

Regulatory Bulletin 158

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# **ANALYSES OF OFFICIAL FERTILIZER SAMPLES**

by the

**FEED AND FERTILIZER DEPARTMENT**

**KENTUCKY AGRICULTURAL EXPERIMENT STATION**

**SEMI-ANNUAL REPORT**

**SPRING SEASON**

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**UNIVERSITY OF KENTUCKY, LEXINGTON**

FEED AND FERTILIZER DEPARTMENT

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\* David M. Daugherty on leave of absence since May 1, 1959

This report compiled and prepared by W. J. Huffman and Bruce Poundstone  
Analytical data by the Laboratory Staff



This bulletin contains results of analyses of official samples of commercial fertilizers made during the period January 1 through June 30, 1959. The form of Tables 1, 2, 3, and 4 has been altered somewhat from previous publications to provide a more readable presentation of the information. The name of the dealer from whom each sample was secured has been omitted from this table.

Separate tables are provided for the results of analysis of dry fertilizer, liquid fertilizer, and for boron and pesticide incorporated in fertilizers. A separate table is also provided to indicate the percent of potash equivalent to excess muriate where the guarantee for sulfate of potash was not met. See Table 5 for sulfate analysis.

#### 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 samples 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:

A 5-10-15 sulfate fertilizer is 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 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 =	<u>15.0</u>
Total computed guaranteed value		50.0

The same procedure is followed for "found values." Assuming a sample of 5-10-15 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 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 =	<u>15.1</u>
Total computed value		50.8

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.

In some samples a deficiency in one nutrient is accompanied by an over-run 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 guarantee of all nutrients as expressed by the manufacturer's guaranteed analysis.

The results of analysis of all inspection samples are given in Tables 1, 2, 3, and 4. If an analysis shows a deficiency of more than the tolerance, the amount claimed for nitrogen, phosphoric acid, or potash, or if the percent of the relative value is 97 or less, the result is indicated by an asterisk.

## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

- A. D. Adair & McCarty Brothers, Inc.  
123 Simpson, N. W.  
Atlanta 13, Georgia
- Allied Chemical Corporation  
Nitrogen Division  
40 Rector St., New York, N. Y.
- American Agricultural Chemical Company  
100 Church Street  
New York 7, New York
- American Cyanamid Company  
30 Rockefeller Plaza  
New York 20, New York
- Armour Fertilizer Works  
350 Hart Building  
Atlanta Georgia
- Associated Cooperative, Inc.  
750 W. 20th Avenue  
Sheffield, Alabama
- Bartlett & O'Bryan Fertilizer Company  
108 River Road  
Owensboro, Kentucky
- Bluegrass Plant Foods, Inc.  
447 N. Main Street  
Cynthiana, Kentucky
- Bunton Seed Company  
300-312 E. Jefferson Street  
Louisville, Kentucky
- Burley Belt Plant Food Works  
Route 4  
Lexington, Kentucky
- Chilean Nitrate Sales Corporation  
120 Broadway  
New York, New York
- Coastal Chemical Company  
Yazoo City, Mississippi
- Commercial Solvents Corporation  
260 Madison Avenue  
New York 16, New York
- Commonwealth Fertilizer Company, Inc.  
Morgantown Road  
Russellville, Kentucky
- Cooperative Fertilizer Service  
Southern States Building  
P.O. Box 1656 - Richmond 13, Virginia
- Darling & Company  
4201 S. Ashland Avenue  
Chicago, Illinois
- Davison Chemical Corporation  
Baltimore, Maryland
- E'Town Anhydrous Ammonia Company  
P. O. Box 148  
Elizabethtown, Kentucky
- E'Town Fertilizer Company  
Cecilia, Kentucky
- Farmers Fertilizer Company  
Smiths Grove, Kentucky
- Federal Chemical Company  
Starks Building  
Louisville, Kentucky
- Grace Chemical Company  
P.O. Box 4096, North Station  
Memphis, Tennessee
- Hutson Chemical Company  
Murray, Kentucky
- International Minerals & Chemical Corp.  
Lockland Station  
Cincinnati 15, Ohio
- Kentucky Fertilizer Works  
222 Cook Avenue  
Winchester, Kentucky
- Knoxville-Division American Agricultural  
Chemical Company  
100 Church St., New York 7, N. Y.
- Land O Man Warehouse  
Sturgis, Kentucky
- Louisville Fertilizer Company  
Box 1088  
Nashville, Tennessee
- Mid-South Chemical Company  
1222 Riverside Drive  
P.O. Box 346, Memphis, Tennessee
- Mississippi Chemical Corporation  
Yazoo City, Mississippi
- Mississippi River Chemical Company  
407 N. 8th Street  
St. Louis, Missouri
- Missouri Plant Food Company  
Sikeston, Missouri
- Monsanto Chemical Company  
800 N. Lindbergh Blvd.  
St. Louis 66, Missouri
- North American Fertilizer Company  
Preston Street at Bergman  
Louisville, Kentucky
- Ohio Valley Fertilizer Corporation  
P. O. Box 799  
Maysville, Kentucky



Continued from previous page

- Olin Mathieson Chemical Corporation  
P. O. Box 991  
Little Rock, Arkansas
- Phillips Petroleum Company  
1143-A Adams Building  
Bartlesville, Oklahoma
- Price Chemical Company  
2600 Millers Lane  
Louisville, Kentucky
- Ra-Pid-Gro Corporation  
88 Ossian Street  
Dansville, New York
- Robin Jones Phosphate Company  
204-23rd Avenue, North  
Nashville, Tennessee
- Rottgering Flowerland  
2600 Cairo Road  
Paducah, Kentucky
- Ruhm Phosphate & Chemical Company  
P. O. Box 361  
Columbia, Tennessee
- Schrock Fertilizer Service  
Congerville, Illinois
- O. M. Scott & Sons Company  
Marysville, Ohio
- Semo Liquid Fertilizer, Inc.  
Charleston, Missouri
- Sewerage Commission of the City of Milwaukee  
P. O. Box 2079  
Milwaukee 1, Wisconsin
- Smith Agricultural Chemical Company  
1950 Kentucky Avenue  
Indianapolis, Indiana
- Spencer Chemical Company  
610 Dwight Building  
Kansas City, Missouri
- Stinson Farm Supply  
Horse Cave, Kentucky
- Swift & Company  
Union Stock Yards, Illinois
- Tennessee Chemical Company  
Box 1088  
Nashville, Tennessee
- Tennessee Corporation  
Lockland Station  
Cincinnati 15, Ohio
- Tennessee Valley Authority  
Muscle Shoals Plant  
Sheffield, Alabama
- Thompson Sales Company  
P. O. Box 246  
Montgomery, Alabama
- Tri-State Chemical Company  
Henderson, Kentucky
- U. S. Phosphoric Products- Div. Tenn. Corp.  
Box 3269  
Tampa Florida
- U. S. Steel Corporation  
525 William Penn Place  
Pittsburg 30, Pennsylvania
- Valley Counties of Kentucky Coop., Inc.  
Box 351  
Murray, Kentucky
- Virginia-Carolina Chemical Corporation  
401 E. Main Street  
Richmond, Virginia
- West Kentucky Liquid Fertilizer Company  
P. O. Box 507  
Hopkinsville, Kentucky

## EXPLANATION OF "STANDING OF MANUFACTURERS"

The standings of manufacturers as determined by the results of analysis of official samples are given on pages 7 and 8. 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 three columns of figures refer to number of samples and that the last three columns refer to number of analyses of nitrogen, phosphoric acid, and potash. Attention is directed to the third column of figures which gives for each manufacturer, the percentage of samples that are equal to guaranty in all respects, and to column 6, which gives the percentage of analyses that are equal to guaranty or within the tolerance. This tolerance is on a sliding scale varying with the guaranty 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

## TONNAGE OF FERTILIZER SOLD

The tonnage of fertilizer and fertilizer materials sold during the period covered by this bulletin was 483,000 tons. This is an increase of 12 percent over the 431,000 tons sold during the same period of 1958. There was an increase of 39,000 tons of mixed fertilizer and 11,000 tons of materials sold this spring. For the 10 year period, 1949-59, the greatest total tonnage for a spring period was sold in 1954. However, for actual plant food used, this period of 1959 exceeds all others. This increase in plant nutrients is due primarily to the acceptance by the consumer of high-analysis fertilizers and the use of "recommended grades."



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

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*
A. D. Adair & McCarty Bro. Inc.	4	1	---	12	7	---
Allied Chem Corp.-Nitrogen Div.	13	13	100	13	13	100
American Agricultural Chem. Co.	167	89	53	560	492	88
Knoxville Fertilizer Div.	174	101	58	556	483	87
American Cyanamid Company	3	3	---	3	3	---
Armour Fertilizer Works	546	303	55	1,712	1,508	88
Louisville Fertilizer Co.	14	7	50	45	37	82
Tennessee Chemical Co.	13	7	54	39	34	87
Associated Cooperative, Inc.	21	9	43	49	39	80
Bartlett & O'Bryan Fertilizer Co.	30	4	13	90	68	76
Bluegrass Plant Food, Inc.	139	40	29	432	346	80
Bunton Seed Company	2	2	---	6	6	---
Burley Belt Plant Food Works	68	26	38	230	194	84
Chilean Nitrate Sales Corp.	3	3	---	3	3	---
Coastal Chemical Company	1	1	---	1	1	---
Commercial Solvents Corporation	8	8	100	8	8	100
Commonwealth Fertilizer Co., Inc.	36	17	47	109	93	85
Cooperative Fertilizer Service	516	364	71	1,546	1,449	94
Darling & Company	43	23	53	127	104	82
Davison Chemical Corporation	188	64	34	586	456	78
E'Town Anhydrous Ammonia Co.	9	1	11	25	19	76
E'Town Fertilizer Company	20	17	85	62	59	95
Farmer Fertilizer Company	11	6	55	35	29	83
Federal Chemical Company	360	155	43	1,120	907	81
Grace Chemical Company	5	5	100	5	5	100
Hutson Chemical Company	20	6	30	64	49	77
International Min. and Chem. Corp.	196	105	54	605	526	87
Kentucky Fertilizer Works	70	42	60	222	202	91
Knoxville Div.-Amer. Agri. Chem. (See American Agri. Chem. Co.)						
Land-O-Nan Warehouse	12	2	17	34	26	76
Louisville Fertilizer Company (See Armour Fertilizer Works)						
Mid-South Chemical Company	12	12	100	12	12	100
Mississippi Chemical Corporation	7	7	100	7	7	100
Mississippi River Chemical Co.	1	1	---	1	1	---
Missouri Plant Food Company, Inc.	10	2	20	31	25	81
Monsanto Chemical Company	3	3	---	3	3	---
North American Fertilizer Co.	111	78	70	357	333	93
Ohio Valley Fertilizer Corp.	24	6	25	84	67	80
Olin Mathieson Chemical Corp.	2	2	---	4	4	---
Phillips Petroleum Company	1	1	---	1	1	---
Price Chemical Company	90	63	70	291	274	94
Ra-Pid-Gro Corporation	1	---	---	3	1	---
Robin Jones Phosphate Company	13	5	38	23	16	70
Rottgering Flowerland	2	2	---	6	6	---
Ruhm Phosphate & Chemical Co.	1	1	---	1	1	---
Schrock Fertilizer Service	3	3	---	5	5	---
O. M. Scott & Sons Company	3	3	---	9	9	---
Semo Liquid Fertilizer, Inc.	1	---	---	3	3	---
Sewerage Com. - City of Milwaukee	1	1	---	2	2	---
Smith Agricultural Chemical Co.	6	3	50	18	15	83
Southern States (See Cooperative Fert. Service)						
Spencer Chemical Company	12	9	75	12	11	92
Stinson Farm Supply	3	---	---	9	3	---
Swift & Company	26	15	58	82	73	89

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

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

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*
Tennessee Chemical Company (See Armour Fertilizer Works)						
Tennessee Corporation	87	52	60	275	254	92
Tennessee Valley Authority	3	2	---	6	4	---
Thompson Sales Company	2	2	---	4	4	---
Tri-State Chemical Company	11	6	55	30	23	77
U. S. Phosphoric-Div. Tenn. Corp.	1	1	---	1	1	---
U. S. Steel Corporation	1	1	---	1	1	---
Valley Counties of Ky. Coop., Inc.	15	9	60	38	31	82
Virginia-Carolina Chemical Corp.	150	103	69	457	418	91
West Kentucky Liquid Fert. Co.	43	10	23	121	96	79
<b>TOTAL</b>	<b>3,338</b>	<b>1,827</b>	<b>55</b>	<b>10,196</b>	<b>8,870</b>	<b>87</b>

A comparison of the totals in the above table with those for the spring period of 1958 follows:

	<u>1958</u>	<u>1959</u>
Number of samples, Total	2,982	3,338
Samples equal to guaranty in all respects	1,462	1,827
Percent	49	55
Analyses, Total	9,059	10,196
Equal to guaranty or within tolerance	7,724	8,870
Percent	85	87

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



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>A D ADAIR &amp; MCCARTY BROTHERS INC</u>				
3 9 6M 0854	3.1	8.6*	6.5	100
5 10 5M 0596 0858	5.0 4.6*	10.0 10.3	5.6 6.3	102 102
10 20 20M 0855	9.3*	19.5*	19.5*	96*
<u>ALLIED CHEMICAL CORP NITROGEN DIV</u>				
NITRATE OF SODA				
0115	16.4			103
0186	16.2			101
0295	16.0			100
2352	16.3			102
3021	16.3			102
AMMONIUM NITRATE LIMESTONE				
0319	20.5			100
AMMONIUM NITRATE				
0012	33.8			101
0024	34.0			101
0185	33.8			101
2228	34.0			101
3025	33.5			100
<u>AMERICAN AGRICULTURAL CHEMICAL CO</u>				
0 20 20M				
1119		20.7	21.2	104
1443		20.1	21.3	103
2114		22.1	20.1	107
3158		21.4	20.1	105
3305		20.4	20.2	102
0 20 20M WITH 5 LB BORAX PER 100				
3301		20.5	18.1*	99
3518		20.2	20.1	101
2 12 6M				
2319	3.0	12.4	7.1	114
3501	2.5	12.4	6.6	108
3 9 6 3S 3M				
3147	3.3	9.0	6.5	104
3 12 12M				
0192	3.3	12.0	12.7	104
1106	3.4	12.0	12.6	104
1458	3.2	12.3	12.2	103
1577	3.2	12.0	12.0	101
2082	3.1	12.3	12.6	103
2113	3.2	12.4	12.0	103
3150	3.4	12.3	12.5	105
3346	3.3	12.5	12.2	105
3356	3.2	12.3	12.2	103
3447	3.1	12.3	12.7	104

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<i>AMERICAN AGRICULTURAL CHEM CONTINUED</i>				
4 12 8M	4.0	11.6*	8.4	99
0193	3.7*	12.1	8.9	100
0544	4.1	12.0	8.0	101
1101	4.1	12.1	8.4	102
1105	4.3	12.0	8.6	103
1436	4.0	11.9	8.0	100
1575	3.8	12.5	8.1	101
1684	3.9	12.3	9.3	104
2026	4.0	12.1	8.1	101
2321	4.0	12.9	8.7	106
3027	4.1	12.1	8.3	102
3079	4.2	12.0	8.4	102
3161	4.0	12.4	8.2	102
3210	4.0	12.2	8.2	101
3318				
4 12 8S	4.1	11.5*	8.8	100
0406	4.2	11.9	8.1	101
1682	4.1	12.0	8.8	103
2080	4.1	11.9	8.2	101
2111	4.1	11.8	8.6	101
2206	4.1	11.9	8.4	101
3017	4.1	12.0	8.5	102
3022	4.1	12.1	8.5	102
3081	4.1	11.6*	8.2	99
3149	4.2	11.7	8.5	101
3162				
4 16 8M	4.2	16.1	8.4	102
3281				
4 16 16M	4.4	16.2	16.0	103
1699	4.2	16.0	15.2*	100
1700				
5 10 15S	4.6*	10.5	15.0	100
0194	4.5*	10.5	15.2	99
0195	5.3	10.1	15.0	102
0407	4.7*	10.4	15.4	101
0545	4.6*	10.1	15.4	99
0790	4.9	10.8	15.0	103
1016	4.9	10.0	15.0	99
1099	4.9	10.0	15.0	99
1100	4.6*	10.0	15.6	99
1104	4.3*	10.6	15.0	98
1115	5.0	10.5	15.4	103
1116	4.5*	10.2	15.5	99
1197	5.9	10.7	15.0	(1) 108
1298	5.4	10.2	15.0	103
1459	5.5	10.0	15.0	103
1574	5.2	10.1	15.0	102
1578	5.0	10.4	14.8	101
1660	5.2	10.8	15.0	104
2025	5.0	10.3	15.0	101
2081	4.3*	9.6*	18.4	101
2109	4.6*	10.7	15.0	100
2110	4.5*	10.7	15.0	100
2187	5.1	10.7	15.0	103
2188	4.2*	10.2	16.1	98
2209	5.4	11.2	13.9*(1)	105
2211	5.1	10.7	15.0	(1) 103
2318	5.0	10.5	15.0	(1) 102
2419	5.0	10.5	15.2	102
3030	4.1*	12.6	13.0*	101
3074	5.5	10.3	15.1	104
3075	4.7*	11.2	14.2*	101
3148	4.7*	10.4	15.2	100
3154	5.0	10.3	15.0	101
3212	4.7*	10.4	15.0	99
3235	5.2	10.1	15.0	102
3285	5.1	10.3	15.0	102
3308	5.1	10.8	15.0	(1) 104
3319	4.7*	10.8	15.0	101
3320	5.4	10.0	14.7	102
3322	5.0	10.2	15.0	101
3324	5.3	10.2	15.0	103
3380				

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<b>AMERICAN AGRICULTURAL CHEM CONTINUED</b>				
<b>5 10 15S CONTINUED</b>				
3448	5.0	10.4	15.0	102
3509	5.1	10.6	15.0	103
3511	5.3	10.5	15.0 (1)	104
3516	5.6	10.0	15.0	104
3517	5.2	10.4	15.0	103
423F	5.0	10.6	15.0	102
<b>5 10 15S WITH 00.15 ALDRIN</b>				
2680	5.0	9.9	15.0	100
<b>5 20 20M</b>				
1118	4.9	20.1	20.0	100
1681	4.5*	20.2	19.8	98
2210	4.9	19.9	20.0	99
3302	4.8	20.6	19.8	101
<b>6 6 18S</b>				
1198	5.9	6.6	18.2	102
1437	6.0	6.8	17.6*	103
1460	6.0	7.1	17.0*	103
1661	6.0	6.5	18.0	102
2031	6.1	6.2	18.1	102
2678	6.0	6.6	18.0	103
3020	6.0	6.7	17.8	103
3029	6.0	6.9	18.2	104
3076	6.0	6.8	18.1	104
3234	6.0	6.4	18.1	101
<b>6 8 6S</b>				
0408	6.0	8.7	6.2	104
0546	5.6*	8.7	6.0	101
0791	6.0	8.3	6.1	102
2115	5.8	8.6	6.2	102
3018	6.0	8.0	6.1	100
3026	6.1	9.1	6.2	107
3077	6.0	8.3	6.1	102
3321	5.7*	8.5	6.4	101
<b>6 12 12M</b>				
2049	6.1	12.5	12.7	104
2207	5.5*	12.3	12.2	99
3019	5.4*	12.6	13.0	101
3078	6.5	12.5	12.7	106
3159	5.9	12.5	13.2	104
3283	5.9	12.0	12.2	100
3304	5.8	12.0	12.2	99
3425	5.6*	12.3	13.1	101
<b>10 6 4M</b>				
1402	9.7	7.3	4.7	108
2208	9.5*	7.4	5.0	105
3396	9.0*	6.6	4.6	100
<b>10 10 10M</b>				
0547	9.8	11.1	10.5	104
0810	9.0*	10.6	10.8	98
1299	9.3*	10.4	10.9	99
1435	9.9	10.5	10.5	102
1444	9.6*	10.6	10.2	100
1576	9.8	10.6	10.1	100
1683	10.0	10.1	10.4	101
2030	8.4*	10.6	11.8	97 <sup>c</sup>
2112	9.2*	11.1	10.4	100
2234	9.3*	10.9	10.4	100
2320	9.1*	11.1	10.2	100
3028	8.5*	11.4	10.0	97*
3156	8.8*	10.3	11.0	97*
3284	9.8	10.9	10.1	102
3307	9.9	11.2	10.5	104
3317	9.6*	10.9	10.1	101
3357	9.4*	10.9	10.4	101
3383	9.2*	11.3	10.0	100
3444	9.7	10.7	10.2	101
3446	9.7	10.8	10.9	103
3514	9.5*	10.4	11.2	101

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<b>AMERICAN AGRICULTURAL CHEM CONTINUED</b>				
12 12 12M				
0239	11.1*	12.3	12.7	98
0323	11.4*	12.5	12.2	99
0643	11.1*	12.6	12.5	99
0706	11.4*	12.6	12.2	99
1117	11.4*	12.4	12.5	99
1300	11.2*	12.5	12.4	99
3080	11.2*	12.8	12.5	100
3282	10.4*	12.7	12.2	96*
3303	11.6*	12.8	12.4	101
3381	11.2*	12.4	12.0	98
16 8 8M				
1701	14.9*	11.0	7.8	103
<b>SUPERPHOSPHATE</b>				
0646		18.4		102
1401		20.1		100
2514		20.2		101
3157		19.0*		95*
3184		18.3		102
3347		17.9		100
4237		21.2		106
<b>AMERICAN CYANAMID COMPANY</b>				
<b>CALCIUM CYANAMID</b>				
0840	21.6			103
<b>AMMONIUM NITRATE</b>				
0061	33.8			101
3155	33.5			100
<b>ARMOUR FERTILIZER WORKS</b>				
0 12 12M				
1651		12.4	12.7	104
2179		12.2	13.2	104
0 20 20M				
0330		19.5*	20.5	99
0357		19.1*	20.5	98
0440		20.5	19.9	102
0580		18.3*	18.9*	93*
0816		19.9	18.4*	97*
1245		19.2*	21.3	100
1293		20.0	18.7*	98
1306		20.0	20.0	100
1334		19.2*	20.3	98
1636		18.5*	20.5	96*
1738		21.0	18.0*	100
2132		21.5	20.7	106
2180		19.9	20.4	100
2350		19.7	20.9	101
2484		20.1	20.3	101
3138		20.7	19.2*	101
3189		18.5*	20.0	95*
3300		16.8*	19.2*	88*
4195		20.0	21.5	103
4286		22.3	21.0	109
0 20 20M WITH 4 LB BORAX PER 100				
2670		18.0*	18.2*	90*
0 20 20M WITH 5 LB BORAX PER 100				
1074		20.0	21.0	102
1217		19.5*	19.7	98



TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<b>ARMOUR FERTILIZER WORKS CONTINUED</b>				
0 25 25M				
2261		25.5	25.0	101
4099		25.0	26.0	101
2 12 6M				
4206	25	11.9	6.9	106
3 9 6M				
0232	3.0	8.5*	7.0	100
0317	3.1	8.9	6.5	102
0441	3.0	9.3	6.4	103
0604	3.7	10.5	6.6	117
1328	3.5	8.9	6.5	105
3188	3.2	8.9	6.5	103
3203	3.6	10.1	7.5	117
3209	3.1	9.4	6.4	105
4118	3.0	9.0	6.5	102
4120	3.4	9.0	6.7	106
4126	3.3	9.3	6.6	106
4132	3.1	8.7*	6.5	101
3 12 6M				
0078	3.2	12.0	6.8	104
0085	3.2	11.9	6.5	102
0166	3.2	11.9	6.4	102
0331	3.3	11.0*	6.3	98
0398	3.0	12.0	7.2	103
1057	3.3	12.0	7.5	106
1097	3.2	12.1	6.6	104
1207	3.0	11.8	6.7	101
1280	3.0	11.9	6.8	102
1288	3.0	11.5*	6.8	99
1329	3.2	11.7	6.4	101
1335	3.3	11.7	6.5	102
1341	3.0	12.0	6.5	101
1368	3.0	11.5*	6.4	98
1552	3.3	11.6*	6.8	102
1562	3.3	11.8	6.1	102
1620	3.1	11.1*	6.2	97*
1647	3.2	11.9	6.0	101
2039	3.0	11.6*	6.5	99
2137	3.1	11.0*	6.2	96*
2271	3.3	11.7	6.3	102
2354	3.1	12.1	6.2	102
2568	3.4	12.0	7.1	106
2588	3.3	12.0	6.0	102
2632	3.3	11.3*	6.4	100
3204	3.1	11.4*	6.4	99
4121	3.1	10.4*	6.2	93*
4125	3.1	11.1*	6.4	97*
4168	3.3	12.3	6.7	106
4207	3.2	11.9	6.0	101
4215	3.1	11.9	6.7	102
4227	3.2	11.7	6.2	101
4277	3.0	12.0	7.2	103
4283	3.1	12.0	6.6	102
4296	3.1	12.1	6.4	102
4297	3.4	11.0*	7.1	101
4355	3.0	12.0	6.8	102
9738	3.0	11.5*	6.3	98
3 12 12M				
0027	3.1	12.1	12.6	102
0456	3.2	11.7	11.5*	99
0626	3.2	12.1	12.0	102
1037	3.1	12.0	11.9	100
1075	3.2	11.5*	12.6	100
1082	3.2	11.7	12.2	100
1208	3.1	12.2	12.0	102
1241	3.2	12.2	12.9	104
1247	3.3	12.3	11.2*	102
1541	3.0	12.0	12.7	102
2178	2.9	12.9	12.6	105
2231	3.2	11.9	12.6	102
2285	3.2	11.8	13.1	103
2287	3.5	13.0	13.0	110

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>ARMOUR FERTILIZER WORKS CONTINUED</b>				
<b>3 12 12M CONTINUED</b>				
2483	3.0	12.0	12.7	102
2647	3.3	12.2	12.7	104
2659	3.0	12.6	12.2	103
3012	3.3	11.9	12.7	103
3033	3.2	12.1	12.7	103
3160	3.2	12.0	12.5	102
3165	3.3	12.0	12.6	103
3173	3.1	12.0	12.9	103
3488	3.5	12.1	12.6	105
<b>4 12 4M</b>				
1331	4.0	11.7	5.0	101
<b>4 12 8M</b>				
0049	4.1	11.4*	9.5	101
0055	4.0	12.2	8.4	102
0077	4.2	12.0	8.7	103
0086	3.9	11.4*	8.9	99
0091	4.0	12.5	9.3	105
0142	4.4	12.0	8.7	104
0263	3.9	11.9	8.9	101
0303	4.2	12.0	8.0	101
0399	3.9	11.9	8.5	100
0465	4.1	12.2	8.1	102
1058	4.3	11.9	8.7	103
1136	4.0	11.6*	8.4	101
1185	4.3	11.9	8.0	102
1340	4.0	12.2	9.0	103
1498	4.3	12.2	8.7	105
1509	4.3	12.0	8.5	103
1547	3.7*	12.6	8.7	102
1551	4.0	12.5	11.1	109
1558	4.4	12.0	9.1	105
1650	4.2	12.0	7.6*	100
2130	4.3	11.9	9.3	105
2176	4.1	12.2	8.9	104
2264	4.1	12.1	8.2	102
2284	4.1	12.0	8.9	103
2331	4.0	11.8	7.9	99
2460	3.9	12.0	8.5	100
2628	4.1	12.1	8.4	102
3034	4.1	12.0	9.0	103
3174	4.2	12.0	8.2	102
3208	4.2	12.0	8.4	102
3316	4.3	12.3	8.5	105
4061	4.1	12.2	8.7	103
4100	4.1	11.6*	8.3	100
4187	4.3	12.0	9.4	105
4257	4.1	12.0	8.2	101
9739	4.0	12.1	10.2	105
<b>4 12 8S</b>				
1254	4.1	12.0	8.8	103
1289	4.1	11.6*	8.8	101
1557	4.0	11.5*	8.0	98
<b>4 16 16M</b>				
2653	4.6	15.5*	16.8	101
2657	4.6	15.4*	15.2*	100
4039	4.1	16.1	15.5*	100
<b>5 10 5M</b>				
0047	5.1	10.2	5.5	103
0056	5.3	10.8	5.5	108
0076	4.8	9.9	5.6	100
1081	5.0	10.0	6.2	103
1212	5.2	10.1	6.1	105
2093	4.9	10.4	5.9	104
2199	5.1	10.5	5.9	106
3016	5.2	10.0	5.6	103
3036	5.1	10.2	5.0	102
3163	5.3	10.5	5.5	106
4010	5.0	10.1	6.1	103



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>ARMOUR FERTILIZER WORKS CONTINUED</b>				
5 10 10M	5.0	9.9	10.4	100
0231	5.0	10.3	10.1	102
0318	4.6*	9.9	13.4	104
0332	5.0	10.0	10.1	100
0535	5.0	10.3	10.2	102
0605	5.0	10.3	10.1	102
0740	5.0	10.2	10.1	101
0770	5.3	10.1	10.0	102
0823	5.0	10.3	10.0	101
1063	5.0	10.1	10.6	102
1166	5.0	10.3	10.0	101
1169	5.0	10.0	10.5	101
1287	5.0	10.5	10.1	102
1327	5.0	10.3	10.6	103
1336	5.1	11.1	10.8	107
1740	4.9	10.3	10.0	101
2129	5.1	10.5	9.7	102
2177	5.0	11.1	10.4	106
2184	5.0	10.2	10.5	102
2202	5.0	10.3	10.0	101
2263	5.0	10.6	11.2	105
2566	5.0	10.1	10.5	102
3054	5.0	10.1	10.4	101
3139	5.2	10.0	10.4	102
3151	5.0	10.1	10.0	100
3167	5.0	10.0	10.1	100
3177	5.0	10.2	10.2	101
3186	5.1	10.3	10.0	102
3397	5.2	10.7	10.0	104
4034	5.0	10.7	10.3	104
4041				
5 10 10S	5.0	10.7	10.4	(1) 104
0834	5.2	10.3	9.9	(1) 102
1739	6.0	10.8	10.5	(1) 111
4032				
5 10 15S	4.9	10.0	15.0	99
0028	5.0	10.0	15.0	100
0050	5.0	10.6	15.0	102
0057	4.9	10.6	15.0	102
0079	5.0	10.3	15.0	101
0143	5.0	10.2	15.0	101
0358	4.9	10.5	15.1	102
0457	5.0	10.1	15.2	101
0466	5.0	10.0	15.0	100
0474	5.0	10.0	15.0	100
0575	4.7*	10.5	15.0	100
0733	4.9	10.1	15.2	100
1033	4.7*	10.2	15.2	99
1083	4.8	10.0	15.1	99
1091	4.9	10.2	15.4	101
1096	4.9	10.2	15.2	101
1216	4.9	10.2	14.5*	99
1228	4.9	10.1	15.0	100
1246	4.9	10.0	15.0	99
1251	4.6*	10.2	15.0	98
1257	4.9	10.2	15.0	100
1291	4.7*	10.1	15.0	99
1305	5.0	9.9	15.0	100
1342	5.2	9.9	15.0	(1) 101
1361	4.7*	10.3	15.0	99
1468	4.9	10.6	15.0	104
1510	4.6*	9.6*	15.0	96*
1585	6.0	10.4	15.4	108
1597	5.0	10.6	13.9*	100
1648	4.9	10.0	15.2	100
2017	5.0	10.1	15.0	100
2069	4.6*	10.2	15.0	98
2136	5.0	10.3	15.4	102
2181	5.0	10.2	14.8	100
2200	4.9	10.8	15.0	(1) 103
2262	4.9	10.2	15.0	100
2332	5.0	10.2	15.2	101
2355	5.0	10.2	15.0	101
2414	5.0	10.3	14.7	101
2571	4.9	10.0	15.0	99
2648	5.3	10.0	15.0	102
2671				

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>ARMOUR FERTILIZER WORKS CONTINUED</b>				
<b>5 10 15S CONTINUED</b>				
3014	5.1	10.0	15.0	101
3031	5.0	10.2	15.0	101
3035	4.9	10.0	15.0	99
3140	5.0	10.1	15.0	100
3146	5.1	10.0	14.0*	99
3271	4.9	10.5	15.0 (1)	101
3492	4.6*	11.6	15.0 (1)	104
4062	5.0	10.1	15.0	100
4071	4.9	10.8	15.0 (1)	103
4167	5.0	10.3	15.4	102
4325	5.2	10.3	15.0	102
4419	4.6*	9.5*	15.0	96*
<b>5 10 15S WITH 00.15 ALDRIN</b>				
0404	4.8	9.9	15.0	98
4391	4.9	10.3	15.4	101
<b>5 10 20S</b>				
3181	5.0	10.9	19.5*	102
<b>5 20 20M</b>				
0337	5.0	19.5*	20.0	99
0536	4.5*	19.3*	20.3	97*
1072	5.0	20.0	20.2	100
1546	5.0	20.4	19.2*	100
2033	5.6	18.6*	20.4	99
2070	4.9	20.4	19.3*	100
2127	5.0	19.4*	20.0	98
2499	4.9	19.4*	19.1*	97*
3114	5.1	19.4*	20.7	100
3190	5.1	19.3*	20.1	99
3191	5.0	19.5*	20.2	99
3306	5.0	20.3	20.0	101
3315	5.0	21.6	19.4*	103
3378	4.6*	21.1	19.2*	100
3489	5.8	20.6	18.0*	102
3508	4.9	19.8	20.2	99
3515	5.0	20.3	20.5	101
4021	5.5	20.7	20.1	104
4040	5.0	19.4*	21.0	100
4210	5.0	19.7	19.0*	98
4216	4.8	20.3	20.0	100
4229	5.0	19.5*	20.0	99
4354	5.0	20.7	20.2	102
4374	4.5*	18.6*	20.7	95*
4397	4.9	19.2*	20.7	98
<b>6 6 18S</b>				
0029	6.0	6.2	18.1	101
0051	5.9	7.0	17.4*	102
0058	6.0	6.9	17.2* (1)	102
1229	5.7*	6.2	18.0	99
1255	6.0	6.3	18.0	101
1559	5.9	6.8	18.0	103
2133	5.9	6.3	17.7	100
2201	6.0	6.6	17.4*	101
2236	6.1	6.5	17.3*	101
2668	5.8	6.1	17.6*	98
3013	6.0	6.7	17.4*	102
3111	5.9	6.4	18.1	101
<b>6 8 6M</b>				
0667	5.9	8.2	7.2	103
0835	5.9	8.4	6.9	104
1065	6.0	8.5	6.7	104
1330	5.8	8.2	7.2	103
1332	5.6*	8.7	7.1	103
1362	5.9	8.0	7.5	103
1645	5.8	8.0	6.2	99
2186	5.9	8.6	6.6	104
2570	5.6*	8.8	6.1	101
<b>6 8 6S</b>				
0052	6.0	8.4	6.5	103
0059	6.2	8.2	6.4	104
0144	6.1	8.4	6.4	104

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>ARMOUR FERTILIZER WORKS CONTINUED</b>				
<b>6 8 6S CONTINUED</b>				
0309	5.9	8.0	6.9	102
0836	5.4*	9.7	12.2 <sup>(1)</sup>	120
1098	6.0	8.0	6.5	101
1253	6.0	7.9	6.4	101
1259	6.0	8.2	6.5	102
1346	5.6*	9.6	7.5 <sup>(1)</sup>	109
1550	6.2	9.1	6.5	108
1584	5.8	8.4	7.5	104
1638	6.0	7.9	6.4	101
2053	6.0	8.0	6.6	102
2135	5.9	8.0	6.2	100
2265	5.8	8.4	6.5 <sup>(1)</sup>	102
2500	5.7*	8.4	6.1	100
2631	6.3	8.0	6.5	104
3032	6.0	8.3	6.7	103
3113	6.0	8.0	6.0	100
3175	6.0	7.6*	5.8	98
3187	6.0	8.2	6.5	102
<b>6 12 12M</b>				
0080	5.6*	12.0	12.5	99
0087	5.9	12.6	12.5	103
0304	5.9	12.2	12.2	101
0338	5.9	12.2	12.6	101
0341	5.9	12.2	12.7	101
0400	5.8	12.2	12.2	100
0442	6.0	12.0	12.5	101
0453	5.7*	12.0	12.5	99
0467	5.9	11.7	12.2	99
0468	5.7*	12.2	18.6	111
0484	5.4*	12.0	12.5	98
0537	6.1	12.0	11.7	100
0593	6.1	12.0	12.1	101
0734	6.1	12.0	12.5	101
1066	5.7*	12.3	11.6*	99
1165	5.7*	11.5*	12.2	97*
1170	5.8	11.3*	12.5	97*
1178	6.1	11.9	12.0	100
1183	5.8	12.1	12.0	99
1184	5.4*	11.9	12.0	96*
1218	6.1	13.1	12.7	106
1258	6.0	12.0	12.9	98
1326	5.8	11.7	12.2	98
1548	6.1	11.5*	13.0	101
1561	5.9	12.2	13.2	102
1582	6.0	12.5	12.2	102
1646	5.9	11.7	12.1	99
1652	5.7*	12.3	11.8	99
2042	5.9	11.7	12.7	100
2182	5.7*	12.1	12.7	100
2295	5.8	12.4	12.9	102
2415	5.9	12.0	12.2	100
3056	6.1	11.9	12.7	101
3203	6.0	12.0	12.5	101
3379	6.0	12.0	12.6	101
3388	6.0	12.0	12.6	101
3504	6.0	12.0	12.5	101
3507	5.9	12.0	12.5	100
4008	5.7*	12.1	12.2	99
4033	4.9*	12.0	12.7	95*
4049	5.8	11.7	12.7	99
4072	5.6*	11.9	12.2	98
4150	6.0	12.5	11.0*	100
4156	5.9	11.7	12.2	99
4211	6.3	12.1	12.7	103
4221	6.3	11.9	12.6	102
4228	6.1	12.9	12.7	105
4285	6.0	11.9	13.0	101
4323	5.8	12.1	12.7	101
4369	5.6*	12.2	11.6*	98
4375	5.7*	11.7	13.3	100
4398	5.8	12.4	12.0	100
4406	6.0	12.0	12.2	100
9736	5.6*	12.1	12.8	100
<b>6 12 12S</b>				
0401	5.7*	12.0	13.1	100
0735	5.6*	12.1	12.2	99
1252	5.9	11.9	12.5	100

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<b>ARMOUR FERTILIZER WORKS CONTINUED</b>				
<b>6 12 12S CONTINUED</b>				
1290	5.9	12.0	12.2	100
1320	6.1	13.3	12.4	106
1467	6.1	12.1	12.0	101
1560	5.7*	13.1	12.0	102
2016	6.0	12.1	12.5	101
2067	6.0	12.2	12.7	102
2492	6.0	12.0	12.5	101
2646	6.0	12.1	12.0	100
<b>6 12 18S</b>				
0053	6.3	11.9	18.1	101
0281	6.0	12.5	18.4	102
0305	6.1	12.2	17.4*	100
0342	6.1	12.1	18.0	101
0405	5.9	11.6*	18.5	99
0454	6.1	12.4	17.4*	101
0458	5.8	12.0	17.2*	98
0469	5.7*	12.2	16.6*	97*
0475	5.7*	12.2	18.8	101
0485	5.8	12.4	18.2	101
0538	5.3*	13.8	16.5*(1)	100
0694	6.2	12.6	17.5*	102
0749	5.9	12.8	18.4	103
0782	6.0	12.1	18.0	100
0797	6.2	12.0	17.3*	100
0837	5.6*	12.1	18.6	99
1032	6.0	11.9	18.1	100
1067	5.8	12.4	17.8	100
1071	5.9	11.8	18.1	99
1090	5.8	12.0	17.8	99
1167	6.0	12.3	18.6	102
1177	5.8	12.0	18.6	100
1182	5.8	12.9	18.1	102
1206	5.9	11.9	18.1	99
1211	6.0	11.7	18.2	99
1240	6.0	12.2	17.5*	100
1499	5.9	12.1	17.5*	99
1543	5.7*	13.3	18.0	103
1583	6.2	12.2	17.7	101
1596	5.7*	12.0	18.1	99
1637	6.0	12.7	17.4*	101
2068	6.0	12.1	18.6	101
2134	6.0	12.0	18.1	100
2205	6.2	12.2	18.1	102
2652	5.7*	12.2	17.7	99
2669	6.2	11.3*	18.1	99
3015	6.2	12.0	18.4	102
3044	6.2	11.9	18.1	101
3153	6.1	12.3	17.1*	100
3164	6.4	12.2	17.3*	102
3182	6.3	12.5	17.4*	102
3236	6.1	12.2	17.5*	100
3299	6.0	12.5	17.2*	100
3408	6.0	12.0	18.2	100
3443	5.9	12.4	17.2*	100
3500	5.8	12.6	18.0	101
4009	5.7*	12.5	18.4	101
4031	5.6*	12.3	16.5*(1)	97*
4073	6.0	12.0	18.5	101
4153	5.9	11.9	17.8	99
4157	5.9	12.0	18.0	100
4188	5.9	12.7	18.4	103
4258	6.0	12.2	18.1	101
4322	6.0	12.3	18.0	101
4412	6.3	12.2	18.0	102
<b>6 12 18S WITH 00.15 ALDRIN</b>				
0798	6.0	11.8	17.7	99
<b>6 18 12M</b>				
1345	6.2	17.6*	12.0	100
1639	6.2	17.7	11.6*	99
<b>6 24 12M</b>				
9734	6.0	22.9*	13.5	99

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>ARMOUR FERTILIZER WORKS CONTINUED</b>				
6 24 24M 2286	5.9	20.6*	25.2	93*
8 5 7M 0280	8.0	5.9	7.8	106
8 16 16M 2185	7.6*	16.1	16.7	100
2567	7.1*	16.4	16.2	98
3513	8.1	16.1	16.9	102
4155	7.7*	16.0	16.0	99
8 24 16M 0476	7.9	23.9	16.5	100
10 6 4M 0081	9.4*	6.6	5.5	104
1352	9.7	6.6	4.2	103
10 10 10M 0030	10.1	10.1	10.6	102
0060	9.9	10.7	10.0	102
0082	10.0	10.3	10.7	102
0343	10.2	10.1	10.1	102
0459	8.6*	11.1	10.9	98
0470	9.9	10.2	10.1	100
0486	9.7	10.7	10.5	102
0606	9.4*	10.5	10.1	99
0817	10.5	10.9	10.5	106
1064	9.8	10.2	10.3	100
1073	9.3*	10.2	10.7	98
1135	10.3	11.0	10.2	105
1307	9.7	11.0	10.1	102
1333	10.0	10.3	10.8	102
1586	10.1	9.9	10.2	101
1587	10.0	10.6	10.3	103
1649	9.6*	10.4	10.2	100
1710	10.0	10.9	10.0	103
2032	9.0*	12.0	10.0	102
2075	10.1	10.7	10.4	104
2131	9.8	10.5	10.0	101
2183	9.4*	10.4	10.7	100
2204	9.6*	10.4	11.5	102
2283	9.3*	10.9	10.4	100
2288	9.7	10.3	10.7	101
2333	9.9	11.0	10.0	103
2351	8.9*	10.5	10.0	96*
2416	9.6*	10.6	10.5	101
2490	10.2	11.1	10.8	106
2569	10.3	10.6	10.7	105
2586	11.2	12.3	11.1	116
2645	10.0	11.5	10.9	107
3055	9.8	10.2	10.7	101
3112	9.8	12.1	11.0	108
3152	10.1	10.2	10.0	101
3166	10.0	11.9	10.4	107
3178	10.1	10.2	10.4	102
3185	10.0	10.7	11.0	104
3411	9.9	10.5	10.1	101
3512	10.0	10.0	10.0	100
4042	9.9	10.2	10.2	101
4152	9.7	10.3	10.1	100
4158	9.7	10.5	10.0	100
4169	9.5*	10.8	10.2	101
4256	9.6*	10.5	10.1	100
4330	9.8	10.3	10.4	101
9737	10.0	10.0	10.3	101
10 30 20M 2591	10.3	28.6*	19.5*	98
2689	9.7	27.6*	23.2	98
10 50 8M 1715	10.2	51.5	8.1	103
4364	10.2	51.9	8.4	103

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<u>ARMOUR FERTILIZER WORKS CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
12 12 12M				
0248	12.0	12.8	12.0	102
0249	12.0	12.4	11.2*	100
0271	11.9	12.2	12.5	101
0282	12.0	12.5	12.5	102
0344	12.3	12.2	11.6*	101
0455	11.6*	12.7	12.1	100
0607	11.6*	12.7	12.5	101
0818	11.9	12.9	13.0	103
1227	11.5*	12.0	12.9	99
2128	11.6*	13.0	12.5	102
2482	11.1*	13.1	14.7	103
2572	11.2*	13.1	15.2	104
2587	11.6*	12.6	12.5	101
3404	12.0	12.6	12.2	102
<u>SUPERPHOSPHATE</u>				
0048		19.6		98
0329		19.2*		96*
0397		19.9		100
0403		19.9		100
0632		20.6		103
0695		19.8		99
0819		21.3		107
1256		20.0		100
1292		20.0		100
1595		19.6		98
1653		21.5		107
1691		19.5*		98
2054		19.5*		98
2203		19.7		98
2269		19.7		98
2334		19.9		100
2649		20.5		103
2658		20.1		100
3176		19.2*		96*
3510		19.4*		97*
4186		20.2		101
9733		20.2		101
<u>45 TRIPLE SUPERPHOSPHATE</u>				
0587		42.5*		95*
0861		43.8*		97*
4050		46.0		103
<u>SULFATE OF POTASH</u>				
0452			50.0	100
0574			50.0	100
1036			50.5	105
1542			49.0	102
2233			50.0	104
2409			51.0	102
4321			51.0	102
<u>MURIATE OF POTASH</u>				
0510			60.0	100
0588			60.0	100
0603			60.0	100
2232			60.0	100
2408			60.0	100
<u>ASSOCIATED COOPERATIVE INC.</u>				
14 14 14M				
0287	14.2	14.0	14.0	101
1179	14.1	14.6	14.5	102
15 15 15M				
0141	14.9	14.9	15.2	100
0155	14.6*	15.0	15.6	99



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<b>ASSOCIATED COOPERATIVE INC CONTINUED</b>				
<b>15 15 15M CONTINUED</b>				
0598	14.5*	14.4*	14.6*	97*
0622	15.0	14.8	15.0	100
0716	16.1	13.7*	15.0	101
0807	14.7	15.0	15.0	99
1393	14.5*	15.1	15.0	99
2220	15.7	15.2	14.6*	102
2489	14.4*	14.7	15.0	97*
2655	15.0	15.1	15.0	100
3273	15.0	12.5*	15.0	94*
<b>20 52 0</b>				
3090	20.4	52.5		101
<b>30 10 0</b>				
0634	30.0	92*		99
<b>AMMONIUM NITRATE</b>				
0002	33.1			99
0104	33.9			101
0597	33.8			101
2152	34.0			101
3010	33.7			101
<b>CALCIUM METAPHOSPHATE</b>				
3089		62.6		99
<b>BARTLETT &amp; O BRYAN FERTILIZER CO</b>				
<b>4 12 8M</b>				
0360	3.8	12.0	9.2	101
<b>4 16 16M</b>				
3418	4.1	15.4*	15.7	98
<b>5 10 15S</b>				
0361	4.7*	10.0	15.2	99
3416	5.0	9.7	15.0	99
<b>5 20 20M</b>				
3214	5.5	19.5*	20.0	101
3415	5.1	20.4	20.0	101
<b>6 12 12M</b>				
3213	6.2	12.7	12.9	105
<b>10 10 10M</b>				
0362	9.2*	10.5	11.0	99
3417	9.1*	10.3	11.5	99
<b>12 12 12M</b>				
3215	11.9	12.3	12.5	101
<b>SUPERPHOSPHATE</b>				
0359		19.0*		95*
<b>BLUEGRASS PLANT FOODS INC</b>				
<b>0 10 20M WITH 2 LB BORAX PER 100</b>				
2296		10.4	18.9*	99

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<i>BLUEGRASS PLANT FOODS INC CONTINUED</i>				
0 10 30M WITH 5 LB BORAX PER 100				
2193		11.2	24.8*	94*
2402		9.8	30.0	99
0 20 20M				
0579		19.6	18.8*	97*
2192		16.4*	16.0*	81*
2330		20.9	18.8*	101
2702		19.5*	20.2	99
0 20 20M WITH 5 LB BORAX PER 100				
2125		13.1*	26.1	87*
2190		18.8*	19.7	96*
2297		19.9	20.4	100
2328		20.1	20.1	101
3341		19.7	18.5*	97*
2 12 6M				
2301	2.4	11.6*	7.5	105
3437	2.1	11.5*	7.5	102
4266	2.2	11.4*	7.4	102
3 9 6M				
0226	3.5	9.3	6.7	108
0346	3.3	9.0	6.1	103
0435	3.3	9.0	6.1	103
0570	3.6	8.3*	7.6	106
2300	3.0	9.0	6.5	102
2615	3.7	8.8	7.1	108
3327	2.7*	8.6*	7.5	102
3385	3.3	8.9	6.3	103
3436	3.3	9.6	6.4	108
3 12 12M				
2123	3.3	12.1	11.3*	101
2189	3.2	11.7	12.4	101
2431	3.5	11.7	12.7	104
2457	3.4	11.5*	12.5	102
2613	3.5	11.3*	12.0	100
3241	3.4	11.3*	12.7	101
3337	3.2	11.5*	12.5	100
4 12 8M				
0177	4.0	11.4*	9.3	100
0227	4.2	11.6*	8.0	100
0571	4.4	11.3*	8.3	100
0724	4.5	11.3*	8.4	101
2120	4.2	11.6*	8.3	100
2310	4.3	11.4*	8.7	101
2327	4.2	11.1*	8.7	99
2407	4.0	11.3*	8.5	98
2456	4.0	12.0	9.2	103
2614	3.6*	11.7	9.0	98
2703	3.8	11.2*	9.3	98
3240	4.2	11.1*	8.7	99
3338	4.3	11.5*	8.1	100
4130	4.2	11.8	8.5	102
4255	4.2	11.3*	8.1	98
4 12 8S				
3438	4.6	11.1*	10.7 (1)	106
4 12 8M WITH 00.37 DIELDRIN				
2194	3.9	11.5*	8.7	99
5 10 10M				
0228	5.0	9.6*	10.0	98
0347	5.1	9.4*	10.8	100
0436	5.0	10.0	10.0	100
0445	5.1	10.2	9.9	101
0594	4.8	9.8	10.0	98
2124	5.3	10.0	10.0	102

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<i>BLUEGRASS PLANT FOODS INC CONTINUED</i>	(Percent)	(Percent)	(Percent)	
<i>5 10 10M CONTINUED</i>				
2404	5.1	9.4*	10.7	100
2612	5.0	9.7	10.0	99
3372	5.1	10.3	9.9	102
<i>5 10 15S</i>				
0446	5.3	10.4	14.7	103
0572	5.0	10.0	15.0	100
0725	5.0	10.1	15.0	100
1236	5.1	10.0	15.0	101
2119	4.9	10.2	15.0	100
2298	5.0	10.1	15.4	101
2406	5.3	9.7	15.0	101
2611	5.2	9.9	14.8	100
3128	5.1	9.9	15.0	100
3134	5.0	10.0	15.0	100
3180	5.0	10.0	14.8	100
3242	5.0	10.0	15.0	100
3340	5.0	10.2	14.7	100
4254	5.1	10.1	15.0	101
4265	5.0	10.3	15.0	101
4390	5.0	10.6	13.8*	100
4420	5.5	9.9	15.0	103
<i>5 10 15S WITH 00.20 ALDRIN</i>				
2459	5.4	9.4*	15.0	100
<i>5 10 20S</i>				
3132	4.6*	9.9	17.9*	94*
<i>5 15 0</i>				
0178	5.1	14.1*		97*
2117	5.0	14.7		99
2326	5.2	14.2*		98
3244	5.0	14.1*		96*
<i>5 15 0 WITH 00.31 DIELDRIN</i>				
2325	4.8	15.0		99
<i>5 20 20M</i>				
2122	5.2	18.4*	19.6	96*
2191	4.7*	20.5	19.2*	99
2299	6.3	19.7	18.6*	103
2458	5.2	19.3*	19.4*	98
<i>6 6 18M</i>				
1078	5.8	6.4	18.1	101
1396	6.0	7.2	17.2*	103
2329	5.8	6.3	18.1	100
3237	5.7*	6.6	17.5*	100
<i>6 6 18S</i>				
1398	5.9	6.1	18.4	101
2116	6.0	6.5	17.5*	101
3243	5.8	6.6	17.5*	100
3428	5.9	6.1	18.2	100
3439	6.0	6.4	17.5*	101
4389	5.9	6.6	17.5*	101
<i>6 8 6M</i>				
0179	5.7*	8.4	6.5	101
0229	6.2	7.9	6.7	103
2302	5.6*	8.2	6.4	99
2430	5.8	8.1	6.6	100
3232	6.0	7.6*	6.4	100
<i>6 8 6S</i>				
0230	6.2	8.0	6.5	103
0447	6.4	8.2	6.3	105
0573	6.7	7.5*	6.4	104
0684	6.4	8.0	6.5	104
2118	5.9	8.3	6.3	102

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<b>BLUEGRASS PLANT FOODS INC CONTINUED</b>				
<b>6 8 6S CONTINUED</b>				
3127	6.2	8.0	6.4	103
3183	6.4	7.9	6.2	103
3233	6.0	8.0	6.4	101
3239	6.0	8.0	6.5	101
3326	6.2	8.1	6.4	103
3339	6.0	8.7	6.6	105
4271	6.2	8.2	6.8 (1)	105
<b>6 8 12 9S 3M</b>				
3238	6.4	8.0	12.4	103
<b>6 12 18S</b>				
2324	5.7*	12.0	18.0	99
2401	5.6*	12.0	18.2	98
3135	5.8	11.9	17.5*	98
3384	6.0	11.7	16.9*	97*
<b>10 10 10M</b>				
0180	9.2*	10.1	10.2	97*
0448	9.7	9.4*	10.7	98
1397	9.9	9.6*	10.6	99
1664	8.9*	9.1*	13.6	98
2126	9.2*	10.5	10.0	98
2403	9.7	10.0	10.3	99
<b>12 12 12M</b>				
0348	11.7	13.0	12.2	102
2429	10.3*	12.1	13.0	94*
2610	12.1	12.0	12.1	101
3386	10.5*	12.9	13.0	98
<b>AMMONIUM SULFATE</b>				
3427	20.6			103
<b>SUPERPHOSPHATE</b>				
0176		18.8*		94*
2121		19.5*		97*
2405		19.8		99
2455		20.3		102
2704		19.7		98
3245		19.2*		96*
3336		16.8*		84*
<b>46 TRIPLE SUPERPHOSPHATE</b>				
1394		39.3*		85*
<b>SULFATE OF POTASH MAGNESIA</b>				
3133			21.4*	97*
3426			22.0	100
<b>MURIATE OF POTASH</b>				
1395			56.4*	94*
<b>BUNTON SEED COMPANY</b>				
<b>6 12 6M</b>				
1431	5.9	13.0	9.0	110
<b>10 12 6M</b>				
1432	10.0	12.0	7.5	103
<b>BURLEY BELT PLANT FOOD WORKS</b>				
<b>0 20 20M</b>				
0351		20.3	17.9*	98
3258		18.5*	21.5	98

(1) See Table 5 for % Potash Equivalent to Excess P.



TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>BURLEY BELT PLANT FOOD WKS CONTINUED</b>				
3 9 6M				
0352	2.6*	9.1	6.1	97*
0578	3.1	9.2	6.2	103
0613	3.0	9.3	5.8	101
3259	3.1	9.2	6.0	102
3387	3.0	8.9	5.6*	98
4 12 8M				
0215	4.3	11.0*	8.2	98
0437	4.0	11.4*	8.2	98
0614	4.2	11.2*	9.4	101
0702	4.3	11.3*	7.6*	98
3005	4.0	11.6*	8.3	99
3267	3.7*	12.1	7.9	98
4 16 4S				
0184	4.1	15.5*	5.3	101
0216	4.0	16.0	5.2	103
1223	4.0	15.3*	4.5	98
4 16 4S WITH 00.25 DIELDRIN				
3263	4.1	14.6*	5.1	97*
4 16 4S WITH 00.30 ALDRIN				
9750	4.4	15.9	4.4	103
5 10 5M				
0353	5.0	9.9	5.4	101
5 10 10M				
0217	5.0	10.1	10.2	101
0354	4.9	9.7	10.2	98
0623	4.8	10.0	9.4*	97*
3006	4.9	9.9	10.5	100
3261	5.0	9.7	10.4	100
3450	5.0	10.0	10.0	100
5 10 15S				
0218	5.1	9.8	15.4	101
0539	4.8	9.9	15.0	98
0615	5.0	9.9	15.0	100
0696	4.7*	10.3	15.0	99
0703	5.0	10.0	14.4*	99
0721	5.0	10.1	14.9	100
1080	4.9	9.1*	15.6	97*
1224	4.9	10.1	15.0	100
1239	4.6*	10.6	15.0	100
3003	4.8	10.1	15.0	99
3255	4.6*	11.0	14.6*	101
3452	5.1	10.0	15.0	101
6 6 18S				
1222	5.8	6.3	18.4	101
3004	5.8	6.6	18.1	101
3266	5.9	6.7	18.0	102
3451	6.0	6.8	18.0	103
6 8 6S				
0616	6.1	7.6*	6.4	100
0624	5.9	8.0	6.4	100
0697	6.3	8.1	6.3	104
1225	6.2	8.5	6.5	105
3001	6.1	8.1	8.0	106
3045	6.1	8.6	6.0	104
3265	6.1	8.5	6.3	104
6 12 12M				
0438	4.2*	19.1	20.6	132

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>BURLEY BELT PLANT FOOD WKS CONTINUED</u>				
8 10 15S				
3002	7.9	10.2	15.0	100
3256	7.8	10.3	14.4*	99
3453	7.6*	10.0	15.0	98
10 10 10M				
0355	9.1*	10.0	10.5	96*
0439	9.9	9.7	10.5	99
0625	10.4	9.6*	10.2	101
0701	9.6*	10.0	11.2	100
0722	9.7	10.2	10.8	101
0796	9.5*	10.5	10.3	100
3007	9.3*	10.3	10.2	98
3264	9.2*	10.7	10.1	99
3449	9.9	10.2	10.0	100
4388	10.0	10.0	10.5	101
10 30 20M				
0617	9.2*	27.4*	19.4*	93*
0869	9.0*	26.1*	21.5	92*
12 12 12M				
3257	12.0	12.7	12.2	102
<u>SUPERPHOSPHATE</u>				
0443		19.9		100
3262		20.0		100
<u>SULFATE OF POTASH</u>				
3260			51.0	102
<u>CHILEAN NITRATE SALES CORPORATION</u>				
<u>NITRATE OF SODA</u>				
0116	16.2			101
0131	16.0			100
0316	16.0			100
<u>COASTAL CHEMICAL COMPANY</u>				
<u>46 TRIPLE SUPERPHOSPHATE</u>				
1528		46.3		101
<u>COMMERCIAL SOLVENTS CORPORATION</u>				
<u>AMMONIUM NITRATE</u>				
0054	33.8			101
0402	33.7			101
0589	33.5			100
0608	33.9			101
0704	33.4			100
1244	33.5			100
2171	33.4			100
3037	33.7			101
<u>COMMONWEALTH FERTILIZER COMPANY INC</u>				
<u>0 20 20M</u>				
0379		21.5	21.7	108
2338		21.0	21.2	105



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>COMMONWEALTH FERTILIZER CO CONTINUED</u>				
3 12 12M 2165	3.0	12.7	10.8*	100
4 12 8M 0380	4.3	11.9	9.0	104
0668	4.1	12.2	9.0	104
2035	4.1	11.7	8.0	99
2144	4.0	11.7	8.9	101
2166	4.3	12.2	7.8	103
2335	4.3	12.8	7.6*	105
2520	4.2	12.0	9.0	104
4 12 8M WITH 00.50 ALDRIN 0383	4.2	11.8	8.0	100
5 10 15S 0381	5.0	10.1	15.0	100
0669	4.8	10.4	15.6	102
2034	5.2	10.8	15.0	104
2143	5.0	10.2	15.0	101
2337	5.0	11.1	14.1*	103
2534	5.4	9.7	16.1	103
4346	4.9	10.4	15.0	101
5 20 20M 2339	4.9	20.8	18.4*	100
2538	5.2	19.6	20.7	101
6 12 12M 0670	6.2	11.7	13.0	102
2036	5.7*	11.9	11.4*	97*
2168	5.6*	11.6*	12.0	96*
2336	5.7*	13.0	11.0*	100
2537	5.4*	12.8	10.7*	97*
10 10 10M 0382	9.4*	10.5	10.6	100
2167	9.2*	10.3	11.0	99
2519	9.1*	10.6	10.6	99
12 12 12M 2156	12.0	12.5	12.4	102
<u>SUPERPHOSPHATE</u>				
0378		20.9		105
0671		20.0		100
<u>SULFATE OF POTASH</u>				
0377			51.0	102
<u>COOPERATIVE FERTILIZER SERVICE</u>				
0 19 38M WITH 4 LB BORAX PER 100				
1452		20.1	37.7	103
1565		20.0	39.9	105
2433		19.6	38.7	103
2699		19.9	36.8*	101
3502		20.0	39.5	105
4287		20.1	40.0	106
4404		19.0	40.0	103
4426		20.5	38.2	104
0 20 20M				
0118		20.5	20.1	102
0585		21.1	20.2	104
4128		20.9	20.4	104

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959  
Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<i>COOPERATIVE FERT SERVICE CONTINUED</i>				
<i>0 20 40M WITH 4 LB BORAX PER 100</i>				
0033		193*	38.7*	97*
2103		209	40.1	102
2249		20.7	39.7	101
3039		21.0	39.2*	102
4025		20.2	39.3	100
4205		20.2	40.0	101
4231		20.0	37.8*	97*
7487		20.7	40.0	102
9748		21.9	38.6*	103
<i>0 30 30M</i>				
0034		31.9	30.0	104
0138		30.2	30.0	100
0156		30.1	30.0	100
0299		32.0	30.4	105
0427		32.3	30.0	105
0560		32.1	30.0	105
0635		30.0	30.7	101
0866		29.9	31.0	101
1125		30.8	29.7	101
1339		30.1	30.0	100
1464		28.5*	30.0	97*
1566		33.2	29.0*	106*
1606		30.0	30.5	101
1712		29.0*	30.0	98
2057		30.0	30.0	100
2173		30.4	29.0*	100
3059		31.7	30.0	104
3070		30.0	30.0	100
3253		30.5	30.0	101
3312		31.1	31.0	104
4028		30.9	30.0	102
4190		27.9*	30.0	95*
4192		30.4	30.0	101
4238		30.9	31.0	103
4334		29.4*	30.0	99
<i>2 12 12M</i>				
0119	2.1	12.9	12.0	105
<i>3 12 12M</i>				
0109	3.0	11.8	12.6	100
0187	3.1	12.0	12.5	102
0514	3.0	12.0	12.6	101
0636	3.0	12.2	12.2	101
1137	3.3	11.5*	13.0	102
1283	3.2	11.4*	12.6	100
1453	3.0	12.3	12.4	102
1680	3.2	12.3	12.0	103
2094	3.0	12.0	12.0	100
2154	3.1	11.4*	12.2	98
2366	3.2	11.8	12.5	102
3043	3.2	11.4*	12.4	100
3060	3.0	11.7	12.5	100
3085	3.0	12.0	11.3*	98
3086	3.1	11.3*	12.7	99
3252	3.1	11.2*	12.6	98
3269	3.1	12.0	12.2	101
3314	3.0	11.9	12.5	101
4084	3.0	12.2	12.6	102
<i>4 12 8M</i>				
0003	4.0	11.7	7.9	98
0006	4.2	11.3*	8.4	99
0013	4.1	11.5*	8.4	99
0035	4.0	11.4*	8.5	98
0072	4.1	11.4*	8.5	99
0095	4.1	12.2	8.3	102
0110	4.2	11.7	8.3	101
0300	4.1	11.7	8.6	100
0421	4.1	11.3*	8.3	98
0428	4.1	11.9	8.4	101
0515	4.0	12.0	8.4	101
0549	4.0	11.9	8.3	100
0561	3.9	11.9	8.1	99
0621	4.1	12.0	8.6	102



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<i>COOPERATIVE FERT SERVICE CONTINUED</i>	(Percent)	(Percent)	(Percent)	
<i>4 12 8M CONTINUED</i>				
0637	4.0	12.7	8.5	104
0712	4.0	11.3*	8.4	98
0719	4.2	12.0	8.8	103
0799	4.2	11.8	8.9	103
0804	4.0	11.9	8.7	101
0863	4.3	12.0	8.6	103
1003	4.1	11.7	8.3	100
1009	4.2	12.0	8.1	102
1055	4.3	11.7	8.3	101
1282	4.0	11.5*	8.2	98
1372	4.8	12.0	8.7	107
1462	4.2	12.0	8.7	103
1619	4.5	12.0	8.9	105
1678	4.1	12.9	8.8	107
1711	4.1	12.5	8.1	103
1733	4.2	12.0	8.6	103
2019	4.0	11.7	8.5	100
2095	4.1	11.8	8.0	100
2155	4.2	12.2	8.9	104
2229	4.4	11.2*	8.5	100
2251	4.1	12.0	8.4	102
2385	4.2	12.0	8.4	102
2390	4.4	11.8	8.1	102
2487	4.2	12.5	8.1	104
2552	4.1	12.3	8.5	103
2627	4.3	12.2	8.8	105
2643	4.3	12.6	8.4	106
3058	4.0	11.4*	8.4	98
3071	4.1	11.1*	8.9	99
3143	4.1	11.3*	8.3	98
3197	4.3	11.8	8.6	103
3250	4.2	11.7	8.6	101
3328	4.1	12.0	8.1	101
3345	4.0	11.9	8.4	100
3358	4.0	12.0	8.7	102
3391	4.0	12.0	8.2	100
3413	4.3	12.0	9.2	105
3435	4.1	11.9	8.5	101
3462	4.2	12.3	8.0	103
3505	4.2	12.0	8.7	103
3520	4.0	11.8	8.8	101
4007	4.1	11.4*	8.5	99
4019	4.2	13.4	9.9	112
4076	4.0	12.0	8.1	100
4107	4.2	10.8*	8.2	96*
4115	4.2	11.9	8.0	101
4194	4.2	12.1	8.3	103
4203	4.1	12.0	8.5	102
4224	4.1	11.2*	8.5	98
4242	4.1	12.0	8.7	102
4288	4.0	12.1	8.1	101
4294	3.9	12.2	8.2	101
4295	4.0	12.6	8.2	103
4298	4.0	12.4	8.0	102
4301	4.0	12.0	8.1	100
4351	4.4	12.0	8.9	105
4382	4.0	12.3	8.4	102
4401	4.3	12.4	8.0	104
<i>4 12 12M</i> 0120	4.3	12.6	12.5	105
<i>5 10 5M</i> 0121	5.1	10.6	5.4	105
<i>5 10 10M</i> 0122	4.9	10.5	10.2	102
0852	5.1	10.7	10.1	104
3194	5.0	9.6*	10.0	98
4129	5.2	10.9	10.0	105
<i>5 10 15S</i> 0004	5.0	10.2	14.7	100
0007	5.2	10.1	15.0	102
0014	5.0	10.3	15.0	101
0020	5.0	10.2	15.1	101
0036	5.1	10.3	15.2	102

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<i>COOPERATIVE FERT SERVICE CONTINUED</i>				
<i>5 10 15S CONTINUED</i>				
0045	4.9	10.7	14.8	102
0066	5.0	10.6	14.8	102
0068	5.0	10.3	14.9	101
0073	5.1	10.2	15.0	101
0096	5.3	10.3	15.2	103
0106	5.3	10.5	15.0	104
0111	5.2	10.5	15.0	103
0139	4.9	10.3	15.0	101
0157	5.3	10.1	15.1	102
0188	5.0	10.3	14.8	101
0234	5.0	9.7	15.0	99
0327	5.2	10.9	15.0	105
0422	5.0	10.1	15.2	101
0562	5.0	10.0	15.0	100
0640	5.3	10.2	15.0	103
1005	5.2	10.2	15.0	102
1028	5.0	10.4	15.0	102
1035	5.0	10.4	15.0	102
1041	5.1	10.5	14.8	102
1180	5.2	10.1	15.0	102
1317	5.2	10.2	15.0	102
1383	5.2	10.2	15.0	102
1409	5.1	10.6	15.0	103
1439	5.1	10.3	15.0	102
1465	5.0	10.1	15.0	100
1517	4.8	10.3	15.0	100
1567	5.2	10.4	15.0	103
1598	5.2	10.1	15.0	102
1616	5.0	10.2	15.2	101
2022	5.2	10.7	15.0	104
2077	5.1	10.2	15.0	101
2107	5.1	10.2	15.0	101
2250	5.3	10.0	15.0	102
2346	5.1	9.9	15.2	101
2365	5.2	10.0	15.2	102
2553	5.4	10.3	15.0	104
2666	5.2	10.3	15.0	102
3011	5.0	10.5	15.0	102
3038	5.1	10.4	15.0	102
3068	4.9	10.1	15.0	100
3084	5.2	10.1	15.0	102
3088	5.1	10.1	15.2	101
3107	5.1	10.3	15.0	102
3145	5.0	10.2	15.0	101
3169	5.1	10.0	15.0	101
3198	5.3	10.4	15.0	103
3251	5.0	10.2	15.0	101
3414	4.8	10.1	15.0	99
3495	4.9	10.2	15.0	100
4006	5.0	10.0	15.0	100
4018	5.2	10.0	15.0	101
4027	5.1	10.2	15.0	101
4044	5.2	10.3	15.0	102
4086	5.1	10.0	15.0	101
4108	5.0	10.4	14.8	101
4112	5.0	10.2	15.0	101
4225	5.2	10.4	15.0	103
4243	5.0	10.2	15.0	101
4311	4.8	10.1	15.0	99
4405	5.4	10.3	15.0	104
4418	5.2	11.4	12.5*	102
7481	5.0	10.1	15.0	100
7483	5.1	10.2	15.0	101
9745	4.9	10.1	15.0	100
<i>5 20 20M</i>				
0074	5.2	20.6	20.1	103
0112	5.3	20.5	20.0	103
0158	5.0	20.6	20.5	102
0208	5.1	20.3	20.0	101
0512	5.1	20.6	20.5	103
0641	5.0	19.0*	20.0	97*
0859	5.3	19.2*	20.8	100
1006	5.3	20.5	20.1	103
1338	5.0	19.9	20.7	101
1387	5.2	20.0	20.7	102
1392	5.0	20.1	21.0	102
1568	5.4	19.6	20.6	101
1615	5.2	20.0	20.1	101
1732	5.2	19.5*	20.7	100



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<i>COOPERATIVE FERT SERVICE CONTINUED</i>				
<i>5 20 20M CONTINUED</i>				
2020	5.4	20.5	20.8	106
2040	5.6	19.6	21.0	103
2079	5.1	20.7	20.0	102
2105	5.1	20.8	20.0	103
2197	5.2	20.1	20.2	101
2230	5.0	20.5	19.6	101
2282	5.1	20.0	20.5	101
2377	5.3	20.0	20.6	102
2432	5.0	20.3	20.0	101
2503	5.2	20.2	20.2	102
2539	4.9	19.7	21.7	101
2550	5.4	20.4	20.2	103
2629	5.4	19.0*	20.5	100
2654	5.6	19.9	21.0	103
2690	5.0	20.5	19.2*	100
2701	5.3	19.9	21.0	102
3087	5.4	20.0	20.4	102
3141	5.3	20.1	20.1	102
3275	5.1	20.3	19.6	101
3311	5.3	20.0	20.9	102
3323	5.2	20.0	20.5	101
3463	4.8	21.0	20.0	102
3496	4.9	21.4	18.3*	101
3503	5.0	20.2	20.0	101
3522	5.8	18.5*	20.5	100
3538	4.9	21.1	19.1*	101
4029	5.3	20.4	21.0	104
4043	5.4	20.0	20.0	102
4053	5.3	20.2	20.7	103
4088	5.2	20.1	20.1	101
4096	5.3	20.0	20.7	102
4183	5.1	18.9*	20.1	98
4193	5.1	19.9	20.1	100
4223	5.2	20.3	20.2	102
4352	5.2	18.2*	14.2*	88*
4361	5.0	18.9*	20.7	98
4402	5.3	19.7	20.5	101
4421	5.4	19.9	17.9*	99
7486	5.4	20.7	20.3	104
<i>6 6 18S</i>				
0021	6.0	6.1	18.2	101
0037	6.0	6.0	18.4	101
0805	5.9	7.0	17.2*	102
1284	5.9	6.3	18.0	101
1663	6.0	6.3	17.7	101
1671	6.0	6.3	17.6*	100
2028	5.7*	6.4	18.2	100
2412	6.0	6.5	17.6*	101
3106	6.2	6.0	18.6	103
3170	6.0	6.1	18.1	101
3254	6.1	6.3	18.1	102
3268	6.0	6.6	18.0	103
4110	6.0	6.0	18.1	100
4387	5.9	6.6	18.1	102
7480	6.1	6.4	18.0	102
7484	6.1	6.4	18.0	102
9744	6.1	6.0	19.0	103
<i>6 8 6S</i>				
0008	5.9	8.2	5.7*	100
0015	5.9	8.1	6.2	100
0038	6.0	8.6	6.3	104
0046	5.9	8.0	6.3	100
0069	6.0	8.0	6.0	100
0075	6.1	8.4	6.3	104
0097	6.2	8.7	6.9	107
0107	6.1	8.5	6.3	104
0189	6.3	8.9	6.1	107
0423	6.0	8.0	6.3	101
0550	6.2	8.0	6.1	102
0563	6.1	8.0	6.1	101
1029	5.9	8.4	6.0	101
1109	6.0	8.0	6.3	101
1138	6.0	8.9	6.7	106
1186	6.0	8.1	6.2	101
1204	6.3	8.4	6.2	105
1214	6.1	7.6*	6.0	99
1438	6.0	7.9	6.2	100
1466	6.0	8.3	6.2	102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<i>COOPERATIVE FERT SERVICE CONTINUED</i>				
<i>6 B 6S CONTINUED</i>				
1675	5.9	8.0	5.9	99
2021	6.0	8.5	6.2	103
2096	6.2	8.5	6.3	105
2174	6.2	8.2	6.4	104
2665	5.8	8.8	6.5	104
3069	5.7*	8.0	6.1	98
3108	6.0	7.6*	6.3	99
3363	6.2	8.4	6.2	104
4075	5.9	8.5	6.6	103
4087	6.0	8.0	6.3	101
4114	5.9	8.2	6.7	102
4159	6.4	8.6	6.0	106
4189	6.0	9.2	6.4	107
7482	5.9	7.9	6.1	99
9746	5.8	7.9	6.4	99
<i>6 12 12M</i>				
0005	5.7*	11.9	12.6	99
0011	6.0	11.9	13.0	101
0039	6.1	11.9	12.4	101
0098	6.2	12.0	12.7	102
0113	6.2	11.7	12.5	101
0140	6.1	11.6*	12.5	100
0159	5.9	12.0	13.9	103
0190	6.0	11.4*	12.5	99
0296	6.2	12.1	12.6	103
0301	6.0	11.5*	12.8	100
0513	5.9	12.2	12.5	101
0551	5.9	12.0	12.0	99
0601	5.8	11.7	12.6	99
0620	6.1	11.5*	12.2	99
0638	6.3	12.3	12.5	104
0713	6.2	11.6*	12.2	100
0717	6.2	11.5*	12.4	100
0720	6.2	11.6*	12.6	101
0800	6.0	11.9	12.2	100
0808	6.2	10.9*	12.4	98
0864	6.1	12.4	12.4	103
1004	6.2	12.1	12.7	103
1034	6.1	12.2	12.7	103
1056	6.1	11.9	12.7	101
1068	6.1	11.9	12.4	101
1205	6.2	12.0	12.5	102
1385	6.2	12.1	12.5	102
1410	6.1	12.1	12.5	102
1450	6.0	11.8	12.6	100
1451	6.3	12.1	12.7	103
1518	6.1	12.1	12.5	102
1608	5.7*	12.0	12.7	100
1618	6.6	12.2	12.7	105
1676	5.8	11.3*	12.0	96*
1679	6.1	12.3	12.0	102
1721	6.0	11.6*	12.2	99
2056	6.2	12.1	12.6	103
2076	6.2	12.0	12.6	102
2106	6.4	11.7	12.4	102
2252	6.3	12.0	12.7	103
2345	6.5	12.1	12.5	104
2367	6.0	12.0	12.7	101
2378	6.4	12.0	12.0	102
2384	6.3	12.0	12.2	102
2434	6.2	12.2	12.5	103
2488	6.2	12.3	12.1	102
2504	6.0	12.4	12.4	102
2551	6.3	13.1	12.7	107
2656	6.4	12.3	12.5	104
3040	6.1	11.3*	12.8	99
3057	6.0	11.7	13.0	101
3083	6.2	11.5*	12.8	101
3144	6.4	11.8	12.5	102
3171	6.2	11.6*	12.9	101
3195	6.1	12.2	13.0	103
3249	6.2	11.4*	12.7	100
3274	6.2	11.9	12.5	102
3313	6.3	11.9	12.5	102
3359	6.0	11.9	12.0	100
3392	6.0	11.9	12.0	100
3445	6.1	11.5*	12.5	100
3464	5.9	12.5	12.0	101
3494	6.1	12.2	12.3	102



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>COOPERATIVE FERT SERVICE CONTINUED</b>				
<b>6 12 12M CONTINUED</b>				
3506	6.3	11.5*	12.2	100
3519	6.2	11.6*	12.2	100
3523	6.0	11.8	12.2	100
3536	6.0	12.2	12.7	102
4020	6.4	11.3*	12.5	101
4026	6.5	11.9	12.7	104
4106	6.2	11.2*	12.7	99
4111	6.3	11.1*	12.4	99
4160	6.3	12.0	12.7	103
4226	6.5	12.0	12.5	104
4232	6.2	11.9	12.5	102
4299	5.8	12.0	12.0	99
4302	6.0	11.9	12.2	100
4313	6.5	12.0	12.5	104
4333	6.0	12.4	10.6*	99
4381	6.1	11.9	12.7	101
4400	6.6	13.1	12.5	108
<b>10 10 10M</b>				
0019	10.4	10.7	10.5	105
0023	10.3	10.5	9.6*	103
0067	10.2	10.6	10.3	102
0123	8.7*	11.9	10.1	100
0326	10.0	10.9	10.1	103
0586	10.1	10.4	10.4	103
0599	10.7	10.4	10.4	106
1017	10.3	10.1	10.7	103
1054	10.2	10.7	10.1	104
1069	10.5	10.3	10.1	104
1124	10.5	10.4	10.2	104
1325	10.4	10.6	10.3	105
1386	10.3	10.5	10.5	104
1564	10.6	10.3	10.1	104
2027	10.5	10.7	10.2	105
2058	10.3	11.1	10.3	106
2078	10.4	10.5	10.5	105
2104	10.2	10.6	10.0	103
2198	10.1	10.6	10.4	103
2383	10.5	10.2	10.8	105
3041	10.6	10.5	10.1	105
3105	10.3	10.3	10.3	103
3142	10.5	10.4	10.4	105
3196	10.5	10.3	10.5	104
3440	10.5	10.5	10.1	104
4015	10.7	10.2	10.6	105
4030	10.4	10.4	10.7	105
4085	10.5	10.6	10.7	106
4113	10.3	10.6	10.0	104
4184	10.5	10.5	10.6	105
4191	10.4	10.7	10.5	105
4230	10.1	10.9	10.1	104
4332	10.4	10.4	10.4	104
4386	10.0	10.9	10.6	104
4403	10.2	10.3	10.1	102
7485	10.2	10.6	10.1	103
7489	10.7	10.4	9.9	105
7500	10.2	10.5	10.6	104
9747	10.3	11.0	10.5	106
<b>10 10 10M WITH 00.40 HEPTACHLOR</b>				
4413	10.5	10.3	10.6	105
<b>10 20 20M</b>				
0124	10.7	21.2	20.0	105
0853	10.4	20.7	20.0	103
<b>10 30 20M</b>				
0009	9.9	28.8*	20.1	98
0099	9.8	29.4*	20.7	99
0718	9.7	29.4*	20.6	99
1040	10.0	29.4*	21.0	100
1308	9.7	29.5	20.2	98
1337	11.0	32.6	17.6*	105
2065	9.9	29.1*	21.1	99
2364	9.8	29.2*	21.5	99
2505	9.9	30.0	21.0	101
3310	10.1	29.9	20.7	101

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<i>COOPERATIVE FERT SERVICE CONTINUED</i>				
<i>10 30 20M CONTINUED</i>				
4016	10.0	29.7	21.0	100
4017	9.9	29.2*	20.5	99
4204	10.6	30.8	20.0	103
<i>12 12 12M</i>				
0191	12.2	12.3	12.4	102
0642	12.4	12.0	12.2	102
0714	12.0	12.3	12.0	101
1516	12.0	12.0	12.5	101
1607	12.0	12.2	12.5	101
1617	12.3	12.0	12.6	102
1677	11.9	12.0	12.0	100
2389	10.4*	12.8	12.4	96*
2573	11.7	11.9	12.0	98
3412	11.0*	12.3	12.4	97*
3537	12.3	12.3	12.2	102
4312	10.8*	12.2	12.4	96*
4385	12.2	12.5	12.2	103
<i>AMMONIUM SULFATE</i>				
0233	18.9*			92*
3272	20.9			102
<i>AMMONIUM NITRATE</i>				
4161	34.0			101
<i>SUPERPHOSPHATE</i>				
0016		20.6		103
0032		19.3*		97*
0108		20.0		100
0117		20.9		105
0298		19.8		99
0424		19.6		98
0511		19.8		99
0619		21.1		105
1213		19.6		98
1384		20.1		100
1448		20.0		100
1463		20.4		102
1588		19.6		98
2175		20.0		100
2626		20.0		100
3042		20.5		102
3179		20.0		100
3297		20.1		100
4331		20.3		102
<i>46 TRIPLE SUPERPHOSPHATE</i>				
0639		45.4		99
0860		46.0		100
1515		44.5*		97*
2644		44.8*		97*
2700		45.4		99
<i>CALCIUM METAPHOSPHATE</i>				
0022		63.3		100
0105		63.1		100
0548		62.9		100
0559		63.1		100
0600		64.1		102
2108		63.6		101
<i>SULFATE OF POTASH</i>				
0017			50.5	101
0425			50.0	100
0558			50.0	100
1215			50.0	100
1662			51.0	102
1670			50.0	100
<i>MURIATE OF POTASH</i>				
0018			60.0	100
0031			61.1	102



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen  (Percent)	Available Phosphoric Acid  (Percent)	Potash  (Percent)	Percent of Relative Value Found
<b>COOPERATIVE FERT SERVICE CONTINUED</b>				
<b>MURIATE OF POTASH CONTINUED</b>				
0297			60.0	100
0328			60.0	100
0426			60.0	100
0602			60.0	100
1248			60.0	100
1449			60.0	100
2221			60.0	100
4051			60.0	100
4136			60.0	100
4383			60.0	100
<b>DARLING &amp; COMPANY</b>				
0 20 20M 1537		18.0*	20.2	94*
3 9 27M 1536	3.0	9.7	27.1	103
3 12 12M 0846	3.2	11.7	12.5	101
4 12 8M 0152	4.6	13.1	8.0	109
0745	3.9	12.0	12.0	108
0771	5.9	13.0	10.0	122
1525	5.0	12.0	8.3	108
4 16 16M 1523	4.7	16.7	17.7	109
5 10 15S 0272	5.1	10.0	15.0	101
0746	5.3	10.0	15.0	102
0826	5.3	9.9	15.6	103
1504	5.1	10.2	15.0	101
5 10 15S WITH 00.50 ALDRIN 0772	5.3	10.1	15.0 (1)	102
5 20 20M 1485	5.7	19.8	20.0	102
1522	5.4	19.2*	20.7	100
1540	5.1	19.2*	20.2	100
1736	5.1	18.2*	20.5	96*
6 12 12M 0147	6.1	12.0	12.4	101
0150	6.1	11.4*	12.9	100
0153	6.2	12.0	12.2	101
0273	5.6*	11.4*	13.0	97*
0288	6.6	12.4	13.2	107
0492	5.7*	12.2	12.2	100
0747	4.4*	11.4*	18.5	101
0773	5.5*	12.2	12.5	99
1505	5.9	12.2	12.5	101
1524	6.0	11.9	13.5	102
1538	5.7*	12.4	12.4	101
1723	5.4*	11.3*	12.7	95*
1735	5.2*	12.8	12.5	99
1737	5.7*	12.0	12.5	99
10 10 10M 0151	10.6	10.4	10.0	104
0154	10.2	10.8	10.0	104
0471	8.6*	11.0	9.6*	96*
1526	10.1	10.5	10.6	103

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<i>DARLING &amp; COMPANY CONTINUED</i>	(Percent)	(Percent)	(Percent)	
12 12 12M	11.7	12.4	12.1	100
0274	11.2*	13.3	11.1*	99
0748	12.2	12.4	12.5	103
1532				
15 15 15M	15.2	14.5*	15.0	100
1534				
45 TRIPLE SUPERPHOSPHATE		45.5		101
0831				
SULFATE OF POTASH			50.0	100
0838				
MURIATE OF POTASH			60.0	100
0477			60.0	100
0491				
<i>DAVISON CHEMICAL CORPORATION</i>				
0 20 20M		20.8	19.8	102
4213		19.9	19.9	100
4350		20.0	20.2	100
4360				
0 20 20M WITH 5 LB BORAX PER 100		18.6*	20.0	95*
2147		19.6	18.6*	96*
2359				
0 20 20M WITH 10LB BORAX PER 100		19.7	19.6	98
2244				
0 25 25M		26.0	25.0	103
0736		26.6	25.1	104
1303		25.8	23.3*	100
2674		24.5*	27.9	103
3394		24.5*	26.0	100
3530				
2 12 6M	2.1	11.0*	6.4	96*
2363				
3 9 6M	2.7*	9.4	6.4	101
2247				
3 12 12M	3.4	12.6	13.9	110
1022	3.1	11.9	12.0	100
1051	3.5	12.9	12.5	108
1144	3.3	11.2*	12.8	100
1390	3.3	11.5*	13.0	102
1428	3.1	11.5*	12.7	100
1461	3.2	12.8	13.5	108
1470	3.2	11.5*	13.0	101
1611	3.1	11.8	11.5*	99
2348	2.7*	12.2	12.5	100
2360	3.0	11.5*	12.5	99
2447	3.4	13.4	12.2	109
2485	3.1	11.5*	14.0	103
3218	3.1	11.5*	12.2	101
3375	2.9	12.7	12.7	104
3487	3.2	15.0	12.5	116
4105	3.1	12.4	12.0	102
4241				
4 12 8M	4.4	13.5	8.7	111
0463	4.0	11.5*	8.4	99
0478	4.6	11.9	8.1	104
0753	4.5	14.4	11.0	121
0813				



TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<b>DAVISON CHEMICAL CORP CONTINUED</b>				
<b>4 12 8M CONTINUED</b>				
0851	4.7	11.5*	8.6	104
1175	4.0	12.1	7.8	100
1356	4.1	11.4*	8.0	98
1441	4.2	12.4	9.0	105
1474	4.1	13.2	8.5	107
1508	4.0	11.9	8.1	100
1707	4.6	12.6	9.0	109
1725	4.4	11.3*	9.1	102
2150	4.2	10.9*	8.4	97*
2243	4.0	11.3*	9.0	99
2290	3.8	12.0	9.0	101
2349	4.0	12.0	8.2	100
2386	3.9	12.2	7.5*	99
2446	4.0	13.2	7.5*	104
2526	4.1	12.0	8.3	101
2584	4.5	11.9	8.5	104
3222	4.3	11.4*	10.1	104
4074	4.0	12.5	7.6*	101
4104	4.4	12.4	8.8	106
4267	4.2	12.2	8.7	104
<b>4 16 16M</b>				
1724	6.2	17.5	18.8	121
3219	4.4	15.2*	16.1	100
<b>5 10 10M</b>				
3374	4.7*	10.2	10.4	100
<b>5 10 10S</b>				
3373	4.7*	10.6	10.4	102
<b>5 10 15S</b>				
0479	5.0	9.5*	15.6	99
0705	4.8	10.0	14.5*	98
0754	5.3	10.8	13.5*(1)	102
1023	5.0	10.8	15.0 (1)	103
1049	5.4	9.7	15.0 (1)	101
1077	4.3*	11.4	15.2 (1)	102
1234	4.3*	9.9	15.8	97*
1304	5.2	10.8	15.0 (1)	104
1357	5.1	9.7	15.0	99
1388	4.8	10.8	15.0 (1)	102
1602	5.1	10.4	14.5*	101
1610	5.0	10.1	14.8	100
1657	4.9	10.3	16.0	103
1665	4.9	10.4	15.0	101
1717	5.0	9.9	15.0	100
2248	5.0	9.9	15.0	100
2292	4.6*	10.7	15.2	101
2361	5.0	9.6*	15.2	99
2448	5.0	9.6*	15.5	99
2461	5.2	10.5	15.0 (1)	103
2525	5.1	10.5	14.4*	101
3125	3.9*	14.6	14.0*	110
3217	4.8	10.6	14.2*(1)	100
3279	4.5*	9.9	16.5	100
3376	4.8	10.1	15.0	99
3393	5.0	9.8	15.0	99
3478	5.3	10.0	15.0	102
4063	5.0	9.6*	15.4	99
4069	4.8	10.5	13.6*	98
4090	4.5*	10.6	15.0	99
4103	5.0	10.0	15.0	100
4349	4.9	10.6	14.7 (1)	101
4363	4.9	9.6*	15.4	99
<b>5 10 15S WITH 00.50 HEPTACHLOR</b>				
2549	4.7*	10.8	14.0*	99
<b>5 20 20M</b>				
0480	4.5*	23.3	15.2*	100
1052	5.0	20.3	18.4*	99
1176	5.0	19.0*	19.8	97*
1302	4.2*	19.7	20.0	96*
1429	5.0	19.8	19.6	99

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<i>DAVISON CHEMICAL CORP CONTINUED</i>				
<i>5 20 20M CONTINUED</i>				
1530	4.9	20.2	20.7	101
1722	5.2	20.1	20.1	101
2149	4.8	18.5*	17.8*	92*
2362	5.1	17.8*	20.7	95*
2522	5.9	11.0*	6.1*	61*
2599	5.6	20.4	18.1*	101
2607	5.6	20.2	18.2*	101
3216	4.3*	19.4*	20.0	96*
3377	4.5*	17.9*	16.9*	88*
3476	5.4	20.1	19.7	101
3491	5.4	20.3	20.8	103
4068	5.0	19.9	19.1*	99
4185	5.0	20.6	18.8*	100
4212	4.7*	25.5	14.7*	106
<i>6 6 18S</i>				
1025	6.1	7.7	18.1 <sup>(1)</sup>	108
1190	6.2	7.2	18.4	107
1242	6.5	8.1	16.6* <sup>(1)</sup>	109
1399	5.9	7.1	17.5* <sup>(1)</sup>	103
3277	6.2	6.4	18.1	103
3526	6.0	6.6	18.1	103
<i>6 8 6M</i>				
0841	5.7*	8.4	6.1	100
1024	4.8*	7.3*	7.5	91*
1142	5.3*	8.7	8.7	105
1391	5.6*	7.7*	10.2	106
1417	4.9*	10.2	7.5	107
1440	5.3*	8.7	7.5	102
1469	5.9	9.1	7.0	107
1601	6.1	9.3	7.2	110
1688	6.4	10.1	9.8	123
3091	5.6*	10.4	7.5	113
3276	5.7*	7.3*	9.2	102
3490	6.0	10.8	6.9	116
<i>6 8 6S</i>				
1358	5.8	7.7*	6.2	98
2245	5.9	7.9	6.4	100
4362	5.7*	7.7*	7.1	99
<i>6 12 12M</i>				
0842	6.5	11.2*	12.2	100
1050	5.7*	12.1	12.4	99
1507	5.7*	12.2	11.1*	97*
1599	6.1	11.9	10.7*	98
1609	6.1	12.0	11.4*	99
2347	5.8	12.0	12.5	100
2388	5.7*	12.1	12.7	100
2523	5.9	12.0	12.2	100
2687	6.1	11.3*	12.4	99
4064	5.7*	12.2	12.8	101
4070	5.6*	12.9	11.2*	100
<i>10 10 10M</i>				
0843	10.1	9.9	10.5	101
1053	10.1	10.1	10.0	101
1076	9.9	10.5	10.4	102
1141	10.0	10.3	10.6	102
1143	9.9	10.4	10.7	102
1149	10.6	10.0	10.6	104
1418	9.8	10.7	11.5	104
1430	9.3*	10.6	10.7	100
1473	10.4	10.5	10.2	104
1533	9.6*	10.8	10.7	102
1600	8.9*	10.4	10.2	96*
1612	8.8*	10.6	10.0	96*
1716	9.3*	10.0	10.5	97*
1726	10.0	10.4	10.6	102
2148	10.0	10.1	9.7	100
2246	9.4*	10.2	9.7	97*
2387	10.0	9.9	10.2	100
2524	10.1	10.3	10.3	102
2585	10.5	9.2*	11.8	103
2602	10.0	10.0	10.3	101

(1) See Table 5 For % Potash Equivalent to Excess Muriate



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<i>DAVISON CHEMICAL CORP CONTINUED</i>				
<i>10 10 10M CONTINUED</i>				
3092	9.7	10.6	11.0	102
3124	9.0*	11.0	11.3	101
3221	10.1	10.0	11.0	102
3280	9.5*	11.8	11.1	105
3395	10.1	10.4	10.7	103
3477	9.9	10.7	9.2*	101
3493	8.9*	10.8	10.8	97*
4239	9.8	10.8	11.4	104
<i>12 12 12M</i>				
1026	12.0	12.6	12.5	102
1148	12.2	12.1	12.5	102
1400	12.0	12.7	12.0	102
1471	11.6*	12.3	12.5	100
1685	11.7	12.0	12.7	100
2486	12.0	12.8	12.5	103
3220	11.6*	11.7	12.6	98
3278	11.9	13.0	11.9	102
<i>15 15 15M</i>				
1531	14.0*	15.7	15.0	98
<i>SUPERPHOSPHATE</i>				
2151		19.0*		95*
2242		19.1*		95*
2291		17.1*		85*
2462		19.7		98
2688		19.3*		97*
4240		20.0		100
<i>46 TRIPLE SUPERPHOSPHATE</i>				
1527		46.0		100
<i>SULFATE OF POTASH</i>				
4347			50.5	101
<i>E TOWN FERTILIZER COMPANY</i>				
<i>3 12 12M</i>				
2279	3.2	13.4	12.0	108
2392	3.2	12.5	12.8	105
<i>4 12 8M</i>				
0391	4.4	12.0	8.2	103
0627	5.0	11.5*	8.5	106
2396	4.7	11.6*	9.0	105
<i>4 24 12M</i>				
2051	5.1	24.0	12.4	105
<i>5 10 10M</i>				
2281	5.4	10.4	10.7	106
<i>5 10 15S</i>				
0392	5.5	10.7	15.0	106
0628	5.5	10.6	15.0	105
2280	5.7	10.5	15.0	106
2394	5.6	10.3	15.0	105
2641	5.6	10.1	14.6*	103
<i>5 20 20M</i>				
2050	5.6	20.2	20.1	103
2395	5.5	21.3	20.7	106
<i>6 8 6M</i>				
2278	6.0	10.0	7.0	113

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<u>E TOWN FERTILIZER COMPANY CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
6 8 6S 2391	6.0	9.7	7.2	112
6 12 12M 2397	6.0	12.8	13.0	105
12 12 12M 2052	11.9	12.6	12.7	102
<u>SUPERPHOSPHATE</u>				
0460		21.0		105
2393		20.0		100
<u>FARMERS FERTILIZER COMPANY</u>				
4 12 8M 2564	4.9	11.6*	9.7	108
5 10 10M 2560	5.7	10.4	9.6*	106
5 10 15S 2565	5.9	9.5*	15.9	105
2695	5.3	11.0	15.2	106
2696	5.2	11.2	15.0	106
6 20 0 2563	6.5	19.4*		101
10 10 10M 2368	9.2*	11.5	9.3*	100
2561	10.5	11.3	10.0	107
2562	10.2	11.2	10.0	105
12 12 12M 2353	12.0	12.4	12.7	102
4368	11.9	12.5	12.2	101
<u>FEDERAL CHEMICAL COMPANY</u>				
<u>0 9 27M WITH 5 LBS BORAX PER 100</u>				
0803		8.2*	27.5	98
1085		8.7*	28.0	101
1475		10.4	23.7*	99
4353		9.3	26.5	100
<u>0 20 20M</u>				
0250		19.3*	19.5*	97*
0253		17.1*	17.1*	86*
0384		20.6	20.2	102
0647		18.8*	20.2	96*
0677		20.1	20.7	102
0710		19.9	20.0	100
1265		19.0*	19.5*	96*
1378		20.0	20.5	101
1623		19.4*	20.0	98
2544		20.0	17.2*	95*
2608		18.5*	20.7	96*
3230		20.1	20.4	101
3498		18.7*	20.6	97*
4011		20.7	19.6	102
4314		19.1*	19.0*	95*



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>FEDERAL CHEMICAL COMPANY CONTINUED</b>				
2 12 6M				
2164	3.0	11.6*	6.4	107
4209	4.3	11.3*	8.2	121
3 9 6M				
0133	3.4	9.4	6.6	108
0240	3.2	9.0	6.4	103
0385	3.6	9.0	7.3	109
0680	3.3	10.0	7.6	114
2466	3.4	9.5	6.8	109
3201	3.3	9.7	6.7	109
3 9 27M				
3121	3.5	9.0	25.5*	100
3227	4.3	8.6*	27.0	106
3 12 12M				
0386	3.2	11.1*	10.4*	94*
0648	3.4	12.1	12.5	104
0792	3.1	12.4	12.0	102
1045	3.1	11.3*	12.5	99
1121	3.4	11.7	12.2	102
1264	3.7	11.5*	12.7	104
1389	3.4	11.9	12.2	103
1408	3.2	11.9	12.2	101
1624	3.8	11.9	11.6*	104
1686	3.5	12.0	12.5	104
2014	3.2	12.0	12.1	102
2464	3.6	12.0	12.0	104
3118	3.3	12.3	12.2	104
3293	3.5	12.6	12.0	106
3459	3.3	12.0	12.0	102
4270	3.4	12.3	12.0	104
4 12 8M				
0245	4.4	11.3*	8.5	101
0292	4.4	12.1	8.2	104
0371	4.3	11.3*	8.4	100
0387	4.3	11.4*	8.7	101
0395	4.4	11.6*	8.3	102
0416	4.1	11.6*	8.7	100
0444	4.2	11.7	8.5	101
0472	4.3	11.3*	8.2	99
0500	4.7	11.5*	9.3	105
0629	4.1	12.4	9.2	105
0653	5.2	12.3	8.7	111
0678	4.1	11.9	8.2	101
0681	4.3	11.6*	9.0	103
0711	4.4	12.1	8.1	103
0728	4.5	12.0	8.9	105
0737	4.4	11.6*	8.7	103
0742	4.3	12.0	9.9	106
1007	4.5	12.0	8.8	105
1010	4.1	11.9	8.5	101
1015	4.0	12.0	8.0	100
1043	4.3	11.7	8.2	101
1060	4.3	11.6*	7.8	100
1086	4.3	11.4*	8.0	99
1088	4.2	12.0	8.9	103
1107	4.3	11.3*	8.2	99
1154	4.5	11.9	8.9	105
1156	4.2	11.5*	9.2	102
1159	4.4	11.6*	8.3	102
1319	4.2	11.5*	8.5	100
1406	4.1	12.0	8.8	103
1476	4.2	12.0	8.2	102
1479	4.3	12.3	8.0	103
1492	4.3	11.9	8.2	102
1501	4.4	12.1	8.4	104
1519	4.2	12.5	8.2	104
1571	4.5	11.9	9.1	105
1573	4.6	12.0	9.1	107
1625	4.3	11.9	9.3	105
2015	3.9	11.3*	9.8	100
2045	4.6	11.5*	9.0	104
2145	4.2	12.1	9.2	105

TABLE 1.— Analyses of Inspection Samples<sup>a</sup> of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<i>FEDERAL CHEMICAL COMPANY CONTINUED</i>				
4 12 8M CONTINUED				
2159	4.4	11.6*	8.4	102
2163	4.0	11.9	8.1	100
2277	4.1	11.9	8.7	102
2442	4.1	12.0	9.5	104
2547	4.3	12.2	8.4	104
3116	4.2	11.6*	8.4	101
3292	4.0	12.2	8.1	101
3362	4.2	12.0	8.4	102
3455	4.7	12.0	9.0	107
3458	4.2	12.0	8.7	103
3497	4.3	12.1	8.3	103
4059	4.4	11.6*	8.3	102
4123	4.2	12.6	8.2	105
4143	4.3	11.4*	8.2	100
4218	4.1	12.1	8.6	103
4316	4.2	12.1	8.8	104
4 16 16M				
0251	3.9	16.0	16.5	100
0540	4.6	14.5*	16.6	99
1046	4.5	14.8*	16.0	99
1131	4.3	16.0	16.8	103
1521	3.8	14.9*	18.2	99
2443	4.1	15.7	16.0	100
2580	4.4	14.7*	15.7	97*
3543	4.4	15.9	16.0	102
5 10 10M				
0134	5.0	10.3	10.5	102
0241	4.9	10.6	10.0	102
0243	5.1	9.6*	10.1	99
0349	5.5	10.9	10.3	108
0729	5.2	10.5	10.1	104
0847	5.4	10.0	10.7	104
1544	5.0	10.6	10.4	104
3122	5.0	10.0	9.6*	99
3289	4.6*	10.0	10.0	97*
4079	5.0	9.7	9.6*	98
5 10 15S				
0135	5.0	10.3	15.0 (1)	101
0388	5.4	10.0	15.0 (1)	102
0417	5.0	9.9	15.4	100
0464	5.0	10.7	15.0	103
0501	5.2	10.8	14.6*(1)	104
0654	5.0	10.0	14.3*	99
0738	5.1	10.4	15.0	102
0765	5.0	10.4	14.8 (1)	101
0767	5.0	9.9	15.0 (1)	100
0793	5.0	10.0	15.0	100
0801	4.9	10.2	14.8	100
0802	5.1	10.0	15.0	101
0848	5.0	10.0	15.1 (1)	100
1012	5.1	10.4	15.0	102
1039	5.1	10.4	15.0	102
1044	5.2	10.0	15.0	101
1059	5.4	10.0	15.0	102
1087	5.3	10.0	15.4	103
1089	5.3	9.7	15.4	101
1103	5.2	10.0	14.9	101
1108	5.1	11.5	15.4 (1)	107
1132	5.2	10.4	15.0	103
1157	5.3	10.2	15.0	103
1162	5.1	10.0	15.0	101
1174	5.3	10.3	14.6*(1)	102
1192	5.0	10.5	15.0	102
1231	5.2	10.1	15.0	101
1232	5.2	10.2	15.0	102
1235	5.0	10.9	14.8	101
1407	4.9	10.5	15.0	101
1480	5.1	10.5	14.7	102
1493	5.0	10.5	15.2 (1)	102
1500	4.9	10.4	15.0 (1)	101
1545	5.1	10.3	15.0	102
1569	5.2	10.1	15.2	102
2048	5.3	10.2	14.4*	101
2055	5.2	10.2	15.5	103
2223	5.3	9.9	15.0	101

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>FEDERAL CHEMICAL COMPANY CONTINUED</b>				
<b>5 10 15S CONTINUED</b>				
2273	5.1	10.3	15.0	102
2444	5.0	10.3	15.0 (1)	101
2454	5.0	10.9	15.8 (1)	105
2465	5.1	10.5	15.0	103
2624	5.0	10.5	15.0	102
3072	5.3	10.0	15.0	102
3115	5.0	10.4	15.0	102
3360	5.0	10.4	15.0	102
4014	5.3	10.1	15.0	102
4058	5.1	10.0	15.0 (1)	101
4078	5.2	10.0	15.0 (1)	101
4146	5.1	10.0	15.0	101
4208	5.0	10.0	14.6*	99
4268	5.1	10.3	15.0	102
4292	6.0	9.7	9.5*	96*
4366	4.8	10.5	14.5*(1)	100
4416	5.2	10.0	15.0	101
9743	5.1	10.0	15.2	101
<b>5 10 15S WITH 00.50 HEPTACHLOR</b>				
1163	5.0	10.0	15.0	100
2543	4.4*	11.0	13.2*	97*
4319	5.0	10.7	13.6*(1)	100
<b>5 20 20M</b>				
1233	4.9	20.0	20.0	100
1374	5.0	18.1*	20.2	95*
1580	5.2	19.6	18.2*	97*
1622	5.1	21.6	18.5*	103
2374	5.1	20.5	19.4*	101
2493	4.7*	20.5	19.1*	99
2589	5.1	20.6	18.4*	100
2601	4.7*	19.3*	20.5	98
3123	5.3	20.1	20.0	101
3226	5.0	19.4*	18.5*	96*
3295	4.7*	19.1*	19.4*	96*
3410	5.0	20.4	20.2	101
3457	5.2	17.0*	19.4*	92*
3499	5.4	19.5*	17.5*	97*
3529	5.0	17.8*	20.6	95*
3542	5.0	19.2*	19.1*	97*
4057	5.1	19.4*	18.9*	97*
4144	5.1	18.2*	19.2*	95*
4217	5.2	19.5*	20.0	99
4367	5.1	19.5*	20.0	99
<b>6 6 18S</b>				
0730	5.9	6.7	18.0	102
1014	6.0	6.8	18.1	104
1188	5.8	6.4	18.1	101
1191	5.8	7.0	18.0	103
1226	5.8	6.6	18.2	102
1318	5.7*	6.8	17.6*	101
1442	6.0	6.8	18.2	104
1659	5.9	6.4	17.4*	100
2224	6.8	7.3	16.5*(1)	107
3117	5.9	6.9	18.0	103
3296	6.0	6.5	17.9	102
9740	6.0	6.8	18.0	103
<b>6 8 6M</b>				
0242	5.5*	8.3	6.5	99
0350	5.8	7.7*	6.5	98
0389	5.3*	8.8	7.6	103
0502	5.7*	8.5	7.4	104
0672	6.0	8.1	6.3	101
0830	6.1	8.0	7.7	105
0849	5.7*	11.2*	10.6	125
1042	6.0	8.5	6.7	104
1189	5.8	9.2	6.9	107
1230	5.7*	8.1	6.5	100
1477	6.1	8.7	6.1	105
1572	6.4	8.0	6.8	105
1626	6.1	8.1	5.7*	101
2044	5.8	8.7	7.2	105
3287	6.0	9.0	6.8	107
4141	5.7*	8.2	6.4	100
7488	5.5*	10.1	7.9	112

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<i>FEDERAL CHEMICAL COMPANY CONTINUED</i>	(Percent)	(Percent)	(Percent)	
<i>6 8 6S</i>				
0136	5.8	8.5	7.5	105
0363	5.6*	9.7	6.8	108
0418	5.7*	9.0	7.0	100
1013	5.8	8.6	7.5	105
1263	5.8	7.9	7.2	101
2272	5.9	8.0	6.5	101
3202	5.8	8.6	7.5	105
3288	5.9	8.1	6.9	102
4269	5.5*	8.3	7.1	101
9741	5.8	8.7	7.8	107
<i>6 12 12M</i>				
0293	6.0	12.0	12.1	100
0503	5.9	12.5	11.1*	100
0649	6.0	12.1	12.0	100
0743	5.8	10.6*	11.8	93*
0768	5.7*	12.6	12.7	102
1048	5.9	11.6*	11.6*	97*
1155	6.1	11.8	12.7	101
1160	6.1	12.1	11.3*	100
1482	5.5*	11.5*	12.0	95*
1490	6.1	11.9	12.5	101
1502	6.0	11.9	12.5	101
1520	6.0	12.6	12.5	103
1529	5.8	12.1	12.0	99
1627	5.8	11.2*	11.4*	95*
2047	6.2	11.6*	12.0	100
2579	6.3	12.5	12.0	104
3119	6.2	12.5	12.5	104
3454	5.9	12.5	12.7	103
3460	6.2	12.5	11.8	103
4013	6.0	12.1	12.1	101
4060	6.0	12.1	11.9	100
4077	6.0	12.0	11.6*	99
4122	6.0	11.4*	12.7	99
4142	6.0	12.0	11.3*	99
4317	5.9	12.0	11.5*	99
<i>6 12 12M WITH 00.50 HEPTACHLOR</i>				
0504	6.1	12.5	11.0*	101
1373	5.8	12.4	11.0*	99
<i>6 12 18S</i>				
2225	5.9	12.1	17.8	100
<i>6 18 12M</i>				
0294	6.4	18.1	12.7	103
0850	6.5	18.0	12.2	103
1173	5.3*	21.7	11.2*	107
1375	5.1*	14.8*	12.7	87*
3228	6.1	16.8*	11.0*	95*
4315	5.7*	18.0	12.0	99
<i>6 24 24M</i>				
3539	5.3*	22.9*	26.0	97*
<i>8 8 8M</i>				
1377	7.5*	8.8	8.7	102
<i>10 10 10M</i>				
0137	8.6*	10.4	10.3	95*
0246	9.4*	10.7	10.4	100
0345	9.7	10.5	10.4	101
0372	9.5*	10.5	10.3	100
0390	10.0	10.1	10.0	100
0419	9.5*	10.5	10.8	101
0505	9.6*	10.0	11.6	101
0541	9.6*	10.0	10.7	99
0650	10.0	10.0	10.6	101
0655	9.2*	10.1	10.0	96*
0682	9.5*	10.5	10.0	99
0731	10.2	10.0	10.4	102



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<b>FEDERAL CHEMICAL COMPANY CONTINUED</b>				
<b>10 10 10M CONTINUED</b>				
0741	10.0	10.0	11.1	102
0744	8.6*	10.0	13.2	98
0769	8.9*	8.9*	16.1	101
0794	9.3*	10.5	10.7	99
0809	10.4	10.0	10.2	102
1047	9.9	10.0	10.0	100
1122	9.4*	10.1	10.4	98
1172	10.1	10.1	10.0	101
1237	9.9	10.4	10.2	102
1262	9.7	10.3	10.2	100
1281	9.5*	10.6	10.7	101
1359	9.7	10.0	9.9	98
1570	10.0	10.2	10.5	102
1589	9.8	9.8	10.4	99
1621	8.7*	10.6	10.2	96*
1656	10.1	10.0	11.2	103
2013	8.5*	10.8	10.1	95*
2041	10.1	11.4	9.7	105
2046	10.0	10.2	10.0	101
2227	9.3*	10.6	10.1	99
2276	9.1*	10.6	10.9	99
2445	10.1	10.3	10.1	102
2463	9.6*	10.1	10.4	99
2546	9.9	10.1	10.7	101
2581	9.6*	10.3	10.6	102
2609	10.1	9.9	10.9	102
2642	10.0	10.3	10.2	101
3073	9.4*	11.0	10.5	101
3120	9.1*	11.0	10.9	100
3229	10.0	10.0	10.6	101
3290	9.3*	10.4	10.1	98
3291	9.3*	10.9	10.8	101
3361	4.9*	12.1	11.0	83*
3409	9.9	10.4	10.1	101
3456	10.0	10.0	10.0	100
4012	9.6*	10.2	10.2	99
4140	10.0	10.0	10.0	100
4318	10.0	10.2	10.1	101
9742	9.2*	10.5	11.4	100
<b>12 12 12M</b>				
0252	11.2*	12.0	12.7	98
0254	11.3*	12.6	12.0	99
0506	9.6*	12.1	11.6*	90*
0766	11.3*	11.8	12.7	98
1360	9.9*	12.4	10.4*	90*
1427	10.8*	12.0	12.2	95*
1491	11.9	11.8	12.5	100
1687	10.5*	11.5*	12.5	93*
1708	11.6*	11.5*	12.2	97*
2226	10.4*	10.1*	13.5	90*
2418	11.3*	12.3	12.6	99
3224	10.9*	12.9	12.5	99
3461	11.6*	11.9	12.0	98
3541	10.4*	12.0	12.0	93*
<b>16 8 8M</b>				
3225	15.9	8.6	8.7	102
3540	15.8	8.4	8.8	101
4145	13.8*	8.8	8.2	93*
4320	14.6*	8.2	8.5	95*
<b>SUPERPHOSPHATE</b>				
0507		20.2		101
0679		19.9		100
0732		20.5		103
0739		19.6		98
1011		18.5*		93*
1120		19.0*		95*
1171		19.7		98
1376		19.9		100
1579		19.6		98
2494		20.3		102
2545		19.7		98
3294		19.3*		97*
<b>47 TRIPLE SUPERPHOSPHATE</b>				
0832		45.2*		96*
1730		43.1*		92*

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>FEDERAL CHEMICAL COMPANY CONTINUED</u>				
SULFATE OF POTASH				
0651			51.0	102
1581			48.0*	96*
MURIATE OF POTASH				
0652			60.0	100
<u>HUTSON CHEMICAL COMPANY</u>				
4 12 8M				
0822	3.9	12.0	7.5*	98
0827	3.4*	11.9	8.7	97*
1008	4.4	12.3	10.0	109
1158	3.8	12.0	10.4	104
1718	4.1	11.5*	9.0	101
4 12 8M WITH 01.00 ALDRIN				
1496	3.8	11.6*	9.7	101
5 10 15S				
0824	4.8	10.5	15.0	101
5 10 15S WITH 01.00 ALDRIN				
0756	4.6*	8.6*	15.5	93*
1497	4.8	10.0	15.0	99
5 20 20M				
2590	5.4	19.5*	20.2	101
6 6 18M				
4154	5.6*	6.2	17.6*	98
6 12 12M				
0774	4.9*	13.1	10.7*	96*
0825	6.2	12.0	12.2	101
1161	5.5*	12.3	12.5	99
1503	6.1	12.0	12.7	102
1719	5.7*	12.3	11.6*	99
12 12 12M				
0750	11.9	12.4	12.6	102
1644	11.9	12.5	12.0	101
SULFATE OF POTASH				
1371			51.0 <sup>(1)</sup>	102
1731			51.0	102
<u>INTERNATIONAL MINERALS &amp; CHEM CORP</u>				
0 20 20M				
0335		19.1*	20.2	97*
2258		18.2*	18.7*	92*
3371		19.0*	19.6	96*
3525		20.0	20.0	100
2 12 6M				
2097	2.7	12.8	8.9	118
2161	2.2	12.0	6.6	103
2260	2.6	12.1	8.9	114

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<i>INTERNATIONAL MIN &amp; CHEM CONTINUED</i>				
3 9 6M				
0125	3.1	9.0	6.2	102
2259	2.8	9.0	6.2	99
4116	4.0	10.5	10.2	122
3 9 18M WITH 5 LB BORAX PER 100				
2556	3.4	9.9	17.1*	105
3 12 12M				
0168	3.0	12.0	12.8	102
1554	3.1	12.8	12.5	105
2061	3.2	12.2	12.5	103
2101	3.2	11.7	12.9	102
2476	2.9	11.6*	12.6	99
3062	3.0	11.3*	12.7	98
3309	3.0	12.3	12.1	102
3369	2.8	11.7	13.4	100
4173	3.2	12.2	13.2	105
4235	3.0	12.3	13.2	104
4248	3.1	12.5	12.7	104
3 12 12M WITH 5 LB BORAX PER 100				
2256	3.0	11.4*	12.6	99
3 12 12M WITH 00.33 ALDRIN				
4282	4.3	12.8	11.0*	110
4 12 8M				
0126	4.6	12.0	8.5	105
0209	3.9	11.7	9.2	101
0656	4.2	12.0	8.2	102
1348	4.2	11.9	8.4	102
1481	4.2	11.9	8.0	101
1631	4.4	12.5	8.1	105
2102	4.0	12.1	8.0	100
2146	4.3	12.2	8.2	103
2160	4.1	11.8	8.0	100
2477	4.0	12.0	8.5	101
2502	3.7*	12.4	6.8*	97*
2554	4.1	12.3	7.8	102
3094	3.9	11.6*	8.9	100
3248	3.7*	12.0	8.1	98
4024	3.9	12.3	8.4	102
4148	4.2	11.7	8.0	100
4247	4.7	12.5	14.0	121
4 12 8S				
0210	4.4	10.5*	9.7	99
1297	4.6	12.2	10.4 (1)	110
3066	4.0	12.0	8.5	101
3097	4.4	10.1*	9.5	98
3231	3.2*	12.2	9.7	99
3368	4.0	12.3	10.1 (1)	106
4.75 19 19M WITH 5 LBS BORAX				
4274	5.6	15.3*	16.4*	90*
5 10 5M				
0127	4.8	10.0	5.2	99
5 10 10M				
0128	5.0	10.2	10.0	101
0132	5.1	10.2	9.8	101
0336	4.9	10.0	10.0	99
0431	3.7*	11.0	11.6	99
0595	5.0	10.1	10.3	101
2074	5.2	10.3	10.2	103
2257	4.5*	10.0	10.1	97*
2473	3.7*	10.8	8.7*	92*
3048	5.0	10.3	10.5	102
3061	5.1	10.1	10.9	103

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<i>INTERNATIONAL MIN &amp; CHEM CONTINUED</i>	(Percent)	(Percent)	(Percent)	
<i>5 10 10M CONTINUED</i>				
3098	4.9	10.0	9.6*	98
3370	3.9*	11.0	10.8	99
<i>5 10 10 6S 4M</i>				
0129	5.0	10.0	10.6	101
<i>5 10 15S</i>				
0169	5.0	10.4	15.0	102
0432	5.2	10.3	15.4	103
0657	5.1	10.0	15.0	101
1102	6.1	9.5*	15.0	105
1249	5.5	9.8	15.0	102
1279	5.5	10.2	15.0	104
1295	5.6	10.3	15.5	106
1483	5.1	10.0	15.0	101
1556	4.4*	9.4*	19.6	103
1630	4.7*	10.2	15.0	99
2062	4.8	9.3*	15.0	96*
2066	5.0	9.9	15.0	100
2098	4.8	10.6	14.7 (1)	101
2157	4.9	10.0	15.0	99
2475	5.7	9.9	14.8	103
2555	5.7	10.0	14.7 (1)	104
3049	5.5	9.9	15.0	103
3067	5.9	10.0	14.9	105
3093	5.1	9.9	15.0	100
3102	6.1	9.8	14.9	106
3246	5.4	10.3	15.0	104
4023	5.0	10.2	15.0	101
4102	4.9	10.0	15.0	99
4163	5.0	9.8	15.0	99
4174	5.0	10.3	15.0	101
4273	5.0	10.0	15.0	100
<i>5 10 15 12S 3M</i>				
0219	5.1	9.1*	15.2 (1)	97*
0260	5.2	8.7*	15.4	97*
1366	4.7*	9.9	15.0	98
1603	5.2	10.0	15.0	101
3046	5.9	10.1	14.8 (1)	105
3064	5.2	9.4*	15.0	99
3095	5.1	9.1*	15.2	97*
3365	5.9	10.0	15.0	105
4182	4.5*	10.3	15.0 (1)	98
4278	4.9	10.3	15.0	101
<i>5 20 20M</i>				
0170	5.0	20.0	20.1	100
0658	4.8	20.2	19.8	99
2063	5.2	19.8	21.1	102
2073	5.2	19.4*	20.7	100
2506	5.1	19.5*	20.0	99
2636	5.4	20.8	19.4*	103
3367	5.3	20.4	19.6	102
4022	4.9	19.3*	19.9	98
4175	4.9	19.9	20.4	100
4272	5.1	18.9*	20.5	98
<i>6 6 18S</i>				
1296	6.0	6.4	17.7	101
2071	5.6*	6.6	18.2	100
2072	6.1	6.6	17.5*	102
3096	5.8	6.7	19.1	104
3103	5.9	6.4	18.1	101
3298	6.1	6.4	19.9	106
<i>6 8 6M</i>				
1349	5.7*	8.6	7.1	104
1605	6.0	8.1	6.0	101
<i>6 8 6S</i>				
0429	6.1	10.5	10.8 (1)	125
1250	6.7	9.2	7.0	114
2064	7.8	9.3	9.2	128

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<i>INTERNATIONAL MIN &amp; CHEM CONTINUED</i>				
<i>6 8 6S CONTINUED</i>				
2637	6.3	8.7	6.5	107
3063	7.1	8.3	8.4	116
3099	7.2	8.6	9.2	120
3247	6.8	7.9	10.0	116
3364	6.0	8.1	6.5	102
<i>6 12 12M</i>				
0083	6.1	11.3*	12.6	99
0488	6.2	11.2*	11.9	98
1364	6.2	11.2*	12.7	99
1484	5.8	12.0	12.3	99
1720	6.0	11.7	12.3	99
2043	6.2	11.4*	12.7	100
2158	6.2	11.6*	12.0	100
2558	5.9	12.2	12.2	101
4101	5.8	12.1	11.3*	98
4162	6.3	11.9	12.7	103
4164	6.1	11.9	12.5	101
<i>6 18 12M</i>				
0084	6.1	18.0	12.7	102
0751	6.4	17.2*	13.0	101
0862	6.4	17.9	12.5	102
1365	6.3	17.2*	13.0	100
2038	5.7*	17.9	12.8	100
2582	6.3	16.7*	12.5	97*
4147	6.1	17.9	12.4	101
4280	5.5*	17.4*	12.6	97*
<i>10 10 10M</i>				
0130	9.4*	10.9	9.6*	99
0171	9.4*	10.6	10.0	99
0220	10.4	9.6*	10.7	102
0261	10.0	9.7	10.4	100
0489	10.3	10.1	10.2	102
0659	10.5	10.0	10.2	103
0856	9.6*	10.5	9.8	99
1553	10.0	10.2	10.6	102
1604	10.1	10.2	10.4	102
1628	9.5*	10.8	9.6*	100
2060	10.0	10.0	10.8	101
2162	10.0	10.3	10.0	101
2474	9.9	10.4	10.0	101
2557	9.2*	10.5	10.5	99
2583	10.1	10.1	10.2	101
3047	9.4*	11.0	10.4	101
3065	10.0	9.9	10.2	100
3100	10.0	10.1	10.0	100
3101	10.1	9.4*	10.6	100
3104	10.1	9.7	10.3	100
3366	9.3*	10.5	10.4	99
4149	9.7	10.3	10.0	100
4165	10.0	10.3	10.0	101
<i>10 10 10M WITH 00.50 ALDRIN</i>				
0490	9.9	10.1	10.4	101
<i>12 12 12M</i>				
0430	11.2*	12.2	12.5	98
2501	11.5*	12.0	12.2	98
4281	11.6*	12.0	12.5	99
<i>SUPERPHOSPHATE</i>				
0487		18.2*		91*
1278		20.2		101
1294		20.1		100
1350		20.5		103
1555		20.5		103
2059		20.0		100
2498		20.3		102
<i>46 TRIPLE SUPERPHOSPHATE</i>				
1629		46.4		101

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found	
	(Percent)	(Percent)	(Percent)		
<i>INTERNATIONAL MIN &amp; CHEM CONTINUED</i>					
<i>SULFATE OF POTASH MAGNESIA</i>					
0025			21.2	101	
2235			24.5	117	
2424			22.0	105	
3129			21.9	104	
<i>SULFATE OF POTASH</i>					
0302			50.2	100	
0534			50.5	101	
2018			49.7	99	
3023			52.0	104	
3286			51.5	103	
4052			50.5	101	
4263			50.2	100	
<i>MURIATE OF POTASH</i>					
0026			60.0	100	
0070			60.0	100	
0857			60.0	100	
1351			60.0	100	
2222			60.0	100	
3024			60.0	100	
4264			60.0	100	
<i>KENTUCKY FERTILIZER WORKS</i>					
0 20 20M 0520			19.4*	20.5	99
3 9 6M 0521	3.3	8.6*	7.0	103	
0565	3.5	9.0	6.8	107	
0609	3.2	8.5*	6.4	100	
0723	3.8	9.0	7.5	112	
0783	3.7	8.9	7.2	109	
3 12 12M 0522	3.2	11.9	13.5	104	
4 12 8M 0211	4.1	11.9	8.2	101	
0255	4.2	11.7	8.2	100	
0306	4.7	11.5*	8.5	104	
0410	4.3	11.1*	8.1	98	
0449	4.2	11.5*	8.7	101	
0523	4.0	12.1	8.0	100	
4 16 16M 0524	4.0	15.7	15.6*	98	
5 10 5M 0525	4.9	10.0	5.6	101	
5 10 10M 0411	4.8	10.3	9.7	99	
0526	5.3	10.0	10.1	102	
0610	5.0	10.1	10.1	101	
5 10 15S 0062	5.0	10.0	15.0	100	
0212	5.0	10.6	15.0	102	
0256	5.1	10.4	15.0	102	
0420	5.0	10.1	15.0	100	
0450	5.1	10.3	15.0	102	
0527	4.9	9.9	15.2	99	
0533	5.0	10.0	15.2	100	
0566	5.1	10.0	15.0	101	
0785	5.1	9.3*	15.6	99	



TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<i>KENTUCKY FERTILIZER WORKS CONTINUED</i>	(Percent)	(Percent)	(Percent)	
<i>5 10 15S CONTINUED</i>				
0786	4.8	9.6*	17.4	102
2306	5.1	10.2	15.0	101
2667	5.1	9.7	15.0	99
<i>6 6 18S</i>				
0063	6.1	6.9	17.8	104
0528	6.0	6.4	18.6	103
0567	6.2	6.4	18.2	103
0787	6.0	6.2	18.7	102
0788	6.2	6.1	18.5	103
0789	6.1	6.3	18.4	103
2420	6.4	6.5	18.0	105
2679	6.1	6.4	18.6	104
<i>6 8 6M</i>				
0307	6.3	7.8	7.7	106
0529	5.5*	8.1	6.6	98
0568	5.4*	8.1	6.4	100
0611	6.3	7.4*	7.3	103
0784	5.9	8.0	6.0	99
2308	6.4	6.9*	7.5	101
<i>6 8 6S</i>				
0064	6.0	8.4	6.3	103
0213	6.0	8.0	6.2	101
0308	6.1	8.0	6.3	102
0412	6.0	8.4	6.2	103
0451	5.9	8.2	6.4	101
0530	6.0	8.0	6.5	101
0569	5.8	8.2	6.5	101
2307	6.1	8.2	6.3	103
<i>6 12 12M</i>				
0257	5.5*	12.0	13.0	99
0531	6.0	12.2	12.1	101
<i>10 10 10M</i>				
0065	10.1	10.2	9.7	101
0258	9.9	10.7	10.0	102
0532	9.8	10.5	10.0	101
0795	10.0	10.0	10.2	100
2196	9.6*	10.1	10.6	99
2421	10.1	10.3	10.0	102
<i>12 12 12M</i>				
0259	12.1	12.4	12.6	102
<i>SUPERPHOSPHATE</i>				
0409		19.1*		95*
0518		19.0*		95*
2195		18.7*		93*
<i>46 TRIPLE SUPERPHOSPHATE</i>				
0339		40.7*		88*
0564		46.0		100
<i>SULFATE OF POTASH</i>				
0413			47.9*	96*
0519			51.0	102
2309			50.5	101
<i>*MURIATE OF POTASH</i>				
0612			60.0	100
<i>KNOXVILLE DIV AMERICAN AGRI CHEM CO</i>				
<i>0 20 20M</i>				
0221		18.5*	20.4	96*

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<i>KNOXVILLE DIV AMER AGRI CONTINUED</i>	(Percent)	(Percent)	(Percent)	
<i>0 20 20M CONTINUED</i>				
0236		16.8*	20.1	90*
0310		18.0*	18.9*	92*
0320		17.6*	20.0	92*
0581		19.1*	20.5	98
0867		16.1*	15.0*	79*
2697		19.3*	20.7	99
4293		19.3*	20.7	99
<i>0 20 20M WITH 5 LB BORAX PER 100</i>				
2316		19.5*	18.9*	97*
<i>0 30 30M</i>				
4284		30.0	30.0	100
<i>3 9 6M</i>				
0222	2.9	9.6	6.2	103
0237	3.3	9.5	6.7	108
0311	3.1	8.7*	6.5	101
0433	3.2	9.2	6.9	106
0556	3.2	9.7	6.8	108
2215	3.4	11.0	9.0	125
3349	3.3	9.7	7.5	112
4119	3.3	9.7	7.0	110
4124	3.5	10.2	8.0	118
4179	3.6	10.6	8.5	123
<i>3 9 6S</i>				
0161	3.4	9.0	6.3	105
0644	3.5	9.8	6.4	111
4055	3.4	10.2	6.8 (1)	113
4176	3.3	8.7*	6.6	103
4276	2.9	10.8	6.2 (1)	108
4359	3.2	10.0	6.1 (1)	108
<i>3 9 6 4S 2M</i>				
0100	3.1	9.5	7.0	107
<i>3 9 18M WITH 5 LB BORAX PER 100</i>				
2218	3.1	9.0	19.4	104
<i>3 12 12M</i>				
0101	3.1	12.3	12.7	104
0811	3.2	11.9	12.0	101
2314	3.3	12.3	12.5	104
4180	3.3	12.5	12.4	105
4234	3.2	12.9	12.5	106
4275	3.0	12.6	12.7	104
<i>4 12 4M</i>				
0181	4.3	11.3*	10.0	114
0557	4.4	12.5	4.7	107
<i>4 12 8M</i>				
0162	4.3	11.7	8.5	102
0312	4.4	11.6*	8.9	103
0552	4.3	12.0	8.9	104
0582	4.2	12.0	8.8	103
0707	4.3	11.7	8.8	103
0868	3.9	11.4*	8.0	97*
1511	4.1	12.2	8.4	103
1727	4.0	12.1	9.4	104
2219	4.3	11.8	9.0	103
2315	4.3	12.0	9.3	105
2357	5.0	12.0	8.0	107
2625	4.2	10.7*	9.6	99
2663	4.2	12.6	8.5	105
3354	4.3	12.0	8.6	103
4117	4.2	11.8	8.7	102
4178	4.4	11.7	8.5	103
4358	4.1	12.0	8.0	101

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<i>KNOXVILLE DIV AMER AGRI CONTINUED</i>				
4 12 8S 2559	4.1	11.9	8.4	101
4054	3.9	11.0*	8.9	97*
4083	3.9	11.3*	8.6 (1)	98
4 12 8M WITH 00.37 DIELDRIN 0182	4.5	11.5*	9.3	104
4 12 8 5S 3M 2691	4.1	12.3	8.9 (1)	104
5 10 5M 0313	5.1	9.9	6.0	103
0322	5.2	9.6*	5.5	101
0333	5.1	9.9	5.5	102
0340	5.2	10.0	5.6	103
2356	5.0	10.1	5.4	101
5 10 10M 0223	5.2	10.0	10.4	102
0238	5.1	10.0	10.6	102
0315	5.0	10.0	10.6	101
0434	5.0	9.6*	10.8	100
3353	5.1	10.2	10.4	102
3382	4.8	10.9	10.7	104
4127	4.8	10.8	10.7	104
4394	4.9	10.0	10.1	100
5 10 15S 0102	4.4*	10.9	13.3*(1)	97*
0163	5.3	9.5*	15.5	101
0356	5.2	10.0	15.8	103
0542	5.1	9.9	15.2	101
0554	5.1	9.9	15.0	100
0583	5.0	10.0	15.2	100
0708	5.1	10.0	15.2	101
0726	5.0	9.9	15.9	101
0758	4.8	10.4	14.2*	99
0806	4.7*	10.0	13.9*	96*
1405	5.0	9.7	15.2	99
1514	4.5*	10.0	13.6*(1)	94*
1666	5.0	10.0	15.0	100
1729	5.2	10.3	15.0	102
2212	5.2	10.0	15.9	103
2240	5.2	9.9	15.4	102
2312	5.4	9.9	15.9	104
2313	5.2	9.6*	15.9	101
2340	4.7*	11.1	13.4*(1)	100
2533	5.0	10.2	14.4*(1)	100
2664	5.1	10.3	15.0	102
3352	5.2	10.0	15.0	101
3433	5.3	9.7	15.5	102
4005	4.8	11.1	14.9	103
4056	4.6*	10.3	13.8*(1)	96*
4177	5.4	9.5*	15.5	101
4393	5.1	10.0	15.0	101
4411	5.2	10.0	15.0	101
4417	5.1	9.9	15.0	100
5 10 15S WITH 00.15 ALDRIN 4166	5.3	9.8	15.0	101
5 10 15S WITH 00.50 ALDRIN 2411	4.9	10.0	14.5*	98
5 20 20M 0752	4.9	18.8*	18.1*	94*
1403	5.0	18.2*	19.8	95*
1728	4.7*	16.5*	16.0*	84*
4233	5.0	19.5*	20.0	99
6 6 18M 1130	5.8	6.6	19.4	104
1133	5.7*	6.5	18.1	100
1404	4.3*	6.7	17.4*	91*
2311	5.0*	7.0	18.1	98

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<i>KNOXVILLE DIV AMER AGRI CONTINUED</i>	(Percent)	(Percent)	(Percent)	
6 6 18S				
1447	6.0	6.3	18.4	102
1667	6.2	6.4	18.0	103
2213	5.8	6.4	18.1	101
2238	6.0	6.3	18.4	102
3434	6.1	6.2	18.0	101
6 6 18S WITH 00.15 ALDRIN				
2423	5.9	6.5	17.4*	100
2677	6.1	6.3	18.0	102
6 8 6M				
0224	6.4	8.1	6.5	105
0727	6.2	8.3	6.8	105
0812	6.0	8.5	6.1	103
1669	5.9	8.3	6.4	102
2217	6.1	8.4	6.5	104
2422	6.2	8.2	6.7	104
3350	5.4*	9.3	7.1	105
3431	6.3	8.5	6.6	106
6 8 6S				
0183	6.5	7.9	6.5	105
0225	6.2	8.0	6.7	103
0543	6.4	7.8	6.4	103
0555	6.2	7.9	6.3	101
0618	6.3	8.0	6.4	103
1220	6.4	8.2	6.4	105
1668	5.9	8.2	6.1	101
2216	6.1	7.9	6.9	103
2237	6.4	7.7*	6.5	103
2439	6.3	7.9	6.2	102
3351	6.3	8.0	6.5	104
3432	6.1	8.0	7.5	105
4392	6.2	8.2	6.3	103
6 12 12M				
0645	6.0	11.9	12.2	100
0715	6.1	11.6*	12.1	99
1513	6.0	12.2	12.5	102
4409	6.0	12.0	12.0	100
10 5 20M				
2410	10.1	5.2	19.9	101
10 6 4M				
1219	9.7	6.6	5.0	103
10 6 4M WITH 00.37 DIELDRIN				
0164	9.5*	6.1	4.7	99
10 10 10M				
0314	10.3	10.2	10.6	103
0321	10.4	10.1	10.4	103
0709	9.7	10.1	11.1	101
0828	9.5*	10.5	10.2	100
1221	10.1	9.7	11.0	103
1512	9.7	10.8	10.1	101
2214	9.9	10.3	10.4	101
2241	10.5	9.9	10.6	103
2358	9.3*	10.3	10.0	98
2440	10.0	10.7	10.2	103
3430	9.8	10.5	10.7	102
4181	10.3	9.6*	10.2	101
4396	9.6*	10.6	9.7	100
4410	9.9	10.1	10.1	100
12 12 12M				
0165	12.0	12.4	12.5	102



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>KNOXVILLE DIV AMER AGRI CONTINUED</u>				
<i>SUPERPHOSPHATE</i>				
0103		21.0		105
0160		20.8		104
0584		20.2		101
0590		20.0		100
2239		19.6		98
2317		20.6		103
2532		18.7*		93*
2662		20.6		103
48 TRIPLE SUPERPHOSPHATE 0591		47.2*		98
CALCIUM METAPHOSPHATE 0499		64.0		101
SULFATE OF POTASH 1445 3355			50.0 51.5	100 103
MURIATE OF POTASH 0592 1446			60.0 60.0	100 100
<u>LAND O NAN WAREHOUSE</u>				
0 20 20M 2593		23.3	19.7	111
0 20 40M 2400		21.2	40.6	104
3 12 12M 2594	2.7*	20.1	12.7	136
5 20 20M 2592	5.0	18.6*	20.7	97*
6 8 6M 2597	6.0	9.0	8.7	112
10 10 10M 2596	9.6*	14.1	10.0	112
10 20 20M 2595	9.6*	20.5	21.0	101
10 30 20M 2370	9.4*	30.4	19.6	99
<u>LOUISVILLE FERTILIZER COMPANY</u>				
4 12 8M 1062 1641	4.4 4.1	12.0 11.6*	8.1 8.1	103 99
5 10 15S 1353 1642	5.1 4.7*	10.1 10.1	15.2 15.0	101 99

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>LOUISVILLE FERTILIZER CO CONTINUED</u>				
5 10 15S WITH 0015 ALDRIN 0278	5.0	10.3	15.4	102
6 8 6M 0279	5.9	8.4	6.8	103
1354	5.9	8.6	7.2	105
1640	5.7*	8.1	6.2	99
1655	5.7*	8.3	6.4	100
6 12 12M 0276	6.1	11.3*	13.5	101
1654	6.0	11.9	12.0	100
6 12 12M WITH 0025 HEPTACHLOR 0277	6.0	11.2*	13.5	100
10 10 10M 1061	9.9	10.4	10.5	102
SUPERPHOSPHATE 0275		19.9		100
<u>MISSISSIPPI CHEMICAL CORPORATION</u>				
AMMONIUM NITRATE 0010	34.0			101
0114	34.0			102
2172	33.8			101
3172	33.9			101
3325	33.9			101
4131	34.0			101
7499	34.0			101
<u>MISSISSIPPI RIVER CHEMICAL COMPANY</u>				
AMMONIUM NITRATE 0071	33.9			101
<u>MISSOURI PLANT FOOD COMPANY INC</u>				
0 25 25M 0759		23.4*	30.0	102
3 12 12M 0494	3.2	11.8	12.2	101
0760	3.2	11.4*	12.7	100
5 10 15S 0495	4.9	9.9	15.0 (1)	99
0839	4.9	9.3*	15.0	97*
6 24 24M 0496	5.8	24.1	24.5	100
0761	6.5	22.8*	26.0	101
12 12 12M 0493	12.1	12.0	12.1	101
0762	11.7	11.6*	12.6	98

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>MISSOURI PLANT FOOD CO INC CONTINUED</u>				
15 15 15M 0497	15.0	15.2	15.0	100
<u>MONSANTO CHEMICAL COMPANY</u>				
<u>AMMONIUM NITRATE</u>				
0001	34.1			102
0214	33.6			100
3348	33.9			101
<u>NORTH AMERICAN FERTILIZER COMPANY</u>				
0 20 20M 0821 1095 2698		20.8 20.6 19.4*	19.1* 20.0 20.2	101 102 98
2 12 6M 0820 2268	2.5 2.4	12.0 10.8*	6.7 11.9	106 113
3 9 6M 1151 2100	3.6 3.5	9.1 9.1	7.5 7.1	111 108
3 12 12M 0576 1093 1658 2511 2577 3343 4378	3.4 3.2 3.2 3.0 3.4 2.7* 3.1	12.0 12.0 11.3* 12.5 11.5* 11.6* 12.0	12.5 12.0 12.5 12.7 12.4 12.0 12.5	104 101 99 104 100 96* 102
3 12 12M WITH 5 LB BORAX PER 100 1310	3.0	11.1*	12.0	96*
4 8 12S 0775 3126	4.0 4.5	8.9 8.8	11.6* 12.0 <sup>(1)</sup>	104 108
4 12 8M 0203 0262 0508 0630 0673 0776 0814 1127 1285 1673 2086 2495 2660 4082 4089	4.1 4.1 3.9 4.0 3.9 3.9 3.8 4.0 4.4 3.7* 4.3 4.2 3.8 4.3 4.0	11.5* 11.7 12.3 12.0 12.3 11.7 11.9 11.6* 11.6* 11.1* 11.5* 12.4 12.0 11.4* 12.4	8.3 8.4 8.2 8.7 8.4 8.1 8.5 8.8 9.0 8.2 9.2 8.4 8.0 8.7 8.0	99 100 101 102 102 98 99 100 103 94* 103 104 99 101 102
5 10 10M 0092 0204 0674 1301 4379	5.0 5.1 5.1 5.0 5.1	9.7 10.1 10.0 10.1 11.0	10.2 10.0 10.8 10.2 10.0	99 101 102 101 105

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<i>NORTH AMERICAN FERT CO CONTINUED</i>				
5 10 15S				
0093	5.2	10.1	15.8	103
0205	4.9	10.4	15.0	101
0509	5.1	10.0	15.9	102
0675	5.0	10.5	15.5	103
1084	5.2	10.0	15.2	102
1092	5.1	10.1	15.0	101
1126	5.2	10.0	15.2	102
1146	5.3	9.7	15.0	101
1238	5.0	10.5	15.0	102
1274	5.0	10.1	15.5	101
1277	5.2	10.0	15.0	101
1286	5.1	10.0	15.4	101
1323	5.0	10.0	15.0	100
2270	5.2	11.8	15.0	108
2512	5.1	10.1	15.5	102
2661	5.1	10.0	15.4	101
3342	5.0	10.3	15.2	102
4081	5.2	10.1	15.0	102
4380	5.0	10.0	15.5	101
4395	5.1	10.3	15.0	102
5 20 20M				
0206	5.0	20.1	20.0	100
1209	5.1	19.4*	20.4	99
2087	5.0	19.9	20.0	100
2451	5.0	19.9	19.7	99
2497	5.0	20.0	19.9	100
4370	5.0	20.7	20.0	102
6 6 18S				
1094	6.0	7.1	17.8 (1)	104
1243	6.0	6.5	17.8	101
1309	5.7*	7.0	17.4 (1)	101
1322	6.1	6.0	18.1	101
4384	6.0	7.0	18.1	104
6 8 6M				
0094	5.8	8.5	7.5	105
1128	5.9	9.1	6.6	106
1150	6.0	8.1	6.4	102
1152	6.0	8.7	7.0	106
1261	5.6*	8.4	6.6	101
1415	6.0	8.5	6.4	104
1419	6.0	8.1	6.6	102
1549	6.1	7.9	6.5	102
2266	6.0	8.0	6.4	101
2452	5.8	8.0	6.5	100
2578	5.8	8.1	6.2	100
4300	5.9	8.5	6.1	102
6 8 6S				
0207	6.1	8.3	6.3	103
1147	6.0	8.4	6.6 (1)	104
1275	6.0	9.0	6.7	108
1672	5.9	8.0	6.9	102
2099	6.3	8.2	6.4	107
2267	6.2	7.9	6.4	102
4109	6.0	8.3	6.2	102
6 12 12M				
1145	6.1	11.7	12.6	101
4080	6.0	11.7	12.5	100
10 10 10M				
0577	9.9	10.5	10.2	102
0676	10.0	10.4	10.6	102
0815	10.1	10.0	10.2	101
1129	10.2	10.2	10.4	102
1153	9.9	10.3	10.2	101
1311	10.0	10.3	10.2	101
1321	10.1	10.2	10.3	102
1324	9.9	10.1	10.4	101
1416	10.2	10.3	10.2	102
1420	9.9	10.4	10.1	101

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>NORTH AMERICAN FERT CO CONTINUED</u>				
10 10 10M CONTINUED				
1472	10.1	10.3	10.4	102
1478	10.0	10.5	10.2	102
1563	10.0	10.5	10.4	102
2453	10.0	10.2	10.2	101
2496	10.1	10.5	10.6	103
12 12 12M				
0683	12.0	12.6	12.0	102
1070	12.0	12.4	12.5	102
SUPERPHOSPHATE				
1210		20.0		100
1276		20.4		102
2513		20.0		100
4371		20.3		102
SULFATE OF POTASH				
1674			50.0	100
<u>OHIO VALLEY FERTILIZER CORP</u>				
3 9 18M				
3334	3.5	9.7	16.9*	104
4 12 8M				
0700	3.8	12.0	8.9	101
3206	4.1	11.6*	9.4	102
3335	3.3*	12.2	8.5	97*
5 10 10M				
3211	5.0	10.0	10.0	100
3331	4.9	9.7	10.6	99
3390	4.8	10.0	10.0	99
5 10 15S				
0699	4.5*	10.5	15.0	99
3130	5.0	9.8	15.0	99
3199	4.9	9.3*	14.0*	95*
3330	5.1	10.1	14.9	101
3344	4.9	10.4	15.0	101
3389	4.5*	10.0	15.0	97*
5 10 20S				
3329	4.7*	10.6	18.6*	98
5 20 20M				
3333	4.7*	17.2*	17.2*	88*
6 6 18M				
3441	6.3	7.0	18.0	106
6 6 18S				
3137	6.0	6.3	18.1	101
3332	5.9	7.1	17.2*	102
6 8 6S				
0698	5.5*	8.0	6.6	98
3131	5.6*	8.4	6.6	101
3200	5.7*	8.3	6.4	100
10 10 10M				
3136	9.5*	9.8	10.2	97*
3442	10.0	10.0	10.0	100

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>OHIO VALLEY FERT CORP CONTINUED</u>				
12 12 12M 3207	11.7	13.0	12.6	102
<u>OLIN MATHIESON CHEMICAL CORPORATION</u>				
10 20 20M 1539	10.0	20.3	20.5	101
NITRATE OF SODA 1168	16.3			102
<u>PHILLIPS PETROLEUM COMPANY</u>				
AMMONIUM NITRATE 0167	33.7			101
<u>PRICE CHEMICAL COMPANY</u>				
0 20 20M 0364 1412		19.7 20.3	19.6 20.2	98 101
2 12 6M 0145 0196 1266 2449	2.4 2.5 2.3 2.6	12.1 11.2* 12.0 11.6*	7.0 6.9 6.5 7.5	107 102 104 107
3 12 12M 0197 1414 1703 2634 4045	3.2 3.1 3.5 3.0 3.3	12.6 12.1 12.2 12.0 12.2	12.7 12.7 12.3 13.2 12.5	106 103 105 103 104
4 12 8M 0040 0041 0202 0264 0396 1123 1140 1424 1695 2293 2515 2623 2692 4046 4066	4.0 4.0 4.3 3.6* 4.2 3.9 4.0 3.9 3.8 4.1 3.9 4.0 3.7* 4.1 4.1	12.0 12.1 11.8 11.9 12.6 11.7 11.9 12.2 10.2* 11.6* 12.0 11.6* 11.9 12.1 11.7	9.8 8.9 9.4 11.5 9.2 10.0 9.3 9.2 15.8 8.9 9.2 9.2 11.1 9.7 9.2	104 103 104 105 107 103 103 103 108 101 102 101 105 105 102
4 16 16M 1423	4.0	15.6*	17.5	101
5 10 10M 1267 1316 1426 1702 4047 4067	5.1 5.6 5.3 5.0 5.2 5.2	9.9 10.0 10.4 10.4 10.3 10.0	12.0 10.4 10.4 10.2 10.8 11.3	105 105 105 102 104 104



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<i>PRICE CHEMICAL COMPANY CONTINUED</i>				
5 10 15S				
0042	5.0	10.0	15.4	101
0198	5.1	10.0	15.8	102
0265	5.1	9.7	17.3	104
0369	5.0	10.4	15.2	102
0393	5.2	10.0	15.0	101
0461	5.1	10.0	15.9	102
1139	5.3	9.4*	17.5	104
1312	5.0	10.2	16.1	103
1314	5.0	10.3	15.5	102
1421	4.9	10.4	15.5	102
1693	5.3	10.6	15.0	104
1705	5.0	10.4	14.3*	100
2417	5.0	9.9	15.5	101
2450	4.9	9.9	16.7	102
2516	5.2	10.0	15.5	102
2633	5.0	9.5*	16.1	100
3009	5.3	10.0	16.0	104
4048	5.0	10.1	16.6	104
4065	5.1	9.9	17.6	105
4399	5.0	9.7	17.7	104
5 20 20M				
0462	5.0	19.9	20.0	100
1413	4.5*	19.4*	21.6	99
2413	5.1	20.1	19.8	100
6 6 18S				
0199	6.4	6.5	18.1	105
1704	5.9	8.4	15.7*	105
6 8 6S				
0043	6.0	8.4	6.1	102
0146	6.1	8.8	6.4	106
0200	6.1	8.4	6.4	104
0394	6.1	8.2	7.5	106
1079	6.1	8.4	6.2	103
1269	6.2	8.5	6.3	105
1425	6.0	8.4	7.7	106
1694	6.0	8.7	6.2	104
1706	5.9	9.2	5.8	105
2294	6.1	8.8	6.2	105
2518	6.0	7.9	7.4	103
3008	6.2	8.6	6.5	106
6 24 24M				
0365	6.4	24.7	25.0	104
0366	6.4	24.7	24.2	103
0660	6.4	24.3	24.2	102
10 10 10M				
0044	10.1	10.0	11.2	103
0201	10.0	10.5	10.4	102
0370	9.9	9.9	11.0	101
0631	8.7*	10.7	11.2	98
1268	9.9	10.5	10.4	102
1313	9.8	10.0	13.1	104
1411	9.8	9.7	11.6	101
1422	10.0	10.0	10.4	101
1692	9.3*	10.0	12.3	100
2635	9.7	9.9	12.0	102
12 12 12M				
0367	11.9	12.9	12.0	102
<i>SUPERPHOSPHATE</i>				
0368		20.3		102
0415		20.0		100
1315		20.2		101
2029		18.4*		92*
2517		20.7		103
<i>SULFATE OF POTASH</i>				
0414			57.5	103

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>RA PID GRO CORPORATION</u>				
23 21 17M 1713	23.8	20.0*	16.4*	100
<u>ROBIN JONES PHOSPHATE COMPANY</u>				
0 18 12 4309 4820		17.9 18.6	12.1 11.6*	100 101
5 20 0 4310	5.3	20.0		102
65 16 0 4821	6.8	15.4*		99
7 16 0 4825	8.3	15.4*		105
8 16 0 4308	6.3*	17.2		95*
10 15 7M 4306	6.2*	17.2	7.6	90*
AMMONIUM SULFATE 4822	20.2			101
SUPERPHOSPHATE 4307		20.5		103
46 TRIPLE SUPERPHOSPHATE 4823		45.2*		98
SULFATE OF POTASH 4826			51.0*	98
MURIATE OF POTASH 4824			59.5	99
<u>O M SCOTT &amp; SONS COMPANY</u>				
20 10 5M 0244 1002 1134	20.0 20.8 20.5	10.3 10.9 11.0	5.5 5.2 5.3	101 105 104
<u>SMITH AGRICULTURAL CHEMICAL COMPANY</u>				
4 12 4M 0268 3429	4.2 4.0	11.6* 12.7	4.2 5.2	100 107



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<u>SMITH AGRICULTURAL CHEM CO CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
6 10 4M WITH 00,70 2,4,D 0266	6.1	9.3*	4.5	99
7 9 5M 0269	7.4	9.1	5.3	104
8 8 4M 0270	7.6*	8.8	4.0	101
<u>SOUTHERN STATES SEE COOP FERT SER</u>				
<u>SPENCER CHEMICAL COMPANY</u>				
AMMONIUM NITRATE				
0324	33.9			101
0517	33.7			101
2037	33.9			101
2153	34.0			101
4196	33.6			100
9749	33.6			100
UREA				
0865	45.6			101
<u>SWIFT &amp; COMPANY</u>				
3 12 12M				
0763	3.1	12.5	11.4*	102
2606	5.4	15.3	14.8	137
4 8 12S				
0284	4.0	8.1	12.2	101
3527	3.9	8.0	12.0	99
5 10 10M				
0235	4.9	10.1	9.6*	99
5 10 15S				
0481	5.3	10.2	15.0 <sup>(1)</sup>	103
0498	5.3	9.9	15.5	102
4324	5.1	9.7	15.0	99
5 20 20M				
2012	5.2	20.9	19.1*	102
2381	4.9	20.0	20.0	100
2605	5.1	20.9	20.0	103
6 10 4M				
0325	6.4	10.0	4.5	104
1038	6.1	10.5	4.7	105
1187	6.2	10.1	5.0	104
2289	5.3*	10.1	6.2	101
3053	6.2	10.4	3.9	103
3270	6.1	10.5	4.5	104
6 10 4S				
0247	6.1	11.3	4.5	108

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>SWIFT &amp; COMPANY CONTINUED</u>				
6 12 12M 0482 1535	5.8 5.8	13.1 12.4	12.7 12.5	104 101
6 24 24M 2382	6.0	23.4*	22.3*	97*
10 10 10M 0483 2379	10.5 10.1	10.1 10.6	9.1* 10.1	101 103
12 12 12M 2380 3528	12.1 11.5*	12.5 12.2	12.1 12.0	102 98
MURIATE OF POTASH 0764			60.0	100
<u>TENNESSEE CHEMICAL COMPANY</u>				
3 9 18M 3405	3.9	10.8	18.0	114
3 12 12M 3407	3.0	12.5	12.2	103
4 12 8M 0633 1164 3399	3.8 4.2 4.0	12.2 11.6* 12.0	8.1 8.7 8.4	100 101 101
4 16 16M 3544 4348	4.4 4.1	17.8 16.0	15.6* 16.1	107 101
5 10 15S 3398	5.0	10.3	15.0	101
5 20 20M 3402	5.3	19.5*	19.1*	99
6 8 6M 3403	5.4*	8.7	6.6	101
6 8 6S 3406	6.0	9.0	6.8 (1)	107
10 10 10M 3400	9.9	10.4	10.5	102
MURIATE OF POTASH 3401			60.0	100
<u>TENNESSEE CORPORATION</u>				
0 10 30M 1020		9.1*	30.5	97*

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<b>TENNESSEE CORPORATION CONTINUED</b>				
0 20 20M 2481 2510		20.0 19.7	20.1 21.5	100 102
0 20 20M WITH 10LB BORAX PER 100 2083 4414		20.7 20.1	19.7 20.5	102 101
2 12 6M 2638	2.4	11.9	7.5	107
3 12 12M 1195 1592 2480 2639 3192 4092 4244 4259	3.2 3.2 3.2 3.2 3.0 3.0 3.2 3.0	11.9 12.2 12.6 12.0 12.0 11.7 12.3 12.8	12.2 11.9 12.0 12.5 12.0 12.6 12.2 13.0	101 102 104 102 100 100 103 106
4 12 8M 2436 2675 4094 4245 4253 4290	4.0 4.2 4.0 4.2 3.7* 4.3	11.9 12.0 12.0 12.3 11.9 12.0	8.2 9.5 8.2 9.4 8.1 8.2	100 105 100 106 98 103
4 16 16M 2478	4.1	16.1	15.4*	100
5 10 5M 0172	5.0	10.1	5.6	102
5 10 10M 0664 0685 3193 3521 4249 4279 4372	5.1 4.9 4.8 5.0 5.0 5.1 5.0	10.5 12.6 10.3 10.2 10.7 10.5 10.2	10.2 10.5 10.1 10.6 10.3 11.1 11.4	103 112 100 102 104 105 104
5 10 15S 0173 0665 0686 1018 1030 1193 1260 1591 2322 2435 2509 3051 3109 3524 4091 4222 4246 4250 4252 4261 4291 4373 4376 4415	4.6* 5.2 4.5* 4.6* 4.7* 5.0 4.6* 5.2 5.0 5.0 5.0 4.9 4.6* 5.7 4.8 4.9 4.9 4.9 5.0 4.7* 4.6* 5.1 4.9 5.2	10.2 10.0 10.5 10.4 10.8 10.5 10.7 10.1 10.7 10.2 10.4 10.7 10.5 10.1 10.1 10.5 10.5 10.5 10.5 10.6 11.0 10.4 10.6 10.0	15.4 15.0 15.0 15.2 15.0 15.0 15.0 15.0 14.8 15.0 15.0 15.2 15.1 15.0 15.4 15.0 15.1 15.0 15.0 15.0 15.0 15.0 15.2	99 101 99 100 103 102 100 102 102 101 102 103 100 105 100 100 102 101 102 101 102 102 102
5 20 20M 0373	4.8	21.4	19.8	103

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>TENNESSEE CORPORATION CONTINUED</u>				
5 20 20M CONTINUED				
1021	4.9	19.9	20.4	100
1194	4.9	20.0	19.6	99
1457	4.9	20.6	19.7	101
2438	4.6*	20.2	20.2	99
2507	4.8	19.7	20.6	99
3168	4.6*	19.4*	20.0	97*
4095	4.8	20.0	20.0	99
4251	4.9	20.2	20.1	100
4260	4.6*	20.5	20.1	100
4289	5.0	21.0	19.2*	102
6 6 18S				
0174	6.2	7.2	16.8*	104
1455	6.0	6.5	17.8	102
3110	6.0	6.4	18.4	103
10 10 10M				
0175	9.9	10.4	10.2	101
0666	10.2	10.2	11.5	104
0687	9.9	10.5	10.8	103
1019	9.9	11.1	9.8	103
1031	10.0	10.1	10.1	101
1196	10.0	10.8	9.4*	102
1454	9.5*	10.8	10.5	101
1590	9.7	10.5	10.5	101
1714	10.5	10.0	10.0	103
2437	9.9	10.2	10.5	101
2508	10.0	11.0	10.3	104
4093	9.7	10.3	10.6	101
4377	10.3	10.8	10.0	104
12 12 12M				
2479	12.0	12.7	11.2*	101
3050	11.7	13.1	11.1*	101
SUPERPHOSPHATE				
1456		20.2		100
2323		20.2		101
3052		20.1		100
4262		20.5		103
46 TRIPLE SUPERPHOSPHATE				
2600		47.1		102
<u>TENNESSEE VALLEY AUTHORITY</u>				
20 52 0				
2575	20.4	51.9		101
30 10 0				
2576	29.9	10.4		100
<u>TRI STATE CHEMICAL COMPANY</u>				
0 20 20M				
3533		19.9	20.7	101
0 30 30M				
3531		31.6	28.9*	102
3 12 12M				
3532	3.3	13.8	12.4	111
4 12 8M				
3223	4.3	13.2	9.7	111



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
	(Percent)	(Percent)	(Percent)	
<u>TRI STATE CHEMICAL COMPANY CONTINUED</u>				
4 16 16M 3534	4.7	20.5	19.3	124
5 20 20M 3482	4.6*	20.0	21.7	101
3483	4.9	20.0	20.5	100
3535	4.6*	21.2	20.3	102
10 30 0 3481	4.9*	28.9*		81*
10 30 20M 3484	9.4*	28.4*	21.0	96*
12 31 18M 3485	12.3	31.6	18.0	102
<u>U S PHOSPHORIC DIV TENNESSEE CORP</u>				
46 TRIPLE SUPERPHOSPHATE 0833		46.5		101
<u>U S STEEL CORPORATION</u>				
AMMONIUM SULFATE 2676	21.0			100
<u>VALLEY COUNTIES OF KENTUCKY COOP INC</u>				
0 30 30M 1347		35.7	24.0*	106
6 24 24M 0757	6.5	22.3*	20.0*	93*
9 18 27S 1370	9.3	18.9	25.6*	101
1494	8.4*	18.2	27.1	99
10 30 20M 0291	10.2	30.2	20.7	102
1369	10.3	31.1	19.6	102
1495	9.5*	30.0	18.9*	98
1614	10.3	31.2	20.0	103
1734	10.2	30.1	20.0	101
4151	9.9	30.2	20.5	101
12 12 12M 2574	12.0	12.2	12.0	101
AMMONIUM NITRATE 0149	33.4			100
CALCIUM METAPHOSPHATE 0148		63.5		101
0290		63.2		100

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<u>VALLEY COUNTIES OF KY COOP CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
MURIATE OF POTASH 0289			60.0	100
<u>VIRGINIA CAROLINA CHEMICAL CORP</u>				
0 20 20M 0777		20.1	18.4*	98
1201		20.5	20.1	102
1613		17.1*	18.6*	88*
2253		20.4	20.1	102
2469		20.0	19.5*	99
2540		19.5*	20.2	99
0 20 20M WITH 3 LB BORAX PER 100 2255		19.6	20.0	99
4135		19.0*	19.2*	95*
4326		19.2*	19.3*	96*
0 20 20M WITH 5 LB BORAX PER 100 1272		18.9*	20.2	97*
2138		20.8	19.6	102
4172		17.7*	21.9	96*
2 12 6M 2305	2.3	11.9	6.3	103
2470	2.2	11.9	7.5	105
3 12 12M 0286	3.1	12.3	12.0	102
1113	3.3	12.6	12.4	106
1690	3.1	12.0	12.7	102
2091	3.4	12.0	12.5	104
2275	3.1	12.3	12.9	104
2303	3.1	12.4	12.0	102
2542	3.2	11.7	12.7	102
4036	3.0	12.2	12.7	102
4202	3.3	11.8	12.5	102
3 12 12 9S 3M 2344	3.2	11.7	12.7	102
4 12 4M 2088	4.0	11.3*	8.5	108
4 12 8M 0088	4.2	11.9	8.2	101
0375	4.5	12.0	7.7*	103
0688	4.2	12.3	8.2	103
0829	4.2	12.0	8.7	103
1112	4.0	12.2	8.4	102
1181	4.1	12.3	8.0	102
1203	4.3	11.9	8.7	103
1355	4.0	11.9	8.2	100
1382	4.2	12.1	8.2	102
1506	4.2	12.7	8.0	105
1632	4.1	12.2	8.4	103
1643	4.2	12.0	7.6*	100
2024	4.0	11.9	8.9	102
2092	4.0	12.0	8.0	100
2467	4.0	11.9	8.0	100
2622	4.0	12.1	8.1	101
2672	4.0	12.0	8.7	102
4038	4.0	12.3	8.8	103
4097	4.1	12.8	8.0	104
4139	4.1	12.4	8.0	103
4200	4.0	12.0	8.0	100
4 12 8M WITH 00.50 ALDRIN 1487	4.3	12.2	9.0	105



TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<i>VIRGINIA CAROLINA CHEMICAL CONTINUED</i>	(Percent)	(Percent)	(Percent)	
4 12 8 6S 2M 2343	4.2	11.8	8.1	101
4 12 12M 2169	4.0	12.6	12.7	104
4 16 16M 1433	3.9	16.8	17.0	104
1696	4.5	17.0	15.4*	105
4201	5.9	15.6*	15.0*	107
5 10 5M 0334	5.0	10.6	4.9	103
5 10 10M 0689	5.5	9.9	12.3	108
0778	5.7	10.2	10.9	108
2090	4.9	10.1	10.1	100
4219	5.0	10.7	10.0	103
5 10 10S 1379	5.0	10.6	10.4	104
2342	4.9	10.4	10.1 <sup>(1)</sup>	101
5 10 15S 0089	5.1	10.7	15.5	104
0376	5.0	10.5	15.0	102
0690	5.1	10.0	15.0	101
0779	5.1	10.8	15.0	104
1027	5.1	10.1	15.0	101
1111	5.0	10.5	15.0	102
1271	5.1	10.1	15.0	101
1635	5.0	10.4	15.0	102
1689	5.0	11.0	15.0	104
1698	5.2	11.0	15.0	105
2023	4.9	10.0	15.1	100
2084	5.1	10.4	15.0	102
2140	5.0	10.3	15.0	101
2274	5.2	10.7	15.0	104
2341	5.1	10.2	15.0	101
2428	5.0	11.2	15.0	105
2468	5.1	10.4	15.0	102
2673	5.1	10.0	15.0	101
4035	5.0	10.5	14.9 <sup>(1)</sup>	102
4098	5.0	10.6	15.0	102
4133	5.0	10.6	15.4	103
4198	5.1	10.0	15.0	101
4365	5.1	10.7	15.4	104
5 10 15S WITH 0033 ALDRIN 1486	5.1	10.0	14.9	100
5 20 0 2598	5.2	18.3*		95*
5 20 20M 1114	5.4	20.2	20.0	102
1202	4.9	20.0	20.2	100
1434	4.9	18.4*	20.1	95*
2085	5.0	19.8	19.5*	99
2142	5.0	20.4	18.6*	99
2254	5.8	19.3*	20.0	101
2426	4.8	20.9	20.0	102
2472	4.9	21.4	18.5*	101
2491	5.0	20.0	20.7	101
2650	5.1	20.2	19.0*	100
4170	4.8	18.8*	18.5*	94*
4214	5.3	19.9	20.1	101
4220	4.8	19.4*	20.1	98
4327	5.0	19.7	19.5*	99
4408	5.0	19.6	19.7	99

(1) See Table 5 for % Potash Equivalent to Excess Muriate

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen	Available Phosphoric Acid	Potash	Percent of Relative Value Found
<i>VIRGINIA CAROLINA CHEMICAL CONTINUED</i>	(Percent)	(Percent)	(Percent)	
6 6 18S				
1199	6.2	6.6	18.1	104
1593	6.2	6.4	17.7	102
2427	6.0	6.5	17.6*	101
6 8 6M				
1367	6.1	8.4	6.3	104
1380	6.0	11.1	11.3	129
6 8 6S				
2304	5.9	8.4	6.2	102
6 12 12M				
0661	6.4	12.1	13.2	105
0691	6.4	12.3	12.2	104
0693	6.3	13.1	11.7	105
1270	5.9	12.3	13.5	103
1343	5.9	12.2	12.0	100
1489	6.0	11.9	12.7	101
1634	6.2	11.0*	10.5*	95*
1697	6.0	13.1	12.0	104
2139	6.3	12.6	12.0	104
2170	6.1	12.1	12.2	101
4138	6.0	12.1	12.0	100
4199	6.0	12.0	12.0	100
4304	5.9	12.3	12.6	102
4329	6.0	12.0	12.4	101
10 10 10M				
0090	10.3	10.0	10.2	102
0663	10.2	10.2	10.3	102
0780	10.5	9.9	10.1	102
1001	10.4	11.3	10.5	107
1110	10.4	10.4	10.0	103
1200	10.3	10.0	10.4	102
1363	10.0	10.4	10.0	101
1381	10.1	10.4	10.4	103
1488	10.1	10.6	9.7	102
1594	10.2	10.2	10.1	102
1633	9.6*	10.6	9.5*	99
2089	10.0	10.5	10.0	102
2141	10.2	10.6	10.0	103
2651	10.6	10.0	10.3	104
4037	10.2	10.6	10.5	104
4134	10.3	10.1	10.0	102
4171	10.0	9.7	11.2	101
4197	10.1	10.2	10.2	102
4305	9.6*	10.9	10.3	102
4328	9.8	10.6	10.3	102
4407	9.7	10.8	10.6	102
<i>SUPERPHOSPHATE</i>				
0374		19.9		100
0662		19.5*		98
0692		20.3		102
0781		20.6		103
1273		20.3		102
1344		19.8		99
2425		20.0		100
2471		20.3		102
2541		20.2		101
4137		20.2		101



TABLE 2 - Analyses of Inspection Samples of Liquid Mixed Fertilizers, Nitrogen Solutions, and Anhydrous Ammonia, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade	Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>ALLIED CHEMICAL CORP NITROGEN DIV</u>					
NITROGEN SOLUTION					
	2548	32.0			100
	3486	32.2			101
<u>BARTLETT &amp; O BRYAN FERTILIZER CO</u>					
4 12 8M LIQUID	3421	3.7*	12.3	8.2	100
4 12 12M LIQUID	2375	5.2	11.4*	9.5*	100
	3419	3.8	12.5	12.2	101
	3420	3.8	12.8	11.7	101
	3423	3.8	12.6	10.9*	99
	3424	3.7*	12.4	12.0	100
	3465	3.9	12.6	11.6*	101
	3466	3.9	12.8	11.3*	101
	3467	4.0	12.7	11.6*	102
	3468	3.8	12.7	12.0	102
	3469	3.8	12.8	11.9	102
	3470	3.5*	12.4	8.6*	91*
	3471	3.8	12.5	12.4	108
	3472	3.9	12.9	12.0	103
	3474	3.5*	12.3	8.5*	91*
	3475	3.8	12.6	12.4	102
5 15 10M LIQUID	3473	4.4*	15.3	10.6	99
8 8 8M LIQUID	2376	8.8	8.5	7.6*	106
10 10 10M LIQUID	3422	8.9*	10.0	9.1*	93*
<u>COMMONWEALTH FERTILIZER COMPANY INC</u>					
6 18 6M LIQUID	2535	6.1	18.3	6.0	102
7 14 7M LIQUID	2441	7.4	14.5	7.2	104
	2521	7.5	14.2	7.6	104
10 10 10M LIQUID	2536	10.5	11.4	10.6	108
<u>E TOWN ANHYDROUS AMMONIA COMPANY</u>					
4 11 11M LIQUID	2640	4.0	10.7	10.9	98
4 12 6M LIQUID	2398	4.1	11.8	10.4	110
6 8 6S LIQUID	2619	6.7	9.2	5.0*	109

TABLE 2 - Analyses of Inspection Samples of Liquid Mixed Fertilizers, Nitrogen Solutions, and Anhydrous Ammonia, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>E TOWN ANHYDROUS AMMONIA CONTINUED</u>				
10 10 10M LIQUID 2617	75*	12.4	11.1	97*
2620	103	105	8.8*	101
10 20 0 LIQUID 2616	11.0	17.5*		97*
NITROGEN SOLUTION 2621	303*			95*
MIXED TO ORDER 2399	2.6	5.4	6.9*	102
2618	1.6		8.0	102
<u>GRACE CHEMICAL COMPANY</u>				
ANHYDROUS AMMONIA 4801	82.0			100
4807	82.0			100
4808	82.0			100
4810	82.0			100
4817	82.0			100
<u>LAND O NAN WAREHOUSE</u>				
5 10 10M LIQUID 2603	5.0	9.8	10.1	99
6 8 8M LIQUID 2372	6.3	8.8	7.2*	104
6 18 6M LIQUID 2604	5.7*	17.8	6.6	99
10 12 6M LIQUID 2373	9.7	11.6*	8.0	101
<u>MID SOUTH CHEMICAL COMPANY</u>				
ANHYDROUS AMMONIA 4802	82.0			100
4803	82.0			100
4806	82.0			100
4809	82.0			100
4811	82.0			100
4812	82.0			100
4813	82.0			100
4814	82.0			100
4815	82.0			100
4816	82.0			100
4818	82.0			100
4819	82.0			100
<u>ROTTGERING FLOWERLAND</u>				
10 5 5M LIQUID 0845	15.4	5.0	5.2	136



TABLE 2 - Analyses of Inspection Samples of Liquid Mixed Fertilizers, Nitrogen Solutions, and Anhydrous Ammonia, January-June, 1959  
 Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<u>SEMO LIQUID FERTILIZER INC</u>				
8 8 8M LIQUID 0755	8.3	7.8	7.9	101
<u>SPENCER CHEMICAL COMPANY</u>				
28 0 0 LIQUID 0516	27.7			99
308 URA GREEN 2369	30.0*			97*
32 0 0 LIQUID 3480	31.8			99
ANHYDROUS AMMONIA 4804 4805	82.0 82.0			100 100
<u>STINSON FARM SUPPLY</u>				
8 16 8M LIQUID 2630 2693 2694	5.7* 5.8* 5.8*	14.3* 15.0* 15.1*	8.2 9.8 8.7	84* 89* 88*
<u>TENNESSEE VALLEY AUTHORITY</u>				
11 33 0 LIQUID 2529	9.0*	26.0*		80*
<u>WEST KENTUCKY LIQUID FERTILIZER CO</u>				
4 12 8M LIQUID 2531 4303 4827 4828	4.5 4.5 4.6 4.6	12.4 12.2 11.7 11.8	8.0 8.1 8.0 7.6*	105 105 103 102
4 12 12M LIQUID 4341	5.3	16.1	9.9*	121
4 15 8M LIQUID 2530	4.7	14.6*	8.8	104
5 10 10M LIQUID 2684 4428 4430	5.4 5.5 5.2	10.7 8.2* 9.8	9.7 9.3* 9.7	105 94* 100
5 20 0 LIQUID 4423	5.0	18.3*		94*

TABLE 2 - Analyses of Inspection Samples of Liquid Mixed Fertilizers, Nitrogen Solutions, and Anhydrous Ammonia, January-June, 1959

Analyses deficient more than one-fourth of one percent and relative values of 97 percent or less indicated by asterisk.

Manufacturer Grade Sample Number	Nitrogen (Percent)	Available Phosphoric Acid (Percent)	Potash (Percent)	Percent of Relative Value Found
<i>WEST KENTUCKY LIQUID FERT CONTINUED</i>				
6 12 12M LIQUID				
4357	6.2	12.3	11.3*	101
4432	6.2	12.7	10.9*	102
6 12 12 POTASH FROM KOH LIQUID				
4422	6.1	12.0	12.5 (1)	101
4424	5.8	12.3	12.4 (1)	101
6 12 12 6M 6 POTASSIUM HYDROXIDE				
2527	6.6	12.3	12.0	104
6 18 8M LIQUID				
4337	5.9	19.5	8.0	104
4338	5.9	18.1	8.0	100
4343	6.0	18.0	8.0	100
4830	6.1	17.8	7.7*	99
4831	6.1	18.0	7.8	100
4832	6.2	17.8	7.8	100
8 24 0 LIQUID				
4335	7.8	24.0		99
4342	7.8	24.0		99
9 9 9M LIQUID				
2682	9.2	9.7	8.8	103
4356	9.2	9.1	8.5*	101
4431	8.9	9.7	8.9	102
10 10 10M LIQUID				
2528	10.7	11.1	10.0	106
4340	9.8	11.4	9.5*	103
4344	10.0	10.8	9.8	102
4829	9.3*	11.1	9.2*	99
4833	9.6*	11.0	9.4*	100
4834	9.6*	10.8	9.4*	100
10 10 10 5M 5KOH LIQUID				
4427	10.3	9.7	9.3*	99
4429	10.4	10.7	9.3*	103
11 33 0 LIQUID				
4425	10.6*	32.8		98
12 12 6M LIQUID				
2685	12.1	12.0	6.0	100
15 10 5M LIQUID				
2686	15.3	10.0	5.0	101
15 15 0 LIQUID				
2683	14.8	15.0		99
4336	14.0*	15.1		96*
4339	14.2*	14.5*		95*
4835	13.4*	15.0		94*
18 12 0 LIQUID				
2681	17.7	12.0		99
URAN				
4345	27.8			99

(1) See Table 5 for % Potash Equivalent to Excess Muriate



TABLE 3 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, January-June, 1959

(Analyses deficient more than tolerance shown on page 6 and relative values of 97 percent or less indicated by asterisk.)

Sample Number	Manufacturer, Brand Name	Available		Phosphoric Acid		Percent of Relative Value Found
		Guar. (Percent)	Found	Guar. (Percent)	Total Found	
<u>ROBIN JONES PHOSPHATE COMPANY</u>						
0283	Rock Phosphate	3.0	3.1	30.0	30.9	103
<u>RUHM PHOSPHATE &amp; CHEMICAL CO.</u>						
9735	Rock Phosphate	---	---	30.0	30.1	101
<u>SCHROCK FERTILIZER SERVICE</u>						
2371	Rock Phosphate	---	---	33.0	33.9	103
3082	Rock Phosphate	---	4.2	33.0	33.0	100
3479	Rock Phosphate	3.0	4.4	33.0	33.2	105
<u>THOMPSON SALES COMPANY</u>						
0285	Soft Phosphate with Colloidal Clay	2.0	3.1	20.0	21.3	107
0473	Soft Phosphate with Colloidal Clay	2.0	2.6	20.0	21.3	106

TABLE 4 - Analyses of Inspection Samples of Bone Meal, Dried Manures, etc., January-June 1959

(Analyses deficient more than tolerance shown on page 6 and relative values of 97 percent or less indicated by asterisk.)

Sample Number	Manufacturer, Brand Name	Nitrogen (Percent)	Total Phosphoric Acid		Potash (Percent)	Percent of Relative Value Found
			(Percent)	(Percent)		
<u>SMITH AGRICULTURAL CHEMICAL CO.</u>						
0267	2-23-0 Bone Meal	2.5	29.2	---	---	136
<u>ROTTGERING FLOWERLAND</u>						
0844	3.5-2.6-1.5 Organic Plant Food	4.1	5.2	2.2	---	127
<u>THE SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE</u>						
1709	5.5-4-0 Milorganite	5.7	4.4	---	---	104

TABLE 5 - Results of analyses of fertilizer samples in which the guarantee for Sulfate of Potash was not met. Results are shown in terms of Potash equivalent to excess Muriate.

COMPANY	Sample Number	Grade	% Potash Equivalent to Excess Muriate	
American Agricultural Chemical Company	1298	5-10-15 S.	2.0	
	2211	5-10-15 S.	1.9	
	2419	5-10-15 S.	0.4	
	3319	5-10-15 S.	0.4	
	3511	5-10-15 S.	1.6	
Armour Fertilizer Works	0834	5-10-10 S.	0.7	
	4032	5-10-10 S.	1.1	
	1361	5-10-15 S.	0.3	
	2262	5-10-15 S.	0.8	
	3271	5-10-15 S.	0.3	
	3492	5-10-15 S.	0.4	
	4071	5-10-15 S.	0.8	
	0058	6- 6-18 S.	0.5	
	0836	6- 8- 6 S.	0.3	
	1346	6- 8- 6 S.	1.3	
	2265	6- 8- 6 S.	0.3	
	0538	6-12-18 S.	1.2	
	4031	6-12-18 S.	0.8	
Bluegrass Plant Foods, Inc.	3438	4-12- 8 S.	0.5	
	4271	6- 8- 6 S.	0.8	
Darling and Company	0772	5-10-15 S.		
		with 00.50 Aldrin	2.2	
Davison Chemical Corporation	0754	5-10-15 S.	0.7	
	1023	5-10-15 S.	0.4	
	1049	5-10-15 S.	0.8	
	1077	5-10-15 S.	0.4	
	1304	5-10-15 S.	1.1	
	1388	5-10-15 S.	0.8	
	2461	5-10-15 S.	0.4	
	3217	5-10-15 S.	0.3	
	4349	5-10-15 S.	0.8	
	1025	6- 6-18 S.	1.3	
	1242	6- 6-18 S.	1.4	
	1399	6- 6-18 S.	0.9	
	Federal Chemical Company	0135	5-10-15 S.	0.7
		0388	5-10-15 S.	0.3
		0501	5-10-15 S.	1.8
		0765	5-10-15 S.	0.3
		0767	5-10-15 S.	1.3
0848		5-10-15 S.	0.7	
1108		5-10-15 S.	2.1	
1174		5-10-15 S.	0.7	
1493		5-10-15 S.	4.0	
1500		5-10-15 S.	2.6	
2444		5-10-15 S.	0.3	
2454		5-10-15 S.	0.5	
4078		5-10-15 S.	0.4	
4366		5-10-15 S.	0.8	
4319		5-10-15 S.		
		with 00.50 Heptachlor	1.0	
	2224	6- 6-18 S.	2.5	
	0363	6- 8- 6 S.	1.8	
	3288	6- 8- 6 S.	0.6	
Hutson Chemical Company	1371	Sulfate of Potash	3.1	



TABLE 5 - Results of analyses of fertilizer samples in which the guarantee for Sulfate of Potash was not met. Results are shown in terms of Potash equivalent to excess Muriate

COMPANY	Sample Number	Grade	% Potash Equivalent to Excess Muriate	
International Minerals & Chemical Corp.	1297	4-12- 8 S.	4.2	
	3368	4-12- 8 S.	2.5	
	2098	5-10-15 S.	0.5	
	2555	5-10-15 S.	0.9	
	0219	5-10-15 12S 3M	0.3	
	3046	5-10-15 12S 3M	0.6	
	4182	5-10-15 12S 3M	0.3	
	0429	6- 8- 6 S.	3.1	
	Knoxville Div. American Agri. Chemical Co.	4055	3- 9- 6 S.	1.0
		4276	3- 9- 6 S.	0.3
4359		3- 9- 6 S.	0.4	
4083		4-12- 8 S.	0.7	
2691		4-12- 8 5S 3M	0.4	
0102		5-10-15 S.	0.7	
1514		5-10-15 S.	0.4	
2340		5-10-15 S.	0.7	
2533		5-10-15 S.	0.3	
4056		5-10-15 S.	0.3	
Missouri Plant Food Company, Inc.	0495	5-10-15 S.	0.8	
North American Fertilizer Company	3126	4- 8-12 S.	1.3	
	1094	6- 6-18 S.	0.7	
	1309	6- 6-18 S.	0.4	
	1147	6- 8- 6 S.	0.7	
Swift & Company	0481	5-10-15 S.	0.7	
Tennessee Chemical Company	3406	6- 8- 6 S.	1.0	
Virginia-Carolina Chemical Corporation	2342	5-10-10 S.	0.6	
	4035	5-10-15 S.	0.3	
West Kentucky Liquid Fertilizer Company	4422	6-12-12 KOH	3.2	
	4424	6-12-12 KOH	3.4	

TABLE 6. - Results of Analyses of Boron in Fertilizers Reported in Table 1

COMPANY	Sample Number	% Guaranteed	% Found
American Agricultural Chemical Company	3301	0.57	0.39
	3518	0.57	0.51
Armour Fertilizer Works	1074	0.57	0.52
	1217	0.57	0.46
	2670	0.45	0.90
Bluegrass Plant Foods Inc.	2125	0.57	0.61
	2190	0.57	0.55
	2193	0.57	0.56
	2296	0.23	0.23
	2297	0.57	0.43
	2328	0.57	0.52
	2402	0.57	0.75
Cooperative Fertilizer Service	3341	0.57	0.54
	0033	0.45	0.48
	1452	0.45	0.42
	1565	0.45	0.53
	2103	0.45	0.52
	2249	0.45	0.48
	2433	0.45	0.49
	2699	0.45	0.43
	3039	0.45	0.50
	3502	0.45	0.51
	4025	0.45	0.50
	4205	0.45	0.44
	4231	0.45	0.49
	4287	0.45	0.51
	4404	0.45	0.45
	4426	0.45	0.46
Davison Chemical Corporation	7487	0.45	0.56
	9748	0.45	0.49
	2147	0.57	0.29
	2244	1.14	1.21
	2359	0.57	0.48
Federal Chemical Company	0803	0.57	0.32
	1085	0.57	0.26
	1475	0.57	0.54
	4353	0.57	0.44
International Minerals & Chemical Corporation	2256	0.57	0.55
	2556	0.57	0.70
	4274	0.57	0.61
Knoxville Div. American Agri. Chemical Co.	2218	0.57	0.70
	2316	0.57	0.59
North American Fertilizer Company Tennessee Corporation	1310	0.57	0.59
	2083	1.13	1.06
Virginia-Carolina Chemical Corporation	4414	1.13	1.41
	1272	0.57	0.55
	2138	0.57	0.54
	2255	0.34	0.36
	4135	0.34	0.35
	4172	0.57	0.48
4326	0.34	0.33	



TABLE 7. - Results of Analyses of Insecticides Contained in Fertilizers Shown in Table 1.

COMPANY	Sample Number	Insecticide	%	
			Guaranteed	Found
American Agricultural Chemical Company	2680	Aldrin	0.15	0.14
Armour Fertilizer Works	0404	Aldrin	0.15	0.19
	0798	Aldrin	0.15	----
	4391	Aldrin	0.15	0.13
Bluegrass Plant Foods, Inc.	2194	Dieldrin	0.37	0.16
	2325	Dieldrin	0.31	0.33
	2459	Aldrin	0.20	0.17
Burley Belt Plant Food Works	3263	Dieldrin	0.25	0.24
	9750	Aldrin	0.30	0.28
	0383	Aldrin	0.50	0.38
Commonwealth Fertilizer Company, Inc.	0383	Aldrin	0.50	0.38
Cooperative Fertilizer Service	4413	Heptachlor	0.40	0.25
Darling & Company	0772	Aldrin	0.50	0.25
Davison Chemical Corporation	2549	Heptachlor	0.50	0.27
Federal Chemical Company	0504	Heptachlor	0.50	0.20
	1163	Heptachlor	0.50	0.39
	1373	Heptachlor	0.50	0.09
	2543	Heptachlor	0.50	0.11
	4319	Heptachlor	0.50	0.06
	0756	Aldrin	1.00	1.14
Hutson Chemical Company	1496	Aldrin	1.00	0.99
	1497	Aldrin	1.00	1.12
	0490	Aldrin	0.50	0.58
International Minerals & Chemical Corp.	4282	Aldrin	0.33	0.40
Knoxville Div. American Agri. Chemical Co.	0164	Dieldrin	0.37	0.36
	0182	Dieldrin	0.37	0.29
	2411	Aldrin	0.50	0.36
	2423	Aldrin	0.15	0.14
	2677	Aldrin	0.15	0.19
	4166	Aldrin	0.15	0.19
Louisville Fertilizer Company	0277	Heptachlor	0.25	----
	0278	Aldrin	0.15	0.11
Smith Agricultural Chemical Company	0266	2, 4, D	0.70	0.56
Virginia Carolina Chemical Corporation	1486	Aldrin	0.33	0.13
	1487	Aldrin	0.50	0.40

