15	9.28	6.18	Yes	30.8	31.8
1505	Albert Patrick, Williamsburg	3.09	3.01	9.13	6.52	Yes	30.8	31.7
1506	Lillard Miles, Nicholasville	3.08	3.01	9.05	6.34	Yes	30.8	31.4
2-12-6 (Muriate) Old Time Brand								
1313	Coy R. Hubble, Somerset	2.06	1.95	11.95	6.15	—	32.4	32.6
1507	Moore Feed Co., Shively	1.96	1.87	12.15	6.02	—	32.4	32.5
1508	G. C. McPhetridge, London	2.06	1.97	12.45	6.36	—	32.4	33.4
1509	Nelson's Feed Store, Marion	2.04	2.01	12.33	6.21	—	32.4	33.1
1510	Henderson Feed & Commission Co., Henderson	2.01	1.98	12.08	6.60	—	32.4	33.1
1511	William Schwartz, Mayslick	2.03	1.95	12.40	6.24	—	32.4	33.2
Superphosphate 20%, Old Time Brand								
1314	R. D. Reynolds, Cave City	—	—	20.00	—	—	26.0	26.0
The Davison Chemical Corp., Read Phosphate Div., Nashville, Tenn.								
6-8-6 (Muriate 3, Sulfate 3) Davco Red Diamond								
1119	M. D. Royse, Winchester	5.87	5.68	8.60	5.99	Yes	35.6	36.1
1120	Gentry McCauley, Versailles	5.96	5.74	8.20	6.09	Yes	35.6	35.9
1121	I. K. Miller, Campbellsville	5.93	5.71	8.23	6.24	Yes	35.6	36.0
1122	Haydon Mill & Grain Co., Lebanon	5.95	5.76	8.30	6.29	Yes	35.6	36.2
1123	Proctor Cheaney, Corydon	5.81	5.60	8.33	5.99	Yes	35.6	36.2
1315	C. S. Brent & Co., Lexington	5.52	5.35	8.53	5.98	Yes	35.6	35.3
1316	Graves County Soil Imp. Asso., Mayfield	6.09	5.88	8.23	6.48	Yes	35.6	36.5
1512	Robinson & Turley, Richmond	5.83	5.67	8.18	6.01	Yes	35.6	35.5
4-12-4 (Muriate) Davco Red Diamond								
1124	Henderson Grain & Commission Co., Henderson	4.21	4.08	12.18	4.14	—	34.4	35.2
1125	Farmers Supply Store, Mt. Sterling	4.35	4.22	12.20	4.04	—	34.4	35.4
1126	Fulkerson Bros., Sonora	4.30	4.18	11.93	4.04	—	34.4	35.0
1127	N. Y. Landrum, Bowling Green	4.31	4.18	11.95	4.04	—	34.4	35.0
1317	C. S. Brent & Co., Lexington	4.53	4.42	12.23	4.21	—	34.4	36.0
1318	Graves County Soil Imp. Asso., Mayfield	4.27	4.16	11.98	4.58	—	34.4	35.5
1513	Gentry McCauley, Versailles	4.25	4.15	11.93	4.21	—	34.4	35.0
1514	Willoughby Supply Co., Richmond	4.22	4.11	12.10	3.86	—	34.4	34.8
1515	Paducah Hatchery & Feed Store, Paducah	4.31	4.24	12.40	4.07	—	34.4	35.6
1516	Ross Feed Co., Murray	3.71	3.65	12.20	4.69	—	34.4	34.8
1517	Stockton Bros., Albany	4.19	4.10	13.15	4.38	—	34.4	36.5
3-9-6 (Muriate) Davco Red Diamond								
1128	Henry Durham, Greensburg	3.19	3.10	9.33	6.06	—	30.8	31.6
1129	Eldred Hdw. Co., Princeton	3.32	3.21	8.60	5.83	—	30.8	30.8
1130	M. D. Royse, Winchester	3.31	3.21	9.28	5.85	—	30.8	31.6
1319	Garrard Mills, Lancaster	3.37	3.27	8.96	7.45	—	30.8	32.9
1320	C. S. Brent & Co., Lexington	3.12	3.02	8.93	5.98	—	30.8	30.9
1518	H. Christensen & Co., Columbia	3.21	3.14	9.28	5.99	—	30.8	31.6
1519	Garfield Merchandise Co., Garfield	3.42	3.32	10.43	5.72	—	30.8	33.1

¹ Excess muriate equivalent to 0.44 percent potash.

² Excess muriate equivalent to 0.77 percent potash.

³ Excess muriate equivalent to 2.87 percent potash.

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
The Davison Chemical Corp., Read Phosphate Div.—Cont.								
3-9-6 (Muriate)—Cont.								
1520	Willoughby Supply Co., Richmond	3.13	3.04	9.05	5.88	—	30.8	31.0
1521	Graves County Soil Imp. Asso., Mayfield	3.22	3.17	9.43	6.06	—	30.8	31.8
2-12-6 (Muriate) Davco Red Diamond								
1131	V. B. Nuckols, Elkton	2.39	2.29	12.03	6.01	—	32.4	33.2
1522	Carbon Farm Supply, Providence	2.49	2.44	11.43	5.99	—	32.4	32.7
1523	Nelson's Feed Store, Marion	2.12	2.06	12.65	6.21	—	32.4	33.6
1524	Simpson Farmers Cooperative, Franklin	2.19	2.14	12.55	6.67	—	32.4	34.1
1525	Thompson-Miller Motor Co., Edmonton	2.54	2.49	11.75	5.99	—	32.4	33.2
Superphosphate 20%, Davco Granulated								
1132	Bryant's Mill, Caneyville	—	—	20.75	—	—	26.0	27.0
1133	Farmers Supply Store, Mt. Sterling	—	—	20.65	—	—	26.0	26.9
1134	J. H. Hubbard, Leitchfield	—	—	20.35	—	—	26.0	26.5
1526	Nelson's Feed Store, Marion	—	—	21.15	—	—	26.0	27.5
1527	M. D. Royse, Winchester	—	—	20.93	—	—	26.0	27.2
Ellis Chemical Company, New Albany, Ind.								
6-8-6 (Muriate)								
1135	A. T. Wayne, Buffalo	6.01	5.92	8.75	6.22	—	35.6	36.7
1136	Woodford Feed Co., Versailles	5.77	5.70	8.33	6.14	—	35.6	35.7
1321	Monarch Milling Co., Mt. Sterling	5.77	5.68	8.35	7.15	—	35.6	36.7
1322	Farmers Cooperative Store, Owensboro	6.16	6.10	8.28	6.49	—	35.6	36.8
3-12-12 (Muriate)								
1137	Farmers Cooperative Store, Owensboro	3.19	3.12	11.98	12.06	—	40.4	40.8
Federal Chemical Company, Louisville, Ky.								
6-8-6 (Muriate) Federal								
1138	Faulkner's Supermarket, Pikeville	5.89	5.74	7.78	6.02	—	35.6	35.1
1139	Asher Supply Co., Barbourville	6.05	5.91	7.58	6.33	—	35.6	35.5
1140	A. L. Christison, Clay	5.89	5.73	8.03	6.36	—	35.6	35.8
1323	Thomas Warren, Guthrie	5.62	5.51	8.80	6.01	—	35.6	35.8
1324	Peoples Ice & Coal Co., Smith's Grove	5.65	5.52	8.05	6.16	—	35.6	35.1
1325	Vine Street Feed Store, Lexington	5.99	5.87	7.85	5.98	—	35.6	35.4
1326	Farmers Supply Co., Henderson	5.26	5.13	8.35	6.04	—	35.6	34.6
1528	Lynn Flood, Finchville	5.26	5.13	9.15	5.86	—	35.6	35.4
1529	Farmers Supply Co., Pikeville	5.92	5.81	8.43	6.23	—	35.6	36.2
1530	Salon Hendricks Gen. Mdse., Brewers	5.65	5.50	8.20	6.17	—	35.6	35.3
1531	Dunn's Mill, Barlow	4.95	4.75	9.13	5.99	—	35.6	34.9
1532	Julius & Carl Fister, Lexington	5.83	5.70	8.30	6.13	—	35.6	35.8
1533	Pat Farley Feed & Supply Store, Catlettsburg	5.75	5.62	8.33	5.85	—	35.6	35.4
6-8-6 (Sulfate) Federal								
1141	Galbraith & Son, Carlisle	5.54	5.37	8.28	6.32	No ¹	35.6	35.3
1327	J. T. Freeman & Son, Harrodsburg	5.78	5.65	8.25	6.13	Yes	35.6	35.6
1534	Dr. Mitchell Denham, Maysville	5.72	5.59	8.33	6.01	Yes	35.6	35.5
6-8-6 (Muriate 3, Sulfate 3) Federal								
1328	Stanley Galbraith Co., Carlisle	5.79	5.69	8.40	6.19	Yes	35.6	35.9
1329	G. G. Wood, Carrollton	5.90	5.78	8.35	6.05	Yes	35.6	35.9
1330	Vine Street Feed Store, Lexington	5.78	5.64	8.40	5.72	No ²	35.6	35.4
1331	Mayes & Helm, Perryville	5.98	5.80	8.10	6.25	Yes	35.6	35.9
1332	Farmers Supply Co., Shelbyville	5.90	5.74	7.85	6.42	Yes	35.6	35.6
4-12-8 (Muriate) Federal								
1142	Earl Ward's Mill, Paducah	3.17	2.95	11.95	8.49	—	38.4	37.2
1143	L. F. Thurmond, Murray	3.30	3.07	11.95	8.39	—	38.4	37.3
1333	Dairyman's Feed & Supply Co., Mayfield	4.29	4.17	12.08	8.36	—	38.4	39.4
1535	Salon Hendricks Gen. Mdse., Brewers	3.90	3.79	12.10	8.64	—	38.4	39.0
1536	Randolph Bros., Bandana	4.25	4.16	12.03	8.24	—	38.4	39.2
4-12-4 (Muriate) Federal								
1144	A. Y. Dyer, McQuady	4.03	3.89	11.38	4.13	—	34.4	33.9
1145	U. L. Rogers, Columbia	3.94	3.80	11.43	4.07	—	34.4	33.7
1146	Southern States Cooperative, Maysville	4.06	3.92	11.70	4.07	—	34.4	34.2
1147	M. C. Roberts, S. Irvine	3.97	3.83	11.95	4.00	—	34.4	34.3
1334	R. C. Taylor Produce Co., Monticello	3.97	3.81	11.90	4.00	—	34.4	34.2
1335	R. C. Browner, Pleasureville	4.00	3.85	12.50	3.99	—	34.4	35.0
1336	Burna Feed Co., Burna	3.94	3.78	12.00	4.06	—	34.4	34.3
1337	D. C. Lykins, Clay City	3.93	3.74	11.80	3.97	—	34.4	34.0

¹ Excess muriate equivalent to 0.37 percent potash.

² Excess muriate equivalent to 1.07 percent potash.

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
Federal Chemical Company—Cont.								
4-12-4 (Muriate) Federal—Cont.								
1537	Lewis Wholesale Co., Whitesburg	4.03	3.87	12.00	4.39	—	34.4	34.9
1538	Bishop, Patterson & Gray Bros., Glasgow	4.18	4.06	12.55	4.38	—	34.4	35.8
1539	C. H. Stephens, Russell	3.98	3.85	12.45	4.17	—	34.4	35.1
3-9-6 (Muriate) Federal								
1148	Earl Ward's Mill, Paducah	3.07	2.94	8.85	6.01	—	30.8	30.8
1149	Cook & Moore, Tompkinsville	2.66	2.56	8.93	6.08	—	30.8	30.1
1150	Asher Supply Co., Barbourville	2.97	2.85	8.90	6.01	—	30.8	30.6
1151	A. L. Christison, Clay	3.14	3.04	9.03	6.06	—	30.8	31.2
1338	Stockton Bros., Albany	3.09	2.99	9.83	5.95	—	30.8	31.9
1339	Hall Seed Co., Louisville	2.84	2.73	9.93	6.01	—	30.8	31.6
1340	Thomas Smith, Bulan	2.88	2.76	8.98	6.39	—	30.8	30.9
1341	Outland Seed & Popcorn Co., Murray	2.94	2.82	9.48	6.16	—	30.8	31.4
1540	Dodd's Corner, Nicholasville	3.05	2.86	9.95	5.21	—	30.8	31.3
1541	Dairyman's Feed & Supply Co., Mayfield	3.02	2.88	9.35	5.92	—	30.8	31.2
1542	Julius & Carl Fister, Lexington	2.93	2.84	9.63	6.35	—	30.8	31.8
1543	Morris Bros., Hazel Green	2.92	2.78	9.05	5.68	—	30.8	30.4
1544	Crawford & Ferguson Hdw. Co., Benton	3.03	2.93	8.70	6.35	—	30.8	30.9
1545	Ross Feed Co., Murray	3.15	3.10	9.18	5.99	—	30.8	31.3
1546	C. H. Stephens, Russell	2.90	2.65	9.20	5.69	—	30.8	30.5
1547	Farmers Supply Co., Bedford	3.02	2.92	9.10	6.19	—	30.8	31.2
1548	Dunn's Mill, Barlow	3.09	2.95	9.10	5.98	—	30.8	31.1
2-12-6 (Muriate) Federal								
1152	A. Y. Dyer, McQuady	2.12	2.02	11.58	6.01	—	32.4	32.2
1153	Cook & Moore, Tompkinsville	2.19	2.08	11.08	6.55	—	32.4	32.2
1154	Asher Supply Co., Barbourville	2.00	1.90	11.88	5.64	—	32.4	31.9
1342	Slone Brothers, Jackson	2.08	1.97	12.20	6.04	—	32.4	32.8
1549	M. S. Ovalls & Co., Olive Hill	2.05	1.82	11.98	5.90	—	32.4	32.4
1550	Guy Armes Impl. Co., Hardinsburg	2.07	1.94	11.75	6.01	—	32.4	32.3
1551	Thomas Warren, Guthrie	2.01	1.80	11.95	6.05	—	32.4	32.4
1552	Cooke Wholesale Feed Co., Louisville	2.12	2.03	12.03	6.10	—	32.4	32.9
1553	Interstate Grocery, Jellico, Tenn.	1.99	1.79	12.03	6.06	—	32.4	32.5
1554	Bishop, Patterson and Gray Bros., Glasgow	2.02	1.84	11.78	6.01	—	32.4	32.2
0-14-4 (Muriate) Federal								
1155	Allen & Jenkins, Bowling Green	—	—	13.58	4.64	—	26.8	26.9
1555	Peoples Ice & Coal Co., Smith's Grove	—	—	13.40	4.73	—	26.8	26.8
Nitrate of Soda 16%								
1556	Crawford & Ferguson, Benton	16.08	—	—	—	—	48.0	48.2
1343	Dairyman's Feed & Supply Co., Mayfield	16.16	—	—	—	—	48.0	48.5
1344	H. T. Hackney, Harlan	16.12	—	—	—	—	48.0	48.4
1345	Craft Grocery, Manchester	16.12	—	—	—	—	48.0	48.4
Hutson Chemical Co., Murray, Ky.								
4-12-8 (Muriate)								
1347	Manufacturer's warehouse	3.97	3.83	12.03	8.61	—	38.4	39.0
International Minerals & Chemical Corporation, Cincinnati 15, Ohio.								
6-8-6 (Muriate 2, Sulfate 4)								
1156	Lexington Seed Co., Lexington	6.20	6.11	8.18	6.03	Yes	35.6	36.3
1157	Hiram & J. C. Eldridge, Morehead	5.46	5.41	8.80	6.01	Yes	35.6	35.5
1158	Woodson Lewis, Greensburg	6.07	6.01	8.33	6.05	Yes	35.6	36.2
1348	Buckhorn Coal Co., Campbellsville	6.03	5.94	8.70	6.31	Yes	35.6	36.8
5-10-10 (Muriate)								
1159	Tony Bezold, Newport	5.06	5.01	9.98	10.40	—	40.0	40.5
5-10-10 (Muriate 5, Sulfate 5)								
1160	Earl Miller, Owingsville	5.13	5.08	9.73	10.55	Yes	40.0	40.5
1349	L. C. McLoney & Sons, Cynthiana	5.03	4.95	10.48	9.96	Yes	40.0	40.6
1350	Baughman Milling Co., Stanford	5.12	5.01	10.35	10.14	Yes	40.0	40.8
5-10-5 (Muriate)								
1351	Harlan Fruit Co., Harlan	5.02	4.92	10.33	5.25	—	35.0	35.7
4-16-0								
1161	Bi-County Farm Bureau Co-op Assoc., Erlanger	4.21	4.12	15.53	—	—	33.2	33.1
1162	Woodson Lewis, Greensburg	4.26	4.16	15.65	—	—	33.2	33.3
1352	L. C. McLoney & Sons, Cynthiana	4.18	4.06	16.20	—	—	33.2	33.8
1353	Walker Greer, Camargo	4.08	3.97	16.43	—	—	33.2	33.9
1354	Richardson Grocery, Winchester	4.33	4.21	15.68	—	—	33.2	33.5
1355	Cecilian Milling Co., Elizabethtown	4.16	4.05	15.65	—	—	33.2	33.1

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
International Minerals & Chemical Corporation—Cont.								
4-12-8 (Muriate)								
1163	Earl Miller, Owingsville	4.13	4.08	11.10	8.42	—	38.4	38.0
4-12-8 (Sulfate)								
1164	Earl Miller, Owingsville	4.08	3.98	12.00	8.26	Yes	38.4	38.8
1356	Coomer Feed Store, Columbia	3.88	3.76	12.73	8.44	Yes	38.4	39.5
1357	Cecilian Milling Co., Elizabethtown	4.00	3.85	12.40	8.16	No ¹	38.4	39.0
4-12-8 (Muriate 4, Sulfate 4)								
1165	Buckhorn Coal Co., Campbellsville	4.14	4.09	11.08	8.36	No ²	38.4	37.9
1166	Hiram & J. C. Eldridge, Morehead	4.20	4.05	11.68	9.37	Yes	38.4	39.8
1358	Walker Greer, Camargo	3.96	3.85	13.10	8.10	Yes	38.4	39.7
1359	Bourbon Hdw. Co., Paris	3.76	3.70	12.75	8.39	Yes	38.4	39.2
3-12-12 (Muriate)								
1167	Hiram & J. C. Eldridge, Morehead	3.06	3.01	11.95	12.42	—	40.4	40.9
1360	Cass & Cash, Brodhead	3.23	3.15	12.55	13.05	—	40.4	42.6
1361	Boone's Feed Store, Stanford	2.98	2.91	12.83	11.83	—	40.4	41.2
3-9-6 (Muriate)								
1168	Ruark Truck Lines, Morganfield	3.15	3.00	8.98	5.77	—	30.8	30.9
2-12-6 (Muriate)								
1169	Buckhorn Coal Co., Campbellsville	2.28	2.23	11.98	6.96	—	32.4	33.9
1170	Hiram & J. C. Eldridge, Morehead	2.32	2.23	11.98	5.99	—	32.4	33.0
1362	Cass and Cash, Brodhead	2.50	2.43	12.03	7.43	—	32.4	34.9
1363	Cecilian Milling Co., Elizabethtown	2.08	1.99	12.05	6.70	—	32.4	33.3
0-14-7 (Muriate)								
1171	Woodson Lewis, Greensburg	—	—	14.53	7.78	—	29.8	31.2
0-12-12 (Muriate)								
1172	Woodson Lewis, Greensburg	—	—	12.43	12.22	—	32.4	33.1
Superphosphate 20%								
1173	The Peoples Store, Owingsville	—	—	20.80	—	—	26.0	27.0
1174	Cecilian Milling Co., Elizabethtown	—	—	21.05	—	—	26.0	27.4
1175	V. B. Nuckols, Elkton	—	—	19.15	—	—	26.0	24.9
1364	Walker Greer, Camargo	—	—	21.03	—	—	26.0	27.3
Nitrate of Soda 16%								
1365	Cass & Cash, Brodhead	16.08	—	—	—	—	48.0	48.2
Ammonium Nitrate 33.50%								
1176	Buckhorn Coal Co., Campbellsville	33.12	—	—	—	—	67.0	66.2
Kentucky Fertilizer Works, Winchester, Ky.								
6-8-6 (Muriate) "P.P.F. Brand"								
1177	Manufacturer's warehouse	5.87	5.77	6.78	6.27	—	35.0	34.2
1853	Staton's Cut Rate Market, Winchester	5.94	5.86	7.98	6.01	—	35.0	35.5
6-8-6 (Sulfate) "P.P.F. Brand"								
1178	Manufacturer's warehouse	5.89	5.84	9.00	5.16	Yes	35.6	35.7
1366	John J. Carter, Waynesburg	5.93	5.83	8.05	6.08	Yes	35.6	35.6
5-10-5 (Sulfate) "P.P.F. Brand"								
1367	Manufacturer's warehouse	4.58	4.51	10.38	5.31	Yes	35.0	34.9
3-9-6 (Muriate) "P.P.F. Brand"								
1179	Manufacturer's warehouse	2.67	2.59	8.58	6.33	—	30.8	30.0
1368	Manufacturer's warehouse	2.66	2.62	8.98	6.45	—	30.8	30.6
1369	Farmers Supply Co., Danville	2.67	2.62	9.08	6.23	—	30.8	30.5
3-9-6 (Sulfate) "P.P.F. Brand"								
1180	Manufacturer's warehouse	2.63	2.53	9.43	6.11	Yes	30.8	30.7
Ammonium Nitrate 32.50%								
1370	The Peoples Store, Owingsville	33.72	—	—	—	—	65.0	67.4
Knoxville Fertilizer Co., Knoxville, Tenn., Nashville, Tenn., London, Ky.								
6-8-6 (Muriate) Knox Pulverized								
1181	Earnest Graham, Frankfort	6.06	5.99	8.73	6.55	—	35.6	37.2
1371	L. C. McLoney & Sons, Cynthia	5.64	5.43	8.70	6.46	—	35.6	36.2
1372	Barnett-Sullivan & Co., Harrodsburg	5.95	5.75	8.65	6.23	—	35.6	36.5
1373	Danville Hdw. & Supply Co., Danville	5.92	5.85	9.08	6.37	—	35.6	37.1
1374	Berea Seed Growers, Berea	5.99	5.89	9.15	6.36	—	35.6	37.3
1183	W. H. Brock & Co., Winchester	5.58	5.38	8.75	6.48	—	35.6	36.1

¹ Excess muriate equivalent to 0.34 percent potash.

² Excess muriate equivalent to 3.65 percent potash.

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
Knoxville Fertilizer Company—Cont.								
6-8-6 (Sulfate) Knox Pulverized	1182 Brock Bros. Grain Co., Maysville	5.75	5.55	8.78	6.33	—	35.6	36.4
5-10-5 (Muriate) Pulverized	1375 Jellico Grocery, Harlan	5.24	5.16	9.98	5.69	—	35.0	36.2
4-12-4 (Muriate)	1184 G. H. Bowles & Son, Glasgow	3.91	3.84	12.05	4.21	—	34.4	34.5
	1185 Parker Seed Co., Murray	3.98	3.89	12.20	4.36	—	34.4	35.0
	1186 P. W. Johnson, Datha	4.17	4.11	11.83	4.61	—	34.4	35.2
	1376 Jellico Grocery, Harlan	4.10	3.93	11.73	4.41	—	34.4	34.7
	1377 Hobart & Milton Roberts, Monticello	4.11	3.97	12.28	4.41	—	34.4	35.4
	1378 L. C. McLoney & Sons, Cynthiana	4.07	3.92	12.50	4.42	—	34.4	35.6
3-12-4 (Muriate) "Special"	1187 Babb & Robertson Impl. Co., Adairville	2.91	2.81	12.08	4.30	—	32.4	32.6
3-9-6 (Muriate)	1188 W. H. Brock & Co., Winchester	2.83	2.77	9.78	6.06	—	30.8	31.5
	1379 Jellico Grocery, Barbourville	3.05	2.96	9.53	5.93	—	30.8	31.5
3-9-6 (Muriate 4, Sulfate 2)	1189 Parker Seed Co., Murray	2.79	2.60	9.78	6.52	Yes	30.8	31.8
	1190 W. H. Brock & Co., Winchester	3.09	2.82	9.93	6.66	Yes	30.8	32.8
	1191 Allison Shipp Seed House, Campbellsville	2.88	2.68	9.53	6.21	Yes	30.8	31.4
	1192 Wright's Hdw. Store, Flemingsburg	3.26	3.03	10.05	6.83	Yes	30.8	33.4
	1380 H. B. McClary, Auburn	3.57	3.34	9.83	6.36	Yes	30.8	33.3
	1381 Mt. Vernon Produce Co., Mt. Vernon	3.13	2.89	9.48	6.71	Yes	30.8	32.4
	1382 Fayette Seed Co., Lexington	3.00	2.75	9.98	6.16	Yes	30.8	32.1
	1383 C. M. Langdon Est., Science Hill	2.79	2.63	9.50	6.05	No ¹	30.8	31.0
2-12-6 (Muriate)	1193 Babb & Robertson Impl. Co., Adairville	2.26	2.08	11.70	5.24	—	32.4	31.8
0-14-4 (Muriate) Basic	1194 Jack Shirley, Edmonton	—	—	13.40	4.48	—	26.8	26.6
	1384 Kenneth Cundiff, Columbia	—	—	13.98	4.71	—	26.8	27.5
Superphosphate 20%—Knox Pulverized	1195 Gid Hollingsworth & Co., Tompkinsville	—	—	18.23	—	—	26.0	23.7
	1196 W. H. Brock & Co., Winchester	—	—	19.75	—	—	26.0	25.7
	1385 Mt. Vernon Produce Co., Mt. Vernon	—	—	19.65	—	—	26.0	25.6
Superphosphate 19%	1197 Grayson County Supply Co., Leitchfield	—	—	18.08	—	—	24.7	23.5
Louisville Fertilizer Co., Div. Armour & Co., Cincinnati, Ohio, Jeffersonville, Ind., Nashville, Tenn.								
6-8-6 (Sulfate) Louisville	1098 Yopp Seed Co., Paducah	6.27	5.74	7.95	6.21	Yes	35.6	36.3
Superphosphate 18%, Louisville	1099 Yopp Seed Co., Paducah	—	—	17.10	—	—	23.4	22.2
Midwestern Phosphate Corporation, Madison, Wisconsin.								
Superphosphate 20%	1386 Berea Seed Growers, Berea	—	—	20.55	—	—	26.0	26.7
	1387 Spears, Kiser Co., Paris	—	—	20.30	—	—	26.0	26.4
Morris Fertilizer Co., Div. Armour and Co., Cincinnati, O., Jeffersonville, Ind., Nashville, Tenn.								
4-12-4 (Muriate) Morris	1286 U-Tote-Em Grocery, Mayfield	4.58	4.27	12.05	6.00	—	34.4	37.6
National Chemical Company, Louisville, Ky. Div. North American Fertilizer Co., Louisville, Ky.								
4-12-4 (Muriate) "Big Pay Brand"	1204 Southern States Cooperative, Flemingsburg	4.78	4.62	12.00	3.49	—	34.4	35.5
	1421 Southern States Cooperative, Somerset	4.01	3.90	12.43	4.22	—	34.4	35.2
4-10-6 (Muriate) "Big Pay Brand"	1205 Southern States Cooperative, Frankfort	4.26	4.17	9.38	8.02	—	34.0	35.8
	1206 Southern States Cooperative, Leitchfield	4.42	4.36	9.23	7.98	—	34.0	35.9
4-10-6 (Muriate 3, Sulfate 3) "Big Pay Brand"	1207 Southern States Cooperative, Campbellsville	4.55	4.49	9.43	7.95	Yes	34.0	36.4
	1422 W. G. Wiglesworth, Jr., Cynthiana	4.01	3.94	11.30	6.55	Yes	34.0	36.1

¹ Excess muriate equivalent to 0.64 percent potash.

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
National Chemical Company—Cont.								
2-12-6 (Muriate) "Big Pay Brand"								
1208	Southern States Cooperative, Flemingsburg	2.10	1.98	12.70	6.29	—	32.4	33.7
North American Fertilizer Co., Louisville, Ky.								
6-8-6 (Muriate) N. Am.								
1198	Crouch and Riddle, Owingsville	6.62	6.49	9.00	5.28	—	35.6	37.3
1388	Platz Garage, Ghent	4.92	4.83	9.25	6.98	—	35.6	36.0
1389	W. H. Johnson, Farmers	6.41	6.36	8.63	5.76	—	35.6	36.9
6-8-6 (Sulfate) N. Am.								
1390	W. C. Howk, Cynthiana	6.02	5.90	8.43	6.42	Yes	35.6	36.6
1557	Grigsby & Co., Bardstown	5.63	5.55	8.98	6.60	No ¹	35.6	36.6
1558	Gentry McCauley, Versailles	6.28	6.18	8.20	6.25	Yes	35.6	36.7
6-8-6 (Muriate 3, Sulfate 3) N. Am.								
1391	Hardware & Supply Co., North Middletown	6.20	6.10	8.83	6.06	Yes	35.6	37.1
1392	W. G. Wigglesworth, Jr., Cynthiana	6.73	6.68	7.95	6.29	Yes	35.6	37.3
1393	Farmers Supply Co., Bedford	5.11	4.98	8.45	6.21	No ²	35.6	34.6
4-16-0 N. Am.								
1559	Fletcher Taylor, Nicholasville	3.98	3.85	14.83	—	—	33.2	31.8
4-12-4 (Muriate) N. Am.								
1199	Earl Miller, Owingsville	3.93	3.78	13.08	5.04	—	34.4	36.6
1200	Earl Miller, Owingsville	3.86	3.72	12.93	5.13	—	34.4	36.4
1394	Platz Garage, Ghent	4.75	4.64	12.20	3.41	—	34.4	35.6
1395	Haydon Mill & Grain Co., Lebanon	4.06	3.94	12.18	3.41	—	34.4	34.2
1396	Moorefield Mercantile Co., Moorefield	4.81	4.69	11.98	3.51	—	34.4	35.5
1560	Ravenna Grocery, Ravenna	4.06	3.94	12.40	3.49	—	34.4	34.5
4-10-6 (Muriate) N. Am.								
1201	Farmers Cooperative, Owensboro	4.11	3.95	11.05	5.79	—	34.0	35.3
1400	Thomas Burford, Owenton	3.83	3.66	10.58	4.55	—	34.0	32.9
1401	Spears, Kiser Co., Paris	3.86	3.71	10.88	6.23	—	34.0	35.0
1402	Calhoun Sweet Feed Mill, Calhoun	3.79	3.64	10.50	5.78	—	34.0	34.0
1561	J. E. McGahan, Paintsville	4.08	3.98	10.03	6.29	—	34.0	34.5
4-10-6 (Sulfate) N. Am.								
1403	W. C. Howk, Cynthiana	4.27	4.18	10.20	6.54	Yes	34.0	35.3
1563	Young Lumber Co., Beaver Dam	4.32	4.23	10.00	6.05	No ³	34.0	34.7
4-10-6 (Muriate 3, Sulfate 3) N. Am.								
1202	Gentry McCauley, Versailles	4.38	4.30	10.65	6.75	Yes	34.0	36.3
1404	Jim Pyles, Junction City	4.00	3.90	9.83	6.62	Yes	34.0	34.4
1405	Hdw. & Supply Co., N. Middletown	3.80	3.69	10.65	6.41	No ⁴	34.0	34.8
1566	D. M. Murphy & Co., Ezel	4.05	3.94	9.95	5.78	Yes	34.0	33.8
1567	Frank Ballard, Springfield	4.32	4.22	10.25	5.98	Yes	34.0	34.9
1568	Southern States Cooperative, Shelbyville	3.99	3.91	10.80	5.01	Yes	34.0	34.0
3-10-3 (Muriate) N. Am.								
1408	Thompson & Miller, Edmonton	2.99	2.89	9.93	2.95	—	29.0	28.9
1409	Fletcher Taylor, Nicholasville	2.62	2.53	8.90	2.54	—	29.0	26.5
1410	Byron Hdw. Co., Owingsville	3.16	3.02	11.05	3.06	—	29.0	30.6
1411	Laswell Milling Co., Brodhead	2.89	2.82	10.35	3.92	—	29.0	30.1
1569	Lindsey & Reed, Brownsville	3.06	2.96	9.55	3.76	—	29.0	29.3
1570	Robinson Impl. Co., Princeton	3.16	3.04	9.63	3.21	—	29.0	29.2
1571	M. C. Roberts, South Irvine	3.01	2.90	9.73	3.42	—	29.0	29.1
3-9-6 (Muriate) N. Am.								
1412	Farmers Supply Co., Monticello	2.04	1.94	10.15	7.37	—	30.8	31.6
1413	W. G. Wigglesworth, Jr., Cynthiana	2.70	2.64	9.13	8.54	—	30.8	32.9
1414	Byron Hdw. Co., Owingsville	3.56	3.47	10.63	5.51	—	30.8	33.4
1415	Laswell Milling Co., Brodhead	3.38	3.27	9.38	5.43	—	30.8	31.5
1572	R. D. Reynolds, Cave City	3.22	3.15	9.50	5.23	—	30.8	31.2
1573	Woodford Feed Co., Versailles	3.19	3.13	9.18	6.67	—	30.8	32.1
3-9-6 (Sulfate) N. Am.								
1416	Garfield Merchandise Co., Garfield	2.96	2.90	9.35	7.32	Yes	30.8	32.5
1574	Gentry McCauley, Versailles	3.05	2.98	8.93	6.68	Yes	30.8	31.5
1575	Stout's Feed Store, Mt. Washington	2.82	2.67	9.65	6.71	No ⁵	30.8	31.9
1576	Roy Vice, Owingsville	3.38	3.27	9.18	6.17	Yes	30.8	32.0
1577	Knight Bros., Pleasureville	3.05	2.94	9.95	6.09	Yes	30.8	32.1

¹ Excess muriate equivalent to 0.66 percent potash.
² Excess muriate equivalent to 0.33 percent potash.
³ Excess muriate equivalent to 0.50 percent potash.
⁴ Excess muriate equivalent to 0.91 percent potash.
⁵ Excess muriate equivalent to 0.67 percent potash.

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
North American Fertilizer Company—Cont.								
3-9-6 (Sulfate) N. Am.—Cont.								
1578	Payton Hatchery, Horse Cave	2.98	2.90	8.65	7.26	Yes	30.8	31.6
1579	Tennyson & Reynolds, Munfordville	3.13	3.03	9.78	5.99	Yes	30.8	32.0
2-12-6 (Muriate) N. Am.								
1203	W. C. James, Gradyville	2.00	1.87	11.80	6.76	—	32.4	32.9
1417	Ned Owens, Russell Springs	2.23	2.16	12.05	6.60	—	32.4	33.5
1580	A. C. Blankenship, Mt. Sherman	2.37	2.27	14.98	6.47	—	32.4	37.2
0-14-4 (Muriate)								
1581	Tarter and Thomas, Dunnville	—	—	14.15	6.05	—	26.8	29.0
1582	O'Nan Bros., Defoe	—	—	14.05	4.84	—	26.8	27.7
Superphosphate 20%, N. Am.								
1418	Bunton Seed Co., Louisville	—	—	19.03	—	—	26.0	24.7
1419	Irvington Feed & Coal Co., Irvington	—	—	20.20	—	—	26.0	26.3
1420	Grigsby & Co., Bardstown	—	—	18.88	—	—	26.0	24.6
1583	Grigsby & Co., Bardstown	—	—	20.43	—	—	26.0	26.6
4-12-4 (Muriate) "Blue Tag Brand"								
1397	Moorefield Mercantile Co., Moorefield	4.54	4.34	12.55	3.34	—	34.4	35.5
1398	J. W. Palmer, Stamping Ground	3.84	3.67	13.10	5.12	—	34.4	36.5
1399	Earl Horton, Eubank	3.66	3.51	13.28	4.77	—	34.4	36.0
4-10-6 (Muriate) "Blue Tag Brand"								
1562	Roy Vice, Owingsville	3.95	3.85	9.95	6.73	—	34.0	34.6
4-10-6 (Muriate 3, Sulfate 3) "Blue Tag Brand"								
1406	Laswell Milling Co., Brodhead	4.44	4.28	10.15	9.97	Yes	34.0	39.0
1407	W. C. Turner, Greensburg	4.12	3.95	10.25	9.16	Yes	34.0	37.7
1564	Renfro Supply Co., Williamsburg	4.41	4.24	10.45	7.73	No ¹	34.0	37.1
1565	Southern States Cooperative, Bardstown	4.33	4.15	10.23	7.82	No ²	34.0	36.8
Price Chemical Co., Louisville, Ky.								
6-8-6 (Muriate) Price								
1209	Foster Fertilizer Co., Hopkinsville	5.03	4.84	10.20	6.13	—	35.6	36.4
1210	Hardin County Milling Co., Elizabethtown	6.32	6.19	8.73	6.77	—	35.6	37.9
1211	Kenneth Stewart, N. Middletown	6.24	6.09	8.50	6.21	—	35.6	36.9
1423	Sam R. Lykins & Son, Stanton	5.81	5.57	8.63	6.67	—	35.6	36.7
6-8-6 (Muriate 3, Sulfate 3) Price								
1212	Dr. W. A. Graham, Flemingsburg	6.54	6.27	8.35	6.40	Yes	35.6	37.5
1213	Guenther Hdw. Co., Owensboro	6.54	6.28	8.35	6.44	Yes	35.6	37.5
1214	J. H. Lyon & Son, Loretto	6.46	6.27	8.75	6.42	Yes	35.6	37.8
1424	Lemons Brothers, Cynthiana	6.37	6.19	8.60	6.50	Yes	35.6	37.6
4-12-4 (Muriate) Price								
1215	Hardin County Milling Co., Elizabethtown	4.06	3.89	12.03	4.77	—	34.4	35.3
1425	Haydon Coal & Oil Co., Springfield	4.24	4.06	11.68	5.41	—	34.4	35.9
4-12-0 Price								
1216	Kenneth Stewart, N. Middletown	4.38	4.15	12.53	—	—	28.4	29.8
1426	Bastain Lumber Co., Lancaster	4.48	4.41	12.53	—	—	28.4	30.0
1427	Walters & Thompson, Shelbyville	4.34	4.27	12.30	—	—	28.4	29.4
3-10-3 (Muriate) Price								
1428	Fox Brothers, Winchester	3.09	2.93	10.40	3.68	—	29.0	30.3
3-9-6 (Muriate) Price								
1217	Guenther Hdw. Co., Owensboro	3.27	3.10	10.18	6.98	—	30.8	33.7
1429	Sam R. Lykins & Son, Stanton	3.73	3.65	9.43	5.82	—	30.8	32.6
2-12-6 (Muriate) Price								
1218	A. L. Hazle, Hodgenville	2.23	2.10	12.33	6.10	—	32.4	33.4
1219	Foster Fertilizer Co., Hopkinsville	2.51	2.36	12.15	6.29	—	32.4	33.9
1430	Caulk Hdw. Co., Campbellsville	2.14	2.05	12.13	5.96	—	32.4	32.8
0-14-4 (Muriate) Price								
1220	Monarch Milling Co., Mt. Sterling	—	—	14.40	4.38	—	26.8	27.7
1431	Hardin County Milling Co., Elizabethtown	—	—	14.18	4.97	—	26.8	28.0
Balston Purina Co., St. Louis, Mo.								
5-10-5 (Muriate 2.50, Sulfate 2.50) "Purina Plant Food"								
1221	Haydon Mill & Grain Co., Lebanon	5.01	4.90	10.00	5.74	Yes	35.0	35.8
1222	Helmer's Feed & Supply Co., Owensboro	5.07	4.97	10.00	5.54	Yes	35.0	35.7
1434	J. A. Bennett, Bloomfield	4.94	4.72	10.68	6.29	Yes	35.0	37.0

¹ Excess muriate equivalent to 0.70 percent potash.

² Excess muriate equivalent to 0.78 percent potash.

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
O. M. Scott & Sons Co., Marysville, Ohio.								
8-7-3 (Muriate) Scott's								
1436	Ashland Hatchery, Ashland	8.77	8.60	7.28	3.83	—	35.4	38.1
Spencer Chemical Co., Pittsburg, Kansas.								
Ammonium Nitrate 32.50%								
1225	H. B. McCleary, Auburn	33.44	—	—	—	—	65.0	66.9
1437	Willoughby Supply Co., Richmond	33.40	—	—	—	—	65.0	66.9
Swift and Co., Plant Food Division, National Stock Yards, Ill.								
6-8-6 (Muriate 3, Sulfate 3) "Red Steer Brand"								
1226	J. W. Settle Feed Store, Frankfort	5.44	5.35	9.18	6.57	No ¹	35.6	36.5
1438	Spears, Kiser Co., Paris	5.76	5.59	8.38	6.60	No ²	35.6	36.2
1439	Farmers Supply Co., Danville	5.76	5.63	8.93	6.77	No ³	35.6	37.0
4-12-8 (Muriate) Red Steer Brand								
1227	Stagg Brothers, Vanceburg	3.92	3.86	12.23	8.11	—	38.4	38.6
1440	Kratzer Supply Co., Mt. Sterling	4.04	3.79	12.08	7.76	—	38.4	38.3
1441	Stanley Penn, Lexington "Brimm"	3.98	3.72	12.85	7.26	—	38.4	38.6
1442	Yopp Seed Co., Paducah "Brimm"	4.08	3.97	12.18	8.20	—	38.4	39.0
4-12-4 (Muriate) Red Steer Brand								
1228	Yopp Seed Co., Paducah	3.53	3.44	12.38	4.55	—	34.4	34.5
1443	Spears, Kiser Co., Paris	3.88	3.74	11.70	4.22	—	34.4	34.0
1444	Dorsey Bros. & Fisher, Carlisle	4.28	4.19	11.80	4.78	—	34.4	35.5
4-12-4 (Muriate) "Vigoro Brand"								
1229	Grigsby and Co., Bardstown	4.02	3.93	11.98	4.21	—	34.4	34.6
1230	Harlan Fruit Co., Harlan	4.06	3.95	11.70	4.43	—	34.4	34.6
1231	J. W. Settle Feed Store, Frankfort	4.05	3.92	12.55	4.47	—	34.4	35.6
1232	Caulk Hdw. Co., Campbellsville	4.10	3.97	11.38	4.28	—	34.4	34.1
1445	Stanley Penn, Lexington	4.00	3.93	11.58	4.22	—	34.4	34.1
1446	Spears, Kiser Co., Paris	4.31	4.24	11.68	4.17	—	34.4	34.8
1447	The Mitchell Co., Corbin	3.66	3.56	11.43	4.81	—	34.4	33.9
2-12-6 (Muriate) Red Steer Brand								
1233	Yopp Seed Co., Paducah	2.25	2.16	11.78	6.40	—	32.4	33.0
1448	Kratzer Supply Co., Mt. Sterling	1.95	1.84	12.05	6.15	—	32.4	32.5
1449	Stagg Brothers, Vanceburg	1.94	1.81	12.05	6.24	—	32.4	32.6
Tennessee Chemical Co., Div. Armour & Co., Cincinnati, Ohio, Jeffersonville, Ind., Nashville, Tenn.								
6-8-6 (Sulfate) Ox Brand								
1100	Harralson Seed Co., Owensboro	5.91	5.45	8.53	6.04	Yes	35.6	36.1
4-12-4 (Muriate) Ox Brand								
1101	H. W. Duvall, Park City	4.12	3.65	12.00	4.11	—	34.4	34.8
4-12-4 (Muriate) "Old Black Joe"								
1102	Harralson Seed Co., Owensboro	3.83	3.32	11.93	4.08	—	34.4	34.1
3-9-6 (Muriate)								
1103	Harralson Seed Co., Owensboro	3.04	2.79	9.60	5.43	—	30.8	31.0
2-12-6 (Muriate) Ox Brand								
1104	Harralson Seed Co., Owensboro	2.09	1.89	12.35	6.04	—	32.4	33.0
Tennessee Corporation, New Albany, Indiana								
4-12-8 (Muriate) "Superior Quality Brand"								
1450	Penn Mercantile Co., Mannsville	3.51	3.38	13.25	7.15	—	38.4	38.1
1451	L. C. McLoney & Sons, Cynthiana	4.04	3.92	12.05	8.21	—	38.4	38.8
1452	Farmers Supply Co., Hodgenville	4.06	3.93	12.15	8.38	—	38.4	39.1
1453	G. G. Wood, Carrollton	4.08	3.93	12.78	7.98	—	38.4	39.5
4-12-8 (Muriate 4, Sulfate 4) "Superior Quality Brand"								
1454	Gorman-Brown Hdw. Co., Flemingsburg	4.07	3.94	12.45	8.30	Yes	38.4	39.4
1455	Lusby's Hatchery, Owenton	4.09	3.97	12.60	8.36	Yes	38.4	39.7
2-12-6 (Muriate)								
1456	Farmers Supply Co., Bedford	2.10	1.99	12.00	6.36	—	32.4	33.0

¹ Excess muriate equivalent to 2.90 percent potash.

² Excess muriate equivalent to 1.07 percent potash.

³ Excess muriate equivalent to 1.60 percent potash.

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

Station No.	Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Nitrogen		Phosphoric Acid Available	Potash	Sulfate Guar. Met	Index of Relative Value	
		Total	Water Soluble				Guar.	Found
Tennessee Corporation—Cont.								
2-12-6 (Muriate)—Cont.								
1457	Farmers Cash Store, Liberty	2.10	1.99	12.15	6.44	—	32.4	33.2
1458	I. K. Miller & Son, Campbellsville	2.04	1.93	12.08	6.05	—	32.4	32.6
Triple Superphosphate 45%								
1459	G. G. Wood, Carrollton	—	—	43.33	—	—	58.5	56.3
Valley Counties of Kentucky Cooperative, Murray, Ky.								
Superphosphate 47%								
1235	Calloway County Soil Improvement Assoc., Murray	—	—	46.13	—	—	61.1	60.0
Superphosphate 46%								
1461	Graves County Soil Improvement Assoc., Mayfield	—	—	46.43	—	—	59.8	60.4
Virginia-Carolina Chemical Corp., Cincinnati, O.								
6-8-6 (Muriate) V-C								
1236	Grayson Milling Co., Grayson	5.97	5.85	8.50	5.94	—	35.6	36.1
1462	J. H. Greene, Lexington	6.06	5.99	8.30	6.05	—	35.6	36.1
1463	C. E. Rose & Sons, Owenton	6.05	5.98	9.10	6.27	—	35.6	37.3
1464	Miss Agnes Davis, Russellville	5.90	5.72	8.70	6.24	—	35.6	36.5
1465	Knox County Supply Co., Barbourville	6.08	5.95	8.10	6.21	—	35.6	36.1
6-8-6 (Muriate 3, Sulfate 3) V-C								
1466	Madison Farmers Supply, Richmond	6.08	6.00	8.68	6.08	Yes	35.6	36.7
1467	Woodford Spears & Sons, Paris	6.23	6.15	8.15	6.09	Yes	35.6	36.3
1468	Glenwood Hatcheries, Carrollton	6.18	6.07	8.38	6.37	Yes	35.6	36.8
4-12-4 (Muriate) V-C								
1237	Francis Wholesale Co., Prestonsburg	4.02	3.93	11.85	4.20	—	34.4	34.5
4-12-0 V-C								
1469	Madison Farmers Supply, Richmond	4.14	3.94	11.98	—	—	28.4	28.7
1470	Woodford Spears & Sons, Paris	4.12	3.94	12.03	—	—	28.4	28.7
1471	Knox County Supply Co., Barbourville	4.16	3.96	12.18	—	—	28.4	28.9
3-9-6 (Muriate)								
1472	Bell County Supply Co., Middlesboro	3.14	3.04	9.33	6.00	—	30.8	31.5
2-12-6 (Muriate) V-C								
1238	Young Lumber Co., Beaver Dam	2.03	1.79	12.18	6.25	—	32.4	32.9
1239	Grayson Milling Co., Grayson	1.98	1.84	12.25	5.96	—	32.4	32.6
1240	Farmers Supply Co., Morganfield	1.98	1.84	12.28	6.40	—	32.4	33.1
1473	Miss Agnes Davis, Russellville	2.01	1.79	12.05	6.54	—	32.4	33.0
Superphosphate 20% V-C								
1474	Adams & Moore, Cynthiana	—	—	20.25	—	—	26.0	26.3
1475	Hardin County Milling Co., Elizabethtown	—	—	20.35	—	—	26.0	26.5
1476	Carter Sparks, Edmonton	—	—	21.00	—	—	26.0	27.3
1477	J. H. Greene, Lexington	—	—	20.05	—	—	26.0	26.1
Nitrate of Soda 16% V-C								
1480	Bell County Supply Co., Middlesboro	16.16	—	—	—	—	48.0	48.5
Ammonium Nitrate 33.50%								
1478	Stanley Galbraith & Son, Carlisle	33.72	—	—	—	—	67.0	67.4
1479	Madison Farmers Supply, Richmond	33.88	—	—	—	—	67.0	67.8

TABLE 2—ANALYSES OF INSPECTION SAMPLES OF ROCK PHOSPHATE, BONES,
BASIC SLAGS, ETC.

Manufacturer, Brand Name and Guaranty, and From Whom Obtained	Total Nitrogen		Phosphoric acid total		Potash		Index of relative value	
	Guar.	Found	Guar.	Found	Guar.	Found	Guar.	Found
The American Agricultural Chemical Co., Cincinnati, Ohio.								
Ground Phosphate Rock								
1259 Booneville Wholesale Co., Booneville	-----	-----	31.00	30.60	-----	-----	15.5	15.3
1603 Renfrow's General Store, Horse Branch	-----	-----	31.00	30.60	-----	-----	15.5	15.3
1844 Farmers Supply Co., Somerset	-----	-----	31.00	31.00	-----	-----	15.5	15.5
American Cyanamid Co., New York 20, N. Y.								
Florida Natural Phosphate, "Aero-Phos Brand"								
1065 Earl Miller, Owingsville	-----	-----	33.00	33.15	-----	-----	16.5	16.6
J. Harris Manure Co., E. St. Louis, Ill.								
Dried Sheep Manure 2-1-2 "Hampton Park Brand"								
1346 Arthur & Riggs, Flatwoods	2.00	1.91	1.00	1.89	2.00	1.65	15.0	15.0
Ruhm Phosphate & Chemical Co., Mt. Pleasant, Tenn.								
Phosphate Rock								
1223 Carl V. Clark, Greensburg	-----	-----	30.00	28.95	-----	-----	15.0	14.5
Schrock Fertilizer Service, Congerville, Ill.								
Phosphate Rock, Ground								
1435 Fonthill Milling Co., Fonthill	-----	-----	34.00	33.50	-----	-----	17.0	16.8
Phosphate Rock								
1224 Earl Miller, Owingsville	-----	-----	33.00	32.60	-----	-----	16.5	16.3
Swift and Company Plant Food Division, National Stock Yards, Ill.								
Steamed Bone Meal 2-26-0—Swift's								
1234 Yopp Seed Co., Paducah	2.00	1.77	26.00	27.55	-----	-----	38.0	33.2
Thomson Phosphate Co., Chicago, Ill.								
Rock Phosphate Powdered, "Top Yield Brand"								
1460 Taylor's Farm Service, Beattyville	-----	-----	31.00	31.25	-----	-----	15.5	15.6

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