

# ANALYSES OF OFFICIAL FERTILIZER SAMPLES

by the

FEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT STATION

Semi-Annual Report  
Spring Season  
January-June, 1954



UNIVERSITY OF KENTUCKY, LEXINGTON

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## Commercial Fertilizer in Kentucky, Spring Season 1954

This bulletin contains analyses of official samples of commercial fertilizers offered for sale in Kentucky between January 1, 1954 and June 30, 1954.

In comparison with previous bulletins, Tables 1, 2 and 3 of this bulletin are somewhat more condensed. The names of the manufacturers, for example, are abbreviated. Also the name of the dealer is indicated but the town has been omitted. It is hoped, however, that sufficient information is given to indicate clearly the company, the fertilizer plant, and the dealer responsible for every sample. The full names and addresses of all companies represented by samples in this report are given on Page 4 and 5. Anyone desiring the full address of a dealer from whose warehouse a sample was taken may secure this information by writing to the Department of Feed and Fertilizer.

### EXPLANATION OF TABLES

The information given should be useful to farmers, agricultural workers, and company representatives to determine how closely a given manufacturer is meeting the chemical guarantee printed on the bag for all or specific fertilizers. This may be done by comparing the guarantee shown at the beginning of each listing of sample with the actual analysis in the columns at the right in terms of nitrogen, available phosphoric acid, and potash.

An additional means of comparing guarantees with the analysis of samples is in the percent of relative value found, shown in the extreme right-hand column. The following examples illustrate how this relative value is calculated:

Sample #4981, reported on Page 13, manufactured by Bluegrass Plant Foods, Inc., of Danville, Kentucky, represented a shipment of 5-10-15 Sulfate. This sample was guaranteed to contain 5 units of nitrogen, 10 units of available phosphoric acid, and 15 units of potash. Factors for computing the relative values of these plant foods are: 1 for potash, 2 for available phosphoric acid and 3 for nitrogen. Thus the combined guaranteed value of the product represented by this sample is calculated:

5.0 units of Nitrogen	X	3	=	15.0
10.0 units of Available Phosphoric Acid	X	2	=	20.0
15.0 units of Potash	X	1	=	15.0
Total computed guaranteed value				<u>50.0</u>

The same procedure is followed for "found values". The analyzed sample in this example was found to contain 5.1 units of nitrogen, 10.2 units of available phosphoric acid and 15.1 units of potash. The relative found value of Sample #4981 is computed:

5.1 units of Nitrogen	X	3	=	15.3
10.2 units of Available Phosphoric Acid	X	2	=	20.4
15.1 units of Potash	X	1	=	15.1
Total computed value of Sample #4981				<u>50.8</u>

50.8 (computed value of sample) divided by 50.0 (computed guaranteed value) times 100 (to arrive at percentage) gives 101.6 as the percent of relative value found.

## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

- Allied Chemical & Dye Corporation  
Nitrogen Division  
40 Rector St., New York, N. Y.
- American Agricultural Chemical Co.  
50 Church St., New York, N. Y.
- American Cyanamid Co.  
30 Rockefeller Plaza, New York 20, N. Y.
- American Liquid Fertilizer Co.  
2nd St. & St. Clair, Marietta, Ohio
- Anco Chemical Co.  
Box 482, Marion, Ohio
- Armour Fertilizer Works  
350 Hart Bldg., Atlanta, Georgia  
Bartow, Florida  
Chicago Heights, Illinois  
St. Bernard Sta., Cincinnati 17, Ohio  
East St. Louis, Illinois  
14th & Watt St., Jeffersonville, Indiana  
Box 1088, Nashville, Tennessee
- Associated Cooperatives Inc.  
312 Montgomery Ave., Sheffield, Ala.
- H. J. Baker & Brothers  
600 Fifth Ave., New York 20, N. Y.
- Bartlett & O'Bryan Fertilizer Co.  
108 River Road, Owensboro, Kentucky
- Bluegrass Plant Foods Inc.  
Cynthiana, Kentucky  
Danville, Kentucky
- The Buhner Fertilizer Co, Inc.  
Seymour, Indiana
- Bunton Seed Co.  
300-312 East Jefferson Street  
Louisville 2, Kentucky
- Burley Belt Plant Food Works  
Route #4, Lexington, Kentucky
- Chilean Nitrate Sales Corporation  
120 Broadway, New York 5, N. Y.
- Commercial Solvents Corporation  
260 Madison Avenue, New York 16, N. Y.
- Commonwealth Fertilizer Co., Inc.  
Morgantown Rd., Russellville, Ky.
- Consolidated Chemical Co.  
Miller's Lane, Louisville, Kentucky  
(See Price Chemical Co.)
- Cooperative Fertilizer Service  
S.S. Bldg., Richmond, Virginia
- Cumberland Chemical Co.  
Box 548, Hopkinsville, Kentucky
- Darling & Co.  
4201 S. Ashland Ave., Chicago 9, Ill.
- Davison Chemical Corporation  
8 E. Long St., Columbus 15, Ohio  
Box 1009, 54th Avenue, North  
Nashville, Tennessee  
Box 350, W. 10th St. New Albany, Ind.
- Elizabethtown Fertilizer Co.  
716 East Dixie Avenue  
Elizabethtown, Kentucky
- Federal Chemical Co.  
Humboldt, Tennessee  
Starks. Bldg., Louisville, Ky.  
Nashville 9, Tennessee
- Fertiliene Corporation of America  
Box 254, Worthington, Ohio
- Hutson Chemical Co.  
Murray, Kentucky
- Hydroponic Chemical Co., Inc.  
Copley, Ohio
- International Minerals & Chemical Corp.  
Box 224, Greenville, Tennessee  
20 N. Wacker Dr., Chicago, Ill.  
Lockland Sta., Cincinnati 15, Ohio  
Box 69, Clarksville, Tennessee  
Somerset, Kentucky
- J. D. Jewell  
Box 642, Gainesville, Georgia
- Kentucky Fertilizer Works  
222 Cook Ave., Winchester, Ky.
- Knoxville Fertilizer Co.  
Box 274, London, Kentucky  
Knoxville, Tennessee  
Box 118, Nashville, Tennessee

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- Land O Nan Warehouse  
Sturgis, Kentucky
- Lion Oil Co.  
Lion Oil Building, El Dorado, Ark.
- Louisville Fertilizer Co.  
Box 1088, Nashville, Tennessee  
(See Armour Fertilizer Works)
- J. A. McCarty Seed Co.  
Evansville 8, Indiana
- Mathieson Chemical Corporation  
Morgantown, West Virginia
- Missouri Plant Food Co., Inc.  
Sikeston, Missouri
- Monsanto Chemical Co.  
1700 South Second Street  
St. Louis 4, Missouri
- Na Churs Plant Food Co.  
421 Monroe St., Marion, Ohio
- National Chemical Co.  
Preston St. at Bergman  
Louisville, Kentucky  
(See North American Fertilizer Co.)
- North American Fertilizer Co.  
Preston St. at Bergman  
Louisville, Kentucky
- The Ohio Valley Fertilizer Corporation  
Maysville, Kentucky
- Owens Agricultural Phosphate Corporation  
Centerville, Tennessee
- Phillips Chemical Co.  
Bartlesville, Oklahoma
- Price Chemical Co.  
Miller's Lane, Louisville, Kentucky
- A. F. Pringle & Co., Inc.  
Box 904, Charleston, South Carolina
- Robin Jones Phosphate Co.  
804 Church St., Nashville, Tennessee
- Ruhm Phosphate & Chemical Co.  
813 Garden St., Columbia, Tennessee
- O. M. Scott & Sons Co.  
Marysville, Ohio
- Schrock Fertilizer Service  
Congerville, Illinois
- Spencer Chemical Co.  
Box 604, Pittsburg, Kansas
- Sphar & Co.  
Main Street, Winchester, Kentucky
- Stim U Plant Laboratories  
Columbus, Ohio
- Stockdale Fertilizer Co.  
Morris, Illinois
- Swift & Co.  
Union Stock Yards, Chicago 9, Ill.  
National Stock Yards, Illinois
- Tennessee Chemical Co.  
Box 1088, Nashville, Tennessee  
(See Armour Fertilizer Works)
- Tennessee Coal & Iron Division  
Box 599, Fairfield, Alabama
- Tennessee Corporation  
Lockland Sta., Cincinnati 15, O.  
New Albany, Indiana
- Thompson Sales Co.  
Box 246, Montgomery, Alabama
- Tri-State Chemical Co.  
Henderson, Kentucky
- U S Steel Corporation  
525 William Penn Place  
Pittsburg, Pa.
- United Gas Co.  
105 S. Brewer, Paris, Tennessee
- Valley Counties of Ky. Cooperative, Inc.  
Box 351, Murray, Kentucky
- Virginia-Carolina Chemical Corporation  
Murray Road, St. Bernard Sta.  
Cincinnati, Ohio  
Lynchburg, Virginia  
Mt. Pleasant, Tennessee
- Zircon Products Co.  
1120 East 32nd St.  
Indianapolis, Indiana

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<b>ALLIED CHEMICAL &amp; DYE CORP NIT DIV</b>		(Percent)	(Percent)	(Percent)	
	12 12 12M				
3623	SHAKER FEED & SEED CO	12.7	133	133	108.4
3848	G W BOWLING & SON	12.3	128	132	105.3
4324	WOODFORD SPEARS & SONS	13.0	130	134	108.8
4431	G H BOWLES & SON	12.4	135	140	108.6
4780	BAGDAD ROLLER MILL	13.0	132	133	108.9
4901	MYERS & CLARK CO	12.7	150	124	111.8
	16 NITRATE OF SODA				
3772	SOUTHERN STATES COOP	16.2			101.1
	20 5 AMMONIUM NITRATE LIMESTONE				
3849	M C ROBERTS COAL & FEED	20.7			100.9
4139	SOUTHERN STATES SIMPSON COOP	20.6			100.3
4325	FOX BROTHERS	20.9			102.0
	21 AMMONIUM SULFATE				
4591	SOUTHERN STATES COOP	21.0			100.2
	32 NITROGEN SOLUTION				
4427	BLUE GRASS NITROGEN COMPANY	32.5			101.6
4582	SHAKER FEED & SEED COMPANY	32.9			100.2
4977	HAYDON COAL & OIL CO	33.0			100.2
	82 ANHYDROUS AMMONIA				
4830	CUMBERLAND CHEMICAL COMPANY	82.0			100.0
<b>AMERICAN AGRICULTURAL CHEMICAL CO</b>					
	0 12 12M				
4326	HENDERSON & HARDY		11.7*	12.6	99.8
	0 20 20M				
3417	CARROLL COUNTY FARM BUREAU COOP		20.1	20.6	101.2
3850	CARROLL COUNTY FARM BUREAU COOP		20.5	19.8	101.3
	2 12 6M				
3360	J W DAVIDSON	2.1	115*	6.5	101.9
3551	LEBANON CARRIAGE & IMPLEMENT CO	2.0	11.7*	6.0	97.9
4140	J H MCCLURE & SONS	2.0	11.4*	6.3	97.6
4866	LEBANON CARRIAGE & IMPLEMENT CO	2.0	11.4*	6.4	97.8
4876	J W DAVIDSON	2.1	11.3*	6.5	98.0
	3 9 6 3M 3S				
4141	JOHN A SHEEHAN	2.9	9.0	6.2	100.0
	3 12 12M				
3327	WALTERS & THOMPSON	3.0	12.0	12.3	100.6
3328	WOODFORD SPEARS & SONS	2.9	12.0	12.6	100.8
3361	BAUGHMAN MILLING CO	3.0	12.2	12.4	102.0
3362	J W DAVIDSON	3.0	11.8	12.2	99.3
4142	J H MCCLURE & SONS	2.9	11.9	12.0	98.6
4143	BURLINGTON LUMBER & BUILDING SUPPLY	3.1	12.0	12.4	101.2
4144	JOHN A SHEEHAN	2.8	12.0	11.9	98.7
4327	LANDER HARDWARE	3.3	12.0	12.3	102.4
4432	SAM LITTON JR	3.0	12.0	12.0	99.6
4688	MCDONALD HARDWARE	3.1	12.1	12.3	101.5
	4 12 8M				
3552	LEBANON CARRIAGE & IMPLEMENT CO	3.9	12.0	8.3	99.7
	4 12 8S				
3326	MILLERSBURG COAL & LUMBER CO	3.9	12.3	8.4	101.3
3363	BEDFORD & TUTTLE	4.0	12.6	8.1	102.7
3418	RAVENNA GROCERY	3.8	12.6	8.0	101.3
3419	RAYMOND RAINES	3.9	12.6	8.4	102.7
3553	LEBANON CARRIAGE & IMPLEMENT CO	4.0	12.3	8.1	101.4
3554	MCDONALD HARDWARE	4.0	12.5	7.9	101.8
4145	LEBANON CARRIAGE & IMPLEMENT CO	3.9	11.9	8.0	98.8
4146	JOHN A SHEEHAN	4.0	12.0	8.0	99.9
4729	W G COX	4.0	12.2	8.2	101.4
	5 10 15S				
3323	WOODFORD SPEARS & SONS	5.0	10.2	15.0	100.9
3324	WALTERS & THOMPSON	4.8	10.3	15.8	101.5
3325	MILLERSBURG COAL & LUMBER CO	4.8	10.3	15.4	100.6
3364	BEDFORD & TUTTLE	4.7*	10.2	15.1	99.2
3365	WOODSON LEWIS	4.8	10.8	15.0	101.8
3366	MONARCH MILLING COMPANY	5.0	10.1	15.2	101.0
3367	BAUGHMAN MILLING CO	4.9	10.1	15.1	100.2
3420	RAYMOND RAINES	4.8	10.8	14.5*	100.9
3773	CRAB ORCHARD LUMBER CO	4.9	10.7	15.0	102.0
4147	J H FEDDERS INC	4.9	10.2	14.7*	99.4
4148	BURLINGTON LUMBER & BLDG SUPPLY	4.8	10.3	14.7*	99.4
4149	NORMAN TAYLOR	4.9	10.3	14.6*	99.8
4328	HENDERSON & HARDY	4.8	10.0	15.5	99.9
4788	HARRY THORNTON	5.0	10.3	14.7*	100.2

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>AMERICAN AGR CHEM CONTINUED</u>					
6 8 6S					
3368	J W DAVIDSON	5.9	8.5	6.6	102.8
3421	RAVENNA GROCERY	5.6*	8.7	6.6	102.0
3422	CARROLL COUNTY FARM BUREAU COOP	5.9	8.6	6.3	103.0
3555	MAYES HELM & COYLE	5.7*	8.8	5.9	101.6
3774	CRAB ORCHARD LUMBER CO	5.7*	8.5	6.3	100.7
4150	J H FEDDERS INC	5.7*	8.4	6.3	100.4
4329	BEDFORD & TUTTLE	5.9	8.2	9.5	109.1
4433	J W SETTLE FEED STORE	5.9	7.8	6.2	98.4
4728	W G COX	5.9	8.4	6.8	102.9
4750	L F HELLMAN HARDWARE	6.0	8.0	6.0	99.7
4915	HARDWARE & SUPPLY STORE	5.8	8.3	6.4	101.4
6 12 12M					
3322	WOODFORD SPEARS & SONS	5.7*	12.1	12.5	99.7
3423	RAVENNA GROCERY	5.7*	12.5	12.1	100.6
4749	L F HELLMAN HARDWARE	5.9	11.9	12.2	99.6
33 5 AMMONIUM NITRATE					
3329	MILLERSBURG COAL & LUMBER CO	33.3			99.3
3330	WOODFORD SPEARS & SONS	33.2			99.2
18 SUPERPHOSPHATE					
3295	CRAB ORCHARD LUMBER CO		19.1		106.1
3331	R E HUTTON		19.1		105.8
3369	MONARCH MILLING CO		19.0		105.6
3370	WOODSIN LEWIS		19.0		105.6
3371	BAUGHMAN MILLING CO		18.9		105.0
3424	CARROLL COUNTY FARM BUREAU COOP		18.5		102.8
3550	E J VANHOOK		18.8		104.4
4151	JOHN A SHEEHAN		18.7		103.9
4152	J H FEDDERS INC		17.4*		96.7
4434	SAM LITTON JR		18.7		103.6
50 SULFATE OF POTASH					
3332	WOODFORD SPEARS & SONS			51.0	102.1
3556	LEBANON CARRIAGE & IMPLEMENT CO			53.0	105.9
<u>AMERICAN CYANAMID CO</u>					
33 5 AMMONIUM NITRATE					
3296	SOUTHERN STATES COOPERATIVE	33.6			100.2
3372	SPHAR & CO	33.4			99.7
3373	SOUTHERN STATES CLARK COOP	33.8			101.0
3374	WOODSON LEWIS	33.7			100.5
3436	JOE BUSH FARM SUPPLY	33.7			100.5
<u>AMERICAN LIQUID FERTILIZER CO</u>					
8 16 8M					
4699	MILLS SPRINGS SUPPLY	8.3	16.2	8.2	102.3
<u>ANCO CHEMICAL CO</u>					
22 33 11					
3944	TOBACCO STATES CHEMICAL CO	22.3	33.2	11.2	101.1
4754	J B COBB & SONS	22.2	33.3	11.3	101.0
4858	GRIGSBY & CO	22.2	33.0	11.3	100.7
<u>ARMOUR FERTILIZER WORKS ATLANTA GA</u>					
5 10 5M					
3508	PRENTISS MARTIN	5.0	10.1	5.9	102.7
3661	FARMERS UNION SUPPLY	5.0	10.0	5.6	101.3
<u>ARMOUR FERTILIZER WORKS BARTOW FLA</u>					
45 TRIPLE SUPERPHOPSHATE					
3468	GLASGOW TRADING CENTER		44.5*		98.8
<u>ARMOUR FERTILIZER WORKS CHGO HT ILL</u>					
10 10 10M					
3672	FARMERS UNION SUPPLY	10.4	9.7*	9.9	100.4
<u>ARMOUR FERTILIZER WORKS CINN OHIO</u>					
0 12 12M					
3301	W C DICKEN		12.1	12.1	100.5
3851	CHECK R BOARD		12.0	11.8	99.4
3945	N S DUDLEY & SON		12.5	11.9	102.5
3946	BECKHAM GARLAND		12.0	12.7	101.9
4153	W C DICKEN		11.7*	12.8	100.3
4726	HOWARD WHOLESALE CO		11.4*	12.2	96.9

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<b>ARMOUR CINCINNATI CONTINUED</b>					
0 20 20M					
3947	KEITH & LYKINS		195*	196*	976
4743	VIRGIL STALLARD		196*	215	1012
2 12 6M					
3557	RALPH HOVIOUS	21	114*	55*	95.7*
4741	C A RABOURN & SONS	22	108*	59	946*
4742	SAMUEL HAM	23	108*	74	992
3 9 6M					
3558	LIBERTY HARDWARE CO	29	85*	63	972
3647	JELLICO GROCERY	32	90	63	1021
3648	MILDERS STORE	31	88	62	999
3948	BIG JIM COAL CO	24*	82*	59	889*
4436	G C CRABTREE	30	89	66	1011
4665	DOBSON SUPPLY	35	101	74	1147
4710	L B COLEMAN & SON	31	90	69	1033
4725	HOWARD WHOLESALE CO	30	90	63	1006
3 12 6M					
3507	PRENTISS MARTIN	31	119	65	1015
3652	WRIGLEY MERCANTILE CO	27*	113*	63	951*
3653	ROBERT S GENTRY	32	117*	66	1014
3775	GILBERT L VANOVER	36	118	67	1051
3777	C E HERRIN	33	117*	62	1015
3778	B C NORRIS	34	115*	65	1016
3949	KEITH & LYKINS	34	116*	64	1016
4330	CAMARGO FARM SUPPLY	38	103*	85	1039
4331	LONDON HARDWARE	46	101*	73	1054
3 12 12M					
3425	RAVENNA GROCERY	30	116*	125	996
3855	THE PEOPLES STORE	30	120	122	1003
3856	WILLOUGHBY SUPPLY CO	29	120	121	993
3950	N S DUDLEY & SON	28	118	126	993
3951	KEITH & LYKINS	31	118	122	1003
4715	JAMES L HATFIELD	36	113*	122	1015
4 12 8M					
3655	JELLICO GROCERY	41	116*	93	1020
3656	CHAMPION STORES NO 96	41	115*	86	994
3657	WRIGLEY MERCANTILE CO	40	114*	89	988
3782	LONDON HARDWARE	41	115*	94	1014
3857	THE PEOPLES STORE	40	120	81	1019
4156	KELLER HAY & GRAIN CO	50	110*	91	1050
4158	CINCINNATI GRAIN & HAY COMPANY	40	116*	85	991
4924	J C EVERETT CO	45	120	91	1057
4 12 8S					
3300	J C EVERETT CO	41	120	89	1028
3660	T G SMITHER	38	122	85	1009
3781	C F MULLINS	41	120	86 (1)	1020
3952	J C EVERETT	43	117*	81	1008
4159	BUTLER LUMBER & COAL CO	42	110	83 (2)	973
4332	BROWN FARM SUPPLY	41	117*	86 (3)	1004
4792	SPARTA TRANSFER CO	46	120	89	1057
4917	CARLISLE MILL & SUPPLY	41	118	81	998
4 24 12M					
3953	E M BRYANT	40	235*	135	1005
5 10 5M					
3427	WILLOUGHBY SUPPLY CO	50	100	61	1032
3954	J C EVERETT	50	119	59	1112
3955	N S DUDLEY & SON	50	102	59	1030
5 10 10M					
3540	L B COLEMAN & SON	50	99	100	998
3663	THE FARMERS SUPPLY CO	51	102	104	1024
3784	ANDERSONS GROCERY	51	100	100	1006
3858	G W BOWLING & SON	48	100	101	989
4161	CINCINNATI GRAIN & HAY CO	49	99	99	985
4162	W C DICKEN	50	100	101	1002
5 10 10S					
3376	SPHAR & CO	4.7*	99	109	999
3428	CAMARGO FARM SUPPLY	48	103	103 (4)	1003
3539	W J AMBURGEY	50	102	107	1023
3562	LIBERTY HARDWARE CO	49	99	104	999
3859	THE PEOPLES STORE	49	103	100	1008
3861	MONTGOMERY FEED STORE	50	101	102	1007
3956	J C EVERETT CO	50	102	93.0*	992
4732	FRANK L HINTON & SON	53	99	100 (5)	1010

(1) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 1.7% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

(4) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

(5) EXCESS MURIATE EQUIVALENT TO 2.2% POTASH



TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>ARMOUR CINCINNATI CONTINUED</b>					
5 10 15S					
3283	THOMPSON FEED & FARM SUPPLY	5.0	10.3	15.7	1025
3298	J C EVERETT CO	5.0	10.6	15.9	1041
3334	BRENT & COMPANY	5.1	10.0	15.5	1014
3378	SPHAR & CO	5.0	10.0	15.2	1003
3429	RAVENNA GROCERY	4.9	10.4	15.5	1016
3430	WILLOUGHBY SUPPLY CO	4.9	10.5	15.4	1024
3476	CARLISLE MILL & SUPPLY	5.0	10.5	15.1	1022
3477	SALYERSVILLE WHOLESALE GROCERY CO	5.2	10.5	14.5*	1016
3863	THE PEOPLES STORE	5.2	10.3	14.8	1018
3957	PRENTISS MARTIN	5.2	10.5	15.2	1034
4698	MILLS SPRINGS SUPPLY	5.3	10.0	15.5	1027
4794	COYLES GROCERY	5.0	9.9	15.4	1003
4797	HULETTE HARDWARE	4.0*	11.7	13.5*(1)	976
5 20 20M					
3625	RALPH HOVIOUS	5.1	19.9	20.9	1015
3959	KEITH & LYKINS	4.7*	20.3	19.9	994
4165	ROBERTS BROTHERS FEED MILL	5.0	19.1*	20.8	98.7
6 6 18S					
3865	THE PEOPLES STORE	5.8	6.5	17.9 (2)	1005
3960	E H BRYANT	6.3	5.9	17.7*	1006
3962	PRENTISS MARTIN	6.2	6.0	18.0	1010
3963	J C EVERETT COMPANY	6.0	6.2	17.6*	1003
3965	KEITH & LYKINS	5.9	6.6	17.3*	1001
4333	BRENT & COMPANY	6.0	6.1	17.5*	995
4798	JOHN B PENN	6.1	6.1	18.0	1010
6 8 6S					
3333	BRENT & COMPANY	5.8	7.7*	6.5	984
3379	SPHAR & CO	5.8	8.0	6.6	1000
3459	C E LOWE	5.8	8.4	6.3	1009
3478	SALYERSVILLE WHOLESALE GROCERY CO	5.6*	7.4*	6.1	945*
3564	LIBERTY HARDWARE CO	5.7*	7.1*	5.9	932*
3667	WRIGLEY MERCANTILE CO	5.7*	7.3*	6.2	945*
3670	JELLICO GROCERY	5.9	7.6*	6.3	975
3785	C E HERRIN	5.6*	7.5*	6.3	952*
3864	THE PEOPLES STORE	5.5*	8.0	6.3	970
3966	JOHN B PENN	5.8	8.6	6.7	1028
4443	J A BENNETT HARDWARE	5.8	7.9	9.1	1054
4790	GROBMYER LUMBER & COAL CO	6.1	8.1	6.8	1029
10 10 10M					
3297	SAM RYLE	9.7*	9.6*	11.7	99.7
3967	J C EVERETT CO	10.3	10.2	10.1	1022
4727	SALYERSVILLE WHOLESALE GROCERY CO	9.5*	10.4	10.7	1000
4923	E H BRYANT	9.3*	10.0	10.2	96.7*
26 AMMONIUM NITRATE SULFATE					
3479	CARLISLE MILL & SUPPLY CO	25.9			996
3541	L B COLEMAN & SON	26.0			1002
3968	E H BRYANT	26.1			1003
33 5 AMMONIUM NITRATE					
3480	SALYERSVILLE WHOLESALE GROCERY	33.7			1005
3866	MONTGOMERY FEED STORE	33.6			1002
3969	KEITH & LYKINS	33.3			995
4446	BROWNS HARDWARE & ELECTRIC	33.4			998
20 SUPERPHOSPHATE					
3867	CHECK R BOARD		20.1		1005
3869	BERTRAM & CHAPMAN		20.5		1025
3970	KEITH & LYKINS		19.9		993
3971	J C EVERETT		20.0		998
4338	LONDON HARDWARE		19.3*		963
48 SULFATE OF POTASH					
3336	FARMERS UNION SUPPLY			51.9	108.1
4341	BRENT & COMPANY			52.4	109.2
48 6 SULFATE OF POTASH					
3972	N S DUDLEY & SON			52.1	108.6
60 MURIATE OF POTASH					
3335	FARMERS UNION SUPPLY			60.0	99.9
3870	THE PEOPLES STORE			60.2	100.4
4340	BRENT & COMPANY			59.3*	98.9
<b>ARMOUR FERTILIZER WORKS E ST LOU ILL</b>					
4 16 16M					
3299	BURNA FEED CO	3.7*	16.0	16.5	99.3

(1) EXCESS MURIATE EQUIVALENT TO 0.8% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<b>ARMOUR FERTILIZER WORKS JEFFER IND</b>					
<b>0 12 12M</b>					
3465	IDEAL HARDWARE		11.9	12.5	100.9
3852	TRIMBLE COUNTY FARM BUREAU COOP		12.0	12.1	100.4
<b>0 20 20M</b>					
3466	GLASGOW TRADING CENTER		18.7*	20.7	96.8*
3645	IDEAL HARDWARE CO		19.8	19.8	98.8
3646	W C BLAIR		19.8	19.2*	98.1
3853	RALPH BERRY		20.5	19.5*	100.8
4758	FARMERS SUPPLY CO		20.7	17.1*	97.5*
4783	JOE BUSH FARM SUPPLY		19.9	20.0	99.6
<b>2 12 6M</b>					
3464	IDEAL HARDWARE	1.9	12.0	6.0	99.3
3624	BALE HARDWARE & IMPLEMENT CO	2.1	12.0	6.6	102.6
4744	VIRGIL STALLARD	2.1	12.0	7.0	103.8
<b>3 9 6M</b>					
4683	WILDERS STORE	3.1	9.0	7.2	104.9
4716	MUSIC WHOLESALE	2.6*	9.2	5.9	97.0
<b>3 12 6M</b>					
4154	L H GILLEY GROCERY	2.9	12.0	6.0	98.9
4785	FARM EQUIPMENT CO	3.1	11.8	6.3	100.3
4793	COLLINS HARDWARE	2.8	11.9	6.0	98.0
4801	THOMERSON MILLING CO	3.1	12.4	6.3	103.5
<b>3 12 12M</b>					
3560	JOHN J CARTER	2.9	11.9	11.6*	97.9
3779	TRUMAN HOLLINSHORTH & COMPANY	3.0	12.1	11.9	99.8
3854	FARM EQUIPMENT CO	2.9	12.0	12.1	99.3
4438	MARATTAY BROTHERS	3.3	11.9	12.0	101.1
4791	SPARTA TRANSFER CO	2.9	11.9	12.1	99.4
<b>4 12 8S</b>					
3426	COLLINS HARDWARE	3.6*	12.2	8.2	98.9
3658	U L ROGERS & SONS	3.8	12.1	8.4 (1)	99.9
3659	R J THOMAS	3.7*	12.1	8.5	99.3
4782	RALPH BERRY	4.1	11.5*	9.2	100.8
4978	WORLEY & CRAIN	4.3	12.1	8.3	102.8
<b>4 16 16M</b>					
4784	FARM EQUIPMENT CO	4.0	15.9	16.2	99.9
4855	JEWELL & HAYDEN HARDWARE	4.0	15.9	15.6*	99.2
<b>4 24 12M</b>					
3462	GLASGOW TRADING CENTER	4.1	23.6*	12.2	99.6
3783	H H LOWERY	4.3	24.7	12.6	103.9
4160	T F KEENE & SONS	4.0	23.6*	12.1	99.0
<b>5 10 10S</b>					
3375	W C BLAIR	4.7*	10.6	10.6	101.9
3860	SPARTA TRANSFER	5.0	10.1	10.7	102.0
4778	PRENTISS MARTIN	5.4	9.9	9.7*	101.5
<b>5 10 15S</b>					
3284	FARMERS UNION SUPPLY CO	5.3	10.0	14.0*	99.9
3377	H L SPARKS & CO	4.9	10.0	14.8	99.1
3431	SPARTA TRANSFER CO	4.9	10.2	14.6*	99.1
3460	IDEAL HARDWARE	4.9	10.4	14.9	100.6
3664	ROBERT S GENTRY	4.8	10.3	15.3	100.6
3665	T C SMITHER	4.9	10.2	14.6	99.5
3862	JOE BUSH FARM SUPPLY	4.9	10.1	15.0	99.7
3958	WILLIAM GRINES	5.0	9.9	14.9	99.4
4164	L H GILLEY GROCERY	4.9	10.0	15.0	99.4
4440	MCGLASSON FEED STORE	4.8	10.3	14.4*	98.7
4781	RALPH BERRY	5.4	9.5*	15.9	102.0
4786	C D WATSON	4.8	10.0	16.2	101.2
<b>5 20 20M</b>					
4336	C E HERRIN	4.6*	20.0	19.1*	97.3*
<b>6 6 18S</b>					
3563	SPRINGFIELD FEED & GRAIN CO	5.7*	6.8	19.3	104.0
3961	JOHN B PENN	5.3*	7.9	17.1*	101.5
3964	CECIL SEMONES	6.1	6.7	16.9*	101.3
4441	ALLEN COAL SERVICE	4.4*	9.6	14.8*	97.8
4442	MARATTAY BROTHERS	5.5*	7.4	16.7*	99.8
<b>6 8 6S</b>					
3432	SPARTA TRANSFER CO	5.8	8.3	6.5	101.4
3510	JAMES T TERRELL	6.0	8.0	6.5	101.5
3626	BALE HARDWARE & IMPLEMENT CO	5.8	8.0	6.6	99.6
3669	EARL H FROEDGE	5.7*	8.4	6.8	101.6
<b>10 10 10M</b>					
4337	SPHAR & CO	10.1	9.9	10.6	101.2
4444	ALLEN COAL SERVICE	9.7*	10.7	10.3	101.1
4571	MORGANTOWN FEED MILLS	9.4*	10.4	10.7	99.3

(1) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>ARMOUR JEFFERSONVILLE CONTINUED</b>					
<b>20 SUPERPHOSPHATE</b>					
3433	TRIMBLE COUNTY FARM BUREAU COOP		20.1		100.5
<b>48 SULFATE OF POTASH</b>					
3434	FARM EQUIPMENT CO			50.7	105.6
4167	LOYD YATES & SON			51.2	106.7
4168	T F KEENE & SONS			51.5	107.3
4448	H D JONES			50.7	105.7
4916	CARLISLE MILL & SUPPLY			49.9 (1)	104.0
<b>ARMOUR FERTILIZER WORKS NASH TENN</b>					
<b>2 12 6M</b>					
3463	A C ROBERTS	2.1	12.0	6.1	100.8
4552	CARL BARTLEY	2.3	11.9	6.4	103.2
<b>3 9 6M</b>					
3649	PAUL GARDNER	3.1	9.0	6.2	101.7
4435	HUDSON FEED MILL	3.1	9.1	6.4	102.0
<b>3 9 6S</b>					
3650	PAUL GARDNER	3.2	9.2	6.0	103.4
<b>3 12 6M</b>					
3559	GIBSON PRODUCE COMPANY	3.2	11.7*	5.8	99.0
3651	PAUL GARDNER	3.1	12.0	6.3	101.8
3654	WALLACE HARDWARE NO2	2.6*	12.3	5.9	98.0
3776	S D HARLAN & CO	3.1	12.2	6.1	102.2
4437	FARMERS SUPPLY CO	3.3	11.9	5.9	101.1
4584	HATTER HARDWARE CO	3.4	11.5*	6.5	101.7
4696	GIBSON PRODUCE CO	3.0	12.1	5.9	100.5
<b>3 12 12M</b>					
4155	KEITH HARDWARE	3.0	11.8	12.3	99.9
<b>4 8 8M</b>					
4640	YOPP SEED CO	4.2	8.0	7.7*	101.2
<b>4 12 4M</b>					
4439	TRUMAN HOLLINSWORTH	4.1	11.7*	4.8	100.9
<b>4 12 8M</b>					
3780	OWEN AYERS	4.1	12.5	8.8	104.5
4157	FARMERS FEED & SUPPLY	4.1	12.1	8.3	101.9
4808	WILSON FARM SUPPLY	4.5	11.3*	7.7*	99.8
<b>5 10 10M</b>					
3509	N T NUCKOLS	4.8	9.9	9.8	98.4
3662	WALLACE HARDWARE NO2	4.7*	10.2	9.5*	97.9
4163	M C FRUITT IMPLEMENT CO	5.2	9.5*	10.1	99.4
<b>5 10 10S</b>					
3461	BIG FOUR FEED & IMPLEMENT CO	5.1	10.3	10.2	102.5
3561	GIBSON PRODUCE COMPANY	5.0	10.2	10.0	100.5
<b>6 8 6M</b>					
3666	PAUL GARDNER	6.2	8.0	6.4	102.8
4334	FORBES HARDWARE COMPANY	6.1	8.0	6.1	100.5
<b>6 8 6S</b>					
3668	WALLACE HARDWARE NO2	5.5*	9.9	7.0	108.0
3671	PAUL GARDNER	5.7*	8.8	6.5 (2)	102.8
4335	FORBES HARDWARE COMPANY	5.8	8.0	6.4	99.3
4397	LILLY BROTHERS SEED CO	5.8	8.8	6.4 (3)	103.3
<b>8 8 8M</b>					
4578	AUBURN SEED CO	7.8	8.7	8.0	101.3
<b>16 NITRATE OF SODA</b>					
4445	FARMERS SUPPLY CO	16.2			101.5
<b>21 AMMONIUM SULFATE</b>					
4639	YOPP SEED CO	20.6*			98.3
<b>26 AMMONIUM NITRATE SULFATE</b>					
3673	PAUL GARDNER	26.2			100.8
<b>33 5 AMMONIUM NITRATE</b>					
3285	GIBSON PRODUCE COMPANY	33.3			99.5
4166	FARMERS GIN COMPANY	33.9			101.2
<b>20 SUPERPHOSPHATE</b>					
3467	GLASGOW TRADING CENTER		20.0		99.8
3674	PAUL GARDNER		20.2		101.0
3868	FARM EQUIPMENT COMPANY		20.9		104.5
4398	LILLY BROTHERS SEED CO		20.1		100.5
4447	FARMERS SUPPLY CO		20.4		101.8

(1) EXCESS MURIATE EQUIVALENT TO 0.6% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.9% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 1.1% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>ARMOUR NASHVILLE CONTINUED</b>					
<b>50 SULFATE OF POTASH</b>					
3435	SPHAR & CO			51.5	103.0
4342	N T NUCKOLS			51.6	103.3
4449	FARMERS SUPPLY CO			49.6	99.2
4806	FRANK SMITH			48.8*	97.7*
<b>60 MURIATE OF POTASH</b>					
4339	N T NUCKOLS			60.1	100.2
4807	FRANK SMITH			61.5	102.5
<b>ASSOCIATED COOPERATIVES INC</b>					
<b>33 5 AMMONIUM NITRATE</b>					
3286	SOUTHERN STATES LEBANON COOP	33.4			99.7
3312	SOUTHERN STATES COOPERATIVE	32.9*			98.3
3337	SOUTHERN STATES LAGRANGE COOP	33.5			100.0
3380	W C TURNER	33.4			99.8
3381	SOUTHERN STATES CLARK COOP INC	33.4			99.6
3382	AMBURGEYS FARM SUPPLY	33.4			99.6
3437	SOUTHERN STATES ASHLAND COOP	33.4			99.7
3438	RALPH BERRY	33.5			100.0
3439	DEATON BROTHERS	33.3			99.4
3481	HARRISON BROTHERS FARM SUPPLY	33.4			99.7
<b>45 SUPERPHOSPHATE</b>					
3566	SOUTHERN STATES BARDSTOWN COOP		45.3		100.7
<b>47 SUPERPHOSPHATE</b>					
3511	SOUTHERN STATES HOPKINSVILLE COOP		46.1*		98.1
4169	BALLARD COUNTY COOP		47.3		100.6
<b>61 CALCIUM METAPHOSPHATE</b>					
3872	HANCOCK COUNTY FARMERS SUPPLY		61.6		101.0
<b>62 CALCIUM METAPHOSPHATE</b>					
3287	SOUTHERN STATES SHELBYVILLE COOP		62.0		100.0
3470	SOUTHERN STATES COOPERATIVE		62.4		100.6
3512	SOUTHERN STATES CRITTENDEN COOP		62.8		101.3
4631	SOUTHERN STATES MORGANFIELD COOP		62.2		100.3
<b>H J BAKER &amp; BRO</b>					
<b>26 AMMONIUM NITRATE SULFATE</b>					
3675	THE FARMERS SUPPLY CO	26.1			100.5
4344	SOUTHERN STATES COOPERATIVE	26.2			100.8
4854	SOUTHERN STATES BARDSTOWN COOP	26.2			100.9
<b>BARTLETT &amp; O BRYAN FERTILIZER CO</b>					
<b>0 20 20M</b>					
4170	TICHENOR BROTHERS		17.6*	20.6	93.1*
4171	CANARY FARM SUPPLY		20.0	16.4*	94.0*
4575	J L FLOWERS		20.6	20.8	103.3
<b>3 12 12M</b>					
4172	BARTLETT & OBRYAN FERTILIZER CO	3.0	12.2	12.6	102.3
<b>4 16 16M</b>					
4173	BARTLETT & O BRYAN FERTILIZER CO	4.3	15.8	17.1	102.4
4574	J L FLOWERS	4.1	16.1	17.1	102.7
<b>6 8 6M</b>					
4174	BARTLETT & O BRYAN FERTILIZER CO	3.4*	11.4*	12.0	112.8
4175	CARLISLE & ABNER	6.1	8.4	7.0	105.0
<b>6 8 6S</b>					
4176	BARTLETT & O BRYAN FERTILIZER CO	6.1	8.7	6.6	105.8
4177	CARLISLE & ABNER	6.0	8.2	6.9	103.0
<b>8 8 8M</b>					
4178	TICHENOR BROTHERS	8.0	8.2	8.6	102.0
<b>20 SUPERPHOSPHATE</b>					
4179	CANARY FARM SUPPLY		20.0		100.0
4180	TICHENOR BROTHERS		19.4*		97.0
<b>50 SULFATE OF POTASH</b>					
4181	CARLISLE & ABNER			51.6 (1)	103.2
<b>BLUEGRASS PLANT FOODS INC CYAN KY</b>					
<b>0 12 12M</b>					
3302	SOUTHERN STATES CAMPBELL COOP		12.5	11.8	102.3
<b>0 20 20M</b>					
4660	BRACK NOBLE		19.8	19.9	99.2

(1) EXCESS MURIATE EQUIVALENT TO 1.8% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<b>BLUEGRASS CYNTHIANA CONTINUED</b>					
	2 12 6M				
3873	UNION GROCERY COMPANY	24	118	66	1033
4183	ICES PRODUCE	28	119	68	1079
	3 12 12M				
3788	CITY FOOD MARKET	31	123	123	1023
	4 8 12S				
3973	FLOYD G BARLOW	42	82	124	1034
4922	DORSEY BROTHERS & FISHER	39	85	120	1017
	4 12 8S				
3789	MT VERNON PRODUCE CO	39	120	80	991
3874	UNION GROCERY CO	39	123	81	1009
4921	DORSEY BROTHERS & FISHER	39	122	80	1002
	5 10 15S				
3875	UNION GROCERY CO	52	102	152	1024
3974	CHARLES RANKIN HATCHERY	52	103	157	1034
4186	J R PRATHER	51	101	150	1013
4187	HUGHES H HAMILTON	53	100	164	1045
4779	GENTRY LEE	51	103	159	1034
4983	HASKELL O NAN	51	106	150	1028
	6 6 18S				
4451	C G OLIVER & EDGAR O NAN	60	64	179	1016
4920	DORSEY BROTHERS & FISHER	59	64	177*	1007
	6 8 6M				
3876	UNION GROCERY CO	56*	80	64	983
3976	FLOYD G BARLOW	60	82	68	1028
4707	H T ROBERTS	61	81	65	1019
	6 8 6S				
3440	WALKER SUPPLY	61	77*	79	1038
3441	GENE RAISOR	61	75*	68	1005
3790	MOUNTAIN DEW COAL CO	60	79	70	1016
4706	H T ROBERTS	61	80	71	1029
	6 8 12 3M 9S				
3877	GENE RAISOR	54*	81	130	986
	6 12 18S				
3977	CHARLES RANKIN HATCHERY	59	125	177*	1004
4795	LIPSCOMB COAL & FEED CO	62	119	185	1016
	33 5 AMMONIUM NITRATE				
3978	FLOYD G BARLOW	338			1010
	50 SULFATE OF POTASH				
4193	HUGHES HAMILTON			514	1027
4835	HUGHES HAMILTON			506	1011
<b>BLUEGRASS PLANT FOODS INC DAN KY</b>					
	0 12 12M				
3786	HENRY MESSER		121	121	1009
	0 20 20M				
4182	HAYDON MILL & GRAIN CO		209	204	1037
	2 12 6M				
3676	I K MILLER & SONS	23	119	69	1045
3787	D L BULLOCK	21	122	65	1030
4184	SOUTHEASTERN KY FESCUE SEED GROWERS	23	122	64	1044
4689	CITIZENS MILLING CO	23	120	64	1038
	3 12 12M				
4185	J B ALDRIDGE	32	120	122	1015
4979	BLUEGRASS PLANT FOODS	36	121	122	1047
	4 12 8S				
3677	I K MILLER & SONS	38	122	78	984
	5 10 10M				
4980	BLUEGRASS PLANT FOODS	51	102	103	1023
	5 10 15S				
3567	BLUEGRASS PLANT FOODS	47*	105	152	1004
3975	ROY BLACK	53	102	151	1025
4757	ELWOOD HULETTE	52	101	151	1021
4981	FARMERS SUPPLY CO	51	102	151	1016
	5 15 0				
3568	RALPH HOVIOUS	44*	156		986
	6 6 18S				
4188	BLUEGRASS PLANT FOODS	59	62	175*	994
4771	WALTERS & THOMPSON	61	64	180	1023

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>BLUEGRASS DANVILLE CONTINUED</b>					
4189	6 8 6M SOUTHEASTERN KY FESCUE SEED GROWERS	5.7*	8.0	6.4	98.4
4190	6 8 6S PENN MERCANTILE COMPANY	6.0	8.1	6.5	101.8
3678	6 8 12 3H 9S I K MILLER & SONS	5.8	8.2	12.0	99.3
3569	6 12 18S BLUEGRASS PLANT FOODS	6.1	12.7	17.2*	101.8
3570	RALPH HOVIOUS	6.1	12.5	17.8	101.9
4191	8 8 8M SOUTHEASTERN KY FESCUE SEED GROWERS	8.0	7.9	7.9	99.4
4192	10 10 10M ICES PRODUCE	9.6*	10.4	10.4	100.1
<b>THE BUHNER FERTILIZER CO INC</b>					
4194	2 12 6M RIZER BROTHERS	2.0	11.9	7.5	103.4
4345	SHEPHERDVILLE FEED MILL	2.0	12.0	7.1	102.8
4346	3 9 6M BUHNER & COMPANY	2.9	9.2	6.4	101.4
3303	3 12 12M BUHNER & COMPANY	2.9	11.9	12.4	100.0
3383	BUHNER & COMPANY	3.0	12.0	12.4	100.8
3679	E R REXROAT	2.7*	12.0	12.8	99.5
4347	4 12 8M BUHNER & COMPANY	3.5*	11.7*	8.6	96.9
3384	5 10 15S BUHNER & COMPANY	4.8	10.8	14.3*(1)	100.5
3680	PLEASUREVILLE LUMBER CO	4.7*	10.3	15.0 (2)	99.2
3681	E R REXROAT	4.7*	10.3	15.2 (3)	99.8
3682	6 8 6S E R REXROAT	6.0	8.6	6.9 (4)	105.3
3683	PLEASUREVILLE LUMBER CO	5.9	8.6	7.0	104.9
4195	RIZER BROTHERS	6.0	8.5	6.6	103.8
<b>BUNTON SEED CO</b>					
4348	6 12 6M BUNTON SEED COMPANY	6.0	12.1	7.8	104.1
<b>BURLEY BELT PLANT FOOD WORKS</b>					
3878	3 9 6M BRACK NOBLE	3.3	8.7*	6.3	101.9
4452	ORMAN LEWIS	3.3	8.7*	6.3	101.3
4661	JETT GROCERY	2.5*	8.0*	6.7	91.2*
3979	4 8 12S DODDS CORNER	3.8	7.9	11.8	97.6
3684	4 10 10M ORMAN LEWIS	4.2	9.5*	9.8	98.6
4764	GENTRY MCCAULEY	3.8	9.4*	10.3	96.5
3879	5 10 5M WOOTEN GROCERY & FEED STORE	5.2	11.9	5.7	112.5
3685	5 10 16S ORMAN LEWIS	5.1	9.5*	15.9	98.4
4763	GENTRY MCCAULEY	5.1	9.4*	16.0	98.1
3686	6 8 6S ORMAN LEWIS	5.9	7.7*	6.6	99.2
3791	SATTER WHITE FARM SERVICE	5.8	8.1	6.6	100.6
3880	PECKS FARMERS SUPPLY	5.6*	7.9	6.7	98.4
3881	BRACK NOBLE	5.8	7.8	6.4	98.7
3687	6 8 12S ORMAN LEWIS	5.8	8.0	11.8	98.1
4655	20 SUPERPHOSPHATE HARDY BROTHERS		18.2*		91.0*

- (1) EXCESS MURIATE EQUIVALENT TO 1.4% POTASH  
(2) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH  
(3) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH  
(4) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<b>CHILEAN NITRATE SALES CORP</b>					
	16 NITRATE OF SODA				
3513	CAYCE YOST COMPANY	160			100.0
4349	SOUTHERN STATES COOPERATIVE	162			101.0
<b>COMMERCIAL SOLVENTS CORP</b>					
	33 5 AMMONIUM NITRATE				
3288	ANDERSON & SPILLMAN	332			99.1
3292	METCALFE COUNTY FARMERS SUPPLY	332			99.0
3293	L H GILLEY GROCERY	332			99.2
3349	AUBURN SEED COMPANY	333			99.5
3442	OTTO JOHNSON	336			100.4
3443	RAYMOND RAINES	331			98.7
3482	J A BENNETT HARDWARE	328*			97.8*
3571	MAYES HELM & COYLE	330*			98.4
3628	J W EDWARDS & SON	335			100.0
3688	ROY C HARDESTY	334			99.8
4196	CORRELL SUPPLY	335			100.0
4752	RUFUS HUTCHERSON	334			99.6
	82 ANHYDROUS AMMONIA				
4826	FARM CHEMICAL CO	82.0			100.0
<b>COMMONWEALTH FERTILIZER CO INC</b>					
	0 20 20M				
3629	COMMONWEALTH FERTILIZER COMPANY		20.0	20.1	100.0
	3 9 6M				
4350	M G WILLIAMS IMPLEMENT CO	32	8.9	6.0	100.6
	3 12 12M				
4197	MR ROBERT HARDY	32	12.0	12.8	103.1
4453	RICKARD FEED MILL	33	11.9	12.7	103.1
	4 12 8M				
4198	MCGECHIE & GRICE	43	12.0	8.4	102.8
4940	COLEMANS FEED STORE	42	12.0	8.4	102.6
	5 10 10S				
4199	COMMONWEALTH FERTILIZER COMPANY	53	10.1	9.9	102.5
	6 8 6M				
4200	COMMONWEALTH FERTILIZER COMPANY	60	8.1	6.4	101.6
4941	COLEMANS FEED STORE	59	8.9	6.3	104.7
	8 8 8M				
3630	COMMONWEALTH FERTILIZER COMPANY	77*	8.7	8.1	101.5
	20 SUPERPHOSPHATE				
4351	M G WILLIAMS IMPLEMENT CO		18.2*		91.0*
	50 SULFATE OF POTASH				
4201	COMMONWEALTH FERTILIZER COMPANY			51.8	103.7
<b>CONSOLIDATED CHEMICAL CO</b>					
	2 12 6M				
4352	OSCAR FARMER & SONS	23	12.0	7.1	105.3
4880	J A MURPHY GENERAL STORE	20	11.8	7.4	103.1
	3 9 6M				
4353	VALLEY FARM STORE	40	8.5*	7.0	108.5
4454	H T BARTLEY	29	8.9	7.2	102.2
4870	SUTTONS GROCERY	25*	9.7	6.2	100.2
	3 12 12M				
4455	H T BARTLEY	31	12.6	13.0	105.9
	5 10 15S				
4871	SUTTONS GROCERY	50	10.4	16.0	103.4
	6 8 8S				
3689	STOCKTON BROTHERS	55*	8.8	8.6	101.4
<b>COOPERATIVE FERTILIZER SERVICE</b>					
	0 14 14M				
3483	STANTON FARMERS SUPPLY		13.9	14.8	101.3
3572	J A MURPHY GENERAL STORE		13.6*	14.9	100.3
3573	WASHINGTON FARM SERVICE		13.7*	14.5	99.9
3690	SOUTHERN STATES MADISONVILLE COOP		13.8	14.7	100.4
3882	PERRY COUNTY FARM SUPPLY		14.2	15.1	103.5
4202	SOUTHERN STATES CAMPBELL COOP		14.0	15.1	102.7
4456	STANTON FARMERS SUPPLY		14.2	14.5	102.0
4724	FARMERS SUPPLY CO		13.9	15.1	102.2

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>COOPERATIVE FERTILIZER CONTINUED</b>					
	<b>0 14 14M 3LB BORAX PER 100</b>				
3574	SOUTHERN STATES COOPERATIVE (1)		135*	14.6	98.8
3631	STINSON FARM SUPPLY (2)		14.1	15.0	102.9
	<b>0 20 20M</b>				
4677	HARLAN FARMERS SUPPLY		19.4*	20.3	98.5
	<b>2 12 6M</b>				
3306	ALLEN COUNTY FARMERS SERVICE	2.0	12.4	7.0	105.2
3342	GIBSON FARM & HOME SERVICE	2.0	12.5	7.1	106.0
3355	EDMONSON COUNTY COOPERATIVE	2.3	12.0	6.8	104.6
3475	SOUTHERN STATES COOPERATIVE	2.1	12.4	6.2	103.5
3484	JACKSON COUNTY FARM SERVICE	2.1	12.3	7.0	103.6
	<b>3 12 12M</b>				
3290	WASHINGTON FARM SERVICE	3.0	12.0	14.1	104.4
3354	SOUTHERN STATES COOPERATIVE	3.3	11.6*	13.6	103.9
3444	SOUTHERN STATES ASHLAND COOP	3.0	12.2	12.8	102.9
3445	TRIMBLE COUNTY FARM BUREAU COOP	3.1	12.0	12.0	102.5
3485	SOUTHERN STATES FRANKFORT COOP	2.9	12.4	12.8	103.1
3514	MORRISON & WALLACE	2.8	12.8	12.6	103.3
3542	FARM & HOME STORE	3.1	12.1	12.4	101.4
3575	FARMERS CASH STORE	3.2	12.2	12.4	103.3
3576	SOUTHERN STATES COOPERATIVE	3.1	12.2	12.7	102.7
3691	PIKE COUNTY HATCHERY	3.1	12.0	12.0	102.1
3692	MORGAN FARMS STORE	3.0	11.8	12.5	100.3
3693	SOUTHERN STATES MADISONVILLE COOP	3.3	12.1	13.2	104.7
3792	LINCOLN FARM SERVICE	3.1	11.9	12.5	101.1
3883	JOE BUSH FARM SUPPLY	3.3	12.0	12.6	103.4
3980	SOUTHERN STATES CYNTHIANA COOP	3.1	12.4	12.4	103.1
4203	RALPH HOVIOUS	3.0	12.0	12.4	100.6
4354	SOUTHERN STATES LOUISVILLE COOP	3.0	12.0	12.8	101.5
4722	FARMERS SUPPLY CO	3.0	11.7*	12.3	99.1
4787	TRIMBLE COUNTY FARM BUREAU COOP	3.6	11.5*	12.7	103.0
4796	MORGAN FARM SUPPLY	3.2	11.8	12.4	101.2
	<b>4 8 12S</b>				
3340	SOUTHERN STATES SHELBYVILLE	4.0	8.8	12.1 (3)	104.2
3341	GIBSON FARM & HOME SERVICE	3.9	8.3	12.5	102.0
3353	SOUTHERN STATES COOPERATIVE	4.0	7.9	12.3	100.0
3385	AMBURGEYS FARM SUPPLY	4.1	8.5	11.9	103.2
3446	GALLATIN COUNTY FARM SUPPLY	3.9	8.0	12.4	100.3
3486	SOUTHERN STATES FRANKFORT COOP	4.0	8.4	13.7 (4)	105.9
3694	PIKE COUNTY HATCHERY	4.1	9.0	11.9 (5)	105.6
3695	SOUTHERN STATES ONENTON COOP	4.1	8.0	12.5	102.1
3696	CALLOWAY COUNTY SOIL IMPROV ASSN	4.0	8.2	12.0	100.6
3884	ROWMAN FARMERS SUPPLY	4.1	8.5	12.4	104.4
3981	SOUTHERN STATES CYNTHIANA COOP	4.2	8.4	12.0	103.1
3982	SOUTHERN STATES MAYSVILLE COOP	4.1	8.5	12.2	103.6
4918	SOUTHERN STATES CARLISLE COOP	4.0	8.5	11.9	101.9
	<b>4 12 8M</b>				
3352	FARMERS SERVICE STORE	4.0	12.1	8.8	101.8
3487	WHITLEY FARM SUPPLY	4.1	11.8	9.1	112.3
3697	SOUTHERN STATES MADISONVILLE	3.9	12.0	9.1	102.0
3885	RICHMOND FARM SERVICE	4.4	11.4*	8.7	101.3
4355	SOUTHERN STATES LAGRANGE COOP	4.2	11.7*	8.6	101.6
4572	FARMERS SUPPLY CO	4.3	12.1	8.4	103.3
4630	SOUTHERN STATES MORGANFIELD COOP	4.0	10.9*	8.6	96.2*
4674	TRI COUNTY FARM SUPPLY	3.9	11.2*	8.7	97.4
	<b>5 10 10M</b>				
3351	FARMERS SERVICE STORE	4.9	10.0	10.7	101.8
3447	SOUTHERN STATES ASHLAND COOP	5.0	10.1	10.5	101.3
3488	WHITLEY COUNTY FARM SUPPLY	5.0	10.0	10.3	100.0
3543	FARM & HOME STORE	5.0	9.9	10.5	100.6
3577	SOUTHERN STATES DANVILLE COOP	5.1	10.0	9.9	100.6
3698	PIKE COUNTY HATCHERY	4.9	10.0	10.0	99.1
3699	HANCOCK COUNTY FARMERS SUPPLY	5.0	9.8	10.5	100.2
3700	SOUTHERN STATES MADISONVILLE COOP	4.9	10.3	10.4	101.9
3793	BEN ALLEN THOMAS	4.8	10.7	10.0	101.5
4204	WASHINGTON FARM SERVICE	5.3	9.3*	11.8	102.5
4205	SOUTHERN STATES BROOKSVILLE FARM SUP	5.1	10.2	10.0	101.4
4206	SOUTHERN STATES COOPERATIVE	4.9	10.0	9.7*	98.7
4573	FARMERS SUPPLY CO	5.2	10.3	10.7	103.9
4712	PIKE COUNTY HATCHERY	5.0	10.2	10.0	101.2

(1) BORON GUARANTEED 0.34% ----- found 0.34%

(2) BORON GUARANTEED 0.34% ----- found 0.33%

(3) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

(4) EXCESS MURIATE EQUIVALENT TO 2.7% POTASH

(5) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<b>COOPERATIVE FERTILIZER CONTINUED</b>					
<b>5 10 15S</b>					
3305	SOUTHERN STATES MAYSVILLE COOP	5.1	10.3	15.0	101.7
3338	SOUTHERN STATES LEXINGTON COOP	5.0	10.2	15.3	101.6
3339	SOUTHERN STATES SHELBYVILLE	5.1	10.4	15.4	102.9
3386	AMBURGEYS FARM SUPPLY	5.1	10.1	15.4	101.7
3387	SOUTHERN STATES COOPERATIVE	5.1	10.3	15.1	101.8
3489	JACKSON COUNTY FARM SERVICE	5.0	10.4	15.6	102.8
3490	STANTON FARMERS SUPPLY	4.9	10.6	14.9	101.2
3491	SOUTHERN STATES CARLISLE COOP	5.0	10.5	14.7*	101.2
3492	FARMERS SUPPLY COMPANY	5.0	10.4	15.1	101.4
3515	SOUTHERN STATES LEXINGTON COOP	5.0	10.5	15.4	102.6
3578	SOUTHERN STATES DANVILLE COOP	5.0	10.3	14.9	101.2
3579	DON ROGERS	5.2	10.6	15.1	103.5
3632	SOUTHERN STATES SIMPSON COOP	5.2	10.0	15.3	101.9
3701	HANCOCK COUNTY FARMERS SUPPLY	5.5	10.0	15.9	105.1
3886	STINSON FARM SUPPLY	5.1	10.7	15.0	103.4
3887	FARM EQUIPMENT COMPANY	5.1	10.6	15.1	103.0
3888	CARROLL COUNTY FARM BUREAU COOP	5.2	10.2	15.6	103.4
3889	RICHMOND FARM SERVICE	5.0	10.4	15.2	101.7
4207	RALPH HOVIOUS	5.2	10.0	15.9	102.7
4208	HETCALFE FARMERS SUPPLY	5.3	10.4	15.1	103.5
4693	FARMERS SUPPLY CO	4.8	10.2	15.3	100.1
4818	STEWART & CO	5.2	10.0	15.0	101.2
4868	COOPERATIVE FERTILIZER SERVICE	5.1	10.2	15.0	101.2
<b>6 8 6S</b>					
3289	WASHINGTON FARM SERVICE	6.0	8.0	6.3	101.0
3304	SOUTHERN STATES COOPERATIVE	6.1	8.0	6.3	101.0
3315	STEWART & COMPANY	6.1	8.3	6.5	103.0
3388	AMBURGEYS FARM SUPPLY	5.8	7.5*	6.8	98.0
3389	SOUTHERN STATES COOPERATIVE	6.0	7.8	7.2	101.5
3448	DEATON BROTHERS	6.0	7.9	7.0	101.7
3449	CARMARGO FARM SUPPLY	6.0	7.3*	6.5	97.4
3450	SOUTHERN STATES OWENTON COOP	6.0	8.6	6.5	104.2
3493	FARMERS SUPPLY COMPANY	6.0	7.6*	6.6	99.4
3494	MAGOFFIN FARM SUPPLY	6.0	7.6*	6.8	99.9
3495	STANTON FARMERS SUPPLY	6.1	7.8	6.6	101.2
3516	ANDERSON COUNTY FARM SERVICE	5.6*	8.7	6.0	100.4
3702	SOUTHERN STATES OWENTON COOP	6.0	8.2	6.3	101.9
3703	CALLONAY COUNTY SOIL IMPROV ASSN	5.9	8.5	6.4	102.7
3704	OWSLEY FARM SERVICE	5.8	8.5	7.1	103.9
3890	STINSON FARM SUPPLY	5.6*	8.7	6.1	100.9
4457	SOUTHERN STATES HARDIN COOP	6.2	8.2	6.2	102.6
<b>8 8 8N</b>					
3350	FARMERS SERVICE STORE	8.0	8.4	9.0	103.5
3390	SOUTHERN STATES LOUISVILLE COOP	7.6*	8.5	9.5	102.8
3544	FARM & HOME STORE	7.8	8.3	9.4	102.8
3891	SOUTHERN STATES OWENSBORO COOP	8.1	8.6	8.7	104.3
3983	C T ASHLEY & COMPANY	8.2	8.1	8.6	102.8
4209	SOUTHERN STATES BARDSTOWN COOP	8.1	8.5	8.8	104.0
4210	SOUTHERN STATES CAMPBELL COOP	8.1	8.3	8.7	103.0
4356	SOUTHERN STATES COOPERATIVE	8.1	8.1	8.8	102.6
4636	K R MCKINNEY & SON	7.9	8.2	8.7	101.8
4770	SOUTHERN STATES SHELBYVILLE COOP	8.2	8.0	8.4	101.9
<b>16 NITRATE OF SODA</b>					
3984	SOUTHERN STATES CYNTHIANA COOP	16.4			102.2
3985	SOUTHERN STATES MAYSVILLE COOP	16.4			102.2
<b>33 AMMONIUM NITRATE</b>					
3705	MORGAN FARM STORE	33.5			101.4
3706	MORGAN FARM STORE	33.2			100.7
<b>33 5 AMMONIUM NITRATE</b>					
3343	BOURBON FARM SERVICE	33.3			99.3
3496	FARMERS SUPPLY COMPANY	33.3			99.2
3707	PIKE COUNTY HATCHERY	33.3			99.5
3986	SOUTHERN STATES CYNTHIANA COOP	33.7			100.6
4211	SOUTHERN STATES BROOKSVILLE FARM SUP	33.3			99.5
4723	FARMERS SUPPLY CO	33.3			99.5
<b>20 SUPERPHOSPHATE</b>					
3633	SOUTHERN STATES SIMPSON COOP		20.5		102.6
3987	SOUTHERN STATES MAYSVILLE COOP		21.0		105.0
4678	HARLAN FARMERS SUPPLY		20.5		102.3

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>COOPERATIVE FERTILIZER CONTINUED</b>					
4719	47 SUPERPHOSPHATE C D WILLIAMS		46.9		99.8
3988	61 CALCIUM METAPHOSPHATE SOUTHERN STATES HAYSVILLE COOP		62.0		101.6
4718	C D WILLIAMS		61.4		100.7
3316	48 6 SULFATE OF POTASH SOUTHERN STATES HARRODSBURG COOP			52.1	107.2
3581	RALPH HOVIOUS			50.7	104.2
3344	50 5 SULFATE OF POTASH SOUTHERN STATES LEXINGTON COOP			50.5	100.0
3345	BOURBON FARM SERVICE			51.9	102.7
3391	SOUTHERN STATES CLARK COOP			51.8	102.6
3452	RICHMOND FARM SERVICE			51.7	102.4
3497	SOUTHERN STATES CARLISLE COOP			50.9	100.8
3989	SOUTHERN STATES GEORGETOWN COOP			51.6	102.1
3451	60 MURIATE OF POTASH RICHMOND FARM SERVICE			60.2	100.3
3580	SOUTHERN STATES LEBANON COOP			60.0	100.1
3708	SOUTHERN STATES COOPERATIVE			60.1	100.2
3794	SOUTHERN STATES LEXINGTON COOP			60.7	101.2
3990	SOUTHERN STATES GEORGETOWN COOP			60.0	100.0
4357	BOURBON FARM SERVICE			60.2	100.3
4458	SOUTHERN STATES FRANKFORT COOP			61.4	102.3
4459	REDWINES FARMERS SUPPLY			60.1	100.2
4819	STEWART & CO			60.0	100.0
<b>CUMBERLAND CHEMICAL CO</b>					
3517	0 20 20M CUMBERLAND CHEMICAL CO		20.9	20.0	103.0
4460	FOX HARDWARE COMPANY		20.3	20.1	101.1
4461	2 12 6M FOX HARDWARE COMPANY	2.1	12.4	6.5	103.9
4811	RALPH O GRACE	2.0	11.2*	6.7	97.3
4601	3 12 12M MAXWELL ICE & COAL COMPANY	3.1	12.5	12.3	103.5
4462	4 12 8M FOX HARDWARE COMPANY	4.2	12.2	9.0	104.8
4463	C H BLAKELY	4.2	12.0	8.7	102.8
4810	MR RALPH O GRACE	3.8	11.6*	8.3	97.7
4945	5 10 10S ROBINSON IMPLEMENT & MOTOR CO	5.0	10.3	11.1	103.7
4358	5 10 15S CUMBERLAND CHEMICAL CO	5.1	10.7	16.9	107.1
3518	6 8 6M CUMBERLAND CHEMICAL CO	5.9	8.2	6.7	101.8
4602	MAXWELL ICE & COAL COMPANY	6.0	8.7	7.1	106.5
4809	6 8 6S PYLES & GOODWIN	5.8	9.4	7.3 (1)	109.0
4946	ROBINSON IMPLEMENT & MOTOR CO	6.3	8.2	6.9	105.6
4359	6 12 12M CUMBERLAND CHEMICAL CO	6.0	12.1	12.6	101.3
4604	MAXWELL ICE & COAL COMPANY	6.0	12.3	12.5	101.8
4812	CUMBERLAND CHEMICAL CO	6.2	12.1	12.5	102.0
4360	8 8 8M LANDER HARDWARE	8.3	8.2	9.0	104.6
4464	FOX HARDWARE COMPANY	8.5	8.0	8.8	104.7
4603	MAXWELL ICE & COAL COMPANY	8.3	8.3	9.5	106.4
4361	12 12 12M CUMBERLAND CHEMICAL COMPANY	11.9	12.0	14.0	102.4
4605	MAXWELL ICE & COAL COMPANY	12.3	11.1*	14.0	101.4

(1) EXCESS MURIATE EQUIVALENT TO 2.5% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<b>CUMBERLAND CHEMICAL CONTINUED</b>					
	20 SUPERPHOSPHATE				
3519	CUMBERLAND CHEMICAL CO		20.2		101.0
4362	LANDER HARDWARE		19.9		99.5
4606	MAXWELL ICE & COAL COMPANY		19.9		99.5
	50 SULFATE OF POTASH				
4944	ROBINSON IMPLEMENT & MOTOR CO			50.3	100.6
	60 MURIATE OF POTASH				
4363	CUMBERLAND CHEMICAL COMPANY			61.8	103.1
4607	MAXWELL ICE & COAL COMPANY			60.0	100.0
<b>DARLING &amp; CO</b>					
	3 9 18M				
4212	FARMERS GIN COMPANY	3.1	8.8	17.8	99.2
	3 9 27M				
4831	JAMES A WILSON	3.1	9.0	28.0	102.3
	3 12 12M				
4213	FARMERS GIN COMPANY	3.0	11.7*	12.7	100.0
4214	BALLARD COUNTY COOPERATIVE	2.9	12.4	11.9	100.9
	4 12 8M				
4620	MAXWELL MORGAN	4.1	11.5*	8.4	99.2
	5 10 10S				
4618	BARDWELL SHEET FEED MILL	4.8	10.6	7.9*	96.2*
	6 12 12M				
4215	BALLARD COUNTY COOPERATIVE	6.1	12.3	12.4	102.2
4465	FARMERS IMPLEMENT & SUPPLY CO	5.9	12.2	12.6	101.6
	8 8 8M				
4216	BALLARD COUNTY COOPERATIVE	7.7*	8.3	7.4*	98.2
	10 10 10M				
4217	BALLARD COUNTY COOPERATIVE	9.8	10.2	10.5	100.7
4619	BARDWELL SHEET FEED MILL	10.1	10.0	10.8	102.1
	33 5 AMMONIUM NITRATE				
4218	BALLARD COUNTY COOPERATIVE	33.8			102.6
	48 6 SULFATE OF POTASH				
4219	BALLARD COUNTY COOPERATIVE			51.9	106.9
<b>DAVISON CHEMICAL CORP COLUMBUS OHIO</b>					
	3 12 12M				
4902	FRANKLIN GROCERY CO	3.1	11.5*	13.4	101.7
<b>DAVISON CHEMICAL CORP NASHVILLE TENN</b>					
	0 14 7M				
3392	YOUNGS FEED HOUSE		14.0	7.1	100.3
	0 20 20M				
4220	J B LUCAS SEED COMPANY		18.4*	18.9*	93.0*
	2 12 6M				
4585	HUGHES HARDWARE	2.9	12.1	7.0	110.6
4936	MORGANFIELD HARDWARE	2.3	12.1	6.4	104.3
	3 9 6M				
3520	C S BRENT SEED COMPANY	3.3	9.4	5.9	104.7
3634	HARDCASTLE & COMPANY	3.0	8.8	5.8	98.0
4372	BELL COUNTY SUPPLY	3.9	9.0	6.5	109.6
4567	YOUNGS SEED HOUSE	3.0	8.8	6.6	100.2
	3 9 18M				
4580	AUBURN SEED CO	3.2	9.0	18.1	101.2
	3 12 6M				
4570	FRANK SNODGRASS	3.1	11.9	7.0	102.7
	3 12 12M				
3582	T F KEENE & SONS	3.2	12.0	12.0	101.2
3635	WALTER NOE	3.1	12.1	11.4*	99.7
3796	GRAYS & BISHOP	3.1	12.2	12.7	102.9
3892	GRAVES COUNTY SOIL ASSN	3.1	11.9	11.8	99.7
4554	STOCKTON BROTHERS	3.2	11.7*	12.0	100.0
4569	FRANK SNODGRASS	3.2	11.8	11.8	100.2
	4 12 4M				
3521	C S BRENT SEED CO	3.9	11.9	4.8	100.6
3709	GENTRY MCCAULEY	4.0	11.6*	4.8	100.0
4373	BELL COUNTY SUPPLY	4.3	11.5*	4.7	101.6

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>DAVISON NASHVILLE CONTINUED</b>					
4 12 8M					
3710	SMITH & REYNOLDS COMPANY	4.5	12.2	8.6	1055
3797	FRANK SNODGRASS	3.8	12.3	8.9	1016
3893	MARSHALL COUNTY SOIL IMPROVE ASSN	4.0	12.0	8.0	1000
4588	BROWN SEED CLEANING CO	3.8	11.3*	8.6	965*
5 10 10M					
3522	LAND O'NAN WAREHOUSE	4.9	10.7	10.6	104.1
5 10 15S					
3583	J H LYON & SON	4.8	10.2	14.2*	978
3584	T F KEENE & SONS	4.8	9.9	15.0	1000
3636	WALTER NOE	4.7*	11.0	14.9	1017
3798	C S BRENT SEED COMPANY	5.3	11.1	14.0*(1)	1037
4221	CAMPBELLS MILL	4.9	10.4	14.4*	995
6 8 6M					
3711	SMITH & REYNOLDS COMPANY	5.5*	8.2	6.1	972
3894	MARSHALL COUNTY SOIL IMPROVE ASSN	5.2*	9.0	5.9	986
6 8 6S					
3523	FARMERS SUPPLY COMPANY	5.8	8.4	6.2	1005
3585	JEWELL & HAYDEN	5.9	8.1	6.3	1004
3712	I K MILLER & SON	5.7*	8.5	5.9	995
3799	C S BRENT SEED COMPANY	5.7*	8.5	7.9	1053
4566	YOUNGS SEED HOUSE	5.3*	9.0	6.2 (2)	1004
6 12 12M					
3713	SMITH & REYNOLDS COMPANY	5.9	12.2	12.1	1000
3714	SMITH & REYNOLDS COMPANY	5.6*	12.1	11.8	977
3800	ALLEN COUNTY FARMERS SERVICE	5.9	12.0	12.3	997
4374	BELL COUNTY SUPPLY	5.5*	12.1	12.4	986
4466	T W MOORE & SON	5.7*	12.1	12.8	998
10 10 10M					
3474	FARMERS HAY & GRAIN CO	9.6*	10.4	10.4	998
3524	LAND O'NAN WAREHOUSE	9.6*	10.3	10.5	1000
3715	SMITH & REYNOLDS COMPANY	9.7*	9.8	10.3	98.1
16 NITRATE OF SODA					
3525	C S BRENT SEED COMPANY	16.0			1000
33 AMMONIUM NITRATE					
3526	C S BRENT SEED COMPANY	33.3			1008
33 5 AMMONIUM NITRATE					
3716	CALLOWAY COUNTY SOIL IMPROV ASSN	33.4			996
3717	SMITH & REYNOLDS COMPANY	33.5			100.1
20 SUPERPHOSPHATE					
3318	FARMERS SUPPLY COMPANY		20.3		1015
3393	YOUNGS SEED HOUSE		20.8		1038
3801	GRAYS & BISHOP		21.1		1053
3895	WALKER SUPPLY CO		20.9		1043
4222	FARMERS GIN COMPANY		20.8		1040
4375	BELL COUNTY SUPPLY WAREHOUSE		20.2		1010
4738	AGEES FARM SUPPLY		19.7*		985
4935	MORGANFIELD HARDWARE		20.1		1005
50 SULFATE OF POTASH					
3802	GRAYS & BISHOP			51.5	1036
60 MURIATE OF POTASH					
3803	C S BRENT SEED COMPANY			59.9	99.9
4223	DEWEY STRICKLER			59.9	99.9
<b>DAVISON CHEMICAL CORP NEW ALBANY IND</b>					
0 12 12M					
3718	MCCARTY FARM SERVICE		12.3	11.9	101.1
4627	HENDERSON FEED & COMMISSION CO		11.7*	12.3	98.9
0 20 20M					
3896	R D REYNOLDS		20.2	20.5	101.4
4467	WILLIAM FISCHER		21.5	19.1*	103.6
4822	DIXIE STOCK FARMS		19.9	21.6	102.3
2 12 6M					
3394	LOVETT BROTHERS	2.3	11.8	6.7	103.7
3473	R D REYNOLDS	2.4	12.0	6.9	106.0
3991	JOE WILLIS	2.1	11.9	6.9	102.7
4224	HENDERSON FEED & COMMISSION CO	2.0	12.0	7.1	103.3
4364	BUECHEL PRODUCE EXCHANGE	2.4	12.0	6.6	104.8
4598	R D REYNOLDS	2.4	11.5*	6.5	102.2
4675	BRASHEARS MARKET	2.5	12.0	7.4	107.6
4682	MCCARTY FARM SERVICE	2.4	11.0*	7.1	100.3
4736	AGEES FARM SUPPLY	2.4	11.6*	7.5	105.5

(1) EXCESS MURIATE EQUIVALENT TO 0.8% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>DAVISON NEW ALBANY CONTINUED</b>					
<b>3 9 27M</b>					
4821	DIXIE STOCK FARMS	31	91	269	1010
<b>3 12 12M</b>					
3795	D B SAYLOR	30	120	119	996
4225	HOSKINS STORE	32	120	126	1025
4365	HANCOCKS FEED STORE	33	114*	120	994
4366	BOGGS MOTOR COMPANY	33	120	122	1024
4468	WILLIAM FISCHER	34	116*	133	1033
4577	CANEYVILLE ROLLER MILLS	34	117*	129	1034
4624	HENDERSON FEED & COMMISSION CO	33	122	133	1058
4737	AGEES FARM SUPPLY	34	119	126	1037
<b>4 16 16M</b>					
4226	HENDERSON FEED & COMMISSION CO	43	155*	157*	990
<b>5 10 15S</b>					
3395	LOVETT BROTHERS	49	106	153 (1)	1024
3472	R D REYNOLDS	50	104	155 (2)	1026
3992	F G BURD	52	105	154 (3)	1037
4227	EARLY DAY	51	101	150	1008
4367	SUMMERHAYES LUMBER & COAL CO	51	105	154 (4)	1034
4368	DUNCAN HUGHES COMPANY	50	118	148 (5)	1063
4469	WILLIAM FISCHER	47*	104	159 (6)	1019
4651	MCHORTER & BOYLE	51	114	155 (7)	1094
<b>5 20 20M</b>					
4576	CANEYVILLE ROLLER MILLS	40*	219	200	1009
<b>6 8 6M</b>					
3453	RURAL SUPPLY COMPANY	57*	88	65	1031
4369	RURAL SUPPLY CO	62	80	74	1049
4370	BUECHEL PRODUCE EXCHANGE	58	90	85	1099
4470	O D HAZELRIGG	60	80	75	1033
4621	HENDERSON FEED & COMMISSION CO	57*	79	90	1051
<b>6 8 6S</b>					
3317	THE BIG STORE	61	86	61	1037
3454	RURAL SUPPLY COMPANY	60	87	66	1046
3471	R D REYNOLDS	60	83	67	1030
3993	JOE WILLIS	59	82	69 (8)	1023
4371	SUMMERHAYES LUMBER & COAL COMPANY	59	89	67 (9)	1051
4597	R D REYNOLDS	62	84	75 (10)	1072
4623	HENDERSON FEED & COMMISSION CO	60	85	60	1022
4772	CLIMAX ROLLER MILLS	67	89	72 (11)	1128
<b>10 10 10M</b>					
4622	HENDERSON FEED & COMMISSION CO	102	100	104	1015
<b>12 12 12M</b>					
4596	V R SANDERS	115*	122	125	990
<b>20 SUPERPHOSPHATE</b>					
4625	HENDERSON FEED & COMMISSION CO		202		1010
<b>60 MURIATE OF POTASH</b>					
4626	HENDERSON FEED & COMMISSION CO			620	1034
<b>ELIZABETHTOWN FERTILIZER CO</b>					
<b>8 8 8M</b>					
4859	DYERS GENERAL STORE	82	75*	85	1001
<b>FEDERAL CHEMICAL CO HUMBOLDT TENN</b>					
<b>3 9 18M</b>					
4472	HICKMAN HARDWARE COMPANY	35	90	180	1029
<b>3 12 12M</b>					
4474	CLINTON HATCHERY	32	121	126	1032
<b>4 12 8M</b>					
3724	DAIRYMANS SUPPLY CO	43	120	84	1032
4229	MAYFIELD SHEET FEED MILL	42	119	84	1017
<b>4 12 8S</b>					
4230	CAMPBELLS HILL	46	117*	80	1030

(1) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 1.0% POTASH

(4) EXCESS MURIATE EQUIVALENT TO 1.5% POTASH

(5) EXCESS MURIATE EQUIVALENT TO 0.6% POTASH

(6) EXCESS MURIATE EQUIVALENT TO 0.6% POTASH

(7) EXCESS MURIATE EQUIVALENT TO 2.2% POTASH

(8) EXCESS MURIATE EQUIVALENT TO 1.0% POTASH

(9) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

(10) EXCESS MURIATE EQUIVALENT TO 2.6% POTASH

(11) EXCESS MURIATE EQUIVALENT TO 2.1% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>FEDERAL HUMBOLDT CONTINUED</b>					
3727	6 8 6M DAIRYHANS SUPPLY CO	5.8	8.2	6.7	100.8
4483	CLINTON HATCHERY	5.7*	8.5	7.4	103.4
4485	6 12 12M E W JAMES GROCERY COMPANY	6.3	11.8	12.6	101.7
4610	8 8 8M YOUNGBLOOD BROTHERS	7.2*	9.0	8.4	100.2
4609	20 SUPERPHOSPHATE YOUNGBLOOD BROTHERS		20.5		102.5
4611	50 SULFATE OF POTASH YOUNGBLOOD BROTHERS			51.6	103.3
4612	60 MURIATE OF POTASH YOUNGBLOOD BROTHERS			60.2	100.3
<b>FEDERAL CHEMICAL CO LOUISVILLE KY</b>					
3396	0 20 20M ROY C HARDESTY		20.0	19.3*	96.6
3719	2 12 6M DIXIE FEED COMPANY	2.4	11.2*	6.8	101.3
3397	3 9 6M A C BOGIE	3.4	9.3	7.5	110.3
3545	FARM & HOME STORE	3.5	9.0	7.0	107.7
3720	BIG SANDY WHOLESALE CO	3.3	9.3	6.6	105.5
3721	FLOYD DUDGEON	3.1	9.5	6.6	105.2
3722	DIXIE FEED COMPANY	3.4	9.0	6.7	105.9
3897	P J HONAKER	3.7	9.7	7.3	114.3
3994	GATLIFF CASH STORE	3.0	9.0	6.1	100.3
4376	FIECHTER HARDWARE COMPANY	3.3	9.7	7.8	112.2
4377	HALL SEED CO	3.5	9.5	8.2	114.3
4863	THE BIG STORE	2.9	9.0	5.9	99.0
3723	3 12 12M DIXIE FEED COMPANY	3.0	12.5	12.0	102.6
3805	BAYLESS FARM	2.7*	12.0	11.7*	97.0
3995	L L ARNOLD	2.8*	11.9	12.0	97.9
4378	A C BOGIE	3.0	11.9	11.9	99.0
4477	LYNN FLOOD	3.2	11.5*	12.6	99.9
4692	COOKS GROCERY	3.3	12.0	12.2	102.4
4740	LOYD ALEXANDER	2.8	12.0	12.6	99.7
4984	WILLIAM DUVALL	3.1	11.4*	12.4	98.4
3806	4 16 16M J B COBB & SONS	4.3	16.1	15.8	101.3
4657	NELSON ALEXANDER	4.1	15.5*	16.3	99.5
3725	5 10 10S U L ROGERS & SONS	4.8	10.2	10.5 (1)	100.9
3898	W T RENAKER	4.8	10.4	10.5	101.3
3899	A RAY DYER GENERAL MDSE	4.9	10.7	10.4 (2)	103.2
3308	5 10 15S DAVENPORT FARM SUPPLY	4.7*	11.1	16.1 (3)	104.6
3399	ROY C HARDESTY	5.1	10.8	15.6 (4)	104.8
3400	A C BOGIE	5.1	10.1	15.0 (5)	101.3
3498	BENSON VALLEY MLC CO	4.9	10.6	15.6	102.8
3726	FARMERS SUPPLY COMPANY	5.1	10.4	14.9	101.9
3807	FIECHTER HARDWARE	5.2	10.0	16.2	103.6
3808	THOMERSON MILLING COMPANY	4.9	10.6	13.6*	98.9
3900	GRAYSON MILLING COMPANY	4.6*	11.1	14.4*	100.6
3996	HERBERT WEBB	4.5*	10.8	14.5*	99.4
3997	L L ARNOLD	5.1	10.0	15.8	102.3
4231	T P BLACK	5.0	10.8	15.2	103.5
4232	J B BARNES	5.3	10.1	15.0	102.2
4481	STAMPER & CECIL	5.1	10.1	16.0	103.1
4599	THOMERSON MILLING CO	5.0	10.0	14.6*	99.2
3728	6 8 6M BIG SANDY WHOLESALE COMPANY	6.1	8.4	6.7	104.8
3901	CAMPBELL WHOLESALE	6.1	8.6	7.3	107.0
3902	KENTUCKY STATE INDUSTRIAL COLLEGE	5.9	8.9	6.8	105.6
3903	W T RENAKER	5.9	8.6	7.1	105.1
3904	GRAYSON MILLING CO	5.8	8.7	7.6	105.6
4658	NELSON ALEXANDER	6.1	8.4	7.2	105.4
4711	FAULKERS SUPERMARKET	5.3*	8.9	8.1	104.2
4864	THE BIG STORE	5.9	8.5	6.9	104.0

(1) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

(4) EXCESS MURIATE EQUIVALENT TO 1.5% POTASH

(5) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>FEDERAL LOUISVILLE CONTINUED</b>					
<b>6 8 6S</b>					
3307	DAVENPORT FARM SUPPLY	43*	95	79 (1)	99.4
3401	HALL SEED COMPANY	6.0	82	71	103.3
3402	A C BOGIE	6.0	89	75 (2)	107.6
3499	BENSON VALLEY MILLING CO	6.1	87	72	107.2
3729	CARL J HAGMAN	5.6*	84	79 (3)	103.2
3809	FIECHTER HARDWARE	6.2	84	69	105.2
3905	P J HONAKER	5.9	8.6	7.0	104.9
3906	HALLS FEED STORE	6.0	8.7	6.7	104.9
3998	CRAFT GROCERY	6.1	8.3	6.8	104.0
4234	T P BLACK	6.0	8.1	6.4	101.6
4690	THE MIDGET MILL	6.0	8.5	6.7 (4)	104.0
4739	LOYD ALEXANDER	5.3*	9.2	7.3	103.7
4865	THE BIG STORE	5.9	8.3	6.9	103.2
<b>8 8 8M</b>					
3730	U L ROGERS & SONS	7.6*	8.8	8.3	101.0
<b>10 10 10M</b>					
3811	BAYLESS FARM	9.8	10.5	9.9	100.3
3907	GRAYSON MILLING COMPANY	10.0	10.1	10.3	100.6
4237	ALLENSVILLE GRAIN COMPANY	9.7*	10.2	10.0	99.1
4238	ROBERTS BROTHERS FEED MILL	9.9	10.0	9.4*	98.3
4488	J A BENNETT HARDWARE	10.1	9.9	10.1	100.4
4656	M C ROBERTS COAL & FEED CO	9.5*	10.4	10.1	98.9
<b>20 SUPERPHOSPHATE</b>					
3594	FARMERS CASH STORE		20.0		100.0
3731	CARL J HAGMAN		20.5		102.5
3908	GRAYSON MILLING COMPANY		20.8		103.8
3909	A RAY DYER GENERAL HDSE		20.2		100.8
3999	HERBERT WEBB		19.9		99.5
4100	L L ARNOLD		19.8		99.0
4600	THOMERSON MILLING CO		19.9		99.5
<b>50 SULFATE OF POTASH</b>					
3595	FARMERS CASH STORE			52.1	104.2
3812	J B COBB & SONS			51.2	102.4
3910	P J HONAKER			51.2	102.6
4101	HIGHWAY MARKET			50.4 (5)	100.7
<b>FEDERAL CHEMICAL CO NASHVILLE TENN</b>					
<b>2 12 6M</b>					
3637	ALLEN & JENKINS	2.4	12.1	5.9	103.6
4471	THOMERSON MILLING COMPANY	2.4	11.6	6.6	102.0
<b>3 9 6M</b>					
3804	GRAYS & BISHOP	3.1	9.7	6.1	105.3
<b>3 9 18M</b>					
4473	EDWARD C BRYANT	3.0	9.2	17.2*	98.9
<b>3 12 12M</b>					
3398	ESTES & SHIRLEY	3.3	12.2	12.3	103.1
4475	THOMERSON MILLING COMPANY	3.4	12.0	11.7*	101.7
4476	BASIL M BROOKS	3.5	11.9	12.3	103.8
<b>4 12 8M</b>					
4228	PENN MERCANTILE COMPANY	3.9	12.0	8.8	100.9
4628	WOOSLEY GENERAL STORE	4.6	11.5*	8.7	103.1
<b>5 10 10M</b>					
4478	BASIL M BROOKS	5.1	10.1	10.1	101.1
<b>5 10 10S</b>					
3638	BOND FEED MILL	5.0	10.0	10.2 (6)	100.4
4479	BASIL M BROOKS	5.1	10.0	11.1	103.4
<b>5 10 15S</b>					
4480	BASIL M BROOKS	4.8	10.1	14.4 (7)	98.1
4482	EDWARD C BRYANT	5.1	10.4	14.6*	101.2
<b>6 8 6M</b>					
3810	COOK & MOORE	5.5*	8.8	6.4	98.3
4642	H B LE NEAVE & SON	5.9	8.0	6.1	99.5
<b>6 8 6S</b>					
3639	J M EDWARDS & SON	5.8	8.1	6.8	100.8
4233	ESTES & SHIRLEY	5.8	8.2	7.2 (8)	102.3
4484	BASIL M BROOKS	6.7	8.3	6.9 (9)	108.9

(1) EXCESS MURIATE EQUIVALENT TO 3.6% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 1.0% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 1.4% POTASH

(4) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

(5) EXCESS MURIATE EQUIVALENT TO 0.6% POTASH

(6) EXCESS MURIATE EQUIVALENT TO 0.8% POTASH

(7) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH

(8) EXCESS MURIATE EQUIVALENT TO 0.6% POTASH

(9) EXCESS MURIATE EQUIVALENT TO 2.3% POTASH

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>FEDERAL NASHVILLE CONTINUED</b>					
	<b>6 12 12M</b>				
4235	W D WATTS	6.0	12.2	11.9	100.8
4486	BASIL M BROOKS	5.8	12.0	11.8	98.2
	<b>8 8 8M</b>				
4236	WILLIAM C WATSON	8.0	8.2	8.3	101.2
4487	BASIL M BROOKS	7.8	8.5	8.3	101.6
4643	H B LENEAVE & SON	7.6*	8.8	8.4	101.8
	<b>10 10 10M</b>				
4929	HENDERSON FARMERS SUPPLY CO	9.6*	10.2	10.4	99.1
	<b>20 SUPERPHOSPHATE</b>				
3403	ESTES & SHIRLEY		20.8		104.3
4489	BASIL M BROOKS		19.5*		97.3
	<b>50 SULFATE OF POTASH</b>				
3813	CLIFTON WELLS			49.9	99.8
4239	ESTES & SHIRLEY			51.2	102.5
4490	BASIL M BROOKS			51.4	102.9
<b>FERTILENE CORP OF AMERICA</b>					
	<b>10 15 5M LIQUID</b>				
4136	J L OLDS	9.5	12.5	14.6*	136.1
	<b>5 10 15S LIQUID</b>				
4128	ECTON SUPPLY COMPANY	11.0	16.3	5.0	108.7
4137	MAYES HELM & COYLE	10.0	15.5	5.1	101.4
4138	WEST END SEED COMPANY	11.1	16.0	5.2	108.3
4765	FARMERS UNION HILL	11.2	17.1	5.1	112.1
4767	FARMERS UNION HILL	11.4	17.0	5.0	112.6
4768	CAUDILL SEED COMPANY	11.6	16.1	5.2	111.0
	<b>32 NITROGEN SOLUTION</b>				
3814	J B COBB & SONS	31.0*			96.9*
4127	ECTON SUPPLY COMPANY	31.0*			96.9*
4129	FRANK BALLARD	31.7			99.1
4130	J L OLDS	30.8*			96.2*
4131	MAYES HELM & COYLE	30.0*			93.8*
4132	THE T J TURLEY CO	30.6*			95.6*
4133	YOUNG BROTHERS FEED	31.8			99.1
4134	WEST END SEED CO	31.8			99.1
4135	FRANK BALLARD	31.6			98.6
4428	STAUTS FEED STORE	30.2*			94.4*
4429	SHEPHERDSVILLE FEED MILL	30.5*			95.3*
4555	FERGERTSON BROTHERS	30.6*			95.6*
4766	FARMERS UNION HILL	30.5*			95.3*
4769	CAUDILL SEED COMPANY	30.3*			94.5*
4799	SOUTHERN STATES FRANKFORT COOP	31.6			98.7
4800	EVERETTE O NAN & SON	31.7			99.2
<b>HUTSON CHEMICAL CO</b>					
	<b>4 12 8M</b>				
3911	WARREN SEED COMPANY	4.3	12.1	8.7	103.9
4240	FARMERS GIN COMPANY	4.6	11.9	7.8*	101.4
4491	T W MOORE & SON	4.4	11.9	8.2	102.4
	<b>5 20 20M</b>				
4633	LIVINGSTON COUNTY SOIL IMPROV ASSN	4.6*	18.6*	20.9	96.1*
	<b>6 12 12M</b>				
3912	WARREN SEED COMPANY	6.0	12.1	11.7*	99.5
	<b>8 8 8M</b>				
4492	T W MOORE & SON	7.7*	8.2	8.4	100.0
	<b>50 SULFATE OF POTASH</b>				
3913	WARREN SEED COMPANY			51.0	102.1
<b>HYDROPONIC CHEMICAL CO INC</b>					
	<b>7 6 19</b>				
3815	BEN FRANKLIN STORE	7.4	7.4	20.7	110.8
<b>INTERNATIONAL MIN &amp; CHEM GREENVILLE</b>					
	<b>3 9 6M</b>				
3734	HARLAN FRUIT CO	3.0	9.5	6.0	102.5
4681	HARLAN FRUIT CO	3.0	8.9	6.4	100.6
	<b>5 10 5M</b>				
3735	WHITESBURG FARM SERVICE	5.2	10.0	5.2	101.4
4662	LEWIS WHOLESALE GROCERY	4.9	10.1	5.4	101.0
4680	HARLAN FRUIT CO	4.7*	10.1	5.8	100.2



TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>INTERNATIONAL MIN &amp; CHEM CHICAGO</b>					
3593	48 6 SULFATE OF POTASH CASH VARIETY STORE			515	1060
<b>INTERNATIONAL MIN &amp; CHEM CINCINNATI</b>					
3455	0 12 12M FARM & HOME SUPPLY		126	122	1040
4242	2 12 6M JOHN A SHEEHAN	23	119	72	1046
4910	T J LAWSON HARDWARE CO	22	116*	65	1009
4245	3 9 18M FARMERS COOPERATIVE STORE	33	85*	181	1003
3291	3 12 12M SPRINGFIELD FEED & GRAIN CO	30	120	128	1017
3527	BURNETT IMPLEMENT COMPANY	32	124	130	1050
3588	SPRINGFIELD FEED & GRAIN CO	33	120	131	1044
4246	BURLINGTON LUMBER & BUILDERS SUPPLY	28	119	136	1013
4379	RICHARDSON & STEWART CO	29	125	145	1071
4493	J C ELDRIDGE	31	120	125	1016
4247	4 12 8M JOHN A SHEEHAN	40	115*	86	985
3589	4 12 8S SPRINGFIELD FEED & GRAIN CO	40	113*	82	967
4248	FARMERS COOPERATIVE STORE	39	117*	81	978
4731	ANDREW PORTER	39	128	84	1033
4912	J T LAWSON HARDWARE CO	41	120	83	1009
4919	STANLEY GALBRAITH & SON	41	121	81	1012
3590	5 10 10M SPRINGFIELD FEED & GRAIN CO	50	101	110	1024
4249	FARMERS COOPERATIVE STORE	51	104	108	1042
4730	ANDREW PORTER	49	100	113	1023
4252	5 20 20M FARMERS COOPERATIVE STORE	51	179*	202	952*
4494	J C ELDRIDGE	46*	214	175	985
4253	6 8 6S BARNETT SULLIVAN COMPANY	61	91	107	1180
4254	CORNELIUS GARAGE	62	94	112	1215
4255	FARMERS COOPERATIVE STORE	60	95	89	1146
4381	WALKER GREER	61	85	59	1028
4382	RICHARDSON & STEWART CO	61	83	70	1047
4495	WHEELERS GENERAL STORE	56*	93	87	1100
3591	6 8 16S SPRINGFIELD FEED & GRAIN CO	60	87	148*	1004
3914	JETT COAL & SUPPLY CO	61	88	152*	1020
4256	BARNETT SULLIVAN COMPANY	59	83	151*	990
4383	RICHARDSON & STEWART CO	60	81	150*	983
4496	STEVE ROSE	60	85	147*	996
4497	COOPER BROTHERS FEED STORE	60	80	159	996
4911	T J LAWSON HARDWARE CO	57*	92	147*(7)	1003
4257	6 12 12 3M 9S FARMERS COOPERATIVE STORE	61	116*	136	1020
4258	BARNETT SULLIVAN COMPANY	61	120	126	1014
4259	BURLINGTON LUMBER & BUILDERS SUPPLY	61	123	124	1023
4384	RICHARDSON & STEWART CO	61	119	127	1016
4385	WALKER GREER	60	115*	121	982
4498	WHEELER GENERAL STORE	60	117*	124	996
4260	10 10 10M FARMERS COOPERATIVE STORE	96*	107	109	1020
4499	WHEELER GENERAL STORE	101	104	106	1029
4914	16 NITRATE OF SODA J T LAWSON HARDWARE CO	160			1000

- (1) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH  
(2) EXCESS MURIATE EQUIVALENT TO 5.7% POTASH  
(3) EXCESS MURIATE EQUIVALENT TO 4.7% POTASH  
(4) EXCESS MURIATE EQUIVALENT TO 3.9% POTASH  
(5) EXCESS MURIATE EQUIVALENT TO 1.3% POTASH  
(6) EXCESS MURIATE EQUIVALENT TO 3.9% POTASH  
(7) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>INTERNATIONAL CINCINNATI CONTINUED</b>					
	20 SUPERPHOSPHATE				
4261	FARMERS COOPERATIVE STORE		20.4		102.0
4262	JACK SHIRLEY		20.3		101.5
4263	GEORGE P TAYLOR COMPANY		20.4		102.0
4386	BAUGHMAN MILLING CO		20.4		102.0
4387	RICHARDSON & STEWART CO		20.5		102.5
4500	J C ELDRIDGE		20.2		101.0
4686	GIBSON FARM & HOME SERVICE		20.8		104.0
	48 6 SULFATE OF POTASH				
4501	J C ELDRIDGE			47.7*	98.2
	49 SULFATE OF POTASH				
4650	FARMERS COOP STORE			52.6	107.5
<b>INTERNATIONAL MIN &amp; CHEM CLARKSVILLE</b>					
	3 12 12M				
4648	FARMERS COOP STORE	3.5	12.1	11.8	102.9
	4 12 8M				
4942	T R ACKRIDGE	4.3	11.9	8.7	102.8
	5 10 15S				
4649	FARMERS COOP STORE	4.6*	10.1	15.5	98.7
	20 SUPERPHOSPHATE				
4647	FARMERS COOP STORE		19.4*		96.8
<b>INTERNATIONAL MIN &amp; CHEM SOMERSET</b>					
	0 14 7M				
3732	U L ROGERS & SONS		14.0	7.6	101.4
	0 20 20M				
3733	U L ROGERS & SONS		20.6	20.1	102.0
4241	DUNNINGTON MILLING COMPANY		20.0	20.2	100.6
4556	CLAUDE BECK'S SERVICE STATION		19.8	20.4	100.0
	2 12 6M				
3404	U L ROGERS & SONS	2.0	12.2	6.6	103.0
3586	C M SANDIDGE	2.1	11.9	6.5	101.9
4557	CLAUDE BECK SERVICE STATION	2.1	12.0	6.5	102.1
4687	GIBSON FARM & HOME SERVICE	2.1	11.9	6.2	101.2
	3 9 6M				
4243	H S ALLEN COMPANY	2.7*	8.9	6.1	96.6
4244	GEORGE P TAYLOR CO	2.7*	9.0	6.4	99.0
	3 12 12M				
3587	C M SANDIDGE	2.9	12.3	13.7	104.5
	4 12 8M				
3405	U L ROGERS & SONS	3.7	11.6*	8.6	97.4
3816	HIATT & PARSONS	3.9	12.2	8.8	102.1
	4 12 8S				
3817	SAUFLEY & BELL	4.2	11.6*	8.7	100.9
	5 10 15S				
3406	C M SANDIDGE	4.6*	10.5	15.2	100.2
4250	SOMERSET SEED CO	5.1	10.5	15.1 (1)	102.5
4251	DUNNINGTON MILLING CO	5.1	10.1	15.2	101.2
4380	GARRARD HILLS	5.0	9.7*	16.1	101.0
4553	EDWARD BRYANT	5.0	10.6	14.6*	101.2
	5 20 20M				
3818	STRADERS DAIRY	5.0	19.7*	20.1	99.3
4753	BARNETTS FARM SUPPLY	4.8	19.0*	21.7	98.7
	6 8 6S				
3819	HIATT & PARSONS	6.1	8.9	6.0	104.6
	6 12 12 3M 9S				
3592	RALPH HOVIOUS	5.5*	12.2	12.3	98.6
3820	STRADERS DAIRY	5.9	12.2	12.5	100.8
4691	INTERNATIONAL MINERALS & CHEM CORP	5.8	11.9	11.5*	97.3
	48 SULFATE OF POTASH				
3821	STRADERS DAIRY			48.6	101.4
	48 6 SULFATE OF POTASH				
3407	AMBURGEYS FARM SUPPLY			47.7*	98.2
3736	BUCKHORN COAL COMPANY			51.4	105.8
	60 MURIATE OF POTASH				
4560	U C JAMES & SON			60.1	100.2

(1) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>KENTUCKY FERTILIZER WORKS</b>					
	3 9 6M				
3546	CHAS CORNWELL	33	9.0	6.0	1026
3737	MERCHANTS GROCERY CO	33	9.0	5.9	1022
4502	STEVE ROSE	32	8.7*	6.4	1013
4905	ASHLAND GROCERY CO	30	8.4*	6.4	976
	3 12 12M				
4654	ROBINSON & TURLEY	31	11.8	12.8	1013
4875	HAYDON COAL & OIL CO	34	11.5*	12.5	1013
	4 6 15S				
4976	HAYDON COAL & OIL CO	42	6.5	14.7*	1031
	4 12 12S				
4735	AGEES FARM SUPPLY	42	13.1	11.1*GR	1040
	5 10 15S				
3596	HAYDON COAL & OIL COMPANY	50	10.1	15.4	1015
4721	PAINTSVILLE GROCERY	55	9.9	15.7	1038
	6 8 6M				
3738	MERCHANTS GROCERY CO	63	7.0*	7.3	1006
3915	ROBINSON & TURLEY	63	7.6*	7.4	1041
	6 8 6S				
3547	CHAS CORNWELL	60	8.0	6.4	1009
3597	FARMERS SUPPLY CO	60	8.1	6.6	1014
4265	FARMERS SUPPLY CO	59	8.1	6.7	1018
4503	THOMAS RICHARDSON	62	8.1	6.2	1025
4653	E C TUSSEY	60	7.9	6.6	1008
	6 8 16S				
4266	FARMERS SUPPLY CO	63	8.1	16.4	1029
4652	E C TUSSEY	61	8.2	16.1	1013
	33 5 AMMONIUM NITRATE				
3548	CHAS CORNWELL	33.8			1009
	20 SUPERPHOSPHATE				
3456	ROBINSON & TURLEY		20.2		1010
	50 SULFATE OF POTASH				
3598	FARMERS SUPPLY CO			50.0	1000
	60 MURIATE OF POTASH				
3916	SOUTHERN STATES FRANKFORT COOP			61.2	1019
4267	FARMERS SUPPLY CO			60.4	100.7
<b>KNOXVILLE FERTILIZER CO LONDON KY</b>					
	0 12 12M				
3457	M C ROBERTS COAL & FEED CO		12.9	12.8	1071
3917	FIKE FARM SUPPLY		11.7*	13.7	1031
4562	CITY SUPPLY CO		11.9	12.2	1000
	0 20 20M				
3599	HOBERT & MILTON ROBERTS		20.2	20.8	1031
4389	O S ANTLE		21.0	21.0	1050
	0 20 20M 3LB BORAX PER 100				
4388	O S ANTLE (2)		16.5*	27.3	100.5
	2 12 6M				
4684	BECKHAM GARLAND	2.3	11.5*	6.3	1006
	3 9 6M				
3741	CARTER & SADLER WHOLESAL	3.0	10.1	7.2	110.7
3918	POWELL HACKNEY GROCERY	3.2	9.9	6.9	109.7
4102	STAGGS BROTHERS	3.0	9.8	6.7	106.5
4268	ROSCOE MORRIS	3.0	8.8	6.7	100.8
4659	POWELL HACKNEY GROCERY	3.0	8.6*	6.2	97.7
4667	LAUREL GROCERY CO	3.1	9.1	6.4	102.6
4713	CARTER & SADLER WHOLESAL	3.0	8.8	6.7	100.7
	3 9 6S				
3347	CLAY COUNTY FARM SERVICE	3.1	9.4	6.8	106.0
3458	M C ROBERTS COAL & FEED CO	3.3	9.4	6.9	107.4
3823	FARMERS FEED & SUPPLY CO	3.3	8.7*	6.3	102.4
4506	BILL GUARLES	3.3	8.6*	6.9	102.9
	3 9 18S				
3600	HOBERT & MILTON ROBERTS	3.2	8.7*	18.4	100.9
3601	BARNETT SULLIVAN & CO	3.0	9.1	18.1	100.8
4507	BILL GUARLES	3.3	9.0	19.0	103.8

(1) EXCESS MURIATE EQUIVALENT TO 1.4% POTASH  
 (2) BORON GUARANTEED 0.34% ----- found 0.29%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<b>KNOXVILLE LONDON CONTINUED</b>					
3824	3 12 12M CASH & CASS	3.0	12.2	12.4	101.4
4271	WALKER BROTHERS	3.1	12.0	13.0	102.6
4390	SANDERS SUPPLY	3.1	11.7*	11.4*	97.6
4695	3 12 12M 3LB BORAX PER 100 HOBART & MILTON ROBERTS (1)	3.3	11.7*	12.0	100.7
3528	4 8 12S A L SHROPSHIRE	4.0	8.9	13.0	106.7
3602	BARNETT SULLIVAN & CO	4.0	8.5	12.7	104.0
4273	W C TURNER	4.0	8.6	12.3	103.8
4676	4 12 4M JELLICO GROCERY	4.6	11.7*	5.1	105.2
4694	HOBART & MILTON ROBERTS	4.2	12.1	4.8	104.3
4664	4 12 8M H & H WHOLESALE	4.1	11.6*	9.0	101.3
4668	BAIRD & BRUNETT	4.1	11.5*	8.7	100.2
4274	4 12 8S VALLEY HILL STORE	4.2	10.8*	8.6	97.1
3603	4 12 12S KENNEDY SUPPLY	4.2	12.0	12.3 (2)	101.7
3642	5 10 5M ROSCOE MORRIS	4.9	10.3	6.2	103.4
3743	LEWIS WHOLESALE	5.2	10.0	5.6	102.5
3922	H & H WHOLESALE	4.9	10.2	5.7	101.8
4512	BILL GUARLES	5.0	10.1	5.2	101.0
4392	5 10 10M SANDERS SUPPLY	4.4*	10.8	13.1	106.2
3604	5 10 15S KENNEDY SUPPLY	5.0	10.4	15.8	103.3
4393	O S ANTLE	5.1	9.9	16.4	102.8
4559	CURTIS & MCCOMAS NO 3	5.0	10.0	15.6	101.3
4673	BAIRD & BRUNETT	4.8	10.2	15.0	99.2
4759	BILL LOGAN	5.1	10.2	15.4	102.1
4982	CAREY A SHEETS	5.1	9.7*	14.1*	97.7
4277	6 6 18S WALKER BROTHERS	6.2	6.7	18.0	104.0
3605	6 8 6M BARNETT SULLIVAN CO	6.0	8.1	6.4	101.5
3744	CARTER & SADLER WHOLESALE	6.2	8.1	6.3	102.6
4278	M R CARRIGAN & CORRELL	6.1	8.1	6.3	102.0
4714	CARTER & SADLER WHOLESALE	6.1	8.1	6.6	102.6
3606	6 8 6S A P VAUGHT & CO	5.7*	8.1	7.0	100.6
3825	FAYETTE SEED COMPANY	6.0	8.9	6.5	105.5
4394	THE EARLY & DANIEL CO	6.1	7.9	6.7	101.6
3531	8 6 10M A L SHROPSHIRE	7.9	6.8	10.1	102.6
3532	8 8 8M A L SHROPSHIRE	7.8	8.5	8.4	101.1
4558	CURTIS & MCCOMAS NO 3	9.9	10.1	10.2	125.2
4663	10 10 10M CASH WHOLESALE CO	9.6*	11.0	9.8	101.2
4720	PAINTSVILLE GROCERY	9.3*	10.6	10.0	98.5
4775	O S ANTLE	9.6*	10.8	10.0	100.7
3826	33 5 AMMONIUM NITRATE FAYETTE SEED COMPANY	33.2			99.2
3408	20 SUPERPHOSPHATE AMBURGEYS FARM SUPPLY		20.8		104.0
3607	JOHN J CARTER		20.5		102.5
4395	MT VERNON PRODUCE COMPANY		19.9		99.5
4396	60 MURIATE OF POTASH O S ANTLE			55.6*	92.6*
<b>KNOXVILLE FERTILIZER CO KNOXVILLE</b>					
4679	3 9 6M BALL BROTHERS	4.0	9.8	6.2	114.1
3643	46 SUPERPHOSPHATE FARMERS FEED MARKET		46.5		101.1

(1) BORON GUARANTEED 0.34% ----- found 0.39%

(2) EXCESS MURIATE EQUIVALENT TO 1.4% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
KNOXVILLE FERTILIZER CO NASHVILLE		(Percent)	(Percent)	(Percent)	
	0 12 12M				
3739	EDWARD BRYANT		12.6	12.6	105.2
4645	WYNDALLS FARM STORE		12.1	12.0	100.8
	0 20 20M				
3640	FARMERS FEED MARKET		20.1	19.7*	99.8
4590	FARMERS FEED MARKET		19.8	19.7*	98.9
	2 12 6M				
3740	FARMERS FEED MARKET	2.4	12.0	7.7	108.4
	2 12 12M 3LB BORAX PER 100				
3641	FARMERS FEED MARKET (1)	3.2	12.2	11.9	108.9
4504	BUGG BROTHERS FEED & SUPPLY CO (2)	2.7	11.8	12.8	105.9
	3 9 6M				
4269	WYNDALLS FARM STORE	2.9	9.0	6.6	101.1
4505	G H BOWLES & SONS	3.4	10.6	6.6	114.7
	3 9 6S				
3919	WYNDALLS FARM STORE	3.2	10.0	6.7	109.8
4270	JACK SHIRLEY	3.2	9.7	6.8	108.5
	3 9 18S				
3920	W C STUART	3.2	10.2	15.3*(3)	100.9
4579	AUBURN SEED CO	3.3	9.5	17.9 (4)	104.2
	3 12 12M				
3921	WYNDALLS FARM STORE	2.9	12.2	12.4	101.1
4508	BUGG BROTHERS FEED & SUPPLY CO	3.2	12.6	11.8	103.3
4509	G H BOWLES & SONS	3.9	12.2	12.2	107.0
4805	G H BOWLES & SON	3.1	12.0	11.2*	99.1
	3 12 12S				
4927	WYNDALLS FARM STORE	3.2	14.1	11.3*	108.9
	4 8 8M				
4272	COVINGTON GRAIN & SEED CO	4.0	8.6	8.5	104.9
	4 12 8M				
4391	GRAYSON COMPANY SUPPLY	4.3	12.9	9.2	108.9
4581	AUBURN SEED CO	4.3	11.5*	8.4	100.8
	4 12 8S				
3742	FARMERS FEED MARKET	4.8	12.1	8.2	105.9
4510	ROCKS FARM CENTER	4.7	11.5*	8.7	104.2
	4 12 12M				
4511	BUGG BROTHERS FEED & SUPPLY CO	3.5*	12.2	12.2	98.1
	4 16 16M				
4275	WYNDALLS FARM STORE	3.5*	16.1	14.1*	94.6*
	5 10 5M				
4276	WYNDALLS FARM STORE	5.1	10.9	6.0	107.4
	5 10 10M				
4513	BUGG BROTHERS FEED & SUPPLY CO	4.6*	10.7	10.0	100.7
	5 10 10S				
3923	WYNDALLS FARM STORE	4.9	10.8	11.2 (5)	105.1
	5 10 15S				
4514	G H BOWLES & SONS	5.4	10.4	14.4*(6)	102.7
	6 6 18S				
4515	BILL QUARLES	5.9	7.3	17.9 (7)	104.5
	6 8 6M				
3924	WYNDALLS FARM STORE	6.0	10.0	6.9	111.6
4516	BUGG BROTHERS FEED & SUPPLY CO	6.1	9.5	7.3	111.0
4517	ROCKS FARM CENTER	5.9	8.8	7.4	106.6
4589	FARMERS FEED MARKET	5.7*	10.1	6.7	109.8
	6 8 6S				
3346	CLAY COUNTY FARM SERVICE	5.5*	8.9	6.7	101.7
3529	FAYETTE SEED CO	5.6*	8.7	6.6	102.1
3745	EDWARD BRYANT	5.9	8.2	6.0	100.5
3925	WYNDALLS FARM STORE	5.7*	9.6	7.6 (8)	109.3
	6 12 12M				
4518	BUGG BROTHERS FEED & SUPPLY	5.6*	12.1	11.8	97.4

(1) BORON GUARANTEED 0.34% ----- found 0.29%  
 (2) BORON GUARANTEED 0.34% ----- found 0.36%  
 (3) EXCESS MURIATE EQUIVALENT TO 1.8% POTASH  
 (4) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH  
 (5) EXCESS MURIATE EQUIVALENT TO 1.5% POTASH  
 (6) EXCESS MURIATE EQUIVALENT TO 0.7% POTASH  
 (7) EXCESS MURIATE EQUIVALENT TO 0.5% POTASH  
 (8) EXCESS MURIATE EQUIVALENT TO 1.3% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b><u>KNOXVILLE NASHVILLE CONTINUED</u></b>					
3530	8 6 10M A L SHROPSHIRE	76*	6.6	10.9	102.0
4519	10 10 10M RUBY THOMAS	7.8*	11.0	9.2*	90.8*
4820	DIXIE STOCK FARMS	9.7*	10.6	10.3	100.8
3926	16 NITRATE OF SODA WYNDALLS FARM STORE	16.4			102.2
3929	20 5 AMMONIUM NITRATE LIMESTONE WYNDALLS FARM STORE	20.6			100.9
3827	20 SUPERPHOSPHATE CASH & CASS		21.1		105.5
3927	WYNDALLS FARM STORE		20.6		103.0
4520	RUBY THOMAS		19.3*		96.3
4521	C H BOWLES & SONS		19.4*		97.0
4804	C H BOWLES & SON		19.6*		97.9
3928	48 SULFATE OF POTASH WYNDALLS FARM STORE			52.1	108.5
4279	FARMERS FEED MARKET			49.6	103.3
4522	60 MURIATE OF POTASH BUGG BROTHERS FEED & SUPPLY CO			61.2	102.1
4646	WYNDALLS FARM STORE			59.7	99.5
<b><u>LAND O NAN WAREHOUSE STURGIS KY</u></b>					
5163	5 20 20M LAND O NAN WAREHOUSE	5.1	21.9	18.1*	102.5
4632	6 8 6M LAND O NAN WAREHOUSE	5.9	8.0	6.6	100.5
5157	6 24 24M LAND O NAN WAREHOUSE	5.9	26.2	22.2*	102.6
5161	15 15 15M LAND O NAN WAREHOUSE	14.2*	15.6	16.4	100.2
<b><u>LION OIL CO</u></b>					
3356	33 5 AMMONIUM NITRATE TRUMAN HOLLINSWORTH & CO	33.4			99.7
<b><u>LOUISVILLE FERTILIZER CO</u></b>					
4523	0 20 20M H D JONES		19.9	20.1	99.8
3828	2 12 6M H D JONES	2.0	12.2	6.2	101.6
4803	H D JONES	2.0	11.8	6.3	100.0
3829	3 12 12M H D JONES	2.8	12.3	12.0	99.8
4524	4 12 8S H D JONES	4.6	11.8	9.1	106.0
3830	5 10 15S H D JONES	4.8	10.5	15.5	100.0
4802	H D JONES	5.0	10.5	14.6*	101.0
3831	20 SUPERPHOSPHATE H D JONES		20.2		101.0
<b><u>J A MCCARTY SEED CO</u></b>					
4926	60 MURIATE OF POTASH FARMERS COOP STORE			60.0	100.0
<b><u>MATHIESON CHEM CORP MORGANTOWN W VA</u></b>					
4832	82 ANHYDROUS AMMONIA MIDWEST AMMONIA & CHEMICAL CO	82.0			100.0
<b><u>MISSOURI PLANT FOOD CO INC</u></b>					
4525	3 12 12M T W MOORE & SON	3.4	12.1	13.0	105.7

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>MISSOURI PLANT FOOD CONTINUED</b>					
	4 12 8M				
4613	BROADWAY MARKET	4.0	11.7*	8.9	100.3
4615	BARDWELL SWEET FEED MILL	4.0	11.7*	8.6	99.5
	6 8 6S				
4280	CAMPBELLS HILL	6.0	8.7	6.3	104.3
4281	COOPER SEED & FEED STORE	6.3	8.8	6.7	107.8
	6 12 12M				
4526	T W MOORE & SON	6.1	12.2	13.4	103.8
4616	BARDWELL SWEET FEED MILL	6.0	12.0	14.4	104.2
	12 12 12M				
4282	COOPER SEED & FEED STORE	11.2*	12.8	12.8	99.8
4617	BARDWELL SWEET FEED MILL	11.8	12.3	12.0	99.8
	33 5 AMMONIUM NITRATE				
4614	BROADWAY MARKET	33.6			100.5
	50 SULFATE OF POTASH				
4283	COOPER SEED & FEED STORE			51.1	102.2
<b>MONSANTO CHEMICAL CO</b>					
	20 20 20				
4527	N T NUCKOLS	19.6*	20.9	20.6	101.0
<b>NA CHURS PLANT FOOD CO</b>					
	5 10 5M LIQUID				
3930	FARM & HOME SUPPLY	5.4	10.5	5.5	106.6
	7 14 7 LIQUID				
4583	SHAKER FEED & SEED CO	6.9	13.1*	8.0	97.9
<b>NATIONAL CHEMICAL CO</b>					
	0 20 20M				
4284	SHIPPS SEED HOUSE		19.9	19.7*	99.0
	4 16 16M				
4285	SHIPPS SEED HOUSE	4.2	15.9	16.6	101.5
	5 10 15S				
4286	SHIPPS SEED HOUSE	5.1	10.0	15.0 (1)	100.7
	6 8 6S				
4568	HENRY DURHAM & SON	5.9	8.2	6.3	101.2
	8 8 8M				
3833	GRAYS & BISHOP	7.3*	8.2	7.8	95.8*
<b>NORTH AMERICAN FERTILIZER CO</b>					
	0 12 12M				
4287	CANARY FARM SUPPLY		11.3*	13.2	99.4
4756	GEORGE FREN JR		10.2*	13.1	92.8*
	0 20 20M				
4528	JOHN L VINCENT & SON		18.8*	18.8*	93.9*
4896	DEATON BROTHERS		20.2	20.3	101.2
	2 12 6M				
3608	JOHN J CARTER	2.4	11.9	7.1	105.4
3832	GRAYS & BISHOP	2.2	12.0	7.1	104.8
4103	EARL A KENDALL	2.5	11.8	7.6	107.9
4288	J B WADE	2.5	11.8	8.0	108.0
4289	CANARY FARM SUPPLY	2.5	11.6*	6.9	104.8
	3 9 6M				
3609	J H LYON & SON	3.5	8.7*	7.3	106.5
4104	RENPRO SUPPLY CO	3.0	9.4	6.9	105.4
4399	I L HANCOCK	3.5	8.9	7.0	107.1
4561	CITY SUPPLY CO	3.1	8.6*	8.8	106.7
	3 12 12M				
3500	KENTUCKY TRAINING HOME	3.1	11.9	12.4	101.4
3610	KENTUCKY STATE HOSPITAL	3.1	11.7*	12.3	99.9
3746	FLOYD DUDGEON	3.1	11.7*	12.0	99.2
3834	LINCOLN INSTITUTE	3.4	11.9	12.1	102.5
4290	GEORGE R PHILLIPS	3.2	11.9	12.0	100.7
4400	CENTRAL STATE HOSPITAL	3.2	12.1	12.5	103.0
4401	KENTUCKY STATE REFORMATORY	3.1	11.9	12.6	101.8
	4 8 12S				
4105	EARL A KENDALL	4.1	8.0	11.5*	99.1
4529	JOHN L VINCENT & SON	4.0	7.9	12.3	100.6

(1) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b><u>NORTH AMERICAN CONTINUED</u></b>					
3409	4 16 16M GEORGE FRENZ JR	3.9	155*	165	98.8
4106	5 10 10M EARL A KENDALL	5.0	95*	99	97.4
4551	FURKIN BROTHERS	5.1	103	10.7	103.3
3501	5 10 15S J M MILLING CO	5.1	104	16.0	103.8
3533	ALLEN MORRIS	5.2	103	15.5	103.1
3835	PRICE BARNETT	5.3	104	15.1	103.2
4107	JOE KAVANAUGH	5.2	102	15.8	103.2
4108	SELBERT GUIRE	5.3	93*	15.9	100.5
4109	EARL A KENDALL	5.0	101	15.4	101.4
4110	LUCIEN PENN	5.0	105	14.7*	101.3
4291	GEORGE R PHILLIPS	5.1	104	15.5	103.7
4402	DAVIS & LEWIS	5.3	103	14.0*(1)	100.7
4403	LASWELL MILLING CO	5.2	101	15.5	102.4
4755	GEORGE FRENZ JR	5.1	95*	16.0	100.7
3747	6 8 6M PAUL BRITES HILL	5.2*	8.7	6.4	98.6
4111	FLETCHER TAYLOR & SONS	5.5*	8.0	6.6	97.5
4112	EARL A KENDALL	5.7*	8.0	7.2	101.0
4292	J B WADE	5.8	7.8	6.3	98.3
4595	JOHN L VINCENT	5.7*	8.0	6.3	98.2
4852	J L SHOUSE JR	5.5*	8.0	6.6	97.9
4867	J B WADE	5.7*	8.1	6.6	99.8
3748	6 8 6S RAINBOW COAL CO	5.8	7.8	7.7 (2)	101.5
3836	HAGAN LANDRUN & STONE	5.8	7.9	8.2 (3)	103.5
4113	HIGHWAY MARKET	6.2	8.0	6.1	101.8
4114	EARL A KENDALL	6.0	8.1	6.8	102.2
4115	SCHOTTS STORE INC	6.0	7.6*	7.4 (4)	101.2
4293	J F LEATHERS	6.1	8.1	7.1	103.6
4404	DAVIS & LEWIS	6.2	8.1	8.0 (5)	107.2
4294	10 10 10M J B LUCAS SEED COMPANY	10.4	9.8	10.4	101.6
4405	BUNTON SEED CO	9.5*	10.4	10.6	99.9
4116	20 6 AMMONIUM SULFATE EARL A KENDALL	21.0			101.9
3749	33 5 AMMONIUM NITRATE E H DICK & SON	32.6*			97.2*
4117	EARL A KENDALL	33.9*			101.4
3410	20 SUPERPHOSPHATE GEORGE FRENZ JR		20.5		102.5
3611	JOHN J CARTER		19.4*		97.0
4118	EARL A KENDALL		20.1		100.5
4879	J A MURPHY		19.5*		97.5
4295	48 SULFATE OF POTASH HOSKINS STORE			49.9	104.0
3612	60 MURIATE OF POTASH KENTUCKY STATE HOSPITAL			60.2	100.5
4119	LUCIEN PENN			58.4*	97.4*
4296	FRANK BALLARD			60.0	100.0
<b><u>THE OHIO VALLEY FERTILIZER CORP</u></b>					
4120	2 12 6M FLOYD G BARLOW	2.7	11.6*	10.0	114.5
4747	LOUISA GROCERY	2.2	11.4*	5.9	97.8
4903	ASHLAND GROCERY CO	2.3	11.4*	6.5	100.1
4746	3 9 6M VIRGIL STALLARD	3.1	8.9	6.3	100.9
4734	3 9 6S FRANK L HINTON & SON	3.0	8.9	6.5	100.6
4530	3 12 12M EARL MURRAY	3.3	11.6*	12.2	100.7
4745	VIRGIL STALLARD	3.0	11.6*	12.3	98.6
3750	4 12 8S WEST LIBERTY CUT RATE MARKET	4.1	11.5*	9.6	101.8
4748	5 10 10M LOUISA GROCERY	5.1	9.8	10.5	101.2
4904	ASHLAND GROCERY CO	5.0	9.9	10.1	99.6
(1)	EXCESS MURIATE EQUIVALENT TO 0.4% POTASH				
(2)	EXCESS MURIATE EQUIVALENT TO 1.1% POTASH				
(3)	EXCESS MURIATE EQUIVALENT TO 1.9% POTASH				
(4)	EXCESS MURIATE EQUIVALENT TO 0.3% POTASH				
(5)	EXCESS MURIATE EQUIVALENT TO 0.5% POTASH				



TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>THE OHIO VALLEY CONTINUED</b>					
5 10 10S					
3931	MONTGOMERY FEED STORE	5.0	10.4	10.0	101.4
4297	T P BLACK	5.1	9.7*	10.7 (1)	100.9
4733	FRANK L HINTON & SON	4.7*	9.9	10.4 (2)	98.6
5 10 15S					
3751	WEST LIBERTY CUT RATE MARKET	4.8	9.2*	17.1	99.9
3932	BERTRAM & CHAPMAN	4.8	10.0	14.9	98.6
3934	MONTGOMERY FEED STORE	5.1	10.0	15.4	101.0
4121	FLOYD G BARLOW	5.0	9.7*	15.1	98.8
4298	BROCK BROTHERS GRAIN CO	5.1	9.8	15.6	100.8
4925	RAYMOND STEWART	5.2	9.9	14.7	100.1
5 10 20S					
4122	FLOYD G BARLOW	5.1	10.0	19.5*	99.6
4299	J R PRATHER	5.1	10.2	18.7*	98.8
4531	ATLEY R ADKINS	5.1	10.1	19.7*	100.0
6 8 6S					
3752	FARMERS UNION SUPPLY	5.9	8.1	6.3	100.7
3933	MONTGOMERY FEED STORE	6.0	8.2	6.2	101.4
3935	BERTRAM & CHAPMAN	5.7*	8.2	6.8	100.6
4532	R C PENNINGTON & SONS	5.9	8.1	6.8	101.5
20 SUPERPHOSPHATE					
4533	R C PENNINGTON & SONS		21.0		105.0
60 MURIATE OF POTASH					
3549	JETT COAL & SUPPLY CO			60.0	100.0
<b>PHILLIPS CHEMICAL CO</b>					
33 ANMONIUM NITRATE					
3357	J B LUCAS FEED & SEED CO	33.4			101.1
3936	CARROLL COUNTY FARM BUREAU COOP	33.4			101.1
<b>PRICE CHEMICAL CO</b>					
2 12 6M					
4300	JACK SHIRLEY	2.2	12.4	7.1	107.6
4776	J W DAWSON	2.2	11.3*	7.3	101.2
4862	CAHOE & O BRYAN	1.9	11.6*	6.8	99.4
3 9 6M					
4861	CAHOE & O BRYAN	2.9	8.6*	7.4	101.0
3 12 12M					
4872	SUTTONS GROCERY	3.3	11.9	12.3	101.9
4 16 16M					
4406	FOX BROTHERS	4.0	16.9	17.1	104.9
5 10 15S					
3613	PERRYVILLE ICE & PRODUCE CO	4.8	11.0	15.3	103.4
4407	STAUTS FEED STORE	5.1	10.2	16.5 (3)	104.3
4408	FOX BROTHERS	4.9	10.9	16.2	105.3
4534	C W ASHBY & COMPANY	4.9	10.4	16.2	103.1
6 8 8S					
3837	C E LOWE	5.6*	8.8	8.7 (4)	102.6
4409	STAUTS FEED STORE	6.0	8.6	9.8	107.4
4410	FOX BROTHERS	6.0	8.2	9.0	103.2
4629	B B LANDRUM	5.8	8.5	8.3	102.0
4873	J C ROBINSON & CO	5.8	8.7	8.7 (5)	103.8
8 8 8M					
3502	ROSCOE MEADOWS	7.0*	9.3	10.0	103.4
4411	FOX BROTHERS	7.9	8.6	8.9	103.7
4412	FRANK J MURPHY	7.6*	8.6	10.2	104.3
4860	CAHOE & O BRYAN	8.0	8.0	8.5	100.9
33 5 ANMONIUM NITRATE					
3503	ROSCOE MEADOWS	33.6			100.5
20 SUPERPHOSPHATE					
3294	YOUNGS SEED HOUSE		20.8		103.8
3614	J A MURPHY GENERAL STORE		20.3		101.5
50 SULFATE OF POTASH					
4878	J A MURPHY GENERAL STORE			50.4 (6)	100.8
60 MURIATE OF POTASH					
3311	KENTUCKY STATE REFORMATORY			60.2	100.3

(1) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 8.8% POTASH

(3) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

(4) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

(5) EXCESS MURIATE EQUIVALENT TO 0.9% POTASH

(6) EXCESS MURIATE EQUIVALENT TO 0.8% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>A F PRINGLE &amp; CO INC</u>					
4777	20 SUPERPHOSPHATE J W DAWSON		20.1		100.5
<u>O M SCOTT &amp; SONS CO</u>					
3534	9 7 4M CAYCE YOST COMPANY	9.2	7.6	5.2	106.2
<u>SPENCER CHEMICAL CO</u>					
3309	33 5 AMMONIUM NITRATE BROCK BROTHERS GRAIN CO	33.6			100.2
3319	LANDER HARDWARE CO	33.8			100.9
3358	ALLEN & JENKINS	33.8			100.8
3411	SPHAR & COMPANY	33.8			101.0
3504	BENSON VALLEY MILLING CO	33.6			100.4
4413	SPEARS KISER CO	33.8			100.8
4414	KENTUCKY STATE REFORMATORY	33.9			101.2
<u>82 ANHYDROUS AMMONIA</u>					
4827	MIDSOUTH CHEMICAL CO J A WILSON	82.0			100.0
4829	FARM CHEMICAL CO C B STAHL & SON	82.0			100.0
<u>SPHAR &amp; CO WINCHESTER KY</u>					
4913	33 5 AMMONIUM NITRATE J T LAWSON CO	33.4			99.8
<u>SWIFT &amp; CO CHICAGO ILL</u>					
4304	3 12 12M HOSKINS STORE	3.5	12.2	12.2	104.7
3359	4 8 12S ALLEN & JENKINS	3.9	8.2	12.4	101.1
3753	DUDGEON & ROBINSON	3.9	8.2	12.2	101.0
4123	MORGAN & CUNSHAW	3.7*	8.2	12.1	99.0
4305	HAYDON COAL & OIL COMPANY	3.8	8.2	12.5	100.8
4851	19 28 14M FARMERS SUPPLY CO	19.4	27.3*	14.2	100.0
<u>SWIFT &amp; CO NATIONAL STOCK YARDS ILL</u>					
4302	3 9 27M FARMERS COOPERATIVE STORE	3.3	8.9	27.2	101.3
4303	3 12 12M COOPER SEED & FEED STORE	3.7	11.5*	13.2	104.5
4930	MORGANFIELD HARDWARE CO	2.9	12.4	11.0*	98.6
3412	4 8 12S MONARCH MILLING COMPANY	3.8	8.2	12.3	100.3
4415	SPEARS KISER	3.9	8.2	12.1	100.3
4637	YOPP SEED CO	3.6*	10.5	10.9*(1)	106.5
4416	4 12 4M SPEARS KISER CO	3.9	11.9	4.8	100.7
4638	YOPP SEED CO	4.0	12.3	4.5	102.2
4306	4 16 16M FARMERS COOPERATIVE STORE	4.4	15.0*	18.0	102.0
4932	MORGANFIELD HARDWARE CO	4.4	15.8	16.0	101.1
4307	5 10 15S GRIGSBY & CO	4.5*	11.0	14.6*	99.9
4308	COOPER SEED & FEED STORE	4.7*	10.5	15.3	100.8
4309	FARMERS COOPERATIVE STORE	4.7*	10.7	15.2	101.0
4417	SPEARS KISER CO	4.6*	10.8	14.8	99.8
4418	6 8 6S SPEARS KISER CO	6.2	8.0	6.6	102.6

(1) EXCESS MURIATE EQUIVALENT TO 1.5% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>SWIFT &amp; CO CONTINUED</u>					
	6 10 4M				
3505	MITCHELL COMPANY	5.9	10.5	3.8	100.7
3506	HUNTER HARDWARE	5.5*	10.1	5.0	99.2
3615	KEITH HARDWARE	6.1	10.3	4.8	103.6
3754	CALLOWAY COUNTY SOIL IMPROV ASSN	5.6*	10.3	3.7*	97.8
3755	WALTERS & THOMPSON	5.8	10.1	4.1	99.0
3838	STANLEY PENN & SONS	5.4*	11.0	3.6*	99.6
3839	STANFORD HARDWARE	6.1	11.0	4.3	106.0
	6 12 18M				
4933	MORGANFIELD HARDWARE CO	5.9	12.3	17.4*	99.7
	8 8 8M				
4931	MORGANFIELD HARDWARE CO	8.3	7.8	9.0	103.1
	12 12 12M				
4310	FARMERS COOPERATIVE STORE	10.7*	12.6	11.9	96.2*
4934	MORGANFIELD HARDWARE CO	11.7*	11.8	12.9	99.2
	15 0 10M				
3310	BURNA FEED COMPANY	14.3*		11.5	99.2
<u>STIM U PLANT LABORATORIES</u>					
	5 8 7M				
4594	F W WOOLWORTH & CO	6.9	11.3	9.8	139.3
<u>TENNESSEE CHEMICAL CO</u>					
	2 12 6M				
3535	N T NUCKOLS	2.1	12.0	6.5	101.5
	3 9 6M				
4813	N T NUCKOLS	3.2	9.0	6.4	103.4
	4 12 8M				
4814	N T NUCKOLS	4.2	11.4*	8.4	99.5
	10 10 10M				
3536	N T NUCKOLS	9.7*	10.5	9.9	100.2
	20 SUPERPHOSPHATE				
3537	N T NUCKOLS		20.4		101.8
4815	N T NUCKOLS		20.6		102.8
<u>TENNESSEE CORP CINCINNATI OHIO</u>					
	0 20 20M				
4703	H T ROBERTS		19.1*	21.5	99.3
	2 12 6M				
4908	LESTER L LYND & SON	2.3	13.1	7.2	111.9
	3 12 12M				
4124	STAGG BROTHERS	3.3	12.0	12.9	104.1
4419	SPEARS KISER COMPANY	3.3	12.0	12.6	103.1
	3 18 9M				
4704	H T ROBERTS	3.2	17.7*	9.6	100.9
	4 12 8S				
3759	MCCAULEY BROTHERS SEED COMPANY	4.1	12.2	8.6	102.6
3841	B C NORRIS	4.2	12.0	9.0	103.7
4420	SPEARS KISER COMPANY	4.1	11.5*	8.8	100.0
4421	MONARCH MILLING CO	4.1	11.4*	8.7	99.5
4906	LESTER L LYND & SON	4.1	11.9	8.5	101.4
	4 24 12M				
4592	SOUTHERN STATES COOP	4.3	24.3	12.7	103.3
	5 10 10M				
3760	MCCAULEY BROTHERS SEED COMPANY	5.1	10.2	10.2	101.5
4705	H T ROBERTS	5.2	10.5	10.4	104.1
4909	WURTS CHINN & SON	5.1	10.2	10.1	101.9
	5 10 10S				
4422	SPEARS KISER COMPANY	5.2	10.6	10.6	105.1
4697	MILL SPRINGS SUPPLY	5.1	11.1	10.7 (1)	107.2
	5 10 15S				
3763	MCCAULEY BROTHERS SEED COMPANY	5.1	10.7	15.0	103.3
3842	FARMERS FEED MILL	5.0	10.8	15.0	103.1
4424	SPEARS KISER COMPANY	5.3	11.0	15.4 (2)	106.7
4702	H T ROBERTS	4.9	10.7	14.9	102.0

(1) EXCESS MURIATE EQUIVALENT TO 1.3% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 0.9% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>TENNESSEE CORP CONTINUED</u>					
	6 6 18S				
3764	MCCAULEY BROTHERS SEED COMPANY	5.8	6.8	17.6*	100.9
3844	FARMERS FEED MILL	6.0	6.5	18.2	102.2
	10 10 10M				
3617	FARMERS SUPPLY CO	9.6*	10.3	10.3	99.3
4760	MCCAULEY BROTHERS SEED CO	9.4*	10.7	10.5	100.3
	20 SUPERPHOSPHATE				
3845	B C NORRIS		21.0		105.0
4907	LESTER L LYND & SON		20.4		102.0
	48 SULFATE OF POTASH				
3619	FARMERS SUPPLY COMPANY			48.9	101.9
4701	H T ROBERTS			51.5	107.3
4762	MCCAULEY BROTHERS SEED CO			49.1	102.3
4877	ELLIOTTS STORE			48.6	101.4
	52 SULFATE OF POTASH				
4751	RUFUS HUTCHERSON			51.6	99.2
	60 MURIATE OF POTASH				
4425	SPEARS KISER COMPANY			60.6	101.1
4761	MCCAULEY BROTHERS			60.2	100.3
<u>TENNESSEE CORP NEW ALBANY IND</u>					
	0 20 20M				
3756	WALTERS & THOMPSON		19.7*	21.4	101.3
4311	ICES PRODUCE		19.8	20.5	100.0
	2 12 6M				
3840	D B SAYLOR	2.1	12.8	6.9	107.5
3937	A RAY DYER GENERAL MDS	2.0	12.7	6.3	105.0
	3 12 12M				
3757	W G CLAYCOMB	3.0	12.2	12.4	102.1
3758	W C BLAIR	3.1	12.2	12.6	102.6
	4 12 BS				
3616	ICES PRODUCE	3.9	11.5*	8.7	98.4
	4 16 16M				
4869	HAYDON MILL & GRAIN CO	4.0	16.0	16.6	101.0
	4 24 12M				
4535	ALLEN COUNTY FARMERS SERVICE	4.0	23.9	13.1	101.1
	5 10 10S				
3761	W G CLAYCOMB	5.0	10.3	10.8	102.9
	5 10 15S				
3762	I K MILLER & SON	4.9	10.5	16.0	103.5
4423	D B SAYLOR	5.0	10.4	15.9	103.3
	5 20 20M				
3843	ALLEN COUNTY FARMERS SERVICE	4.9	20.2	20.3	100.4
4700	ELLIOTTS STORE	4.8	20.8	20.1	101.5
	10 10 10M				
3765	W C BLAIR	9.8	10.6	10.2	101.7
	20 SUPERPHOSPHATE				
3618	ICES PRODUCE		20.5		102.5
3644	STINSON FARM SUPPLY		20.7		103.5
3766	W G CLAYCOMB		20.8		104.0
4312	FARMERS SUPPLY		20.6		103.0
	46 SUPERPHOSPHATE				
3938	A RAY DYER GENERAL MDS		46.4		100.6
	60 MURIATE OF POTASH				
3620	ICES PRODUCE			61.2	102.1
<u>TRI STATE CHEMICAL CO</u>					
	0 20 20M				
5152	TRI STATE CHEMICAL CO		18.4*	20.1	94.7*
<u>U S STEEL CORP</u>					
	20 6 AMMONIUM SULFATE				
3767	WOODFORD FEED COMPANY	21.2			102.7

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>UNITED GAS CO</u>					
4828	82 ANHYDROUS AMMONIA FARM CHEMICAL CO HERMAN ELLIS	82.0			100.0
<u>VALLEY COUNTIES OF KY COOP INC</u>					
3768	0 30 30M CALLOWAY COUNTY SOIL IMPROV ASSN		32.5	28.0*	103.3
4313	SOUTHERN STATES SIMPSON COOP		32.0	30.3	104.8
4314	FARMERS GIN COMPANY		29.8	31.6	101.3
3538	46 SUPERPHOSPHATE GRAVES COUNTY SOIL ASSN		46.1		100.1
4635	47 SUPERPHOSPHATE LIVINGSTON COUNTY SOIL IMPROV ASSN		47.5		101.1
4634	61 CALCIUM METAPHOSPHATE LIVINGSTON COUNTY SOIL IMPROV ASSN		61.0		100.0
3939	62 CALCIUM METAPHOSPHATE MARSHALL COUNTY SOIL IMPROVE ASSN		63.0		101.6
<u>VIRGINIA CAROLINA CHEM CINCINNATI</u>					
4563	0 20 20M U L ROGERS & SONS		19.9	19.4*	98.7
3413	2 12 6M U L ROGERS & SONS	2.3	12.1	6.7	105.1
4685	KNOX COUNTY SUPPLY	2.1	12.1	6.2	102.2
5026	BILLIE ROBERSON	2.4	12.0	6.5	105.1
3414	3 12 12M U L ROGERS & SONS	3.0	12.9	12.0	104.4
4315	S M GRAVES	3.4	13.0	11.6*	106.5
4671	CASTEEL HARDWARE CO	3.2	12.2	12.9	104.4
4536	4 12 8M D C LYKINS	4.1	12.0	9.0	102.8
4316	5 10 10M E PAUL CLARK	5.2	10.9	10.1	105.3
4317	S M GRAVES	5.2	10.0	10.8	103.1
4708	H T ROBERTS	5.1	10.3	10.8	104.1
4856	GRIGSBY & CO	5.0	10.2	10.4	102.2
3320	5 10 10S HARDIN COUNTY MILLING COMPANY	4.9	11.0	9.3*	102.1
3621	DUNNINGTON MILLING CO	5.3	10.4	9.9	103.7
3769	KNOX COUNTY SUPPLY	5.2	11.3	9.7*(1)	106.5
4537	D M MURPHY	5.2	10.4	10.2	103.8
4669	CASTEEL HARDWARE CO	5.2	9.8*	10.2	100.7
4709	H T ROBERTS	5.2	10.8	10.3	105.5
4874	DON ROGERS	5.4	10.9	9.3*	104.9
3313	5 10 16S R D REYNOLDS	4.9	10.0	16.1	99.7
3348	SHELBY FEED & SEED COMPANY	5.1	10.5	15.7 (2)	101.5
3415	BARNETTS FARM SUPPLY	5.0	9.7*	16.2	99.1
3770	KNOX COUNTY SUPPLY	5.1	11.3	15.7*	105.1
4318	BISSET & CUMMINS	5.1	11.1	15.5*	104.0
4319	GRIGSBY & COMPANY	5.0	10.4	16.4	102.0
4538	D M MURPHY	5.0	10.6	17.2	104.8
4670	CASTEEL HARDWARE CO	5.0	10.9	16.0	103.2
5263	HARDIN KENNON	5.1	9.9	16.8	101.3
4320	5 20 20M E PAUL CLARK	5.2	20.0	19.3*	99.6
4539	PAUL CRABTREE GENERAL STORE	5.1	21.4	19.3*	103.2
4322	10 10 10M BISSET & CUMMINS	10.1	10.1	10.4	101.5
4564	U L ROGERS & SONS	9.9	10.9	10.1	102.9
3321	20 SUPERPHOSPHATE FARMERS SUPPLY COMPANY		20.4		101.8
3622	DUNNINGTON MILLING COMPANY		20.5		102.5
4323	GRIGSBY & COMPANY		20.6		103.0
4672	CASTEEL HARDWARE CO		20.6		103.0
3314	48 SULFATE OF POTASH R D REYNOLDS			50.4	105.1
3416	BARNETTS FARM SUPPLY			51.6	107.7
4426	WOODFORD SPEARS & SONS			52.4	109.2

(1) EXCESS MURIATE EQUIVALENT TO 0.4% POTASH

(2) EXCESS MURIATE EQUIVALENT TO 1.1% POTASH

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1954

(Analyses deficient more than one-fourth of one percent and relative values deficient more than \$1.50 per ton indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met. Boron analyses are in footnotes also).

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>VIRGINIA CAROLINA CHEM LYNCHBURG</u>					
4717	5 10 5M INEZ CASH STORE	5.1	9.6*	5.4	99.9
<u>VIRGINIA CAROLINA CHEM MT PLEASANT</u>					
4587	2 12 6M AGNES DAVIS	2.2	11.8	6.8	102.7
4817	D K HURT	2.2	11.9	7.5	105.1
4937	FARMERS SUPPLY CO	1.9	12.1	6.8	101.8
4125	3 9 6M DODDS CORNER	3.1	8.6*	6.2	99.8
4816	3 12 12M D K HURT	3.2	11.8	12.5	101.2
4949	ROBINSON IMPLEMENT & MOTOR CO	3.2	12.0	11.9	101.2
4774	3 12 12 3M 9S SHELBY FEED & SEED CO	3.3	12.0	12.4	102.2
3846	4 12 8M BRYANT HUNT COMPANY	4.0	12.3	8.4	102.5
3942	ROBINSON IMPLEMENT & MOTOR CO	4.1	12.0	8.4	101.4
4586	AGNES DAVIS	4.3	11.6*	8.8	101.9
4938	FARMERS SUPPLY CO	3.7*	12.0	13.0	109.4
4773	5 10 10M SHELBY FEED & SEED CO	4.9	9.9	10.2	99.0
4939	FARMERS SUPPLY CO	5.2	10.3	9.9	102.3
4943	ROBINSON IMPLEMENT & MOTOR CO	4.5*	10.0	9.4*	95.2*
3941	5 10 10S R D REYNOLDS	4.8	9.7*	10.1	97.8
4857	GRIGSBY & CO	5.3	9.9	9.9 (1)	101.0
3940	6 8 6M ROBINSON IMPLEMENT & MOTOR CO	5.7*	8.5	6.3	100.5
3771	6 8 6S BARNETTS FARM SUPPLY	6.0	8.0	6.1	99.8
3847	BRYANT HUNT CO	6.0	8.0	6.6	100.8
4126	DODDS CORNER	6.0	7.7*	6.2	98.6
4321	GRIGSBY & CO	6.0	7.3*	6.5	97.8
4644	ROBINSON IMPLEMENT & MOTOR CO	5.6*	8.0	6.4	98.2
4948	10 10 10M ROBINSON IMPLEMENT & MOTOR CO	9.3*	10.1	10.4	97.7
4947	20 SUPERPHOSPHATE ROBINSON IMPLEMENT & MOTOR CO		20.1		100.5
<u>ZIRCON PRODUCTS CO</u>					
3943	5 10 5M LIQUID PERRY COUNTY FARM SUPPLY	6.3	11.0	5.3	115.6
4430	6 18 6M LIQUID LOUISVILLE CHEMICAL CO	7.5	19.5	7.3	14.3
4853	HUMPHREY BROTHERS	6.2	19.8	7.1	09.0

(1) EXCESS MURIATE EQUIVALENT TO 0.3% POTASH

TABLE 2 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, January-June, 1954

(Analyses deficient more than one-fourth of one percent indicated by asterisk).

Station Number	Manufacturer, Brand Name, and From Whom Obtained	Phosphoric Acid				Percent of Relative Value Found
		Available		Total		
		Guar. (Percent)	Found	Guar. (Percent)	Found	
<u>ASSOCIATED COOPERATIVES</u>						
Fused Tricalcium Phosphate						
3469	Southern States Cooperative	20.0	20.0	28.0	28.9	101.0
3565	Farmers Supply Company	20.0	20.0	28.0	28.3	100.4
3627	Stinson Farm Supply	20.0	20.3	28.0	28.2	101.2
3871	Southern States Owensboro Coop.	20.0	20.2	28.0	28.1	100.8
4343	Lincoln Farm Service	20.0	20.7	28.0	28.2	102.4
4450	Bugg Bros. Feed & Supply Co.	20.0	20.2	28.0	28.1	100.8
4789	Southern States Owenton Coop.	20.0	20.0	28.0	28.2	100.3
<u>INTERNATIONAL MINERALS &amp; CHEMICAL CORPORATION</u>						
Ground Rock Phosphate						
4264	Young's Seed House	3.0	2.8	30.0	30.5	101.7
<u>OWENS AGRICULTURAL PHOSPHATE CORPORATION</u>						
Rock Phosphate						
4641	Yopp Seed Company	--	--	30.0	28.7*	95.7
<u>ROBIN JONES PHOSPHATE COMPANY</u>						
Ground Rock Phosphate						
4565	Floyd Dudgeon	--	--	30.0	30.1	100.3
<u>RUHM PHOSPHATE &amp; CHEMICAL COMPANY</u>						
Rock Phosphate						
4928	Henderson Farmers' Supply Co.	3.0	2.8	30.0	29.9	99.5
<u>SCHROCK FERTILIZER-SERVICE</u>						
Ground Rock Phosphate						
4301	Farmers Cooperative Store	--	--	31.0	32.0	103.2
<u>TENNESSEE COAL &amp; IRON DIVISION</u>						
Basic Slag						
4666	Frank Hoeck	--	--	8.0	10.2	127.5
<u>THOMPSON SALES COMPANY</u>						
Soft Phosphate with Colloidal Clay						
4608	H. H. Spahr	2.0	2.7	20.0	19.7*	98.5

TABLE 3 - Analyses of Inspection Samples of Bones, Dried Manures, etc., January-June, 1954

(Analyses deficient more than one-fourth of one percent indicated by asterisk).

Station Number	Manufacturer, Brand Name, and From Whom Obtained	Nitrogen (Percent)	Total Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
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STOCKDALE FERTILIZER COMPANY

1-1-1 Sheep Manure

4593	F. W. Woolworth & Company	1.4	0.8	3.0	147.4
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J. D. JEWELL

3.5-1.5-.5 Poultry Manure

3822	Bentley's	3.6	1.0*	0.6	100.4
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