

Regulatory Bulletin 143

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# Commercial Fertilizers in Kentucky, 1957

Including a Report on Official Fertilizer  
Samples Analyzed

July-December, 1957



University of Kentucky  
Agricultural Experiment Station  
Lexington

FEEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT STATION

Bruce Poundstone, Head of Department  
Robert Mathews, Asst. Adm. & Chief Inspector

Guy P. Zickefoose, Auditor-Inspector  
David M. Daugherty, Registration Inspector

FIELD INSPECTION

Otis R. Wheeler  
M. M. Davis

Neville Hulette

Noel J. Howard  
W. M. Routt

LABORATORY

Harry R. Allen  
Valva Midkiff  
J. T. Adair  
Patricia Idleman

J. A. Shrader  
Gary R. Leslie  
Dewey H. Newman, Jr.

Lelah Gault  
Norma Holbrook  
Robert N. Price  
Jo Ann Dawson

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CONTENTS

	Page
Tonnage of Fertilizer Sold . . . . .	3
Plant Food or Nutrients . . . . .	3
Fertilizer Grade . . . . .	3
Number of Grades Needed in Kentucky. . . . .	3
Refunds . . . . .	4
Farmers' Samples. . . . .	4
Fertilizer Guaranty. . . . .	5
Penalties for Violating the Fertilizer Laws. . . . .	5
Distribution of Fertilizer Sales in Kentucky by Counties . . . . .	5
Tonnage of Mixed Fertilizer, Table A . . . . .	6
Tonnage of Materials, Table B . . . . .	7
Summary of all fertilizer sold in Kentucky from January 1 thru December 31, 1957, Table C. . . . .	7
Explanation of "Standing of Manufacturers" . . . . .	8
Explanation of Tables 1, 2 & 3 . . . . .	8
Companies Represented by Samples Reported in this Bulletin . . . . .	9
Standing of Manufacturers. . . . .	10-11
Analyses of Inspection Samples of Mixed Fertilizer, Super- phosphates, and Fertilizer Salts, Table 1 . . . . .	12
Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, Table 2 . . . . .	33
Analyses of Inspection Samples of Bones, Dried Manures, etc., Table 3 . . . . .	33
Boron Analyses of Samples Reported as shown on previous pages.	34

This bulletin contains analyses of commercial fertilizers made between July 1 and December 31, 1957. Analyses of samples made between January 1, 1957 and June 30, 1957 were published in Regulatory Bulletin 141.

#### TONNAGE OF FERTILIZER SOLD

Manufacturers reported that more than 539,000 tons of commercial fertilizer were sold in Kentucky during 1957. This was a slight increase over 1956.

The tonnage of commercial fertilizer sold during 1957, as reported by manufacturers, is given in tables A, B, and C.

#### PLANT FOODS OR NUTRIENTS

The minimum percentages of guaranteed plant foods, or nutrients, present in commercial fertilizer are printed on the bag as nitrogen, available phosphoric acid, and potash. These are the nutrients needed by plants in largest amounts and also those in which the soil is most likely deficient. The element corresponding to phosphoric acid is phosphorus and the element corresponding to potash is potassium. Boron may also be guaranteed.

#### FERTILIZER GRADE

Grade designates the minimum percentage of nitrogen, available phosphoric acid, and potash, in the fertilizer. A 5-10-15 grade means that the fertilizer contains 5 percent nitrogen, 10 percent available phosphoric acid, and 15 percent potash. The nutrients are always listed in this order. A 0-20-0 grade refers to a superphosphate fertilizer containing 20 percent available phosphoric acid. A 0-0-60 grade refers to a potash fertilizer containing 60 percent potash.

#### NUMBER OF GRADES NEEDED IN KENTUCKY

The Departments of Agronomy and Horticulture of the Kentucky Agricultural Experiment Station consider that nine ratios and minimum grades of mixed fertilizer, together with superphosphate, nitrogen and potash salts will answer the present needs of Kentucky agriculture.

A list of the nine ratios and minimum grades and corresponding higher analysis grades recommended for field crops are shown below:

<u>Ratio</u>	<u>Minimum Grade</u>	<u>Higher Analysis Grade</u>
0-1-1	0-20-20	0-24-24, 0-30-30,
0-1-2	0-10-20	0-20-40
0-2-1	0-16-8	0-20-10
1-1-1	10-10-10	12-12-12, 14-14-14
1-1-3	6-6-18	
1-2-2	5-10-10	6-12-12, 8-16-16, 10-20-20
1-2-3	5-10-15	6-12-18, 9-18-27
1-3-2	4-12-8	8-24-16, 10-30-20
1-4-4	3-12-12	4-16-16, 5-20-20

Higher grades of any ratio also are both recommended and encouraged. None of the recommended minimum grades of mixed fertilizer contain less than 20 units of plant food. Low grade fertilizers are less economical because costs of mixing, bags, freight and other incidental costs are the same per bag regardless of analysis.

There also is a distinct advantage to the manufacturer to hold the number of grades to a minimum, since a smaller number of grades can be mixed and distributed more economically.

The Agronomy Department suggests grades in the following ratios for tobacco: 1-2-3, 1-2-2, 1-1-3. Apply needed potash as sulfate of potash for tobacco. The other ratios listed are for general field crops, meadows and pastures.

More detailed suggestions for fertilizing field crops, using the above ratios and grades, are contained in Miscellaneous Circular 10 from this Station.

#### REFUNDS

When a sample of fertilizer is below the guaranteed analysis more than 0.8 units of nitrogen, 1.0 units of available phosphoric acid or 1.5 units of potash, or the combined relative value index shows the product deficient more than \$2.00 per ton, the manufacturer of the fertilizer and the dealer from whom the sample was obtained are given a special notice.

It is suggested to the manufacturer that a proportionate refund be made to all purchasers of the stock of fertilizer whose names can be obtained from the dealer. If names of purchasers cannot be obtained, the refund may be made to charity in the county where the fertilizer was sold.

If the shipment has not been sold at the time the notice is received, it must be either relabeled so as to show the correct analysis or returned to the manufacturer for reworking. A deficiency in one element as outlined above may not be offset by an overage in another element in determining whether or not a refund, relabeling or reworking is required.

#### FARMERS' SAMPLES

Anyone in Kentucky who buys a commercial fertilizer for his own use may submit samples for free analysis to the Department of Feed and Fertilizer, Agricultural Experiment Station, Lexington 29, Kentucky.

1. Samples taken according to provisions of K. R. S. No. 250, 360 through No. 250, 480 (Kentucky Fertilizer Law.) - To make the sample official it should be taken according to Section No. 250, 440 of the statute referred to above. This section of the statute requires that witnesses be present when the sample is taken. Copies of the statute may be obtained from the Department of Feed and Fertilizer.

2. Unofficial samples. - If an analysis is wanted for the purchaser's information only, samples of fertilizer may be taken in the following manner:

Take portions (each about a handful) from 10 percent of the bags, unless this requires portions from more than 20 bags. If there are less than 10 bags, sample all. Take samples from as far down in the bags as possible. Place all portions on a clean paper and mix well. Place about one quart in a tight container, mark the container with name and address of the sender and send to the Department of Feed and Fertilizer, Agricultural Experiment Station, University of Kentucky, Lexington 29, Kentucky.

State in a letter the amount of fertilizer on hand, the number of bags sampled, and the reason for wanting analysis. If analysis is materially below guaranty, a representative of the Feed and Fertilizer Department may be sent to take an inspector's sample.

#### FERTILIZER GUARANTY

The statute regulating the sale of commercial fertilizers in Kentucky was amended at the 1952 session of the Kentucky Legislature. In accord with the amendment to the statute, the official tag formerly issued by this Department to be attached to each bag of fertilizer is no longer required.

Before a manufacturer can sell fertilizer in Kentucky, he must register each brand or grade he proposes to sell with the Kentucky Agricultural Experiment Station in a manner prescribed by the Director. This registration is the guaranty of the manufacturer. This information must be printed on each bag of fertilizer offered for sale in Kentucky or on a label attached to each bag supplied by the manufacturer. The information is as follows:

Brand name of fertilizer  
Name and address of manufacturer  
Guaranteed analysis showing:  
    Nitrogen, percent  
    Available phosphoric acid, percent  
    Potash, from muriate or sulfate, percent

Total phosphoric acid is guaranteed in bone, dried manures and basic slag. Both total and available phosphoric acid are guaranteed in rock phosphate and in fused tri-calcium phosphate.

#### PENALTIES FOR VIOLATING THE FERTILIZER LAW

Any manufacturer, firm, dealer, or vendor who sells or exposes for sale in Kentucky commercial fertilizer without complying with the provisions of the fertilizer law is subject to a fine of from \$100.00 to \$500.00 for each offense. Furthermore, if a fertilizer is short in net weight or short in the essential plant-food nutrients, a manufacturer, firm or dealer may not only be fined \$100.00 to \$500.00 for violating the fertilizer law, but "shall be liable for reasonable damages sustained by the purchaser of such fertilizer."

#### DISTRIBUTION OF FERTILIZER SALES IN KENTUCKY BY COUNTIES

Reports showing sales of fertilizer by grades by counties are now available for six months periods beginning July 1, 1954. These data were compiled from copies of invoices supplied by shippers of fertilizer. Copies may be had by writing to the Department of Feed and Fertilizer, Kentucky Agricultural Experiment Station.

TABLE A. - Mixed Fertilizer Sales by Grades, Calendar Year, January 1 thru December 31, 1957, Kentucky. (Based upon Tonnage reports from Companies).

GRADE	January 1 thru	July 1 thru	Total
	June 30, 1957	December 31, 1957	
	(Tons)	(Tons)	(Tons)
0-10-20	164	58	222
0-12-12	698	145	843
0-14- 7	---	22	22
0-14-14	47	81	128
0-20-10	71	17	88
0-20-20	6,082	1,880	7,962
0-30-30	1,949	512	2,461
2-12- 6	11,373	1,435	12,808
3- 9- 6	12,721	744	13,465
3- 9-18	467	55	522
3-12- 6	7,352	703	8,055
3-12-12	29,519	7,509	37,028
4- 8-12	515	36	551
4-12- 4	711	50	761
4-12- 8	72,829	25,346	98,175
4-16-16	4,498	1,165	5,663
5-10- 5	1,971	141	2,112
5-10-10	14,029	1,131	15,160
5-10-15	94,286	3,306	97,592
5-20-20	8,235	4,305	12,540
6- 6-18	9,647	265	9,912
6- 8- 6	24,617	929	25,546
6-10- 4	637	58	695
6-12-12	20,998	4,448	25,446
6-12-18	3,512	175	3,687
6-24-24	104	128	232
8- 8- 8	680	76	756
8-24-16	978	1,159	2,137
10-10-10	27,891	3,436	31,327
10-20-20	261	72	333
10-30-20	595	698	1,293
12-12-12	4,446	594	5,040
14-14-14	2,200	274	2,474
Miscellaneous*	9,232	3,525	12,757
TOTAL MIXED	373,315	64,478	437,793

\* Grades registered by fewer than three companies and miscellaneous grades with low tonnage.

TABLE B. - Fertilizer Sold as Straight Materials and Miscellaneous Products by Types, Calendar Year, January 1 thru December 31, 1957, Kentucky. (Based on Tonnage reports from Companies.)

Material	January 1 thru	July 1 thru	Total
	June 30, 1957 (Tons)	December 31, 1957 (Tons)	
Nitrate of Soda, 16%	1,369	200	1,569
Ammonium Nitrate Lime, 20.5%	11	--	11
Ammonium Sulfate, 20-21%	480	32	512
Cyanamid, 20-21%	326	992	1,318
Nitrogen Solutions, 24-49%	1,362	226	1,588
Ammonium Nitrate, 32.5-33.5%	28,661	9,608	38,269
Anhydrous Ammonia, 82%	1,253	837	2,090
Urea	81	6	87
<b>Total Nitrogen Material</b>	<b>33,543</b>	<b>11,901</b>	<b>45,444</b>
Soft Phosphate, 20% Total	1,235	575	1,810
Ground Rock Phosphate, 30-33% Total	5,306	4,694	10,000
Basic Slag, 8% Total	200	47	247
Superphosphate, 18-20% Available	17,404	2,499	19,903
Triple Superphosphate, 45-50% Available	1,318	181	1,499
Calcium Metaphosphate, 60-63% Available	4,943	1,784	6,727
<b>Total Phosphate Material</b>	<b>30,406</b>	<b>9,780</b>	<b>40,186</b>
Sulfate of Potash Magnesia, 20.5-22%	744	180	924
Sulfate of Potash, 48-52%	5,584	106	5,690
Muriate of Potash, 60-62%	7,039	2,028	9,067
<b>Total Potash Material</b>	<b>13,367</b>	<b>2,314</b>	<b>15,681</b>
Dried Manures	281	80	361
Bone Meal	47	31	78
Sewage Sludge	82	100	182
Miscellaneous	42	87	129
<b>Total Miscellaneous</b>	<b>452</b>	<b>298</b>	<b>750</b>
<b>TOTAL MATERIALS</b>	<b>77,768</b>	<b>24,293</b>	<b>102,061</b>

TABLE C. - Summary of all fertilizer sold in Kentucky from January 1 thru December 31, 1957

Type	January 1 thru	July 1 thru	Total
	June 30, 1957 (Tons)	December 31, 1957 (Tons)	
Mixed Fertilizers	373,315	64,478	437,793
Straight Materials	77,768	24,293	102,061
<b>TOTAL</b>	<b>451,083</b>	<b>88,771</b>	<b>539,854</b>

## EXPLANATION OF "STANDING OF MANUFACTURERS"

The standings of manufacturers as determined by the results of analysis of official samples are given on pages 10 and 11. Purchasers of fertilizer can learn through a study of this how well any manufacturer met his guarantee on the samples analyzed.

It should be noted that the first 3 columns of figures refer to number of samples and that the last 3 columns refer to number of analysis of nitrogen, phosphoric acid and potash. Attention is directed to the third column of figures which gives for each manufacturer, the percentage of samples which are equal to guaranty in all respects, and to column 6, which gives the percentage of analysis which are equal to guaranty or within the tolerance. This tolerance is on a sliding scale varying with the guarantee as follows:

<u>Percent Guarantee in Nitrogen, Phosphoric Acid or Potash</u>	<u>Tolerance</u>
0- 9	0.2
10-19	0.3
20-25	0.4
26-34	0.5
35-39	0.6
40-49	0.7
50-59	0.8
60 or more	0.9

## EXPLANATION OF TABLES 1, 2 &amp; 3

In some samples a deficiency in one nutrient is accompanied by an overrun in another nutrient. This is evidence of improper mixing or weighing by the manufacturer. Extreme variations of this kind cannot be attributed to separation of materials (segregation) though this may be a minor factor. Excess of one nutrient cannot compensate for deficiency of another nutrient. The purchaser is entitled to receive the full guaranty in all nutrients as expressed by the manufacturer's guaranty.

The results of analysis of all inspection samples are given in Tables, 1, 2 and 3. If an analysis shows a deficiency of more than the tolerance in the above table, the amount claimed for nitrogen, phosphoric acid, or potash, or if the percent of the relative value is 98 or less, the result is indicated in the tables by an asterisk by the figures.



## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

- Allied Chemical & Dye Corporation  
Nitrogen Division  
40 Rector St., New York, N. Y.
- Aluminum & Chemical Corporation  
1167 Red River St.  
Clarksville, Tennessee
- American Agricultural Chemical Co.  
50 Church St., New York, N. Y.
- American Cyanamid Company  
30 Rockefeller Plaza, New York, N. Y.
- Armour Fertilizer Works  
350 Hart Bldg., Atlanta, Georgia
- Associated Cooperative, Inc.  
312 Montgomery Ave., Sheffield, Ala.
- Bartlett & O'Bryan Fertilizer Company  
108 River Road, Owensboro, Ky.
- Bluegrass Plant Foods, Inc.  
Cynthiana, Kentucky
- Buhner Fertilizer Company, Inc.  
Louisville, Kentucky
- Bunton Seed Company  
300-312 E. Jefferson, Louisville, Ky.
- Burley Belt Plant Food Works  
Lexington, Kentucky
- Commonwealth Fertilizer Company, Inc.  
Morgantown Rd., Russellville, Ky.
- Cooperative Fertilizer Service  
S. S. Bldg., Richmond, Virginia
- Darling & Company  
Chicago, Illinois
- Davison Chemical Corporation  
Baltimore, Maryland
- E. I. Du Pont de Nemours & Company  
Wilmington 99, Delaware
- Farmers Exchange  
Burkesville, Kentucky
- Farmers Fertilizer Company  
Smiths Grove, Kentucky
- Federal Chemical Company  
Starks Bldg., Louisville, Ky.
- Hutson Chemical Company  
Murray, Kentucky
- International Minerals & Chemical Corp.  
Lockland Station, Cincinnati, Ohio
- Knoxville Fertilizer Company  
Knoxville, Tennessee
- Land O Nan Warehouse  
Sturgis, Kentucky
- Louisville Fertilizer Company  
Box 1088, Nashville, Tennessee
- Monsanto Chemical Company  
1700 S. Second St., St. Louis, Mo.
- North American Fertilizer Company  
Preston St. at Bergman, Louisville, Ky.
- Olin Mathieson Chemical Corporation  
Houston, Texas
- Price Chemical Company  
Miller's Lane, Louisville, Kentucky
- Robin Jones Phosphate Company  
804 Church St., Nashville, Tennessee
- Ruhm Phosphate & Chemical Company  
813 Garden St., Columbia, Tennessee
- O. M. Scott & Sons Company  
Marysville, Ohio
- Schrock Fertilizer Service  
Congerville, Illinois
- Southern Nitrogen Supply  
Yazoo City, Mississippi
- Spencer Chemical Company  
Box 604, Pittsburg, Kansas
- Swift & Company  
Union Stock Yards, Chicago, Illinois
- Tennessee Chemical Company  
(See Armour Fertilizer Works)
- Tennessee Corporation  
Lockland Station, Cincinnati, Ohio
- Tri-State Chemical Company  
Henderson, Kentucky
- Valley Counties of Kentucky  
Box 351, Murray, Kentucky
- Virginia-Carolina Chemical Corporation  
Richmond, Virginia
- West Kentucky Liquid Fertilizer Company  
Hopkinsville, Kentucky
- Zircon Products Company  
Indianapolis  
Indiana

Standing of Manufacturers Based on Samples Equal to Guaranty in All Respects  
and Analyses Within Tolerance - 1957

COMPANY	Samples			Analyses of nitrogen, phosphoric acid and potash		
	Total Number	Equal to guaranty in all respects		Total Number	Equal to guaranty or within tolerance**	
		Number	Percent*		Number	Percent*
Aluminum & Chemical Corporation	1	1	--	3	3	--
Allied Chemical & Dye Corp.	12	12	100	24	24	100
American Agricultural Chemical	125	91	73	400	367	92
American Cyanamid	10	7	70	10	10	100
Armour Fertilizer Works	577	304	53	1,747	1,536	88
Louisville Fertilizer Co.	11	5	45	35	27	77
Tennessee Chemical Company	18	9	50	54	42	78
Associated Cooperative	32	27	84	53	51	96
Bartlett & O'Bryan Fertilizer Co.	30	7	23	83	60	72
Bluegrass Plant Foods	96	57	59	288	258	90
Buhner Fertilizer Company	48	35	73	148	137	93
Bunton Seed Company	4	2	--	12	11	--
Burley Belt Plant Foods Works	26	10	38	86	74	86
California Spray Chemical Corp.	1	--	--	3	2	--
Chilean Nitrate Sales Corp.	2	2	--	2	2	--
Commonwealth Fertilizer Company	45	21	47	129	107	83
Consolidated Chemical Company (See Price Chemical Company)						
Cooperative Fertilizer Service	475	298	63	1,381	1,263	91
Darling & Company	49	26	53	134	106	79
Davison Chemical Company	319	122	38	960	744	78
E. I. DuPont DeNem. & Company	1	1	--	1	1	--
E'Town Fertilizer Company	21	16	76	64	60	94
Farmers Exchange Company	1	--	--	3	3	--
Farmers Fertilizer Company	12	8	67	33	29	88
Federal Chemical Company	357	126	35	1,083	824	76
Fertiline Corp. of America	1	--	--	1	--	--
Grace Chemical Company	8	8	100	8	8	100
Hutson Chemical Company	30	10	33	80	60	75
Hydroponic Chemical Company	1	1	--	3	3	--
International Min. & Chem. Corp.	195	94	48	584	494	85
Kentucky Fertilizer Works	28	20	71	96	90	94
Knoxville Fertilizer Company	191	106	55	575	484	84
Land-O-Nan Warehouse	34	11	32	89	64	72
Louisville Fertilizer Company (See Armour Fertilizer Works)						
J. A. McCarty Seed Company	1	1	--	3	3	--
Mid-South Chemical Company	8	8	100	8	8	100
Mississippi Chemical Corporation	1	1	--	1	1	--
Mississippi River Chemical Corp.	4	4	--	4	4	--
Missouri Plant Food	17	14	82	46	44	96
Monsanto Chemical Company	5	5	100	5	5	100
Morrison & Wallace	1	1	--	3	3	--
Na-Churs Plant Food Company	3	3	--	9	9	--
Nitro-Form Agricultural Chem.	1	1	--	1	1	--
North American Fertilizer Co.	170	88	52	520	446	86
Ohio Valley Fertilizer Corp.	34	11	32	111	89	80
Olin Mathieson Chemical Corp.	7	7	100	17	17	100
Phillips Petroleum Company	3	3	--	3	3	--
Plant Marvel Laboratories	1	1	--	4	4	--
Price Chemical Company	71	48	68	221	202	91
Consolidated Chemical	17	9	53	58	51	88
Ra-Pid-Gro Corporation	2	--	--	7	5	--
Republic Steel Corporation	1	1	--	1	1	--
Robin Jones Phosphate Company	6	5	83	12	11	92
Ruhm Phosphate & Chemical Co.	7	2	29	10	4	40
Schrock Fertilizer Service	6	5	83	6	5	83
Scope Chemicals	1	1	--	3	3	--
O. M. Scott & Sons	6	3	50	14	13	93

\* Percent is not indicated when number of samples is less than 5

\*\* See "Tolerance Scale" on page 8

Standing of Manufacturers Based on Samples Equal to Guaranty in All Respects  
and Analyses Within Tolerance - 1957

COMPANY	Samples			Analyses of nitrogen, phosphoric acid and potash		
	Total Number	Equal to guaranty in all respects		Total Number	Equal to guaranty or within tolerance**	
		Number	Percent*		Number	Percent*
Sewerage Comm. of Milwaukee	3	2	--	6	5	--
The Smith Agricultural Chem. Co.	1	1	--	3	3	--
Southern Nitrogen Supply	1	1	--	1	1	--
Southern States (See Cooperative Fertilizer Ser.)						
Southern States Clark County Coop.	1	1	--	3	3	--
Spencer Chemical Company	9	9	100	9	9	100
Stadler Fertilizer Company	1	1	--	3	3	--
Swift & Company	55	23	42	172	139	81
Tennessee Chemical Company (See Armour Fertilizer Works)						
Tennessee Corporation	95	34	36	297	242	81
Thompson Sales	2	2	--	4	4	--
Tri-State Chemical Company	40	22	55	112	97	87
U. S. Steel Corporation	3	3	--	3	3	--
Valley Counties of Kentucky	63	29	46	132	95	72
Virginia-Carolina Chemical Corp.	185	115	62	559	497	89
West Kentucky Liquid Fertilizer	15	3	20	45	33	73
Harold Willett	1	1	--	3	3	--
Zircon Products Company	1	1	--	3	3	--
<b>TOTAL</b>	<b>3,610</b>	<b>1,907</b>	<b>53</b>	<b>10,594</b>	<b>9,016</b>	<b>85</b>

A comparison of the totals in the above table with those for the year 1956 follows:

	<u>1956</u>	<u>1957</u>
Number of samples, Total	3,082	3,610
Samples equal to guaranty in all respects	1,758	1,907
Percent	57	53
Analyses, Total	8,295	10,594
Equal to guaranty or within tolerance	7,057	9,016
Percent	85	85

The decrease in percentage of samples equal to guaranty in all respects in 1957 as compared with 1956 is largely explained by a change in method of calculation. Beginning in 1957 a sample was not considered as equal to guaranty in all respects if the guaranty as to source of potash was not met. Previously this had not been considered in making this calculation.

\* Percent is not indicated when number of samples is less than 5  
\*\* See "Tolerance Scale" on page 8

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>ALLIED CHEM &amp; DYE CORP NIT DIV</u>					
	12 12 12M				
7052	SANDERS SUPPLY	12.3	12.3	12.7	103
8338	GILLISPIE SEED COMPANY	11.9	12.0	12.2	100
	33 5 AMMONIUM NITRATE				
6203	SOUTHERN STATES FRANKFORT COOP	33.8			101
9080	FARM & HOME STORE	33.9			101
<u>ALUMINUM &amp; CHEMICAL CORPORATION</u>					
	4 8 8M				
8390	TODD COUNTY SEED COMPANY	4.3	7.9	8.4	103
<u>AMERICAN AGRICULTURAL CHEMICAL CO</u>					
	0 20 20M				
6164	LEBANON CARRIAGE & IMPLEMENT COMPANY		20.1	21.5	103
6176	WALTERS & THOMPSON		20.3	20.7	102
	0 20 20M WITH 3 LBS BORAX PER 100 <sup>(1)</sup>				
6163	LEBANON CARRIAGE & IMPLEMENT COMPANY		20.7	19.9	102
	3 12 12M				
6147	WALTERS & THOMPSON	3.0	13.1	12.0	105
9059	AMERICAN AGRI CHEM WHSE LEXINGTON	3.1	12.1	12.2	102
	4 12 8M				
8375	WOODSON LEWIS	3.9	12.3	8.4	102
9053	R E HUTTON	4.0	12.5	8.1	103
9058	AMERICAN AGRI CHEM WHSE LEXINGTON	4.0	12.2	7.9	101
	6 12 12M				
7054	CHRISTOPHER FARM SUPPLY	5.9	12.2	12.1	100
	60 MURIATE OF POTASH				
9060	AMERICAN AGRI CHEM WHSE LEXINGTON			60.0	100
<u>AMERICAN CYANAMID COMPANY</u>					
	21 CALCIUM CYANAMID				
5221	GALLOWAY SEED COMPANY	20.8			99
5411	TRIGG COUNTY TRADING COMPANY	20.8			99
6199	CARROLL COUNTY FARM BUREAU COOP	20.8			99
	33 5 AMMONIUM NITRATE				
5461	FARMERS COOPERATIVE STORE OWENSBORO	33.6			100

(1) SEE BORON TABLE - PAGE 34

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>ARMOUR FERTILIZER WORKS</u>					
	0 20 20M				
5493	A C BUTTS & SON		20.1	20.8	102
6146	TRIMBLE COUNTY FARM BUREAU COOP		20.6	19.0*	100
6148	FARMERS SUPPLY COMPANY EMINENCE		20.4	19.7	101
6156	JEWELL & HAYDON HARDWARE		19.9	20.2	100
	0 20 20M WITH 3 LBS BORAX PER 100 (1)				
5286	HUNT BROTHERS		20.2	19.7	100
8262	BIG FOUR FEED & IMPLEMENT COMPANY		18.3*	19.7	94*
	0 20 20M WITH 5 LBS BORAX PER 100 (2)				
8287	IDEAL HARDWARE COMPANY		20.2	20.6	102
	3 9 6M				
8361	NUMAN BLACKWELL	2.9	9.1	6.2	99
	3 12 6M				
5239	WALLACES HARDWARE	3.0	12.2	6.4	102
5299	A C BUTTS & SON	3.0	13.8	6.2	110
5481	SLAUGHTERS MERCANTILE COMPANY	3.1	12.2	6.3	103
5482	BROOKS SERVICE STATION	3.1	12.0	6.3	102
7014	C E HERRIN	3.1	12.0	6.4	102
7029	GIBSON PRODUCE COMPANY	3.1	12.3	6.2	103
8301	ALLEN COAL COMPANY	2.2*	12.4	6.2	96*
	3 12 12M				
5287	HUNT BROTHERS	3.1	12.6	12.7	105
6153	T F KEENE & SONS	3.0	12.1	12.5	102
6155	JEWELL & HAYDON HARDWARE	3.0	12.5	12.6	104
6209	T F KEENE & SONS	3.0	12.3	12.2	102
6215	SPRINGFIELD FEED & GRAIN COMPANY	3.2	12.1	12.7	103
8277	NUMAN BLACKWELL	2.9	13.4	14.0	110
8303	ALLEN COAL COMPANY	3.0	12.4	12.4	103
8382	ADAIR MILLING COMPANY	2.9	12.2	12.7	102
9076	J C EVERETT COMPANY INC	3.3	12.0	12.5	103
	4 12 8M				
5219	GALLOWAY SEED COMPANY	3.6*	12.7	8.5	102
5240	WALLACES HARDWARE	3.6*	11.3*	7.9	94*
5288	HUNT BROTHERS	3.9	12.7	7.6*	102
5387	MILBURN MILL	3.9	12.3	8.3	101
5494	A C BUTTS & SON	4.0	12.3	8.0	101
6154	T F KEENE & SONS	3.8	12.3	8.4	101
6165	SPRINGFIELD FEED & GRAIN COMPANY	3.8	12.6	8.3	102
6168	PRENTISS MARTIN	4.0	12.3	8.5	103
6210	T F KEENE & SONS	3.9	12.4	7.9	101
6232	JACOBS COAL & TRANSFER COMPANY	3.9	12.4	8.4	102
8255	N T NUCKOLS	3.7*	11.5*	8.1	96*
8261	BIG FOUR FEED & IMPLEMENT COMPANY	3.6*	12.3	8.0	99
8278	NUMAN BLACKWELL	4.1	12.5	8.5	104
8283	FARMERS MILL & SUPPLY CO BROWNSVILLE	3.8	12.0	8.2	99
8288	GLASGOW TRADING CENTER	3.9	12.1	8.1	100
8308	G M HAYCRAFT & SON	4.1	12.4	8.9	105
8363	AYRES SEED & FERTILIZER COMPANY	3.9	12.4	7.9	101
8366	FARMERS MILL & SUPPLY CO BROWNSVILLE	3.7*	12.2	8.2	99
8381	ADAIR MILLING COMPANY	3.9	12.1	8.5	101
9072	UNION GROCERY COMPANY	4.1	12.2	8.5	103
9075	KEITH & LYKINS	4.0	12.1	8.4	101
9078	GREENUP MILLING COMPANY	3.9	12.3	8.4	102
	4 12 8M WITH 5 LBS BORAX PER 100 (3)				
8286	IDEAL HARDWARE COMPANY	3.6*	12.1	8.2	98*
	4 24 12M				
8365	FARMERS MILL & SUPPLY CO BROWNSVILLE	4.0	23.8	12.0	99

(1) SEE BORON TABLE - PAGE 34

(2) SEE BORON TABLE - PAGE 34

(3) SEE BORON TABLE - PAGE 34

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>ARMOUR FERTILIZER WORKS CONTINUED</u>					
5220	5 10 10M GALLOWAY SEED COMPANY	5.1	10.4	9.8	102
5300	A C BUTTS & SON	4.7*	10.5	9.9	100
5365	KUTTAWA MILLING COMPANY	4.9	10.1	10.0	100
7027	GIBSON PRODUCE COMPANY	5.4	10.4	10.0	104
6167	5 20 20M PRENTISS MARTIN	4.8	21.6	18.1*	101
7013	C E HERRIN	4.7*	20.9	18.6*	99
7028	GIBSON PRODUCE COMPANY	4.7*	18.6*	21.1	97*
7062	MCWHORTER PRODUCE COMPANY	5.1	18.4*	21.5	98*
8284	FARMERS MILL & SUPPLY CO BROWNSVILLE	4.7*	18.4*	20.1	95*
8331	IDEAL HARDWARE COMPANY	4.7*	18.2*	21.1	95*
9046	SAM RYLE	5.1	19.5*	20.0	99
9079	GREENUP MILLING COMPANY	4.9	19.2*	20.9	99
8285	5 20 20M WITH 5 LBS BORAX PER 100 <sup>(1)</sup> IDEAL HARDWARE COMPANY	4.5*	18.4*	20.0	94*
5301	6 12 12M A C BUTTS & SON	5.7*	12.3	11.9	99
5318	ROSS SEED COMPANY	5.8	12.2	12.0	100
5322	CADIZ HARDWARE COMPANY	5.8	12.6	12.5	102
5379	AUSTIN & AUSTIN SEED COMPANY	6.2	12.0	12.7	102
5495	A C BUTTS & SON	5.9	11.9	12.5	100
6161	LORETTO MILL COMPANY	5.7*	12.3	12.4	100
8254	N T NUCKOLS	5.8	12.2	12.3	100
5253	8 8 8M DENTON HARDWARE COMPANY	5.6*	7.5*	19.2	106
5289	8 24 16M HUNT BROTHERS	7.5*	23.0*	16.0	96*
5367	BIRMINGHAM MILLING COMPANY	7.7*	24.9	16.2	101
5413	CADIZ HARDWARE COMPANY	7.4*	24.6	16.1	99
8327	GLASGOW TRADING CENTER	7.5*	24.0	15.7	98*
8364	FARMERS FEED & SUPPLY CO BROWNSVILLE	7.4*	23.9	16.4	98*
5514	10 6 4M HARRALSON SEED COMPANY	9.5*	6.8	6.1	105
5366	10 10 10M KUTTAWA MILLING COMPANY	7.6*	13.0	8.1*	95*
7063	MCWHORTER PRODUCE COMPANY	8.4*	10.2	11.0	94*
5443	12 12 12M YOPP SEED COMPANY	11.9	12.8	12.4	102
5515	HARRALSON SEED COMPANY	11.8	12.5	12.4	101
9066	33 5 AMMONIUM NITRATE BRENT & COMPANY	33.7			101
5298	20 SUPERPHOSPHATE A C BUTTS & SON		20.3		102
5364	KUTTAWA MILLING COMPANY		19.9		98*
5409	PAUL GARDNER GENERAL MERCHANDISE		20.1		100
5412	CADIZ HARDWARE COMPANY		19.1*		95*
6233	JACOBS COAL & TRANSFER COMPANY		19.9		100
8302	ALLEN COAL COMPANY		20.1		100
5513	60 MURIATE OF POTASH HARRALSON SEED COMPANY			60.0	100
6166	SPRINGFIELD FEED & GRAIN COMPANY			59.5	99
6204	J A BENNETT HARDWARE			59.4	99

(1) SEE BORON TABLE - PAGE 34

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<u>ASSOCIATED COOPERATIVE INC</u>					
	14 14 14M				
5317	GALLOWAY CO SOIL IMPROVEMENT ASSN	14.2	14.0	135*	100
5368	MARSHALL CO SOIL IMPROVEMENT ASSN	14.0	14.5	14.1	101
5436	K R MCKINNEY & SON	14.1	13.8	14.7	101
	33 5 AMMONIUM NITRATE				
5292	T C EDWARDS	33.4			100
5358	HANCOCK COUNTY FARM SUPPLY	33.5			100
5381	MOORE SEED & GRAIN COMPANY	33.5			100
5389	BARDWELL MILLING COMPANY	33.0			99
	61 CALCIUM METAPHOSPHATE				
5293	T C EDWARDS		61.9		102
	62 CALCIUM METAPHOSPHATE				
5216	SOUTHERN STATES MORGANFIELD COOP		63.3		102
5250	FARMERS COOPERATIVE MADISONVILLE		61.9		100
5359	HANCOCK COUNTY FARM SUPPLY		62.2		100
5390	BARDWELL MILLING COMPANY		61.9		100
<u>BARTLETT &amp; O BRYAN FERTILIZER CO</u>					
	0 20 20M				
5270	BARTLETT & O BRYAN FERTILIZER CO		20.3	20.4	102
	3 12 12M				
5272	BARTLETT & O BRYAN FERTILIZER CO	2.8	11.6*	12.7	98*
	4 12 8M				
5273	BARTLETT & O BRYAN FERTILIZER CO	4.0	12.3	9.0	104
	4 16 16M				
5274	BARTLETT & O BRYAN FERTILIZER CO	4.0	15.9	17.0	101
	5 20 20M				
5275	BARTLETT & O BRYAN FERTILIZER CO	4.8	19.9	19.0*	98*
	6 12 12M				
5276	BARTLETT & O BRYAN FERTILIZER CO	5.9	12.0	12.5	100
	10 10 10M				
5277	BARTLETT & O BRYAN FERTILIZER CO	9.2*	10.9	10.7	100
	12 12 12M				
5278	BARTLETT & O BRYAN FERTILIZER CO	11.7	12.4	12.2	100
	20 SUPERPHOSPHATE				
5271	BARTLETT & O BRYAN FERTILIZER CO		19.0*		95*
<u>BLUEGRASS PLANT FOODS INC</u>					
	3 12 12M				
6207	BLUEGRASS PLANT FOODS DANVILLE	3.2	11.5*	12.1	99
9070	BLUEGRASS PLANT FOODS CYNTHIANA	3.2	11.9	12.7	102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<u>BLUEGRASS PLANT FOODS INC CONTINUED</u>		Percent)	(Percent)	(Percent)	
	4 12 8M				
6174	BLUEGRASS PLANT FOODS DANVILLE	3.7*	12.0	8.9	100
7040	PATRICK STORE	3.7*	11.8	8.5	98*
9068	BLUEGRASS PLANT FOODS CYNTHIANA	4.3	11.4*	8.3	100
	6 8 6M				
6206	BLUEGRASS PLANT FOODS DANVILLE	5.9	8.1	6.8	102
	10 10 10M				
9067	BLUEGRASS PLANT FOODS CYNTHIANA	10.0	9.6*	10.2	99
	20 SUPERPHOSPHATE				
9069	BLUEGRASS PLANT FOODS CYNTHIANA		19.0*		95*
<u>BUHNER FERTILIZER COMPANY</u>					
	0 20 20M				
6183	BUHNER & COMPANY		19.9	19.9	100
6224	BUHNER & COMPANY		18.9*	20.5	97*
8313	CLARKSON FEED STORE		19.6	19.9	99
	3 12 12M				
6179	FERN CREEK FEED & HARDWARE	3.5	12.8	13.2	110
	4 12 8M				
6160	SHEPHERDSVILLE FEED MILL	4.7	12.9	8.9	111
6214	SPRINGFIELD FEED & GRAIN COMPANY	4.6	12.6	9.2	110
8314	CLARKSON FEED STORE	4.6	12.2	8.5	106
	4 16 16M				
6186	BUHNER & COMPANY	4.8	16.2	17.5	107
6225	BUHNER & COMPANY	5.0	15.9	16.6	106
	5 20 20M				
6182	BUHNER & COMPANY	5.7	19.9	20.7	103
	6 8 6M				
6192	W C SIEGEL HARDWARE	6.2	9.6	6.5	111
	6 24 24M				
6184	BUHNER & COMPANY	5.3*	24.0	25.2	99
	10 10 10M				
6226	FERN CREEK FEED & HARDWARE	9.9	10.2	10.7	101
	60 MURIATE OF POTASH				
6185	BUHNER & COMPANY			60.0	100
<u>BUNTON SEED COMPANY</u>					
	10 12 6M				
6189	BUNTON SEED COMPANY	9.7	12.5	6.2	101



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Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>BURLEY BELT PLANT FOOD WORKS</u>					
6200	0 9 27M KENTUCKY STATE REFORMATORY		9.1	27.7	102
9061	4 12 8M BURLEY BELT PLANT FOOD WORKS	3.9	12.2	8.1	100
9063	5 10 15S BURLEY BELT PLANT FOOD WORKS	4.9	10.1	15.0	100
9062	10 10 10M BURLEY BELT PLANT FOOD WORKS	9.9	10.1	9.8	100
<u>COMMONWEALTH FERTILIZER COMPANY</u>					
5326	0 20 20M C & C HARDWARE		20.0	22.0	103
8281	MARKHAM & MCCARLEY		20.1	20.0	100
5327	4 12 8M C & C HARDWARE	3.7*	11.0*	9.9	98*
5332	J R WALLACE	3.5*	11.9	7.6*	95*
5490	J R WALLACE	3.9	11.3*	8.2	97*
8282	COMMONWEALTH FERTILIZER SERVICE	4.2	11.1*	8.4	98*
8280	6 12 12M COMMONWEALTH FERTILIZER SERVICE	5.2*	12.2	12.5	97*
8279	20 SUPERPHOSPHATE NOBLE LANIER		19.5*		98*
<u>COOPERATIVE FERTILIZER SERVICE</u>					
5485	0 20 40M WITH 4 LBS BORAX PER 100 C S MCCULLY		20.0	40.1	100
6150	SOUTHERN STATES GEORGETOWN COOP		19.8	38.0*	97*
6205	SOUTHERN STATES GEORGETOWN COOP		19.4*	38.4*	97*
7023	FARMERS SUPPLY & PRODUCE MONTICELLO		20.0	39.2*	99
7057	SOUTHERN STATES LONDON COOP		19.8	40.0	100
8256	FARMERS SERVICE TOMPKINSVILLE		20.2	37.3*	97*
8270	SOUTHERN STATES SIMPSON COOP		19.5*	39.8	99
8290	SOUTHERN STATES GLASGOW COOP		20.3	39.4	100
8358	SOUTHERN STATES HOPKINSVILLE COOP		21.1	37.0*	99
5212	0 30 30M SOUTHERN STATES MORGANFIELD COOP		29.3*	29.5	98*
5448	PHELPS BROTHERS FARM SERVICE		30.5	29.0*	100
5486	C S MCCULLY		29.4*	30.1	99
6212	SOUTHERN STATES BARDSTOWN COOP		30.0	30.0	100
7025	FARMERS SUPPLY & PRODUCE MONTICELLO		30.0	29.1*	99
7039	WHITLEY COUNTY FARM SUPPLY		30.1	30.0	100
7041	RALPH HOVIOUS		29.0*	30.7	99
7051	LINCOLN FARM SERVICE		31.1	30.0	102
8344	SOUTHERN STATES BOWLING GREEN COOP		30.0	30.0	100
9073	SOUTHERN STATES FLEMINGSBURG COOP		30.3	30.3	101

(1) SEE BORON TABLE - PAGE 34

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

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Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<i>COOPERATIVE FERT SERVICE CONTINUED</i>					
3 12 12M					
5213	SOUTHERN STATES MORGANFIELD COOP	3.0	11.9	12.2	100
5400	HICKORY BILLS FARM STORE	3.2	12.0	13.0	104
5417	PRINCETON FARM SERVICE	3.3	11.9	12.7	103
5421	SOUTHERN STATES CRITTENDEN COOP	3.3	11.7	13.0	103
6157	SOUTHERN STATES BARDSTOWN COOP	3.0	11.9	12.4	100
6171	SOUTHERN STATES LAGRANGE COOP	3.3	11.4*	12.4	100
6194	SOUTHERN STATES OWENTON COOP	3.1	12.0	12.4	102
6197	TRIMBLE COUNTY FARM BUREAU COOP	3.3	12.2	12.5	104
6198	CARROLL COUNTY FARM BUREAU COOP	3.0	11.6*	12.2	99
6213	SOUTHERN STATES BARDSTOWN COOP	2.9	11.3*	13.0	98*
6218	TRIMBLE COUNTY FARM BUREAU COOP	2.8	11.9	12.2	99
7024	FARMERS SUPPLY & PRODUCE MONTICELLO	3.7	12.0	10.9*	102
8257	FARMERS SERVICE TOMPKINSVILLE	2.8	12.3	11.1*	98*
8389	FARMERS SERVICE TOMPKINSVILLE	2.9	11.5*	12.8	99
9043	SOUTHERN STATES CAMPBELL COOP	3.1	12.0	13.0	103
9055	SOUTHERN STATES CYNTHIANA COOP	3.2	11.9	12.7	102
4 12 8M					
5357	HANCOCK COUNTY FARM SUPPLY	4.2	12.2	8.4	103
5369	MARSHALL CO SOIL IMPROVEMENT ASSN	4.3	11.6*	8.9	102
5401	HICKORY BILLS FARM STORE	4.1	12.1	8.1	101
5422	SOUTHERN STATES CRITTENDEN COOP	4.1	11.7	8.3	100
6158	SOUTHERN STATES BARDSTOWN COOP	4.1	12.7	9.0	106
6162	SOUTHERN STATES LEBANON COOP	4.0	12.5	8.8	104
6195	SOUTHERN STATES OWENTON COOP	4.3	12.2	8.7	105
6196	TRIMBLE COUNTY FARM BUREAU COOP	4.3	11.9	8.8	103
7015	GIBSON FARM & HOME SERVICE	4.2	12.8	8.7	107
7020	MCWHORTER BROTHERS	4.1	12.3	8.2	103
7038	WHITLEY COUNTY FARM SUPPLY	4.1	12.0	9.7	105
7045	MURPHY & PHILLIPS	4.1	12.0	8.4	102
7055	SOUTHERN STATES LONDON COOP	3.9	11.8	8.4	99
7058	HARRISON FARM SUPPLY	3.9	12.2	8.4	101
8289	SOUTHERN STATES GLASGOW COOP	4.3	12.0	8.2	103
8311	SOUTHERN STATES LEITCHFIELD COOP	4.1	11.7	8.4	100
8362	FARMERS SUPPLY COMPANY MORGANTOWN	4.3	11.6*	8.3	101
8388	FARMERS SERVICE TOMPKINSVILLE	3.9	12.2	8.4	101
9045	SOUTHERN STATES CAMPBELL COOP	4.1	12.4	8.8	104
9047	PIKE COUNTY HATCHERY	4.1	12.2	9.0	104
9048	C D WILLIAMS	4.1	12.2	8.9	104
9049	SOUTHERN STATES CARLISLE COOP	4.1	12.3	9.0	104
4 12 12M					
7018	HARLAN FARMERS SUPPLY	4.2	12.6	12.7	105
5 10 10M					
7017	HARLAN FARMERS SUPPLY	5.1	10.5	10.7	104
7059	HARLAN FARMERS SUPPLY	4.9	10.1	10.3	100
5 20 20M					
5214	SOUTHERN STATES MORGANFIELD COOP	5.1	19.9	20.0	100
5402	HICKORY BILLS FARM STORE	5.1	20.5	19.4*	101
5423	SOUTHERN STATES CRITTENDEN COOP	5.3	20.3	20.2	102
6159	BRIDWELLS FEED MILL	5.2	18.3*	21.5	98*
6170	SOUTHERN STATES LAGRANGE COOP	5.4	22.0	17.4*	103
6175	SOUTHERN STATES SHELBYVILLE COOP	4.8	18.8*	20.5	97*
6180	SOUTHERN STATES LOUISVILLE COOP	5.0	19.5*	20.7	100
6217	TRIMBLE COUNTY FARM BUREAU COOP	5.0	19.4*	20.5	99
6219	SOUTHERN STATES LAGRANGE COOP	5.0	19.4*	21.1	100
7019	MCWHORTER BROTHERS	5.2	19.1*	20.7	99
7022	FARMERS SUPPLY & PRODUCE MONTICELLO	5.2	19.0*	21.1	100
7042	RALPH HOVIOUS	5.3	19.4*	20.3	100
7044	CASEY COUNTY FARM SUPPLY	5.3	20.1	18.6*	100
7049	LINCOLN FARM SERVICE	5.2	19.1*	21.0	100
8271	SOUTHERN STATES SIMPSON COOP	5.1	18.7*	21.6	99
8312	SOUTHERN STATES LEITCHFIELD COOP	5.3	19.4*	20.5	100
8345	SOUTHERN STATES BOWLING GREEN COOP	5.1	20.3	20.0	101
8359	SOUTHERN STATES HOPKINSVILLE COOP	5.1	19.8	20.6	101
6 12 12M					
5215	SOUTHERN STATES MORGANFIELD COOP	6.1	12.0	12.7	102
5449	PHELPS BROTHERS FARM SERVICE	6.2	12.0	12.5	102
5517	SOUTHERN STATES OWENSBORO COOP	6.3	11.6*	12.7	101
7012	TAYLOR FARM SERVICE	5.8	12.0	12.3	99
7026	FARMERS SUPPLY & PRODUCE MONTICELLO	6.2	11.9	12.2	101
8309	SOUTHERN STATES LEITCHFIELD COOP	5.9	11.8	12.5	100
9044	SOUTHERN STATES CAMPBELL COOP	6.0	11.9	12.5	101
9077	SOUTHERN STATES MAYSVILLE COOP	5.8	11.9	12.5	99

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Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<u>COOPERATIVE FERT SERVICE CONTINUED</u>					
10 10 10M					
5403	HICKORY BILLS FARM STORE	10.5	10.2	10.5	104
5518	SOUTHERN STATES OWENSBORO COOP	10.6	10.0	10.5	104
5523	SOUTHERN STATES HENDERSON COOP	10.4	10.0	10.7	103
6169	SOUTHERN STATES HARRODSBURG COOP	10.0	12.2	9.1*	106
7021	FARMERS SUPPLY & PRODUCE MONTICELLO	9.4*	12.3	12.6	109
7050	LINCOLN FARM SERVICE	10.5	10.1	10.1	103
8310	SOUTHERN STATES LEITCHFIELD COOP	10.4	10.0	10.3	103
10 20 20M					
7016	HARLAN FARMERS SUPPLY	10.5	21.7	18.1*	103
10 30 20M					
5437	K R MCKINNEY & SON	10.1	31.0	19.3*	101
20 52 0					
5524	SOUTHERN STATES HENDERSON COOP	20.0	52.5		101
20 SUPERPHOSPHATE					
5516	SOUTHERN STATES OWENSBORO COOP		19.9		99
6193	SOUTHERN STATES OWENTON COOP		20.7		103
6202	SOUTHERN STATES FRANKFORT COOP		20.1		100
7056	SOUTHERN STATES LONDON COOP		20.3		101
7060	HARLAN FARMERS SUPPLY		19.9		99
9054	SOUTHERN STATES CYNTHIANA COOP		18.8*		94*
9074	SOUTHERN STATES FLEMINGSBURG COOP		20.1		100
60 MURIATE OF POTASH					
6149	SOUTHERN STATES GEORGETOWN COOP			60.0	100
62 MURIATE OF POTASH					
5399	HICKORY BILLS FARM STORE			62.8	101
<u>DARLING &amp; COMPANY</u>					
0 25 25M					
5386	FARMERS GIN COMPANY CLINTON		25.1	26.5	102
5394	CLINTON HATCHERY		28.0	25.5	109
6 12 12M					
5296	T C EDWARDS	6.0	12.5	12.0	102
5304	LYNN GROVE FEED & SEED COMPANY	5.9	12.3	12.4	101
5370	MARSHALL CO SOIL IMPROVEMENT ASSN	6.1	12.0	13.5	103
5380	AUSTIN & AUSTIN SEED COMPANY	6.0	11.9	13.2	102
5384	MOORE SEED & GRAIN COMPANY	5.9	11.9	12.5	100
8 24 16M					
5290	HUNT BROTHERS	6.5*	23.4*	16.8	94*
5383	MOORE SEED & GRAIN COMPANY	7.7*	23.3*	17.0	99
5496	AUSTIN & AUSTIN SEED COMPANY	8.2	23.4*	16.8	100
60 MURIATE OF POTASH					
5294	T C EDWARDS			60.5	101
5382	MOORE SEED & GRAIN COMPANY			60.0	100
5393	CLINTON HATCHERY			60.0	100

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>DAVISON CHEMICAL CORPORATION</u>					
5258	0 12 12M BENNETT FARM SUPPLY		12.0	12.1	100
8336	0 20 20M SIMPSON COUNTY SEED COMPANY		19.9	21.1	102
8265	0 20 20M WITH 2 LBS BORAX PER 100 ALLEN COUNTY FARMERS SERVICE (1)		20.0	19.7	100
8264	3 9 18M WITH 2 LBS BORAX PER 100 ALLEN COUNTY FARMERS SERVICE (2)	2.9	8.6*	19.3	100
5210	3 12 12M HENDERSON FEED & COMMISSION COMPANY	3.6	11.8	13.2	106
5242	FARMERS COOPERATIVE MADISONVILLE	3.2	12.1	12.5	103
5462	DAVISON CHEMICAL CO WHSE OWENSBORO	3.6	12.6	12.7	108
6178	FLOORES FEED STORE	4.0	13.2	13.2	115
6211	JEWELL & HAYDON HARDWARE	4.1	14.0	12.7	118
6229	HALL SEED COMPANY	3.0	11.9	12.1	100
8328	FARMERS SUPPLY GLASGOW	3.0	11.9	12.1	100
9051	C S BRENT SEED COMPANY	3.7	12.2	12.8	107
5243	4 12 8M FARMERS COOPERATIVE MADISONVILLE	3.9	13.2	7.7*	104
5259	BENNETT FARM SUPPLY	4.2	11.2*	8.2	98*
5314	CALLOWAY CO SOIL IMPROVEMENT ASSN	4.0	11.8	7.9	99
5331	FELTY PRODUCE COMPANY	3.8	11.9	8.0	98*
5463	DAVISON CHEMICAL CO WHSE OWENSBORO	3.6*	11.4*	8.4	95*
5501	MARSHALL CO SOIL IMPROVEMENT ASSN	4.1	12.3	7.8	102
6177	FLOORES FEED STORE	4.0	11.8	8.5	100
7043	TARTER FEED MILL	4.2	12.6	10.6	110
8263	ALLEN COUNTY FARMERS SERVICE	3.9	11.4*	8.0	97*
8269	GILLISPIE SEED COMPANY	4.2	11.9	8.1	101
8329	FARMERS SUPPLY GLASGOW	4.0	12.2	7.5*	100
8373	ENGLANDS FEED STORE	3.9	11.1*	8.5	96*
8383	ADAIR MILLING COMPANY	4.2	11.4*	9.0	101
8387	JOE SHELLY FEED COMPANY	3.6*	13.5	7.2*	102
5335	4 16 16M E C RUMMAGE & SON	4.4	15.5*	16.0	100
5244	5 20 20M FARMERS COOPERATIVE MADISONVILLE	5.1	18.9*	19.9	97*
5336	E C RUMMAGE & SON	5.6	17.4*	18.9*	81*
5347	CRAFTON & DUNCAN	4.8	19.9	19.2*	98*
5464	DAVISON CHEMICAL CO WHSE OWENSBORO	5.4	19.3*	20.8	101
5526	WABASH ELEVATOR COMPANY	4.9	19.0*	18.2*	95*
8333	SIMPSON COUNTY SEED COMPANY	4.6*	19.3*	17.9*	94*
8371	YOUNG SEED HOUSE	4.8	19.5*	18.6*	96*
5211	6 8 6M HENDERSON FEED & COMMISSION COMPANY	5.6*	8.4	7.2	102
5260	BENNETT FARM SUPPLY	6.2	8.3	6.2	104
6223	BUECHEL PRODUCE EXCHANGE	5.5*	8.2	7.6	101
9050	C S BRENT SEED COMPANY	5.6*	10.4	9.1	116
5245	6 12 12M FARMERS COOPERATIVE MADISONVILLE	5.9	12.2	12.4	101
5465	DAVISON CHEMICAL CO WHSE OWENSBORO	6.1	11.9	12.2	101
5479	SMITH & REYNOLDS	5.9	11.9	12.4	100
8335	SIMPSON COUNTY SEED COMPANY	5.7*	11.9	12.6	99
5261	8 8 8M BENNETTS FARM SUPPLY	7.4*	7.9	8.1	96*

(1) SEE BORON TABLE - PAGE 34

(2) SEE BORON TABLE - PAGE 34

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<u>DAVISON CHEM CORP CONTINUED</u>					
8 24 16M					
5420	GEORGE PATMORE & SON	7.7*	23.1*	16.3	97*
5480	SMITH & REYNOLDS	7.6*	23.7	15.7	98*
8372	ENGLANDS FEED STORE	7.5*	23.1*	16.2	96*
10 10 10M					
5246	FARMERS COOPERATIVE MADISONVILLE	8.5*	11.9	9.5*	98*
5262	BENNETTS FARM SUPPLY	9.8	10.3	10.3	101
5337	E C RUMMAGE & SON	8.6*	10.9	9.5*	95*
5385	MOORE SEED & GRAIN COMPANY	8.6*	11.6	9.9	98*
6221	BUECHEL PRODUCE EXCHANGE	10.1	9.6*	10.8	101
6231	HALL SEED COMPANY	8.8*	11.2	12.7	103
8334	SIMPSON COUNTY SEED COMPANY	9.3*	11.6	9.2*	101
12 12 12M					
5466	DAVISON CHEMICAL CO WHSE OWENSBORO	12.1	11.1*	12.2	98*
6145	BUECHEL PRODUCE EXCHANGE	11.3*	12.7	12.5	100
6222	BUECHEL PRODUCE EXCHANGE	12.7	11.2*	12.4	101
6230	HALL SEED COMPANY	12.2	11.7	12.2	100
9052	C S BRENT SEED COMPANY	13.0	11.6*	12.0	103
20 SUPERPHOSPHATE					
5492	JARVIS SWEET FEED MILL		21.0		105
60 MURIATE OF POTASH					
5241	FARMERS COOPERATIVE MADISONVILLE			60.0	100
<u>E I DUPONT DE NEMOURS &amp; COMPANY</u>					
45 NU GREEN					
5478	FEDERAL CHEMICAL CO WHSE HENDERSON	45.4			101
<u>E TOWN FERTILIZER COMPANY</u>					
2 20 20M					
8319	E TOWN FERTILIZER COMPANY	2.4	20.0	20.2	102
3 12 12M					
8316	E TOWN FERTILIZER COMPANY	3.3	12.1	12.7	104
4 12 8M					
8315	E TOWN FERTILIZER COMPANY	4.4	12.0	8.5	104
4 16 16M					
8320	E TOWN FERTILIZER COMPANY	4.5	16.0	17.1	104
5 10 10M					
8304	CANN BROTHERS	5.2	10.2	10.2	103
5 20 20M					
8317	E TOWN FERTILIZER COMPANY	5.8	19.4*	21.1	103
10 10 10M					
8318	E TOWN FERTILIZER COMPANY	9.9	11.4	11.1	106

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>FARMERS EXCHANGE COMPANY</u>					
8242	5 10 5M FARMERS EXCHANGE COMPANY BURKESVILLE	4.8	11.9	5.1	108
<u>FARMERS FERTILIZER COMPANY</u>					
8272	12 12 12M FARMERS EXCHANGE BURKESVILLE	11.9	12.1	13.4	102
<u>FEDERAL CHEMICAL COMPANY</u>					
8291	0 9 27 WITH 5 LBS BORAX PER 100 <sup>(1)</sup> ARVIN MCCAIN		9.2	27.7	102
5471	0 20 20M FEDERAL CHEMICAL CO WHSE HENDERSON		20.1	20.7	102
8268	J W EDWARDS & SON		21.3	19.8	104
8346	ARVIN MCCAIN		20.0	20.4	101
8243	3 9 18M WITH 4 LBS BORAX PER 100 <sup>(2)</sup> J W EDWARDS & SON	3.4	9.0	18.1	103
5473	3 9 27M FEDERAL CHEMICAL CO WHSE HENDERSON	3.0	9.0	27.2	100
5279	3 12 12M WYNDALLS FARM STORE	3.2	12.0	12.0	101
5395	CLINTON HATCHERY	4.3	11.5*	12.6	108
5404	W C BROOKS	3.2	11.9	12.8	103
5472	FEDERAL CHEMICAL CO WHSE HENDERSON	3.2	11.9	12.7	102
7048	BAUGHMAN MILLING COMPANY	3.3	11.9	12.5	103
8294	ARVIN MCCAIN	2.9	11.5*	11.9	97*
5217	4 12 8M KUTTAWA FEED & SEED COMPANY	3.9	12.0	8.2	100
5280	WYNDALLS FARM STORE	4.1	11.9	8.9	102
5328	CARLISLE & ABNER	4.3	11.9	8.1	102
5333	EVERETT WOOSLEY GENERAL STORE	4.0	11.5*	8.0	98*
5376	YOUNGBLOOD BROTHERS	4.0	12.0	9.0	102
5396	CLINTON HATCHERY	4.0	12.1	8.5	102
5483	BROOKS SERVICE STATION	4.6	11.5*	8.1	102
6172	MAYES HELM & COYLE	4.2	11.9	8.4	102
8297	ARVIN MCCAIN	4.2	11.7	8.7	102
8321	UPTON SWEET FEED MILL	4.3	12.0	8.1	102
8339	A L WEAVER GENERAL STORE	4.3	11.8	9.0	103
9081	MEADE & COMPANY	4.2	11.7	8.3	101
5457	4 16 15M WYNDALLS FARM STORE	4.2	15.7	16.0	100
5474	FEDERAL CHEMICAL CO WHSE HENDERSON	4.4	16.2	16.1	103
8292	ARVIN MCCAIN	4.3	16.1	17.1	104
5254	5 20 20M W C BROOKS	4.9	19.1*	20.6	98*
5475	FEDERAL CHEMICAL CO WHSE HENDERSON	5.4	18.8*	20.7	100
5520	FEDERAL CHEMICAL CO WHSE HENDERSON	5.0	18.8*	20.4	97*
8295	ARVIN MCCAIN	5.0	20.0	20.2	100
8330	H D JONES	5.6	18.7*	18.6*	97*

(1) SEE BORON TABLE - PAGE 34

(2) SEE BORON TABLE - PAGE 34

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>FEDERAL CHEMICAL COMPANY CONTINUED</u>					
5388	6 8 6M JACKSON BROTHERS	5.6*	8.1	7.5	101
5405	W C BROOKS	5.1*	8.3	8.5	101
5454	KUTTAWA FEED & SEED COMPANY	4.9*	9.1	9.0	105
5398	6 12 12M CLINTON HATCHERY	6.3	11.3*	13.0	101
5406	W C BROOKS	6.0	12.3	12.5	102
5497	YOUNGBLOOD BROTHERS	6.2	11.2*	12.6	99
8249	ARVIN MCCAIN	6.0	11.6*	12.3	99
8296	ARVIN MCCAIN	6.3	12.3	12.1	103
5476	6 24 12M FEDERAL CHEMICAL CO WHSE HENDERSON	6.4	20.2*	12.6	93*
5477	8 16 16M FEDERAL CHEMICAL CO WHSE HENDERSON	8.0	14.8*	16.5	97*
5256	8 24 16M W C BROOKS	7.1*	23.5*	16.5	96*
5334	EVERETT WOOSLEY GENERAL STORE	7.1*	23.2*	16.0	95*
5377	YOUNGBLOOD BROTHERS	7.8	20.5*	16.2	92*
5397	CLINTON HATCHERY	7.9	22.0*	15.9	95*
5455	KUTTAWA FEED & SEED COMPANY	8.0	25.1	15.1*	101
8337	GILLISPIE SEED COMPANY	7.0*	24.2	15.0*	96*
5255	10 10 10M W C BROOKS	8.5*	10.5	10.6	95*
5281	WYNDALLS FARM STORE	7.3*	12.3	11.5	97*
5521	FEDERAL CHEMICAL CO WHSE HENDERSON	9.6*	10.0	10.6	99
6188	HALL SEED COMPANY	10.0	10.5	10.5	103
6227	FERN CREEK FEED & HARDWARE	10.1	10.9	10.7	105
8250	ARVIN MCCAIN	9.5*	9.9	10.8	99
8293	ARVIN MCCAIN	9.8	10.3	10.3	101
8360	TODD COUNTY GRAIN COMPANY	9.8	10.1	10.0	99
5522	12 12 12M FEDERAL CHEMICAL CO WHSE HENDERSON	11.1*	12.6	12.1	98*
5456	20 SUPERPHOSPHATE WYNDALLS FARM STORE		19.6		98*
6173	MAYES HELM & COYLE		20.0		100
6187	HALL SEED COMPANY		19.3*		97*
5218	60 MURIATE OF POTASH KUTTAWA FEED & SEED COMPANY			60.5	101
<u>HUTSON CHEMICAL COMPANY</u>					
5303	4 12 8M W L FARRIS	3.9	11.5*	8.2	98*
5307	HUTSON CHEMICAL COMPANY	3.7*	11.1*	8.6	95*
5378	WINGO FEED & SUPPLY	3.9	11.9	8.1	99
5291	5 20 20M GEORGE PATMOR & SON	4.3*	17.6*	16.9*	87*
5305	6 12 12M HUTSON CHEMICAL COMPANY	5.7*	11.9	12.4	99
5499	12 12 12M HUTSON CHEMICAL COMPANY	12.6	12.1	10.9*	101
5306	49 TRIPLE SUPERPHOSPHATE HUTSON CHEMICAL COMPANY		48.3		99
5226	60 MURIATE OF POTASH GRAVES COUNTY SOIL ASSOCIATION			61.0	102
5498	HUTSON CHEMICAL COMPANY			60.0	100

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<u>INTERNATIONAL MINERAL &amp; CHEM CORP</u>					
8266	2 12 6M J W EDWARDS & SON	2.1	12.3	6.7	104
7066	3 12 12M FARMERS SUPPLY COMPANY SOMERSET	3.0	12.0	12.5	101
8385	U L ROGERS & SON	3.0	11.9	12.8	101
5235	4 12 8M PRINCETON MILLS	4.0	12.0	8.9	102
5319	ROSS SEED COMPANY	4.1	11.9	8.0	100
5329	FELTY PRODUCE COMPANY	3.9	11.9	7.7*	98*
7046	W S ALLEN COMPANY	3.8	12.1	8.4	100
8267	J W EDWARDS & SON	4.1	11.9	8.1	100
8374	WOODSON LEWIS	3.7*	11.6*	8.7	98*
9071	OWINGSVILLE FARMERS SUPPLY	3.6*	12.0	8.0	97*
8384	5 20 20M U L ROGERS & SON	4.6*	19.6	19.6	97*
5324	8 24 16M R D SANDERFUR	7.5*	23.1*	16.0	96*
5330	FELTY PRODUCE COMPANY	7.9	21.8*	16.0	95*
5489	R D SANDERFUR	7.9	21.5*	17.5	96*
5488	12 12 12M E C RUMMAGE & SON	11.8	12.5	12.6	101
8332	J W EDWARDS & SON	12.0	12.8	12.2	103
5234	20 SUPERPHOSPHATE PRINCETON MILLS		19.9		100
5323	CADIZ HARDWARE COMPANY		20.0		100
7047	W S ALLEN COMPANY		18.0*		90*
9064	60 MURIATE OF POTASH WOODFORD SPEARS & SONS			60.5	101
<u>KNOXVILLE FERTILIZER COMPANY</u>					
5353	0 12 12M YOUNG FEED & GRAIN COMPANY		12.3	12.2	102
7031	0 12 12M WITH 3 LBS BORAX PER 100 <sup>(1)</sup> HOBART & MILTON ROBERTS		12.2	11.8	101
5354	2 12 12M WITH 3 LBS BORAX PER 100 <sup>(2)</sup> YOUNG FEED & GRAIN COMPANY	2.8	12.3	12.0	107
8259	FARMERS FEED HARDWARE BOWLING GREEN	3.0	12.4	13.4	112
5355	3 12 12M YOUNG FEED & GRAIN COMPANY	3.3	11.9	11.6*	101
7033	3 12 12M WITH 3 LBS BORAX PER 100 <sup>(3)</sup> HOBART & MILTON ROBERTS	3.2	12.2	12.5	103
8274	SHIPP SEED HOUSE	3.2	12.1	11.9	102
5356	4 12 8M YOUNG FEED & GRAIN COMPANY	4.4	12.2	8.2	104
5391	BUGG BROTHERS FEED & SUPPLY COMPANY	4.0	12.2	8.1	101
7032	HOBART & MILTON ROBERTS	4.0	12.2	8.5	102
7061	CLAY COUNTY FARM SERVICE	3.7*	11.9	8.5	99
7065	HOBART & MILTON ROBERTS	3.8	11.7	9.0	100
8276	SHIPP SEED HOUSE	4.1	12.1	9.1	104
8343	FARMERS FEED HARDWARE BOWLING GREEN	4.0	12.3	8.4	102

(1) SEE BORON TABLE - PAGE 34

(2) SEE BORON TABLE - PAGE 34

(3) SEE BORON TABLE - PAGE 34



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<u>KNOXVILLE FERTILIZER CO CONTINUED</u>					
5458	5 10 5M WYNDALLS FARM STORE	5.1	10.1	5.6	103
7030	5 20 20M HOBART & MILTON ROBERTS	4.9	19.1*	19.9	97*
8244	5 20 20M WITH 5 LBS BORAX PER 100 FARMERS FEED HARDWARE BOWLING GREEN	4.1*	16.6*	15.7*	82*
8260	FARMERS FEED HARDWARE BOWLING GREEN	4.8	19.4*	21.6	101
5392	6 12 12M BUGG BROTHERS FEED & SUPPLY COMPANY	5.9	12.1	12.7	101
7064	8 24 16M HOBART & MILTON ROBERTS	6.3*	23.9	16.6	95*
8275	10 10 10M SHIPP SEED HOUSE	9.4*	10.6	10.2	99
8369	SHIPP SEED HOUSE	8.6*	11.0	10.1	97*
5350	33 5 AMMONIUM NITRATE YOUNG FEED & GRAIN COMPANY	33.6			100
5352	20 SUPERPHOSPHATE YOUNG FEED & GRAIN COMPANY		20.0		100
5351	62 CALCIUM METAPHOSPHATE YOUNG FEED & GRAIN COMPANY		62.0		100
7053	60 MURIATE OF POTASH SANDERS SUPPLY COMPANY			61.5	103
<u>LAND O NAN WAREHOUSE</u>					
5263	0 20 20M LAND O NAN WAREHOUSE		18.2*	24.5	102
5264	0 20 40M LAND O NAN WAREHOUSE		19.9	38.2*	98*
5265	0 30 30M LAND O NAN WAREHOUSE		32.1	27.6*	102
5425	LAND O NAN WAREHOUSE		25.4*	33.6	93*
5266	3 12 12M LAND O NAN WAREHOUSE	3.6	10.4*	13.8	99
5426	LAND O NAN WAREHOUSE	3.4	11.9	13.0	104
5267	5 20 20M LAND O NAN WAREHOUSE	5.5	19.2*	20.2	100
5429	BILL CLEMENTS	6.2	19.4*	19.5*	103
5427	6 8 6M LAND O NAN WAREHOUSE	6.2	10.0	7.8	116
5268	6 12 12M LAND O NAN WAREHOUSE	6.2	11.9	13.7	104
5428	10 10 10M LAND O NAN WAREHOUSE	10.1	6.7*	11.1	91*
5269	10 20 20M LAND O NAN WAREHOUSE	9.7	20.0	19.3*	98*

(1) SEE BORON TABLE - PAGE 34

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>LOUISVILLE FERTILIZER COMPANY</u>					
5438	3 12 12M PESTICIDE <sup>(1)</sup> YOPP SEED COMPANY	3.6	11.9	12.5	105
5439	6 8 6M YOPP SEED COMPANY	5.9	8.7	6.5	104
<u>J A MCCARTY SEED COMPANY</u>					
5519	10 10 10M AUSTREW FEED SERVICE	10.0	9.9	10.2	100
<u>MISSISSIPPI CHEMICAL CORPORATION</u>					
5233	33 5 AMMONIUM NITRATE COOPER SEED & FEED STORE	33.7			101
<u>MISSISSIPPI RIVER CHEMICAL COMPANY</u>					
5315	33 5 AMMONIUM NITRATE CALLOWAY CO SOIL IMPROVEMENT ASSN	34.0			101
<u>MISSOURI PLANT FOOD COMPANY INC</u>					
5232	0 20 20M COOPER SEED & FEED STORE		19.9	20.0	100
5450	3 12 12M COOPER SEED & FEED STORE	3.4	12.2	12.4	104
5231	60 MURIATE OF POTASH COOPER SEED & FEED STORE			60.2	100
5440	YOPP SEED COMPANY			61.0	102
<u>MONSANTO CHEMICAL COMPANY</u>					
5247	33 5 AMMONIUM NITRATE FARMERS COOPERATIVE MADISONVILLE	33.8			101
<u>NORTH AMERICAN FERTILIZER COMPANY</u>					
6190	0 12 12M BUNTON SEED COMPANY		14.4	12.7	115
6201	0 20 20M GEORGE FREND JR		20.3	20.0	101
6220	3 12 12M HANCOCKS FEED STORE	3.0	11.4*	12.5	98*
8379	SIMPSON FEED MILL	2.9	11.9	12.7	100

(1) ALDRIN GUARANTEED 0.50%----FOUND 0.38%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<u>NORTH AMERICAN FERT CO CONTINUED</u>					
8370	4 12 8M YOUNG SEED HOUSE	4.0	113*	83	98*
8378	SIMPSON FEED MILL	3.8	115*	85	98*
6228	10 10 10M BUNTON SEED COMPANY	9.9	9.9	9.9	101
8380	20 SUPERPHOSPHATE SIMPSON FEED MILL		20.1		100
<u>OLIN MATHIESON CHEMICAL CORPORATION</u>					
5302	16 NITRATE OF SODA A C BUTTS & SON	16.2			101
<u>PRICE CHEMICAL COMPANY</u>					
9056	0 20 20M MONARCH MILLING COMPANY		175*	154*	84*
8323	3 12 12M HARDIN COUNTY MILLING COMPANY	3.4	11.9	12.2	103
6216	4 12 8M HAYDON COAL & OIL COMPANY	3.5*	12.6	8.5	100
6191	10 10 10M VALLEY FARM STORE	8.0*	11.2	10.0	94*
8322	HARDIN COUNTY MILLING COMPANY	9.4*	10.5	10.2	99
6208	20 SUPERPHOSPHATE WOODFORD FEED COMPANY		17.8*		89*
8324	HARDIN COUNTY MILLING COMPANY		20.2		101
9057	MONARCH MILLING COMPANY		20.4		102
<u>SCHROCK FERTILIZER SERVICE</u>					
5348	60 MURIATE OF POTASH CRAFTON & DUNCAN			60.0	100
<u>O M SCOTT &amp; SONS CO</u>					
6181	20 10 5M JACK DAYTON & SONS	19.4*	11.7	5.1	103
5209	UREA HENDERSON FARMERS SUPPLY COMPANY	24.9			100
<u>SOUTHERN NITROGEN SUPPLY</u>					
5451	33 5 AMMONIUM NITRATE COOPER SEED & FEED STORE	33.5			100

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<u>SOUTHERN STATES SEE COOP FERT SER</u>		(Percent)	(Percent)	(Percent)	
<u>SPENCER CHEMICAL COMPANY</u>					
	33 5 AMMONIUM NITRATE				
5257	W C BROOKS	339			101
9065	WOODFORD SPEARS & SONS	335			100
<u>SWIFT &amp; COMPANY</u>					
	0 19 19M WITH 5 LBS BORAX PER 100 <sup>(1)</sup>				
5460	BAKER PHOSPHATE & FERTILIZER SERVICE		179*	21.0	100
	0 25 25M				
5282	MORGANFIELD HARDWARE COMPANY		20.8*	22.7*	86*
	3 12 12M				
5283	MORGANFIELD HARDWARE COMPANY	3.1	12.5	11.9	103
5441	YOPP SEED COMPANY	3.6	11.1*	12.4	101
	4 12 8M				
8342	FARMERS FEED & HARDWARE	4.7	12.9	8.9	111
	4 16 16M				
5431	MORGANFIELD HARDWARE COMPANY	4.4	16.4	16.1	104
	5 20 20M				
5284	MORGANFIELD HARDWARE COMPANY	5.0	19.5*	19.6	98*
	6 10 4M				
6151	J W SETTLE FEED STORE	5.9	10.9	5.4	108
6152	J W SETTLE FEED STORE	6.5	10.2	4.4	105
	8 8 8M PESTICIDE <sup>(2)</sup>				
5442	YOPP SEED COMPANY	7.2*	9.0	8.8	101
	8 8 8M				
5444	YOPP SEED COMPANY	7.5*	9.3	8.8	104
	10 10 10M				
5285	MORGANFIELD HARDWARE COMPANY	9.3*	11.2	10.2	101
5297	T C EDWARDS	9.4*	10.3	10.0	98*
	12 12 12M				
5446	YOPP SEED COMPANY	11.8	11.9	12.8	100
	15 10 10M				
5445	YOPP SEED COMPANY	14.2*	10.3	10.1	98*

(1) SEE BORON TABLE - PAGE 34

(2) ALDRIN GUARANTEED 0.50%---FOUND 0.44%

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>TENNESSEE CHEMICAL COMPANY</u>					
5507	0 20 20M HARRALSON SEED COMPANY		20.2	20.8	102
5508	3 12 12M HARRALSON SEED COMPANY	3.1	12.2	12.5	103
5484	4 12 8M BROOKS SERVICE STATION	4.1	11.9	9.0	103
5509	HARRALSON SEED COMPANY	3.9	12.6	7.3*	100
5510	4 16 16M HARRALSON SEED COMPANY	4.0	15.6*	14.5*	96*
5511	5 20 20M HARRALSON SEED COMPANY	4.5*	19.1*	20.3	96*
5512	6 12 12M HARRALSON SEED COMPANY	5.1*	12.1	10.8*	93*
5506	20 SUPERPHOSPHATE HARRALSON SEED COMPANY		19.2*		96*
<u>TENNESSEE CORPORATION</u>					
8376	0 20 20M WITH 10 LBS BORAX PER 100 H R SQUIRES <sup>(1)</sup>		19.5*	20.5	99
8326	2 12 6M COOPER BROTHERS	2.0	12.3	6.0	102
8325	3 12 12M COOPER BROTHERS	3.0	10.4*	12.0	93*
8367	I K MILLER & SON	3.2	10.7*	12.8	98*
8391	COOPER BROTHERS	2.9	10.4*	12.4	93*
8307	4 12 8M CANN BROTHERS	4.8	10.1*	9.8	101
8368	I K MILLER & SON	4.1	10.2*	8.5	93*
8377	H R SQUIRES	4.1	9.6*	8.7	91*
8305	5 20 20M CANN BROTHERS	1.5*	20.0	19.5*	85*
8306	10 10 10M CANN BROTHERS	9.9	9.6*	10.5	99
<u>TRI STATE CHEMICAL COMPANY</u>					
5339	0 20 20M TRI STATE CHEMICAL COMPANY		19.9	20.0	100
5340	3 12 12M TRI STATE CHEMICAL COMPANY	3.0	11.9	12.2	100
5467	JOHN ROYSTER	2.9	12.8	12.8	105

(1) SEE BORON TABLE - PAGE 34

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>TRI STATE CHEMICAL CO CONTINUED</u>					
5341	4 12 8M TRI STATE CHEMICAL COMPANY	3.9	12.0	9.6	103
5342	4 16 16M TRI STATE CHEMICAL COMPANY	3.7*	16.2	16.5	100
5468	5 15 10M TRI STATE CHEMICAL COMPANY	4.8	14.5*	10.6	98*
5343	5 20 20M TRI STATE CHEMICAL COMPANY	5.6	18.5*	20.0	101
5469	TRI STATE CHEMICAL COMPANY	3.6*	21.0	19.4*	96*
5470	6 12 12M TRI STATE CHEMICAL COMPANY	5.9	12.0	12.4	100
5487	CRAFTON FARM STORE	5.8	13.3	12.6	105
5344	10 10 10M TRI STATE CHEMICAL COMPANY	9.7	9.9	10.1	98*
5345	12 12 12M TRI STATE CHEMICAL COMPANY	12.0	12.7	12.5	103
5338	60 MURIATE OF POTASH TRI STATE CHEMICAL COMPANY			60.0	100
<u>VALLEY COUNTIES OF KENTUCKY COOP INC</u>					
5310	0 30 30M CALLOWAY CO SOIL IMPROVEMENT ASSN		38.8	22.8*	112
5316	VALLEY COUNTIES OF KENTUCKY COOP		31.8	28.7*	103
5418	T R AKRIDGE		30.9	29.8	102
5435	LIVINGSTON COUNTY COOP SOIL IMP ASSN		31.6	30.0	104
5228	4 12 8M BALLARD COUNTY COOPERATIVE	4.0	11.4*	8.9	99
5375	GRAVES COUNTY SOIL ASSOCIATION	4.1	11.3*	8.6	99
5223	6 12 12M GRAVES COUNTY SOIL ASSOCIATION	5.5*	12.7	12.8	101
5312	CALLOWAY CO SOIL IMPROVEMENT ASSN	5.4*	12.0	13.2	99
5452	BALLARD COUNTY COOPERATIVE	5.7*	11.4*	12.4	97*
5222	6 24 24M GRAVES COUNTY SOIL ASSOCIATION	6.0	25.1	23.0*	101
5308	HUTSON CHEMICAL COMPANY	5.0*	21.2*	28.7	96*
5453	BALLARD COUNTY COOPERATIVE	6.3	28.1	22.6*	109
5527	GEORGE PATMOR & SON	4.4*	28.1	21.4*	101
5248	8 24 16M FARMERS COOPERATIVE MADISONVILLE	8.0	25.7	14.9*	103
5224	10 20 20M GRAVES COUNTY SOIL ASSOCIATION	10.0	20.9	18.8*	101
5225	10 30 20M GRAVES COUNTY SOIL ASSOCIATION	9.1*	29.7	19.7	97*
5249	FARMERS COOPERATIVE MADISONVILLE	9.9	30.5	18.9*	100
5313	CALLOWAY CO SOIL IMPROVEMENT ASSN	10.2	30.9	20.1	102
5363	LYON COUNTY SOIL IMPROVEMENT ASSN	9.9	30.4	20.5	101
5374	MARSHALL CO SOIL IMPROVEMENT ASSN	10.0	32.1	16.1*	100
5424	SOUTHERN STATES CRITTENDEN COOP	10.1	30.8	19.4*	101
5500	MARSHALL CO SOIL IMPROVEMENT ASSN	9.7	30.2	16.7*	97*
8273	FARMERS SUPPLY COMPANY MORGANTOWN	8.9*	32.1	16.1*	97*

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<u>VALLEY COUNTIES OF KY COOP CONTINUED</u>					
		(Percent)	(Percent)	(Percent)	
	33 5 AMMONIUM NITRATE				
5230	BALLARD COUNTY COOPERATIVE	33.8			101
5362	LYON COUNTY SOIL IMPROVEMENT ASSN	33.5			100
5373	MARSHALL CO SOIL IMPROVEMENT ASSN	33.7			101
5433	LIVINGSTON COUNTY COOP SOIL IMP ASSN	33.5			100
	61 CALCIUM METAPHOSPHATE				
5227	GRAVES COUNTY SOIL ASSOCIATION		62.5		103
5229	BALLARD COUNTY COOPERATIVE		62.4		102
	62 CALCIUM METAPHOSPHATE				
5311	CALLOWAY CO SOIL IMPROVEMENT ASSN		62.6		101
5361	LYON COUNTY SOIL IMPROVEMENT ASSN		62.3		100
5372	MARSHALL CO SOIL IMPROVEMENT ASSN		62.6		101
5410	TRIGG COUNTY SOIL IMPROVEMENT COOP		62.8		101
5434	LIVINGSTON COUNTY COOP SOIL IMP ASSN		62.2		100
	60 MURIATE OF POTASH				
5309	CALLOWAY CO SOIL IMPROVEMENT ASSN			60.0	100
5360	LYON COUNTY SOIL IMPROVEMENT ASSN			60.5	101
5371	MARSHALL CO SOIL IMPROVEMENT ASSN			60.0	100
5432	LIVINGSTON COUNTY COOP SOIL IMP ASSN			60.0	100
<u>VIRGINIA CAROLINA CHEMICAL CORP</u>					
	0 20 20M				
5236	ROBINSON IMPLEMENT & MOTOR COMPANY		182*	18.4*	91*
	(1)				
	0 20 20M WITH 5 LBS BORAX PER 100				
5237	ROBINSON IMPLEMENT & MOTOR COMPANY		20.2	19.0*	99
7034	DUNNINGTON MILLING COMPANY		21.7	20.0	109
8298	VIRGINIA CAROLINA CHEMICAL CORP		162*	15.3*	79*
	2 12 6M				
5251	FOX HARDWARE COMPANY	2.3	11.9	6.4	103
	3 12 12M				
7035	DUNNINGTON MILLING COMPANY	3.1	13.3	11.9	106
8245	VIRGINIA CAROLINA CHEMICAL CORP	3.1	11.9	12.0	100
8347	VIRGINIA CAROLINA CHEMICAL CORP	3.1	12.4	12.1	103
	4 12 8M				
5252	FOX HARDWARE COMPANY	3.9	12.4	8.3	102
5238	ROBINSON IMPLEMENT & MOTOR COMPANY	3.9	12.0	8.1	100
5321	TRIGG COUNTY TRADING COMPANY	4.1	12.6	7.6*	103
5414	RATLIFF HARDWARE COMPANY	4.1	12.1	8.2	102
5503	E L BARNES & SON	4.1	12.4	8.1	103
7036	DUNNINGTON MILLING COMPANY	4.2	12.3	8.4	104
8248	T R AKRIDGE	3.6*	11.6*	8.6	99
8299	VIRGINIA CAROLINA CHEMICAL CORP	3.9	12.1	8.4	101
8340	BIG FOUR FEED & IMPLEMENT COMPANY	4.0	12.7	8.2	104
8350	VIRGINIA CAROLINA CHEMICAL CORP	4.0	12.3	8.2	102
8386	U L ROGERS & SON	4.0	12.0	8.3	101
	5 20 20M				
5407	FARMERS COOPERATIVE MADISONVILLE	4.9	20.0	19.7	99
5419	T R AKRIDGE	5.2	20.2	20.0	101
8348	VIRGINIA CAROLINA CHEMICAL CORP	5.0	21.0	19.1*	101
	6 8 6M				
5504	E L BARNES & SON	5.6*	8.7	6.1	101
	6 12 12M				
5408	FARMERS COOPERATIVE MADISONVILLE	6.0	11.9	12.6	101
8246	VIRGINIA CAROLINA CHEMICAL CORP	5.9	12.3	12.3	101
8300	VIRGINIA CAROLINA CHEMICAL CORP	6.0	12.5	12.1	102

(1) SEE BORON TABLE - PAGE 34

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk. Footnotes show amount of excess muriate when sulfate guaranty not met.)

Sample Number	Manufacturer, Grade, From Whom Obtained	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
		(Percent)	(Percent)	(Percent)	
<u>VIRGINIA CAROLINA CHEM CONTINUED</u>					
	8 24 16M				
5325	R D SANDERFUR	7.4*	22.5*	16.0	95*
5416	ROBINSON IMPLEMENT & MOTOR COMPANY	8.1	24.0	15.9	100
8247	VIRGINIA CAROLINA CHEMICAL CORP	7.7*	24.4	15.3*	99
8341	BIG FOUR FEED & IMPLEMENT COMPANY	8.3	23.9	16.0	101
	10 10 10M				
5415	ROBINSON IMPLEMENT & MOTOR COMPANY	10.4	10.0	10.2	102
7037	DUNNINGTON MILLING COMPANY	9.4*	11.2	10.5	102
8349	VIRGINIA CAROLINA CHEMICAL CORP	10.1	10.2	10.3	102
	20 SUPERPHOSPHATE				
5320	TRIGG COUNTY TRADING COMPANY		20.3		102
5502	E L BARNES & SON		20.1		100
<u>WEST KENTUCKY LIQUID FERTILIZER CO</u>					
	4 11 11M				
8356	WEST KENTUCKY LIQUID FERTILIZER CO	3.7*	10.0*	10.6*	93*
	4 11 11M WITH BORAX <sup>(1)</sup>				
8253	NEVILLE UTLEY	4.4	11.1	9.7*	100
8357	WEST KENTUCKY LIQUID FERTILIZER CO	4.8	10.4*	10.8	102
	4 12 8M				
8251	LELAND BOSWELL	4.7	11.1*	8.1	101
8351	WEST KENTUCKY LIQUID FERTILIZER CO	4.1	11.5*	8.4	99
8352	WEST KENTUCKY LIQUID FERTILIZER CO	4.0	11.7	8.0	99
	6 12 8M WITH BORAX <sup>(2)</sup>				
8353	WEST KENTUCKY LIQUID FERTILIZER CO	6.0	12.0	8.0	100
	7 14 7M				
8252	WEST KENTUCKY LIQUID FERTILIZER CO	6.4*	11.1*	7.1	87*
	12 6 6M				
8354	WEST KENTUCKY LIQUID FERTILIZER CO	12.4	6.2	6.0	103
8355	WEST KENTUCKY LIQUID FERTILIZER CO	12.3	5.8	5.8	101
<u>ZIRCON PRODUCTS COMPANY</u>					
	5 10 5M				
8392	METCALFE COUNTY FARMERS SUPPLY	6.2	10.6	5.3	113

(1) SEE BORON TABLE - PAGE 34

(2) SEE BORON TABLE - PAGE 34



TABLE 2 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less 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	

ROBIN JONES PHOSPHATE COMPANY

Rock Phosphate

5295	T. C. Edwards Company	3.0	3.0	30.0	30.0	100
5346	Tri-State Chemical Company	3.0	2.6	30.0	30.3	101

RUHM PHOSPHATE & CHEMICAL COMPANY

Rock Phosphate

5505	Baker's Phosphate & Fertilizer Ser.	---	---	30.0	24.5*	82*
5459	Baker's Phosphate & Fertilizer Ser.	---	---	30.0	23.9*	79*
5525	Baker's Phosphate & Fertilizer Ser.	---	---	30.0	23.2*	77*

SCHROCK FERTILIZER SERVICE

Rock Phosphate

5349	Crafton, Duncan & Sinkhorn	---	---	33.0	33.5	102
5430	Shaffer Phosphate Service	---	---	33.0	33.7	102
5491	James A. Logsdon	---	---	33.0	33.5	102

TABLE 3 - Analyses of Inspection Samples of Bones, Dried Manures, etc., July-December, 1957

(Analyses deficient more than tolerance shown on page 8 and relative values of 98 percent or less indicated by asterisk.)

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

THE SEWERAGE COMMISSION OF MILWAUKEE

5.5-4-0 Milorganite

5447	Yopp Seed Company	5.8	3.4*	---		103
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TABLE 4 - Boron Analysis of Samples reported as shown on previous pages

Page	Sample	Boron Guaranteed	Boron Found
12	6163	.33	.35
13	5286	.34	.10
	8262	.34	.63
	8287	.56	.53
	8286	.56	.37
14	8285	.56	.64
17	5485	.45	.37
	6150	.45	.42
	6205	.45	.51
	7023	.45	.39
	7057	.45	.41
	8256	.45	.45
	8270	.45	.36
	8290	.45	.37
	8358	.45	.51
20	8265	.23	.22
	8264	.23	.19
22	8291	.56	.47
	8243	.45	.06
24	7031	.34	.28
	5354	.34	.32
	8259	.34	.33
	7033	.34	.38
	8274	.34	.44
25	8244	.67	.51
	8260	.57	.85
28	5460	.57	.45
29	8376	1.13	1.12
31	5237	.57	.54
	7034	.57	.49
	8298	.57	.33
32	8253	.57	.57
	8357	---	.15
	8353	---	.45

4.5M--3-58