

Regulatory Bulletin 164

ANALYSES OF OFFICIAL FERTILIZER SAMPLES

by the

FEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT STATION

SEMI-ANNUAL REPORT

SPRING SEASON

JANUARY-JUNE, 1960



UNIVERSITY OF KENTUCKY, LEXINGTON

CONTENTS

	Page
Explanation of Tables	4
Companies Represented by Samples Reported in this Bulletin	5
Explanation of "Standing of Manufacturers"	7
Tonnage of Fertilizer Sold	7
Standing of Manufacturers	8
Variation in Fertilizer Analyses	10
Why A Concern For Variability?	10
Reporting the Analyses of Fertilizer	11
Average Analysis, A Measure	11
Measuring Variability	11
"Wild" Samples	12
Note on Methods of Computation Used	12
Information Given In Tables	13
Average Percentage of Guarantee and Coefficient of Variation for all Samples by Fertilizer Manufacturers	14
Explanation of References in Table 1	16
Table 1, - Analyses of Inspection Samples of Mixed Fertilizer, Superphosphate, and Fertilizer Salts	17
Table 2, - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, January-June, 1960	124
Table 3, - Analyses of Inspection Samples of Bone Meal, Dried Manures, etc., January-June, 1960	124
Table 4, - Results of analyses of Fertilizer Samples in which the guarantee for Sulfate of Potash was not met	125
Table 5, - Results of analyses of Boron in Fertilizers Reported in Table 1	128
Table 6, - Results of analyses of Insecticides contained in Fertilizers shown in Table 1	130

FEED AND FERTILIZER DEPARTMENT
KENTUCKY AGRICULTURAL EXPERIMENT STATION

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

Guy P. Zickefoose, Auditor-Inspector
*David M. Daugherty, Registration Inspector
W. J. Huffman, Acting Registration Inspector

FIELD INSPECTORS

M. M. Davis
O. R. Wheeler

Neville Hulette

Noel J. Howard
W. M. Routt

LABORATORY STAFF

Harry R. Allen
Valva Midkiff
J. T. Adair
Paul R. Caudill

J. A. Shrader
John H. Ellis
Dewey H. Newman, Jr.

Lelah Gault
Norma Holbrook
Robert N. Price
Jo Ann Dawson

* * * * *

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

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

Special statistical data, explained on pages 10 to 15 by W. G. Duncan

This bulletin contains results of analyses of official samples of commercial fertilizer made during the period of January 1 through June 30, 1960. The average analysis of each plant food element and the coefficient of variation for each plant food are shown in Table 1 for each plant. The average percentage of guarantee and the coefficient of variation for all samples of a manufacturer are shown on pages 14 and 15.

Separate tables are provided for the results of analysis of fertilizer, for boron and pesticides incorporated in fertilizer, and for the percent of potash equivalent to excess muriate where the guarantee for sulfate of potash was not met.

EXPLANATION OF TABLES

The information given should be useful to farmers, agricultural workers, and company representatives in determining how closely a given manufacturer and plant 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 analyses 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: 3 for nitrogen, 2 for available phosphoric acid and 1 for potash. 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 =	15.0
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 =	15.1
Total computed value		50.8

50.8 (computed found 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 may be evidence of improper mixing or weighing by the manufacturer. Extreme variations of this kind cannot be attributed to separation of materials (segregation) after the product is bagged 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 analyses of all inspection samples are given in tables 1, 2 and 3. 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

Allied Chemical Corp., Nitrogen Div.
P. O. Drawer 61
Hopewell, Virginia

American Agricultural Chemical Co.
100 Church Street
New York, New York

American Cyanamid Company
P. O. Box 383
Princeton, New Jersey

American Liquid Fertilizer Company
2nd St. and St. Clair
P. O. Box 267
Marietta, Ohio

Armour Agricultural Chemical Co.
P.O. Box 1685
350 Hurt Building
Atlanta, Georgia

Armour Agricultural Chemical Co.
Nitrogen Division
P. O. Box 128
Crystal City, Missouri

Associated Cooperatives, Inc.
P.O. Box 911
750 W. 20th Avenue
Sheffield, Alabama

Bartlett & O'Bryan Fertilizer Co.
108 River Road
Owensboro, Kentucky

Bluegrass Plant Foods
P.O. Box 310
Cynthiana, Kentucky

Bunton Seed Company
300-306 East Jefferson St.
Louisville, Kentucky

Burley Belt Plant Food Works
Route #4
Lexington, Kentucky

Central Farmers Fertilizer Co.
205 W. Wacker Drive
Chicago 6, Illinois

Chilean Nitrate Sales Corp.
120 Broadway
New York 5, New York

Cooperative Fertilizer, Inc.
Southern States Bldg.
Richmond 19, Virginia

Darling and Company
4201 S. Ashland Avenue
Chicago 9, Illinois

Davison Chemical Company
Div. W. R. Grace & Co.
101 N. Charles Street
Baltimore 3, Maryland

J. H. Erbrich Products Company
1120 East 32nd Street
Indianapolis, Indiana

E'Town Anhydrous Ammonia Company
Box 148
Elizabethtown, Kentucky

E'Town Fertilizer Company
Cecilia, Kentucky

Farmers Fertilizer Company
Smiths Grove, Kentucky

Farmers Prescription Fertilizer
Guthrie, Kentucky

Farmers Supply & Produce Co.
P. O. Box 433
Monticello, Kentucky

Federal Chemical Company
646 Starks Building
Louisville, Kentucky

Glasgow Fertilizer Company
Box 295
Glasgow, Kentucky

Grace Chemical Company
P. O. Box 4915
Memphis 7, Tennessee

John Deere Chemical Co.
P.O. Box 1417
Pryor, Oklahoma

Hutson Chemical Company
Railroad Avenue
Murray, Kentucky

International Minerals & Chemical Corp.
P. O. Box 67 Lockland Station
Cincinnati 15, Ohio

Continued from previous page

Commercial Solvents Corp.
260 Madison Avenue
New York 16, New York

Commonwealth Fertilizer Co., Inc.
Morgantown Road
Russellville, Kentucky

Kentucky Fertilizer Works, Inc.
Box 595
Winchester, Kentucky

Land-O-Nan Warehouse
Sturgis, Kentucky

Louisville Fertilizer Company
Div. Armour Agricultural Chem. Co.
Nashville, Tennessee

Mid-South Chemical Corporation
1222 Riverside Blvd.
Memphis, Tennessee

Missouri Plant Food Company, Inc.
Sikeston, Missouri

Monsanto Chemical Company
800 N. Lindbergh Blvd.
St. Louis 66, Missouri

North American Fertilizer Company
1419 Preston & Bergman Streets
Louisville, Kentucky

Ohio Valley Fertilizer
P. O. Box 799
Maysville, Kentucky

Olin-Mathieson Chemical Corp.
P.O. Box 991
Little Rock, Arkansas

Price Chemical Company
2600 Millers Lane
Louisville 16, Kentucky

Ruhm Phosphate and Chemical Co.
P.O. Box 361
Columbia, Tennessee

Schrock Fertilizer Service
Congerville, Illinois

Scope Chemicals
154 N. Sparta St.
Sparta, Michigan

Semo Liquid Fertilizer, Inc
Box 301
Charleston, Missouri

Southern States Clark Coop.
Winchester, Kentucky

Spencer Chemical Company
610 N. Dwight Building
Kansas City, Kansas

Stenson Farm Supply
Horse Cave, Kentucky

Swift & Company
Agricultural Chemical Div.
National Stock Yards, Ill.

Tennessee Chemical Company
Div. Armour Agricultural Chem. Co.
Nashville, Tennessee

Tennessee Corporation
Lockland Station
Cincinnati 15, Ohio

Tri-State Chemical Corp.
P. O. Box 123
Henderson, Kentucky

U. S. Steel Corporation
525 William Penn Place Room 3004
Pittsburgh 30, Pennsylvania

Valley Counties of Kentucky Coop.
Box 351
Murray, Kentucky

Virginia-Carolina Chemical Corp.
401 East Main Street
Richmond, Virginia

West Kentucky Liquid Fertilizer Corp.
P. O. Box 507
Hopkinsville, Kentucky

EXPLANATION OF "STANDING OF MANUFACTURERS"

The standings of manufacturers, by plants, as determined by the results of analyses of official samples are given on pages 8 and 9. Purchasers of fertilizer can learn through a study of this how well any manufacturer, or plant, 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, potash, sulfate of potash, boron, and pesticides. 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 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 461,786 tons. This is 6 percent less than the 491,920 tons sold during the same period of 1959. There was a decrease of 26,409 tons of mixed fertilizer and 3,725 tons of materials sold this spring. Although there was 6 percent less total fertilizer sold in the spring of 1960 than in the same period of 1959, the actual plant food used was only 3 percent less.

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects
and Analyses within Tolerance - Spring Season, 1960

COMPANY AND PLANT	Samples			Analyses of N, P ₂ O ₅ , K ₂ O, sulfate of potash, boron, and pesticides		
	Total Number	Equal to guaranty in all respects		Total Number	Equal to guaranty or within Tolerance**	
		Number	Percent*		Number	Percent*
Allied Chem. Corp. Nit. Div.	5	4	80	5	5	100
American Agric. Chem. Co.	400	251	63	1,307	1,187	91
Cincinnati, Ohio	155	90	58	514	473	92
Johnson City, Tennessee	1	1	--	4	4	--
Knoxville, Tennessee	1	0	--	3	2	--
London, Kentucky	179	124	69	576	525	91
Nashville, Tennessee	38	21	55	132	115	87
Nat'l. Stock Yards, Ill.	7	5	71	21	20	95
Seymour, Indiana	19	10	53	57	48	84
American Cyanamid Company	3	3	--	3	3	--
American Liquid Fert. Co.	1	1	--	4	4	--
Armour Agric. Chem. Co.	552	331	60	1,739	1,556	89
Atlanta, Georgia	4	4	--	9	9	100
Bartow, Florida	3	3	--	3	3	--
Cincinnati, Ohio	225	153	68	718	665	93
E. St. Louis, Ill.	8	2	25	22	13	59
Jeffersonville, Indiana	117	71	61	375	337	90
Louisville Fert. Co.	13	4	31	37	31	84
Nashville, Tennessee	157	80	51	498	429	86
Sandusky, Ohio	1	1	--	3	3	--
Tennessee Chemical Co.	24	13	54	74	66	89
Armour Agric. Chem. Co. Nit. Div.	6	5	83	6	6	100
Associated Cooperatives, Inc.	13	12	92	21	20	95
Bartlett & O'Bryan Fert. Co.	67	30	45	208	174	84
Liquid	17	8	47	51	46	90
Dry	50	22	44	157	128	82
Bluegrass Plant Food Works	239	115	48	796	685	86
Cynthiana, Kentucky	100	50	50	357	313	88
Danville, Kentucky	139	65	47	439	372	85
Bunton Seed Company	3	2	--	9	8	89
Burley Belt Plant Food Works	113	30	27	390	301	77
Central Farmers Fert. Co.	3	2	--	3	2	--
Chilean Nitrate Sales Corp.	4	4	--	6	6	100
Commercial Solvents Corp.	2	2	--	2	2	--
Commonwealth Fertilizer Co.	98	49	50	297	256	86
Liquid	17	5	29	51	44	86
Dry	81	44	54	246	212	86
Cooperative Fertilizer Service	417	267	64	1,278	1,179	92
Bristol, Virginia	12	10	83	35	33	94
Louisville, Kentucky	124	100	81	390	379	97
Russellville, Kentucky	157	67	43	460	389	85
Winchester, Kentucky	124	90	73	393	378	96
Darling and Company	28	16	57	81	71	88
Cairo, Illinois	22	12	55	64	55	86
E. St. Louis, Illinois	6	4	67	17	16	94
Davison Chemical Div. W.R. Grace	185	104	56	577	500	87
Columbus, Ohio	1	1	--	3	3	--
Nashville, Tennessee	92	34	37	290	233	80
New Albany, Indiana	92	69	75	284	264	93
J. H. Erbrich Products Co.	1	1	--	3	3	--
E'Town Anhydrous Ammonia Co.	3	3	--	7	7	100
E'Town Fertilizer Company	76	43	57	235	212	90
Farmers Fertilizer Company	6	4	67	20	18	90
Farmers Prescription Fert. Serv.	13	8	62	37	33	89
Federal Chemical Company	371	160	43	1,170	936	80
Columbus, Ohio	3	1	--	11	8	73
Danville, Illinois	2	0	--	6	3	50

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

** See "Tolerance Scale" on page 7

COMMERCIAL FERTILIZER IN KENTUCKY, SPRING SEASON 1960

9

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects
and Analyses within Tolerance - Spring Season, 1960 (Continued)

COMPANY AND PLANT	Samples			Analyses of N, P ₂ O ₅ , K ₂ O, sulfate of potash, boron, and pesticides		
	Total Number	Equal to guaranty in all respects		Total Number	Equal to guaranty or within Tolerance**	
		Number	Percent*		Number	Percent*
Federal Chemical Co. (Cont.)						
Humboldt, Tennessee	58	18	31	183	134	73
Louisville, Kentucky	178	101	57	581	508	87
Nashville, Tennessee	130	40	31	389	283	73
Glasgow Fertilizer Company	41	22	54	124	106	85
Grace Chemical Company	6	6	100	6	6	100
Hutson Chemical Company	51	20	39	163	133	82
International Min. & Chem. Corp.	242	119	49	768	646	84
Carlsbad, New Mexico	4	3	--	8	7	88
Cincinnati, Ohio	84	38	45	283	239	84
Clarksville, Tennessee	58	38	66	188	175	93
Greenville, Tennessee	13	8	62	37	32	86
Skokie, Illinois	7	6	86	16	16	100
Somerset, Kentucky	76	26	34	236	177	75
Kentucky Fertilizer Works	146	101	69	467	426	91
Land-O-Nan Warehouse	20	10	50	57	46	81
Liqud	10	7	70	30	28	93
Dry	10	3	30	27	18	67
Louisville Fertilizer Co.						
See: Armour Agric. Chem. Co.						
Mid-South Chemical Company	7	7	100	7	7	100
Mississippi Chem. Corp.	3	3	--	3	3	--
Missouri Plant Food Co.	5	3	60	14	10	71
Monsanto Chemical Company	4	4	--	4	4	--
North American Fertilizer Co.	137	96	70	446	415	93
Ohio Valley Fertilizer Co.	50	8	16	175	127	73
Olin Mathieson Chemical Corp.	2	0	--	6	5	83
Price Chemical Company	81	52	64	263	241	92
Rottgering's Flowerland	1	1	--	3	3	--
Ruhm Phosphate Company	2	1	--	2	2	--
Schrock Fertilizer Service	1	0	--	1	1	--
Scope Chemicals	1	1	--	3	3	--
O. M. Scott & Sons Co.	4	2	--	11	9	82
Semo Liquid Fert., Inc.	1	1	--	3	3	--
Southern States						
See: Coop. Fert. Ser.						
Spencer Chemical Company	9	9	100	9	9	100
Stenson Farm Supply	3	0	--	9	2	22
Swift & Company	16	8	50	53	44	83
Chicago, Illinois	11	5	45	35	28	80
Greenville, Ohio	1	0	--	3	3	--
Nat'l. Stock Yards, Ill.	4	3	--	15	13	87
Tennessee Chemical Co.						
See: Armour Agric. Chem. Co.						
Tennessee Corporation	94	50	53	287	258	90
Cincinnati, Ohio	33	18	55	101	93	92
New Albany, Indiana	61	32	52	186	165	89
Tri-State Chemical Corp.	58	21	36	169	131	78
U.S. Steel Corporation	1	1	--	1	1	--
Valley Counties Coop.	20	11	55	44	33	75
Virginia-Carolina Chem. Corp.	272	146	54	865	745	86
Cincinnati, Ohio	87	48	55	274	240	88
Hopkinsville, Kentucky	92	56	61	292	255	87
Memphis, Tennessee	11	5	45	33	24	73
Mt. Pleasant, Tennessee	61	21	34	191	154	81
Richmond, Virginia	21	16	76	75	72	96
West Kentucky Liquid Fertilizer	48	22	46	142	121	85
Bowling Green, Kentucky	13	6	46	38	32	84
Hopkinsville, Kentucky	35	16	46	104	89	86
TOTAL	3935	2172	55	12,309	10,714	87

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

** See "Tolerance Scale" on page 7

VARIATION IN FERTILIZER ANALYSES

Variation is a basic trait in the analysis of fertilizer. The guarantee as printed on fertilizer bags cannot be accepted as an exact statement of the chemical contents. Rather, it tells what the manufacturer was aiming for and what the purchaser hopes to buy. This is true of all fertilizer. There is no departure from this principle. Evidence to the contrary is more likely a manifestation of variations of smaller magnitude.

Many causes contribute to variability. Particle size and variability in chemical content of raw materials are an initial cause of variation. Methods of assembling, weighing, mixing, delivery into storage piles, and re-handling, including bagging, present further opportunities for variation. To some extent these may cancel each other and thus minimize variation. They may progressively accumulate and thus magnify variation.

The degree of variability in the final fertilizer product is in direct ratio to the variation introduced from these causes combined with the care exercised. Precision comes only through the use of properly classified ingredients, employment of methods that are reasonably exact and carefulness at all stages of manufacture.

What has been said of manipulation in manufacture is likewise true of taking samples, their handling and analysis in the laboratory. This, too, may contribute to variation. Differences from this source, like those brought about in the manufacturing process, may tend to cancel each other or can accumulate. As in manufacturing, care and precision in the manipulation of samples will reduce the degree of variability.

The variation caused in laboratory handling is normally much less than that in manufacture. For the purpose of this report, variations attributable to sampling and the laboratory may be disregarded. They are usually slight. Also all samples were taken by the same inspectors and handled in the laboratory in the same way. If there is "laboratory bias" it will be to change all results in the same direction to the same degree.

WHY A CONCERN FOR VARIABILITY?

The manufacturer and the farmer alike are interested in this question of variability. Producers of fertilizer as well as purchasers want a product fully meeting guarantee. Manufacturers know that a certain amount of variability is unavoidable. This is a factor in suggesting "over-formulation" in the industry. The matter of how much over-formulation is necessary seems never to have been settled as it varies widely from plant to plant. Over-formulation becomes a contributing factor in product variation, especially between companies. The aim or objective of manufacturing is to have full guarantee as shown on every bag. If there is variability, it should be confined to values above the guarantee.

From the user's viewpoint, if fertilizer is variable, some purchasers will get less than they pay for and others will get more. Also, with variability in composition, different areas in the field will be treated differently corresponding to the degree of variability. The user, therefore, is interested in variability to the extent that he gets what he pays for, and the fertilizer is sufficiently uniform to give the best possible agronomic return.

The fertilizer official is likewise interested in this. His task is to see that each bag of fertilizer or the average of any two bags or whatever unit is selected is reasonably similar to other such units of quantity sold by a given manufacturer. Fertilizer laws infer that the average of the whole lot purchased should be at least equal to the guarantee. Although there are tolerances permitting some samples to fall slightly under guarantee, these tolerances are not large and it is expected will seldom be applied.

(Continued)

REPORTING THE ANALYSES OF FERTILIZER

In the past, regulatory reports of this Station have published results of thousands of chemical analyses of fertilizer samples. Some system of characterization is desirable if these are to be meaningful. Several methods have been used to bring meaning to these data. Marking deficient samples with an asterisk is one of these. Supplementary tables have been presented showing the standing of manufacturers based on the criteria of the percentage of samples equal to guarantee in all respects and the proportion of analyses above tolerance. Two additional ways of diagnosing such data are proposed in this report.

AVERAGE ANALYSIS, A MEASURE

The statement has been made that the average of a given lot of fertilizer should at least equal the guarantee. If this is correct, an average of the analyses of several samples of such a lot will show whether or not this is true.

The printed guarantee on each bag is viewed as the "aim" of the manufacturer. The average analysis of actual samples of the fertilizer becomes the means of statistically measuring the manufacturer's "true aim." The average analysis has been calculated for all of the analyses of mixed fertilizers reported in this bulletin when as many as two samples are shown. These averages, given in Table 1, follow the words "average analysis."

MEASURING VARIABILITY

"Average analysis" as an expression of the "true aim" of a manufacturer, says nothing in the dimension of variability. Some measure is needed to express the range in analyses on either side of the average. To further use the analogy from marksmanship if "average" measures aim at the target and tells the center of this aim, another measure is needed to express the "scatter" of the various shots. Are they close to the center of "true aim" or are they "wide" of the mark?

The coefficient of variation is proposed as a means for reducing this to a statistic that is useful. The method for doing this will be found in textbooks on statistics and when applied to a guarantee of 5% nitrogen is calculated as follows:

<u>Sample Number</u>	<u>Nitrogen Guarantee</u>	<u>Found</u>	<u>Squared</u>
A	5.0	5.6	31.36
B	5.0	5.5	30.25
C	5.0	5.4	29.16
D	5.0	5.7	32.49
E	5.0	5.5	30.25
F	5.0	5.8	33.64
G	5.0	5.0	25.00
H	5.0	6.0	36.00
I	5.0	5.5	30.25
J	5.0	5.3	28.09
		55.3	306.49

$$10 \text{ Samples, average} = \frac{55.3}{10} = 5.53$$

(Continued)

$$\text{Standard deviation} = \sqrt{\frac{306.49 - \frac{55.3^2}{10}}{10 - 1}} = \sqrt{\frac{0.68}{9}} = 0.275$$

$$\text{Coefficient of variation} = \frac{0.275 \times 100}{5.53} = 4.97 = 5.0\%$$

If in this example there had been less variation or "scatter," the resulting percentage would have been smaller. If there had been more variation, it would have been larger. The coefficient varies directly with the range in values of analyses.

"WILD" SAMPLES

No matter how much care is exerted in a fertilizer plant, an occasional "wild" sample may appear. Such samples are caused by unusual circumstances such as putting the wrong fertilizer in bags labeled for another grade or large errors in mixing or manipulation in the factory that cannot be said to represent usual procedure. Computations that included such samples would only throw the coefficient of variation as well as the average analysis completely out of line. They are judged to be so abnormal they have not been included in these statistical determinations. There were only 57 such samples in the mixed fertilizer samples reported. Such samples are indicated in the table as "See note 8." As a basis for excluding these samples, the following rules were followed:

1. Throw out any samples more than 110% or less than 90% in relative value except:
 - a. The sample is within $\pm 10\%$ of the average sample value.
 - b. The variation of all the sample values is such that the samples more than $\pm 10\%$ appear to fit a normal distribution pattern.
2. Throw out all of a small group of less than (5) samples if variability is so great that no clear pattern is apparent.
3. Throw out individual samples whose ratio of ingredients differs strongly from the balance of samples of the grade. These may include samples:
 - a. Whose ratio strongly suggests an entirely different grade of fertilizer.
 - b. Two or more of whose ingredients are highest or lowest by 10% or more of the extreme value of the remaining normal samples.

NOTE ON METHODS OF COMPUTATION USED

It is apparent that the computation of coefficients of variation and even the simple averages for such a large number of samples requires a great many mathematical operations. The cost would make the operation impossible by ordinary methods, but the use of the digital computer leased by the University of Kentucky enables all of the computations to be performed at a rate of approximately 5,000 samples an hour.

(Continued)

The machine program for this work was developed especially for the purpose and is available for use on the computer at the University of Kentucky. It will be duplicated for use on other IBM 650 computers at no charge.

INFORMATION GIVEN IN TABLES

The coefficients of variation for each grade from each plant are indicated in table 1. These are calculated for mixed fertilizer only and are shown when two or more samples are reported. The coefficients of variation become more significant as the number of samples increases.

Coefficients of variation for all grades have been calculated for N, P₂O₅ and K₂O for each plant. Where more than one plant is operated by a given company, average coefficients of variation for each of the three components are given on pages 14 and 15. Averages for plants or companies are given where as many as 10 samples were secured and then only if more than 2 samples were recorded for a given fertilizer grade. In one instance, a company had 10 samples but each was a sample of a different grade. An average c. v. could not be computed.

The average percentage of guarantee for all samples for each element of plant food was calculated by plants. This likewise is calculated by companies in case more than one plant is shown.

Average Percentage of Guarantee and Coefficients of Variation for all Samples by Fertilizer Manufacturers, Kentucky, Spring Season, 1960*

COMPANY AND PLANT	Average Percentage of Guarantee for all Samples			Coefficients of Variation		
	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)
American Agric. Chemical Co.	99.9	102.5	101.6 ⁸	3.3	2.4	3.3
Cincinnati, Ohio	99.2	104.0	102.2	3.7	2.8	3.1
London, Kentucky	100.3	101.4	102.0	2.9	2.7	3.4
Nashville, Tennessee	99.6	103.1	98.9	2.6	2.0	4.4
Seymour, Indiana	101.7	100.4	101.6	3.2	2.0	2.9
100.5	102.2	101.9				
Armour Agric. Chemical Co.	99.3	99.9	100.1	3.5	3.2	4.5
Cincinnati, Ohio	101.2	101.5	102.0	3.7	2.4	3.6
Jeffersonville, Ind.	100.2	103.5	103.3	4.1	3.4	4.4
Louisville Fert. Co.	97.7	104.8	101.8	2.4	5.3	3.0
Nashville, Tennessee	100.0	101.7	100.8	3.8	3.7	6.5
Tennessee Chemical Co.	99.7	103.5	101.5	2.7	2.2	2.3
Bartlett & O'Bryan Fert. Co.						
Liquid	101.2	104.6	97.7	0.9	3.5	3.6
Dry	102.1	102.4	101.8	5.9	4.9	6.9
Bluegrass Plant Food Works	101.6	102.5	101.1	4.3	3.4	4.2
Cynthiana, Kentucky	100.8	102.3	103.2	4.0	3.4	3.6
Danville, Kentucky	102.1	102.6	99.5	4.6	3.4	4.8
Burley Belt Plant Food Works	99.0	100.1	101.6	6.9	3.0	5.1
Commonwealth Fertilizer Co.						
Liquid	100.7	103.9	100.4	2.3	5.5	2.9
Dry	102.0	101.7	104.6	4.6	3.3	5.7
Cooperative Fert. Service	103.0	102.2	100.9	3.0	3.1	3.2
Bristol, Virginia	102.8	105.4	103.2	5.1	3.7	2.6
Louisville, Kentucky	103.7	103.1	102.2	2.4	2.8	3.1
Russellville, Kentucky	103.5	100.9	99.4	3.8	3.4	4.0
Winchester, Kentucky	101.7	102.6	101.2	2.2	2.9	2.4
Darling and Company (Cairo)	103.0	104.4	104.3	3.4	3.9	6.3
Davison Chem. Div. W.R. Grace	102.3	103.8	102.1	6.0	4.2	6.0
Nashville, Tennessee	100.9	101.4	100.0	5.1	3.6	6.9
New Albany, Indiana	103.6	106.4	104.3	6.9	4.8	5.2
E'Town Fertilizer Company	109.4	106.0	99.4	4.5	4.3	5.5
Federal Chemical Company	100.8	100.8	101.9	5.8	4.1	5.4
Humboldt, Tennessee	102.3	97.9	99.4	5.1	4.7	6.1
Louisville, Kentucky	102.1	102.0	102.2	4.9	3.6	4.3
Nashville, Tennessee	98.3	100.4	102.5	8.1	4.5	6.6
Glasgow Fertilizer Company	104.0	102.7	103.4	4.5	3.2	4.7
Hutson Chemical Company	104.0	101.0	101.7	8.0	5.2	5.3

Average Percentage of Guarantee and Coefficients of Variation for all Samples by Fertilizer Manufacturers, Kentucky, Spring Season, 1960* (Continued)

COMPANY AND PLANT	Average Percentage of Guarantee for all Samples			Coefficients of Variation		
	N (Percent)	P ₂ O ₅ (Percent)	K ₂ O (Percent)	N (Percent)	P ₂ O ₅ (Percent)	K ₂ O (Percent)
Internat'l. Min. & Chem. Corp.	98.6	102.7	101.7	4.2	3.2	4.7
Cincinnati, Ohio	99.5	104.3	101.3	6.7	3.6	5.4
Clarksville, Tennessee	101.4	103.7	103.1	3.3	3.6	3.9
Greenville, Tennessee	100.4	100.9	99.4	1.0	2.3	5.2
Somerset, Kentucky	94.5	100.5	101.6	4.1	3.6	5.0
Kentucky Fertilizer Works	102.1	102.7	103.1	3.9	3.5	4.6
North American Fert. Co.	100.4	102.4	104.7	2.9	2.8	4.0
Ohio Valley Fertilizer Co.	96.4	99.8	99.1	4.1	3.5	4.3
Price Chemical Company	103.2	102.1	104.7	4.8	3.0	4.5
Swift & Company (Chicago)	99.4	103.9	102.6	2.4	4.7	3.2
Tennessee Corporation	102.1	102.5	99.9	4.3	2.2	5.6
Cincinnati, Ohio	103.4	103.0	100.5	5.0	2.7	5.1
New Albany, Indiana	101.4	102.3	99.6	3.8	1.9	6.0
Tri-State Chemical Corp.	94.1	106.8	103.0	8.1	6.5	4.7
Valley Counties Coop.	100.6	100.7	98.7	3.9	3.3	5.7
Virginia-Carolina Chem. Corp.	101.9	102.3	100.6	3.7	3.1	5.2
Cincinnati, Ohio	103.1	104.2	100.9	4.5	2.5	4.7
Hopkinsville, Kentucky	102.8	101.4	99.8	3.1	3.6	3.4
Memphis, Tennessee	103.7	99.9	96.6	5.7	5.2	7.8
Mt. Pleasant, Tennessee	98.2	100.9	101.7	3.2	2.8	7.9
Richmond, Virginia	102.0	104.2	101.4	2.9	2.4	3.4
West Kentucky Liquid Fert. Co.						
Bowling Green, Kentucky	102.4	102.9	98.2	4.8	3.1	2.4
Hopkinsville, Kentucky	100.0	99.5	100.0	1.4	2.5	3.2
Grand Average, All Companies						
Liquid	100.5	101.4	99.7	3.2	4.4	3.3
Dry	101.2	102.3	101.8	4.3	3.4	4.6

*Data for companies or plants where 10 or more samples are reported and more than one sample per grade.

EXPLANATION OF REFERENCES IN TABLE 1

Information is given for samples where the words "See note" is shown as follows:

- Note 1. See Table 4 for analyses of samples in which the guarantee for sulphate of potash was not met.
- Note 2. See Table 5 for the results of analyses of Boron in fertilizers.
- Note 3. See Table 6 for the results of analyses of Pesticides in fertilizers.
- Note 4. Fertilizer represented by this sample returned to plant and re-worked.
- Note 5. Purchaser received a refund based upon this analysis.
- Note 6. Product re-labeled and sold according to laboratory finding.
- Note 7. Purchaser could not be determined; refund based upon the analysis, sent to charity.
- Note 8. This sample not included in average. See page 12.

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ALLIED CHEMICAL CORP NITROGEN DIV</u>				
NITROGEN SOLUTION				100
5647	32.0			99
5857	31.6			
AVERAGE ANALYSIS	31.8			
COEFFICIENT OF VARIATION	.8			
<u>THE AMERICAN LIQUID FERT CO INC</u>				
10 20 10 KOH LIQUID				104
5912	103	209	102	
<u>BARTLETT & O BRYAN FERTILIZER CO</u>				
4 12 12M LIQUID				103
7230	4.1	12.6	11.8	102
7231	4.2	12.3	11.6*	103
7233	4.0	12.7	12.0	102
7234	4.1	12.3	11.9	103
7236	4.1	12.8	11.7	103
7238	4.0	12.7	12.0	103
7240	4.1	12.6	11.8	103
7241	4.0	12.3	11.4*	100
7243	4.1	12.2	11.9	101
7244	4.1	12.7	11.6*	103
7246	4.1	12.7	11.6*	103
7370	4.1	12.3	11.9	102
7371	4.1	12.2	12.0	101
7378	4.1	12.1	11.9	101
AVERAGE ANALYSIS	4.0	12.4	11.7	
COEFFICIENT OF VARIATION	1.3	1.9	1.5	
10 10 10M LIQUID				105
7239	10.0	11.7	9.7	102
7242	10.0	10.7	10.0	98
7245	10.0	10.2	8.6*	
AVERAGE ANALYSIS	10.0	10.8	9.4	
COEFFICIENT OF VARIATION		7.0	7.8	
<u>COMMONWEALTH FERTILIZER COMPANY INC</u>				
5 10 10 5M 5KOH LIQUID				104
8613	5.0	11.2	9.3*	
5 10 10M LIQUID				105
9132	5.3	10.7	10.0	
6 12 12M LIQUID				99
8419	6.1	11.7	12.0	102
8612	6.0	12.9	11.4*	102
8617	6.3	12.5	11.2*	101
8728	6.0	12.4	11.6*	
AVERAGE ANALYSIS	6.1	12.3	11.5	
COEFFICIENT OF VARIATION	2.3	4.0	2.9	
6 18 6M LIQUID				103
8420	6.0	18.6	6.4	102
9133	6.1	18.3	6.0	
AVERAGE ANALYSIS	6.0	18.4	6.2	
COEFFICIENT OF VARIATION	1.1	1.1	4.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>COMMONWEALTH FERT CO INC CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
7 14 7M LIQUID 8654	7.7	13.5*	7.6	103
8 24 0 LIQUID 8418	8.8	23.6		102
10 10 10M LIQUID 8345	10.0	10.6	10.0	102
8417	9.8	10.0	10.0	99
8614 SEE NOTE 8	6.1*	12.7	10.7	109
8615	10.0	10.2	10.4	101
8616	9.3*	12.5	10.0	105
8727	9.7	10.3	10.2	100
AVERAGE ANALYSIS	9.7	10.7	10.1	
COEFFICIENT OF VARIATION	2.9	9.4	1.7	
14 7 7M LIQUID 8346	13.8	7.8	8.5	104
<u>J H ERBRICH PRODUCTS COMPANY</u>				
6 18 6M LIQUID 5707	6.5	18.5	6.7	105
<u>E TOWN ANHYDROUS AMMONIA COMPANY INC</u>				
5 10 15M LIQUID 8431	5.2	10.8	15.8	106
9 9 9M LIQUID 8487	9.8	9.9	10.0	110
NITROGEN SOLUTION 8430	28.1			100
<u>GRACE CHEMICAL COMPANY</u>				
ANHYDROUS AMMONIA 9304	82.0			100
9308	82.0			100
9310	82.0			100
9312	82.0			100
9316	82.0			100
9317	82.0			100
AVERAGE ANALYSIS	82.0			
COEFFICIENT OF VARIATION				
<u>LAND O NAN WAREHOUSE</u>				
4 8 12M LIQUID 8486	4.2	8.0	12.0	102
6 4 8M LIQUID 8480	6.0	4.9	9.8	111

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960
Analyses deficient more than tolerance 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>LAND O NAN WAREHOUSE CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
6 12 12M LIQUID 8481	6.0	12.4	11.6*	101
6 18 6M LIQUID 8479	6.3	17.1*	7.0	99
10 5 10M LIQUID 8483	10.2	5.4	9.8	102
12 3 9M LIQUID 8485	12.0	3.4	9.2	102
12 4 8M LIQUID 8737	12.7	4.1	8.3	105
12 5 5M LIQUID 8482	12.3	5.3	5.5	104
12 6 6M LIQUID 8484	12.0	6.5	6.1	102
125 4 4M LIQUID 8738	12.7	4.6	3.9	103
<u>MID SOUTH CHEMICAL CORPORATION</u>				
ANHYDROUS AMMONIA				
9305	82.0			100
9309	82.0			100
9311	82.0			100
9313	82.0			100
9314	82.0			100
9315	82.0			100
9318	82.0			100
AVERAGE ANALYSIS	82.0			
COEFFICIENT OF VARIATION				
<u>SCOPE CHEMICALS</u>				
10 20 10M LIQUID 8741	9.9	21.0	10.3	103
<u>SEMO LIQUID FERTILIZERS INC</u>				
8 8 8M LIQUID 5646	8.0	8.0	8.0	100

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>SPENCER CHEMICAL COMPANY</u>				
	(Percent)	(Percent)	(Percent)	
<i>NITROGEN SOLUTION</i>				
3724	30.0			100
5703	30.3			101
5916	30.0			100
6735	30.2			101
9084	28.0			100
AVERAGE ANALYSIS	29.6			
COEFFICIENT OF VARIATION	3.6			
<i>ANHYDROUS AMMONIA</i>				
9306	82.0			100
9307	82.0			100
AVERAGE ANALYSIS	82.0			
COEFFICIENT OF VARIATION				
<u>STINSON FARM SUPPLY</u>				
<i>8 16 8M LIQUID</i>				
8730 SEE NOTE 5 AND 8	4.5*	9.6*	7.0*	62*
8731 SEE NOTE 5 AND 8	7.0*	14.0*	6.3*	86*
8732 SEE NOTE 5 AND 8	9.0	7.9*	10.3	83*
<u>WEST KY LIQUID FERT CO BOWLING GREEN</u>				
<i>4 12 8M LIQUID</i>				
8618	4.2	12.0	8.0	101
8619	4.1	12.7	7.7*	103
8726 SEE NOTE 5	3.9	11.4*	7.5*	95*
8622	4.8	12.8	7.4*	108
8626	4.3	12.4	7.8	103
AVERAGE ANALYSIS	4.2	12.2	7.6	
COEFFICIENT OF VARIATION	7.8	4.6	3.1	
<i>4 12 12M LIQUID</i>				
8623	4.2	12.8	11.3*	103
<i>6 12 12M LIQUID</i>				
8416	6.1	11.7	11.9	99
<i>10 10 10M LIQUID</i>				
8620	10.0	10.4	10.0	101
8621	10.0	10.3	10.2	101
AVERAGE ANALYSIS	10.0	10.3	10.1	
COEFFICIENT OF VARIATION		.6	1.4	
<i>10 10 10KOH LIQUID</i>				
8723	10.0	11.0	10.0	103
<i>12 8 8M LIQUID</i>				
8625	12.3	8.4	8.0	103
<i>12 12 6M LIQUID</i>				
8624	12.1	12.0	6.2	101
<i>URAN</i>				
8358	28.3			101

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>WEST KY LIQUID FERT CO HOPKINSVILLE</u>				
	(Percent)	(Percent)	(Percent)	
3 12 12M LIQUID 9222 SEE NOTE 5	3.0	103*	11.6*	92*
3 12 12M WITH 4 LB BORAX LIQUID 9219 SEE NOTES 2 AND 5	3.6	112*	11.6*	100
4 12 12M LIQUID				
8725	3.9	12.2	12.2	101
9072 SEE NOTE 7	3.9	11.0*	12.2	96*
9201	4.1	12.8	12.0	104
9202	4.0	12.0	11.8	100
9214	4.0	12.2	11.8	100
9216	4.0	12.1	12.0	100
9217	4.0	12.0	11.8	100
AVERAGE ANALYSIS	3.9	12.0	11.9	
COEFFICIENT OF VARIATION	1.7	4.4	1.5	
5 15 10M LIQUID				
9210	5.0	14.9	10.2	100
9213	4.9	15.0	10.0	99
9221	5.0	15.5	10.0	102
AVERAGE ANALYSIS	4.9	15.1	10.0	
COEFFICIENT OF VARIATION	1.1	2.1	1.1	
6 12 12M LIQUID 9204	6.0	12.0	12.0	100
6 12 12 6M 6KOH LIQUID				
9203	6.0	12.1	12.2	101
9223	6.1	12.4	12.4	103
9225	6.0	12.4	12.2	100
AVERAGE ANALYSIS	6.0	12.3	12.2	
COEFFICIENT OF VARIATION	.9	1.4	.9	
6 18 9M LIQUID				
9070	6.0	17.2*	9.6	98
9073 SEE NOTE 5	6.1	17.0*	9.2	98
9205	6.0	17.6*	9.3	99
9209	6.1	17.7	9.0	100
9212 SEE NOTE 5	6.0	17.4*	9.0	100
AVERAGE ANALYSIS	6.0	17.3	9.2	
COEFFICIENT OF VARIATION	.9	1.6	2.7	
7 14 7M LIQUID				
8724	7.3	13.9	8.0	103
8729	7.6	13.9	7.0	103
AVERAGE ANALYSIS	7.4	13.9	7.5	
COEFFICIENT OF VARIATION	2.8		9.4	
8 8 12M LIQUID 9206 SEE NOTE 5	7.7*	8.1	12.0	99
8 24 0 LIQUID				
9071 SEE NOTE 7	8.0	22.6*		96*
9226	7.8	23.3*		97*
AVERAGE ANALYSIS	7.9	22.9		
COEFFICIENT OF VARIATION	1.7	2.1		

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>WEST KY LIQUID FERT CO CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
10 10 10M LIQUID				
9131 SEE NOTE 5				
9208	9.8	10.3	8.9*	98
9215	9.8	10.0	9.7	99
9218	10.0	10.6	9.3*	101
9220	9.8	10.5	9.7	100
AVERAGE ANALYSIS	9.9	10.9	10.0	103
COEFFICIENT OF VARIATION	9.8	10.4	9.5	
	9	3.2	4.4	
11 33 0 LIQUID				
9224	11.0	33.4		101
15 10 5M LIQUID				
9207				
9211	15.0	10.9	5.0	103
AVERAGE ANALYSIS	14.7	10.3	5.3	100
COEFFICIENT OF VARIATION	14.8	10.6	5.1	
	1.4	4.0	4.1	
URAN				
4698	30.5			109
<u>ALLIED CHEMICAL CORP NITROGEN DIV</u>				
NITRATE OF SODA				
5558	16.2			101
AMMONIUM NITRATE				
3673	34.0			101
5572	33.4			101
AVERAGE ANALYSIS	33.7			101
COEFFICIENT OF VARIATION	1.2			
<u>THE AMER AGRI CHEM CO CINCINNATI</u>				
0 20 20M				
3799		19.9	20.1	100
3926		20.0	20.2	100
3933		19.9	21.0	101
6072		20.5	20.5	103
6383		20.8	21.4	105
6488		20.0	20.6	101
7090		20.6	20.0	102
8061		20.8	19.0*	101
AVERAGE ANALYSIS		20.3	20.3	
COEFFICIENT OF VARIATION		1.9	3.5	
0 20 20M WITH 5 LB BORAX PER 100				
3766 SEE NOTE 2		19.6	18.3*	96*
6706 SEE NOTE 2		19.5*	20.0	98
AVERAGE ANALYSIS		19.5	19.1	
COEFFICIENT OF VARIATION		3	6.2	
3 9 6S				
3743 SEE NOTE 1	3.2	9.3	6.3	105

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960
Analyses deficient more than tolerance 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>THE AMER AGRICHEM CO CONTINUED</i>				
3 12 12M	3.0	12.2	12.2	101
3765	3.3	12.6	12.1	105
3804	3.0	12.5	12.4	103
3820	3.0	12.4	12.0	102
3868	3.0	12.5	12.2	103
3929	3.1	12.4	12.0	102
3977	3.0	12.5	12.6	104
4721	3.2	12.7	11.8	104
6278	3.6	11.8	12.0	103
7100	3.2	12.0	12.1	102
7188	3.3	12.7	13.1	108
8065	3.0	12.4	12.6	103
8201	3.3	12.1	11.5*	101
8454	3.1	12.3	12.2	
AVERAGE ANALYSIS	5.8	2.1	3.3	
COEFFICIENT OF VARIATION				
4 12 8M	3.7*	12.7	8.1	101
3763	4.2	12.6	8.5	105
3914	4.1	12.3	8.1	102
3961	4.0	13.4	8.0	106
5615	4.1	12.8	8.4	105
6070	3.9	12.8	8.3	104
6279	4.5	12.4	8.1	105
6660	4.6	12.0	8.3	105
7101	4.1	11.7	8.5	100
8062	3.8	12.8	8.1	103
8066	4.1	12.5	8.2	
AVERAGE ANALYSIS	6.8	3.7	2.2	
COEFFICIENT OF VARIATION				
4 12 8S	4.1	11.1*	9.2	99
3739	4.0	11.8	8.5	100
3744	4.0	11.2*	9.9	101
3867	4.1	11.7	8.7	101
3960	4.1	11.8	8.9	102
5224	4.1	12.0	8.4	102
8310	4.0	11.6	8.9	
AVERAGE ANALYSIS	1.2	3.1	6.1	
COEFFICIENT OF VARIATION				
5 10 15S	4.9	10.1	15.0	100
3663	5.0	10.3	15.0	101
3664	4.9	10.5	15.5	102
3679	4.8	10.3	15.9	102
3680	5.0	10.5	15.3	103
3745	4.9	10.4	15.0	101
3747	4.6*	10.9	15.1	101
3760	5.0	10.3	15.5	102
3837	5.5	10.2	14.6*	103
3866	5.3	10.3	15.0	103
3930	5.1	10.4	15.4	103
3931	5.2	10.4	15.0	103
3934	5.2	10.5	14.8	103
3946	5.1	10.4	15.0	102
3958	5.3	10.3	15.0	103
3959	5.0	10.4	15.0	102
4722	5.2	10.6	14.6*	103
5225	5.0	10.5	15.0	102
5616	4.9	10.3	15.5	102
6041	4.9	10.9	14.8	103
6044	4.8	10.8	15.2	102
6069	5.0	10.5	15.2	102
6073	4.9	10.3	15.0	101
6255	4.8	11.2	15.2	104
6280	5.2	10.9	15.0	105
6290	5.1	10.3	15.0	102
6659	5.0	10.6	14.1*	101
7079	5.0	10.6	15.4	103
7087	5.0	10.4	14.7	101
7088	4.8	10.4	15.0	100
7091	5.0	10.4	15.2	102
7092				

SEE NOTE 1

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>THE AMER AGRI CHEM CO CONTINUED</i>				
5 10 15S CONTINUED				
7099	5.2	10.2	15.2	102
8063	5.1	10.3	15.4	103
8064	5.2	10.3	15.4	103
8104	5.2	10.3	15.2	103
8202	5.0	10.3	15.2	102
8452	5.2	10.4	15.0	103
AVERAGE ANALYSIS	5.0	10.4	15.0	
COEFFICIENT OF VARIATION	3.5	2.2	2.0	
5 20 20M				
3802	4.7*	20.4	20.4	100
3869	5.1	22.5	18.0*	98
3927	4.6*	20.0	20.5	99
3978	4.7*	20.4	20.0	100
4719	4.8	20.5	20.0	101
4723	4.9	19.3*	19.5*	97*
6043	4.8	20.2	20.1	100
7089	4.5*	20.4	20.1	99
8453	4.6*	20.0	20.0	98
AVERAGE ANALYSIS	4.7	20.4	19.8	
COEFFICIENT OF VARIATION	3.8	4.2	3.7	
6 6 18S				
3681	5.9	6.7	17.8	102
3761	6.2	6.4	18.0	103
3932	6.1	6.7	18.1	104
6707	5.8	7.0	18.1	103
6754	5.8	7.1	18.0	103
7085	6.0	7.4	18.0	106
7190	6.0	7.1	18.0	105
8190	6.1	6.5	18.5	104
AVERAGE ANALYSIS	5.9	6.8	18.0	
COEFFICIENT OF VARIATION	2.4	4.9	1.1	
6 8 6S				
3677 SEE NOTE 1	6.2	8.7	7.0	108
3746	6.1	8.4	6.6	104
3762	5.7*	8.6	6.6	102
3803	6.0	8.8	6.9	106
3945	6.1	8.6	6.7	106
5226	6.0	8.2	6.7	103
5573	6.0	8.9	6.3	105
5617	6.0	8.9	6.6	106
6563 SEE NOTE 1	6.1	8.7	6.9	107
7191	6.1	9.1	6.8	108
8060	6.0	8.5	6.6	104
AVERAGE ANALYSIS	6.0	8.6	6.7	
COEFFICIENT OF VARIATION	2.1	2.9	2.9	
6 10 4M				
3711	5.8	9.9	4.5	99
6191	6.3	9.9	4.3	102
AVERAGE ANALYSIS	6.0	9.9	4.4	
COEFFICIENT OF VARIATION	5.8		3.2	
6 12 12M				
3740	5.6*	12.3	12.5	100
3764	5.6*	12.5	12.6	101
3800	5.7*	12.6	12.4	101
5618	5.7*	12.4	12.1	100
6068	5.9	12.5	12.4	102
6486	5.5*	12.8	12.6	101
6694	6.1	12.6	12.7	104
7187	6.1	12.2	12.4	102
AVERAGE ANALYSIS	5.7	12.4	12.4	
COEFFICIENT OF VARIATION	4.0	1.5	1.4	
6 12 18S				
3678	6.0	12.5	18.5	103
3912	6.0	12.4	19.0	103
3928	5.8	12.3	19.0	102
6045	6.0	12.3	18.2	101
AVERAGE ANALYSIS	5.9	12.3	18.6	
COEFFICIENT OF VARIATION	1.6	7	2.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>THE AMER AGRICHEM CO CONTINUED</i>				
6 24 12M				
3981	6.1	24.6	12.6	103
7228	5.2*	23.3*	12.7	96*
AVERAGE ANALYSIS	5.6	23.9	12.6	
COEFFICIENT OF VARIATION	11.2	3.8	5	
7 0 0				
5512	7.0			100
9168	7.4			106
AVERAGE ANALYSIS	7.2			
COEFFICIENT OF VARIATION	3.9			
8 16 16M				
3924 SEE NOTE 4	5.9*	16.3	16.9	93*
8309 SEE NOTES 4 AND 8	14.9	9.0*	9.0*	100
10 6 4M				
3712	10.0	6.5	4.1	102
6190	9.9	6.9	4.7	107
7102 SEE NOTE 4 AND 8	6.1*	10.4	4.9	98
AVERAGE ANALYSIS	9.9	6.7	4.4	
COEFFICIENT OF VARIATION	.7	4.2	9.6	
10 10 10M				
3676	10.0	10.1	11.2	102
3801	10.1	11.1	10.2	105
3911	10.0	10.3	10.6	102
3980	9.7	11.2	9.8	102
4720	9.3*	10.8	10.2	100
5574	10.0	10.3	10.5	102
6042	9.0*	11.2	10.1	99
6071	10.0	11.1	10.1	104
6415	10.0	10.2	10.4	101
6562	9.7	10.9	11.1	103
7086	10.1	10.2	10.7	102
7189	9.5*	10.9	10.9	102
8059	10.0	10.9	10.1	103
8191	9.5*	11.0	10.1	101
8543	9.7	11.3	10.2	103
8635	9.9	12.2	10.0	107
AVERAGE ANALYSIS	9.7	10.8	10.3	
COEFFICIENT OF VARIATION	3.2	5.0	3.9	
10 40 10M				
4958	10.4	42.0	9.4*	104
12 12 12M				
3918	11.7	12.5	12.7	101
3925	12.0	12.5	12.4	102
3962	11.4*	12.4	12.4	99
3979	11.7	12.4	12.6	101
4959	11.9	12.5	13.0	102
5192	11.9	12.3	12.6	101
5542	11.7	12.7	12.1	101
AVERAGE ANALYSIS	11.7	12.4	12.5	
COEFFICIENT OF VARIATION	1.6	1.0	2.2	
<i>SUPERPHOSPHATE</i>				
3759		17.9		100
7103		18.4		102
8455		19.8		99
AVERAGE ANALYSIS		19.1		
COEFFICIENT OF VARIATION		5.1		

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>THE AMER AGRICHEM CO JOHNSON CITY</u>				
3 9 18S 8187	33	9.4	18.2	104
<u>THE AMER AGRICHEM CO KNOXVILLE</u>				
20 20 5M 4954	19.1*	19.3*	5.2	96*
<u>THE AMER AGRICHEM CO LONDON</u>				
0 10 20M WITH 5 LB BORAX PER 100				
9178 SEE NOTE 2		10.0	20.2	101
9331 SEE NOTE 2		10.7	20.1	104
9355 SEE NOTE 2		10.6	20.1	103
AVERAGE ANALYSIS		10.4	20.1	
COEFFICIENT OF VARIATION		3.6	2	
0 12 12M WITH 3 LB BORAX PER 100				
8186 SEE NOTE 2		12.8	13.5	109
0 20 20M				
4838		19.3*	19.5*	97*
4862		19.2*	20.5	98
4953		19.1*	20.2	97*
5193		19.4*	19.7	98
5310		18.9*	21.0	98
5363		18.7*	20.8	97*
5540		19.5*	20.0	98
9086		20.1	19.0*	99
AVERAGE ANALYSIS		19.2	20.0	
COEFFICIENT OF VARIATION		2.1	3.3	
0 30 30M				
4654		30.0	31.0	101
4863		30.0	30.0	100
9015		29.1*	30.2	98
AVERAGE ANALYSIS		29.7	30.4	
COEFFICIENT OF VARIATION		1.7	1.7	
3 9 6M				
4627	3.5	10.0	7.0	114
4629	3.4	9.8	7.0	112
4641	3.2	9.1	6.5	104
4950	3.1	9.3	6.6	105
5194	3.2	9.6	7.1	109
5311	3.2	8.9	6.2	102
5364	3.2	9.2	6.6	105
5524	3.2	9.0	6.3	103
5577	3.0	8.9	6.2	100
7317	3.0	9.3	6.5	103
9323	3.0	9.3	6.6	104
AVERAGE ANALYSIS	3.1	9.3	6.6	
COEFFICIENT OF VARIATION	5.0	3.8	4.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>THE AMER AGRICHEM CO CONTINUED</i>	(Percent)	(Percent)	(Percent)	
3 9 6S	3.3	9.7	6.5	108
4682	3.1	9.2	6.3	103
4718	3.2	9.4	6.5	106
5303	3.0	9.0	6.1	100
6678	3.0	9.7	6.6	106
8671	3.1	8.6*	6.1	99
9007	3.0	9.1	6.2	101
9324	3.1	9.7	6.0	105
9334	3.2	9.1	7.0	105
9356	3.1	9.2	6.3	
AVERAGE ANALYSIS	3.3	4.0	4.9	
COEFFICIENT OF VARIATION				
3 9 18M	3.0	9.1	19.5	104
9009				
3 9 18M WITH 5 LB BORAX PER 100				
5896 SEE NOTE 2	3.1	9.6	16.8*	101
6428 SEE NOTE 2	3.0	9.1	18.4	101
8670 SEE NOTE 2	3.0	9.7	18.7	105
AVERAGE ANALYSIS	3.0	9.4	17.9	
COEFFICIENT OF VARIATION	1.9	3.3	5.6	
3 12 12M	3.3	12.3	12.4	104
4683	3.0	12.0	12.2	100
9328	3.0	12.6	12.1	103
9335	3.1	12.3	12.2	
AVERAGE ANALYSIS	5.5	2.4	1.2	
COEFFICIENT OF VARIATION				
4 12 8M	4.3	12.0	8.9	104
3963	4.3	11.8	8.5	102
4626	4.1	11.8	8.6	101
4630	4.1	12.1	8.0	101
4684	4.3	12.0	8.6	103
4713	4.0	12.0	8.5	101
4839	4.3	12.0	8.7	104
5195	4.3	11.6*	8.7	102
5304	4.1	12.1	8.5	102
5525	4.0	12.0	8.1	100
5578	4.1	12.2	8.5	103
6239	4.0	12.0	8.6	101
7321	4.2	12.0	8.6	103
8058	4.0	12.1	8.4	101
9008	4.0	12.1	8.4	101
9091	4.0	12.5	7.9	102
9174	4.0	12.0	8.3	101
9333	4.1	12.0	8.4	
AVERAGE ANALYSIS	3.1	1.5	3.0	
COEFFICIENT OF VARIATION				
5 10 5M	5.3	9.6*	5.1	101
5312	5.1	10.0	5.0	101
5526	5.1	10.0	5.2	101
5562	5.3	9.6*	5.2	101
8115	5.2	9.8	5.1	
AVERAGE ANALYSIS	2.2	2.3	1.8	
COEFFICIENT OF VARIATION				
5 10 10M	5.2	10.4	10.1	103
5196	5.4	10.0	10.7	104
5313	5.2	10.6	10.0	104
5527	4.8	10.2	9.7	99
9016	5.1	10.3	10.1	
AVERAGE ANALYSIS	4.8	2.5	4.1	
COEFFICIENT OF VARIATION				
5 10 10M WITH 0041 ALDRIN				
4990 SEE NOTE 3	4.6*	10.2	9.4*	97*

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>THE AMER AGRI CHEM CO CONTINUED</i>				
5 10 10M WITH 0045 ALDRIN 4960 SEE NOTE 3	5.0	10.6	9.4*	101
5 10 15S				
2923	5.1	10.0	14.9	100
2972	5.2	10.1	15.0	102
3920	5.2	10.0	15.4	102
3966	5.1	10.3	15.4	103
4625	5.1	10.2	15.0	101
4631	4.9	10.5	14.4*	100
4635	5.0	10.6	14.0*	100
4681	5.1	10.0	15.0	101
4712	5.0	10.0	15.0	100
4956	5.0	10.3	15.0	101
4988	5.0	10.1	15.5	101
5579	5.0	10.2	15.0	101
5668	5.0	10.1	15.7	102
5700	4.9	10.1	15.2	100
6240	5.2	10.0	15.1	101
6426	5.2	10.0	15.2	102
6576	5.0	10.2	15.1	101
7320	5.0	10.5	15.2	102
8056	5.1	10.0	15.4	101
8057	5.1	10.0	14.4*	99
8113	5.1	10.1	15.0	101
8123	5.1	10.0	15.2	101
9087	5.0	10.2	15.4	102
9090	5.0	10.1	15.0	100
9175	4.9	10.0	15.4	100
AVERAGE ANALYSIS	5.0	10.1	15.0	
COEFFICIENT OF VARIATION	1.8	1.7	2.4	
5 20 20M				
4861	5.1	19.3*	21.0	100
4987	4.9	19.0*	19.5*	98
5541	5.0	19.4*	20.1	99
5897	4.7*	19.9	19.5*	98
6424	5.0	19.2*	20.2	98
8443	5.0	19.3*	20.0	98
9093	4.8	20.0	19.3*	98
9357 SEE NOTE 4	4.8	18.9*	19.5*	96*
AVERAGE ANALYSIS	4.9	19.3	19.8	
COEFFICIENT OF VARIATION	2.7	2.0	2.8	
6 6 18M				
6238	6.0	6.7	18.7	104
6 6 18S				
2973	6.1	6.2	18.0	101
3921	6.2	6.0	18.2	102
4955	6.0	6.7	18.1	103
6242	6.1	6.2	18.5	103
6427	6.0	6.3	18.0	101
6460	6.0	6.0	18.2	100
8189	6.0	6.5	18.0	102
8384	6.0	6.3	18.0	101
8386	6.0	6.4	18.2	102
8555	6.0	6.8	18.0	103
8669	5.9	6.8	18.7	104
9329	6.1	6.6	18.0	103
AVERAGE ANALYSIS	6.0	6.4	18.1	
COEFFICIENT OF VARIATION	1.2	4.4	1.2	
6 6 18S WITH 0015 ALDRIN 8557 SEE NOTE 3	6.0	6.7	18.1	103

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>THE AMER A GRI CHEM CO CONTINUED</i>	(Percent)	(Percent)	(Percent)	
6 8 6M				
2924	5.6*	9.2	6.4	104
3917	5.9	8.4	6.7	103
5365	5.8	9.0	7.5	107
5701	6.1	8.3	6.5	104
6237	6.1	8.4	6.9	105
6679	6.0	8.2	6.1	101
7279	5.9	8.4	6.1	102
7318	6.1	8.2	6.3	103
9325	6.0	8.5	6.4	104
AVERAGE ANALYSIS	5.9	8.5	6.5	
COEFFICIENT OF VARIATION	2.8	4.1	6.7	
6 8 6S				
2975	6.0	8.3	6.3	102
5465	6.0	8.0	6.1	100
5580	6.1	8.1	6.5	103
5667	6.2	8.1	6.0	102
5702	5.8	8.4	6.4	102
6139	5.8	8.7	6.1	102
6241	6.0	8.4	6.0	102
6574	5.7*	8.4	6.1	100
6677	5.4*	8.9	6.2	101
7319	5.9	9.0	6.0	104
9326	5.7*	8.4	6.2	100
AVERAGE ANALYSIS	5.8	8.4	6.1	
COEFFICIENT OF VARIATION	3.8	3.8	2.7	
6 12 12M				
3964	6.0	11.9	13.2	102
4860	6.4	12.0	13.0	104
4989	5.9	12.2	12.0	100
5197	5.9	11.9	12.6	100
5314	6.3	12.0	12.6	103
5563	6.0	12.3	11.6*	100
9167	6.0	12.4	12.0	101
9172	5.8	12.5	11.3*	99
9327	5.9	12.6	12.0	102
9330	5.9	12.1	12.0	100
9358	5.7*	12.2	12.0	99
AVERAGE ANALYSIS	5.9	12.1	12.2	
COEFFICIENT OF VARIATION	3.4	1.9	4.7	
10 6 4M				
8114	9.6*	5.9	5.0	101
10 6 4M WITH 0037 DIELDRIN				
5466 SEE NOTE 3	10.1	6.1	4.5	104
6140 SEE NOTE 3 AND 4	9.9	6.2	5.5	106
AVERAGE ANALYSIS	10.0	6.1	5.0	
COEFFICIENT OF VARIATION	1.4	1.1	14.1	
10 10 10M				
2922	10.4	10.2	10.1	103
2974	10.0	10.2	10.2	101
3916	10.0	10.1	10.0	100
3919	9.9	9.9	10.0	99
4840	10.1	10.0	10.2	101
4859	10.1	10.1	10.0	101
4957	10.3	10.0	10.1	102
5315	9.6*	10.2	10.3	99
6407	10.0	10.1	10.0	100
6425	9.9	10.1	10.1	100
6575	9.7	10.2	10.1	99
7278	10.0	10.7	10.0	102
8116	10.0	10.0	10.2	100
8188	10.0	10.4	10.3	102
8385	9.9	10.5	10.0	101
8556	9.5*	10.8	10.0	100
8653	10.0	10.1	10.5	101
9085	9.6*	10.1	10.1	99
9092	9.7	10.4	10.0	100
AVERAGE ANALYSIS	9.9	10.2	10.1	
COEFFICIENT OF VARIATION	2.3	2.3	1.3	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>THE AMER AGRI CHEM CO CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
10 30 20M				
3965	9.5*	29.5*	20.0	98
7226	9.5*	30.4	19.4*	99
AVERAGE ANALYSIS	9.5	29.9	19.7	
COEFFICIENT OF VARIATION		2.1	2.1	
AMMONIUM NITRATE				
5576	34.4			103
SUPERPHOSPHATE				
5316		19.0*		95*
5528		20.5		103
5581		20.8		104
8456		20.9		105
9177		21.4		107
AVERAGE ANALYSIS		20.5		
COEFFICIENT OF VARIATION		4.4		
54 TRIPLE SUPERPHOSPHATE				
5122		52.8*		98
MURIATE OF POTASH				
2921			60.0	100
<u>THE AMER AGRI CHEM CO NASHVILLE</u>				
3 9 6M				
9181	3.0	9.7	6.9	107
3 9 6S				
3884	3.0	9.0	6.3	101
5708	3.0	9.0	6.3	101
9169	3.0	8.9	6.8	102
AVERAGE ANALYSIS	3.0	8.9	6.4	
COEFFICIENT OF VARIATION		.6	4.4	
3 9 6 4S 2M				
3885 SEE NOTE 1	3.0	9.5	6.2	104
3 12 12M				
5642	3.2	12.3	12.2	103
6105	3.4	12.0	12.1	103
9176	3.0	12.1	12.0	100
AVERAGE ANALYSIS	3.2	12.1	12.1	
COEFFICIENT OF VARIATION	6.2	1.2	.8	
4 9 3M				
4911	4.2	9.1	3.4	104
4 9 3S				
3883	4.0	9.0	3.1	100
5157	4.1	9.2	3.5	104
5342 SEE NOTE 1 AND 8	4.5	10.1	5.7	119
6103	4.0	9.8	3.9	108
AVERAGE ANALYSIS	4.0	9.3	3.5	
COEFFICIENT OF VARIATION	1.4	4.4	11.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>THE AMER AGRI CHEM CO CONTINUED</u>				
4 12 8M	4.2	12.2	8.2	103
3887	4.1	12.2	8.0	102
4587	4.1	12.2	7.5*	100
8027	4.2	12.0	8.4	102
8076	4.0	12.6	8.0	103
9180	4.1	12.2	8.0	
AVERAGE ANALYSIS	2.0	1.7	4.1	
COEFFICIENT OF VARIATION				
4 12 8 5S 3M	4.0	12.0	8.7	102
6312				
5 10 15S	4.8	10.6	15.0	101
3888	5.0	10.2	13.5*	98
4910	4.8	10.3	13.1*	96*
4913	5.0	10.2	14.6*	100
5709	5.1	10.6	14.6*	102
6104	4.9	10.5	13.8*	99
8077	5.0	10.6	13.9*	100
9170	5.0	10.7	14.2*	101
9173	5.1	11.3	13.9*	104
9179	4.9	10.5	14.0	
AVERAGE ANALYSIS	2.2	3.1	4.2	
COEFFICIENT OF VARIATION				
5 10 15 10S 5M	5.0	10.3	15.3	102
3886	5.1	10.4	15.2	103
6550	5.0	10.3	15.2	
AVERAGE ANALYSIS	1.4	.6	.4	
COEFFICIENT OF VARIATION				
5 20 20M	4.9	18.7*	18.6*	94*
6551 SEE NOTE 4				
6 12 12M	5.4*	12.4	11.4*	97*
4912	5.8	12.2	12.1	100
6311	6.0	12.1	12.6	101
9182	5.7	12.2	12.0	
AVERAGE ANALYSIS	5.3	1.2	5.0	
COEFFICIENT OF VARIATION				
6 12 12M WITH 0036 ALDRIN	5.6*	12.4	11.9	99
6308 SEE NOTE 3				
30 10 0	29.3*	12.3		102
5498				
CALCIUM METAPHOSPHATE		64.0		102
5497				
SULFATE OF POTASH			48.5	101
5710				
<u>THE AMER AGRI CHEM CO NAT STOCK YARD</u>				
5 20 20M	5.0	20.3	20.0	101
5643	5.0	20.6	20.0	102
6310	4.1*	20.0	21.1	98
6549	5.0	20.2	19.7	100
6752	4.7	20.2	20.2	
AVERAGE ANALYSIS	9.4	1.2	3.0	
COEFFICIENT OF VARIATION				

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>THE AMER AGRI CHEM CO CONTINUED</u>				
10 10 10M				
5644	10.4	10.2	10.0	103
6309	10.2	10.2	10.2	102
6751	10.3	10.3	10.0	103
AVERAGE ANALYSIS	10.3	10.2	10.0	
COEFFICIENT OF VARIATION	9	5	1.1	
<u>THE AMER AGRI CHEM CO SEYMOUR IND</u>				
3 12 12M				
6485	3.0	12.5	12.1	102
6693	3.0	12.6	12.0	103
AVERAGE ANALYSIS	3.0	12.5	12.0	
COEFFICIENT OF VARIATION		5	5	
4 16 16M				
1926	4.1	16.5	15.3*	101
3889	3.7*	16.0	16.0	99
6381	4.2	15.7	17.1	102
6487	3.9	16.2	16.0	100
6692	4.0	16.0	17.1	102
AVERAGE ANALYSIS	3.9	16.0	16.3	
COEFFICIENT OF VARIATION	4.8	1.8	4.8	
5 20 20M				
6385	5.3	19.4*	20.1	100
6484	5.1	20.0	20.0	100
6489	5.3	20.0	19.2*	100
6662	5.3	19.5*	19.5*	99
6691	5.0	20.7	20.0	102
7227	5.1	19.5*	20.8	100
AVERAGE ANALYSIS	5.1	19.8	19.9	
COEFFICIENT OF VARIATION	2.5	2.4	2.7	
6 24 12M				
6384	6.3	22.7*	13.0	100
6490	6.0	23.4*	12.6	99
AVERAGE ANALYSIS	6.1	23.0	12.8	
COEFFICIENT OF VARIATION	3.4	2.1	2.2	
10 10 10M				
5711	9.9	10.4	10.3	101
6382	10.0	10.4	10.4	102
6661	10.7	10.9	10.9	108
AVERAGE ANALYSIS	10.2	10.5	10.5	
COEFFICIENT OF VARIATION	4.2	2.7	3.0	
12 12 12M				
7229	12.0	12.7	12.2	102
<u>AMERICAN CYANAMID COMPANY</u>				
CYANAMID				
5145	20.9			100
AMMONIUM NITRATE				
3665	34.2			102
5290	33.9			101
AVERAGE ANALYSIS	34.0			
COEFFICIENT OF VARIATION	.6			

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRI CHEM CO ATLANTA GA</u>				
5 10 5M 5464	5.1	10.6	5.8	106
10 10 10M 6491	10.5	10.5	10.5	105
SULFATE OF POTASH 5475			50.5	101
MURIATE OF POTASH 5474			60.0	100
<u>ARMOUR AGRI CHEM CO BARTOW FLORIDA</u>				
45 TRIPLE SUPERPHOSPHATE 2951		45.4		101
4749		45.2		101
4766		45.5		101
AVERAGE ANALYSIS		45.3		
COEFFICIENT OF VARIATION		3		
<u>ARMOUR AGRI CHEM CO CINCINNATI OHIO</u>				
0 20 20M 3666		20.5	19.9	102
3773		20.0	20.4	101
3786		18.8*	19.2*	95*
3794		19.3*	20.2	98
3870		18.8*	21.1	98
3987		20.7	20.2	103
3994		19.9	19.1*	98
4676		21.2	19.2*	103*
5388		19.1*	20.0	97*
5533 SEE NOTE 7		18.9*	18.2*	94*
5676 SEE NOTE 6		18.8*	19.3*	95*
7152		19.9	20.2	100
AVERAGE ANALYSIS		19.6	19.7	
COEFFICIENT OF VARIATION		4.2	3.9	
3 9 6M 3685 SEE NOTE 8	4.8	11.9	11.8	152
3873	3.3	9.0	7.0	106
3967	3.2	9.0	6.3	103
4619	3.3	9.4	6.1	105
4640	3.2	9.0	6.1	102*
4656	3.4	9.5	6.6	108
4756	3.2	9.1	6.0	102
5184	3.4	9.3	6.6	107
5301 SEE NOTE 8	3.9	9.8	7.5	118
5371	3.2	9.0	6.1	102
5391	3.4	9.3	6.2	106
5529	3.4	9.7	6.5	109
5688	3.2	8.9	6.0	101
7161 SEE NOTE 8	4.0	9.5	8.2	119
AVERAGE ANALYSIS	3.2	9.2	6.3	
COEFFICIENT OF VARIATION	2.8	2.7	5.0	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRICHEM CO CONTINUED</i>				
3 12 6M				
3687	3.5	12.0	6.9	106
3970	3.3	11.7	6.5	102
4637	3.3	11.2*	6.3	99
4655	3.1	11.7	6.7	101
4675	3.2	11.4*	6.4	99
5534	3.2	11.7	6.2	101
AVERAGE ANALYSIS	3.2	11.6	6.5	
COEFFICIENT OF VARIATION	4.1	2.3	4.0	
3 12 12M				
3770	3.0	12.2	12.0	101
3792	3.2	12.5	12.2	104
3795	3.1	12.4	12.2	103
3937	3.9	12.0	12.1	106
5467	3.2	12.2	12.1	102
7074	3.2	12.1	11.2*	100
7081	3.3	12.1	12.6	104
7155	3.4	12.8	12.2	107
8046	3.2	11.9	12.0	101
AVERAGE ANALYSIS	3.2	12.2	12.0	
COEFFICIENT OF VARIATION	7.8	2.2	3.0	
4 12 8M				
3772	4.0	12.1	8.0	100
3780	4.6	12.2	8.0	105
3872	4.2	12.0	8.0	101
3957	4.3	11.9	8.3	102
4620	4.2	12.0	8.1	102
5144	4.2	12.3	8.3	103
5185	4.2	12.0	8.6	103
5278	4.1	12.1	8.0	101
5372	4.2	11.9	8.5	102
5392	4.2	12.1	7.9	102
5677	4.1	12.2	8.6	103
6598	4.2	12.0	8.4	102
7073	4.2	12.2	8.7	104
7082	4.2	11.9	8.2	101
9018	4.0	12.2	8.5	101
AVERAGE ANALYSIS	4.1	12.0	8.2	
COEFFICIENT OF VARIATION	3.3	1.0	3.2	
4 12 8S				
6054	4.7	11.7	8.1	104
6597	4.4	11.9	8.3	103
AVERAGE ANALYSIS	4.5	11.8	8.2	
COEFFICIENT OF VARIATION	4.6	1.1	1.7	
4 16 16M				
5266	4.2	16.2	15.8	101
8049	4.1	16.3	16.1	102
AVERAGE ANALYSIS	4.1	16.2	15.9	
COEFFICIENT OF VARIATION	1.7	.4	1.3	
5 10 5S WITH 0031 DIELDRIN 3810 SEE NOTE 3 AND 6	5.2	10.5	5.6	106
5 10 5M				
2971	5.7	10.6	6.2	111
3778	5.1	10.5	5.9	106
3785	5.2	10.3	5.4	104
3993	5.4	10.7	5.8	109
5223	5.4	10.7	6.0	109
5302	5.3	10.3	5.6	105
5358	5.3	10.9	5.5	108
6081	5.1	10.0	5.9	103
6084	5.2	10.6	5.4	106
AVERAGE ANALYSIS	5.3	10.5	5.7	
COEFFICIENT OF VARIATION	3.5	2.5	4.9	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRI CHEM CO CONTINUED</i>				
5 10 5M WITH 0018 DIELDIN 5484 SEE NOTE 3	5.6	9.5*	5.0	102
5 10 10M				
2967	5.0	10.3	10.1	102
3684	5.0	10.6	9.7	102
3769	5.0	10.4	10.9	104
3777	5.0	10.4	9.8	101
3779	4.8	10.8	10.5	103
3864	4.9	10.2	10.5	101
3968	5.0	10.1	10.1	101
4634	5.0	10.1	10.3	101
4638 SEE NOTE 8	4.6*	13.4	11.1	115
4678	5.8	10.6	10.0	108
5186	5.0	10.0	10.0	100
5267	5.0	10.0	10.2	100
5386	5.0	10.3	10.0	101
5393	5.0	10.3	10.0	101
5485	5.1	10.5	10.0	103
5530	5.2	11.4	11.2	110
5535	4.9	10.7	10.0	102
5678	5.0	10.2	10.9	103
7031	5.3	10.0	10.0	102
7083	5.1	10.1	10.1	101
8051	5.0	10.3	10.4	102
8224	5.0	10.3	10.1	102
8388	4.9	10.0	10.5	100
8462	5.0	10.0	9.8	100
8552	4.8	10.6	10.0	101
9017	5.0	11.2	11.6	109
AVERAGE ANALYSIS	5.0	10.3	10.2	
COEFFICIENT OF VARIATION	3.7	3.5	4.4	
5 10 15S				
2966	5.1	9.9	15.0	100
3674	4.9	10.3	14.6*	100
3689 SEE NOTE 1	5.1	10.4	14.6*	101
3737	5.0	9.9	15.0	100
3742	5.2	10.0	15.0	101
3935	5.2	10.0	15.0	101
4617 SEE NOTE 1 AND 4 AND 8	4.5*	11.4	11.0*	95*
4752	5.1	10.0	15.0	101
4753	5.2	10.6	15.5	105
5268	5.0	10.0	15.2	100
5468	5.1	9.9	15.0	100
5523	5.3	10.2	14.5*	102
5694	5.4	10.1	15.2	103
6049	5.0	10.2	15.0	101
6056	5.2	10.0	14.9	101
6422	4.9	10.1	15.0	100
7026	5.0	10.1	15.3	101
7080	4.8	10.0	15.1	99
7154	5.1	9.9	16.0	102
8045	5.1	10.0	15.0	101
9116	5.1	10.0	15.0	101
AVERAGE ANALYSIS	5.0	10.0	15.0	
COEFFICIENT OF VARIATION	2.7	1.8	2.1	
5 10 20S				
3776	5.0	10.0	19.0*	98
5 20 20M				
3793	5.0	19.8	20.2	100
3796	5.1	19.8	20.0	106
3988	4.8	20.1	20.1	100
5909	5.0	20.0	19.6	99
7094	5.0	20.1	20.2	101
7158	5.0	19.7	20.0	99
8050	5.0	20.1	20.2	101
8550	4.8	19.9	19.5*	98
AVERAGE ANALYSIS	4.9	19.9	19.9	
COEFFICIENT OF VARIATION	2.1	.8	1.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRICHEM CO CONTINUED</i>				
	(Percent)	(Percent)	(Percent)	
6 6 18M				
6438	6.0	6.3	17.8	101
7025	6.0	6.3	17.5*	100
AVERAGE ANALYSIS	6.0	6.3	17.6	
COEFFICIENT OF VARIATION			1.2	
6 6 18S				
2968	5.9	7.3	17.5*	104
5469	6.0	6.5	18.1	102
5486	6.1	6.6	18.2	104
6047	6.0	6.8	17.4*	102
6441	6.0	6.1	18.0	100
6444	5.9	6.4	17.5*	100
6462	5.9	6.0	18.9	101
6583	6.0	6.8	18.7	105
7027	6.0	6.4	18.5	103
8047	5.8	6.4	19.2	103
8223	6.0	6.3	17.8	101
8461	5.8	6.5	18.2	101
8553	6.1	6.7	18.0	104
AVERAGE ANALYSIS	5.9	6.5	18.1	
COEFFICIENT OF VARIATION	1.6	5.1	3.0	
6 8 6M				
6050	6.1	8.0	6.1	101
6 8 6S				
3688	6.0	8.4	7.0	105
3771	6.0	8.2	6.1	101
3781	6.0	8.0	6.6	102
3797	6.1	8.5	6.3	104
3971	6.0	8.2	6.3	102
5279	6.0	8.0	6.3	101
5470	6.0	8.0	8.3	106
5619	6.1	8.8	6.6	106
5695	6.6	9.0	7.1	112
6046	6.0	8.0	6.2	101
6051	6.0	8.1	6.3	101
6440	6.0	7.9	6.2	100
7157	6.0	8.0	6.2	101
8043	6.0	8.2	6.5	102
8549	5.8	8.5	6.2	102
AVERAGE ANALYSIS	6.0	8.2	6.5	
COEFFICIENT OF VARIATION	2.7	3.9	8.6	
6 12 12M				
3686	6.0	12.0	12.4	101
3865	5.9	12.0	12.2	100
3874	5.9	12.1	12.4	101
3913	6.0	12.0	12.2	100
3969	6.0	12.1	13.7	104
4639	5.8	12.1	12.4	100
5183	5.7*	12.0	12.7	100
5321	6.0	12.1	13.0	102
5359	6.0	12.2	12.6	102
5394	6.0	12.3	12.7	102
5686	6.5	12.2	12.6	105
6055	5.9	12.2	12.4	101
6420	6.0	12.0	12.5	101
7067	6.0	12.3	12.4	102
8052	5.9	12.1	13.0	102
9019 SEE NOTES 4 AND 8	4.7*	12.0	9.6*	88*
AVERAGE ANALYSIS	5.9	12.1	12.6	
COEFFICIENT OF VARIATION	2.8	.8	3.0	
6 12 12S				
6048	6.0	12.5	12.4	103

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRICHEM CO CONTINUED</i>				
6 12 18S				
2969	6.0	12.2	18.1	101
3790	6.1	12.0	17.8	100
3989	6.0	12.0	17.9	100
3995	6.2	12.2	17.4*	101
5269	6.7	11.6*	17.0*	101
5280	6.1	12.0	18.0	101
5360	6.1	12.0	18.2	101
5471	6.1	12.1	18.1	101
5910	4.8*	12.2	18.6	96*
6052	6.2	11.8	17.8	100
6419	6.0	12.1	18.0	100
7064	6.0	13.0	17.4*	102
7156	5.9	12.1	18.5	101
8048	6.0	12.0	18.5	101
9117	6.3	12.0	17.7	101
AVERAGE ANALYSIS	6.0	12.0	17.9	
COEFFICIENT OF VARIATION	6.4	2.4	2.4	
6 24 12M				
3791	6.0	23.5*	12.4	99
3875	5.7*	24.0	12.1	99
9020	6.0	22.7*	11.9	97*
AVERAGE ANALYSIS	5.9	23.4	12.1	
COEFFICIENT OF VARIATION	2.9	2.8	2.0	
8 16 16M				
7093	7.5*	15.9	16.0	98
10 10 10M				
3738	10.0	10.6	10.0	102
3741	10.3	10.2	10.1	102
3775	10.0	10.3	10.0	101
3862	9.8	10.2	10.2	100
3936	10.1	10.1	10.3	101
4677	9.8	10.4	10.1	101
5472	10.4	10.2	10.0	102
5487	10.2	10.3	10.7	103
5551	10.3	10.4	10.2	103
6439	10.5	10.0	10.2	103
7028	10.1	10.5	10.5	103
7084	9.8	10.5	10.5	102
7153	10.1	10.0	10.9	102
8387	10.3	10.0	10.6	104
9118	10.0	10.2	10.0	101
AVERAGE ANALYSIS	10.1	10.2	10.2	
COEFFICIENT OF VARIATION	2.1	1.8	2.7	
12 12 12M				
3863	11.0*	12.8	12.1	98
3871	10.9*	12.5	13.2	98
5187 SEE NOTE 4	9.1*	12.8	12.1	90*
5326	11.5*	12.8	12.1	100
5361	12.1	12.7	12.6	103
5552	11.4*	12.2	12.7	99
5687	12.0	12.8	12.1	102
5689	12.6	13.1	13.4	108
AVERAGE ANALYSIS	11.3	12.7	12.5	
COEFFICIENT OF VARIATION	9.4	2.0	4.2	
<i>SUPERPHOSPHATE</i>				
3774		19.1*		95*
5387		20.0		100
5473		19.7		98
6053		19.5*		98
6421		20.1		100
8044		19.5*		98
8548		19.5*		98
AVERAGE ANALYSIS		19.6		
COEFFICIENT OF VARIATION		1.7		

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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 AGRI CHEM CO CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
MURIATE OF POTASH 6445			61.5	103
<u>ARMOUR AGRI CHEM CO EAST ST LOUIS</u>				
4 16 16M 6338	3.9	16.9	15.2*	101
5 20 20M 7205	4.6*	19.2*	20.4	97*
6 24 24M 6337 SEE NOTE 4	5.7*	21.9*	26.0	97*
10 20 20M 6335	9.7	19.6*	19.0*	97*
12 12 12M 5146	11.9	12.1	12.6	101
6336	12.0	13.4	11.2*	103
7206	12.1	12.9	11.4*	102
AVERAGE ANALYSIS	12.0	12.8	11.7	
COEFFICIENT OF VARIATION	.8	5.1	6.4	
MURIATE OF POTASH 2950			60.8	101
<u>ARMOUR AGRI CHEM CO JEFFERSONVILLE</u>				
0 20 20M 2982		21.0	20.7	105
6213		20.0	20.2	100
6219		20.0	21.7	103
6301		19.8	20.0	99
AVERAGE ANALYSIS		20.2	20.6	
COEFFICIENT OF VARIATION		2.6	3.6	
0 20 20M WITH 5 LB BORAX PER 100 8166 SEE NOTE 2		20.0	20.6	101
8547 SEE NOTE 2		20.3	21.7	104
AVERAGE ANALYSIS		20.1	21.1	
COEFFICIENT OF VARIATION		1.0	3.6	
3 12 6M 4618	3.3	12.0	6.5	104
4865	3.4	11.4*	6.6	102
5236	3.3	12.1	6.2	104
6065	3.3	12.8	6.0	106
8038	3.4	12.4	7.2	108
8551	3.0	12.3	6.5	103
AVERAGE ANALYSIS	3.2	12.1	6.5	
COEFFICIENT OF VARIATION	4.4	3.8	6.3	
3 12 12M 2927	3.0	12.6	12.7	104
2986	3.1	11.8	14.5	105
6083	3.1	11.7	13.0	102
6214	3.3	11.7	14.5	106
8134	3.4	12.3	12.2	104
8225	3.5	12.3	12.6	106
AVERAGE ANALYSIS	3.2	12.0	13.2	
COEFFICIENT OF VARIATION	6.0	3.1	7.5	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRICHEM CO CONTINUED</i>	(Percent)	(Percent)	(Percent)	
4 12 8M				
2895	4.2	11.8	8.0	100
2930	4.0	12.0	7.6*	99
2965	4.0	12.5	8.0	102
4725	4.2	11.9	8.0	101
5227	4.1	12.1	8.5	102
6067	3.9	12.2	8.7	102
6305	4.2	12.1	8.1	102
6695	4.3	13.0	8.5	108
8163	4.0	12.2	8.4	102
AVERAGE ANALYSIS	4.1	12.2	8.2	
COEFFICIENT OF VARIATION	3.2	2.9	4.2	
4 16 16M				
8041	4.2	16.0	18.0	104
5 10 15S				
1930	5.0	10.3	15.2	102
1959 SEE NOTE 1	5.1	10.5	14.9	102
1961	4.6*	10.7	15.1	101
1970	5.2	10.5	15.0	103
1972	4.6*	10.5	15.4	100
2894	5.0	10.0	15.0	100
2926	5.2	10.4	15.0	103
4726	4.6*	10.7	15.1	101
4748	5.1	10.0	15.0	101
5237	5.2	10.7	15.0	104
6599	5.1	10.4	15.0	102
7042	5.1	10.2	15.4	102
8042	5.0	10.1	15.7	102
8164	5.1	10.0	15.1	101
8523	5.0	10.7	15.5	104
AVERAGE ANALYSIS	4.9	10.3	15.1	
COEFFICIENT OF VARIATION	4.3	2.5	1.5	
5 20 20M				
2981	5.1	20.4	19.2*	100
4747	4.6*	19.2*	20.0	96*
4994	4.9	20.0	20.0	100
5898	4.8	20.8	18.6*	99
6220	4.8	20.4	19.1*	99
7041	5.2	20.0	19.6*	100
8039	5.2	18.6*	20.5	98
8096	5.2	18.9*	20.0	98
8206	5.2	20.0	21.7	103
8460	5.0	18.7*	22.0	99
AVERAGE ANALYSIS	5.0	19.7	20.0	
COEFFICIENT OF VARIATION	4.3	3.9	5.4	
6 8 6S				
2983	5.9	8.6	6.1	103
5900	6.2	9.1	6.2	108
6256	6.0	8.8	6.2	105
8226	6.1	9.4	7.5	112
AVERAGE ANALYSIS	6.0	8.9	6.5	
COEFFICIENT OF VARIATION	2.1	3.8	10.2	
6 12 12M				
2885	5.9	12.0	12.7	101
4679	6.1	13.1	10.4*	102
4724	5.7*	13.0	12.1	102
4751	6.0	12.4	12.4	102
5238	7.3	13.2	11.8	111
5432	5.7*	13.2	13.7	106
6296	6.0	12.6	13.0	104
6556	6.0	13.3	12.0	105
6601	5.5*	13.0	12.4	102
8040	6.2	12.9	13.0	106
AVERAGE ANALYSIS	6.0	12.8	12.3	
COEFFICIENT OF VARIATION	8.1	3.2	7.1	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRI CHEM CO CONTINUED</i>				
6 12 12S				
2887 SEE NOTE 1	5.8	12.9	12.3	103
4992 SEE NOTE 1	6.0	12.6	12.4	103
5433 SEE NOTE 1	5.8	13.4	12.4	105
6111	6.1	12.2	12.7	103
6295	6.2	12.4	13.0	104
6600	5.6*	12.9	12.2	101
6699	5.8	12.0	12.1	99
8204	5.7*	12.6	13.0	102
AVERAGE ANALYSIS	5.8	12.6	12.5	
COEFFICIENT OF VARIATION	3.4	3.5	2.7	
6 12 18S				
1962	6.2	12.0	18.2	101
1971	6.2	12.0	17.9	101
4991	5.8	11.3*	18.7	98
6066 SEE NOTE 1	6.3	12.5	17.4*	102
6080	6.4	12.1	17.5*	102
6218	6.0	12.9	18.0	103
6297	6.2	12.1	18.0	101
6552	5.8	12.5	18.4	101
6569	5.9	12.3	18.0	101
8165	5.2*	12.3	18.6	98
8203	5.8	12.3	18.7	101
8227	6.2	12.3	18.0	102
8459	5.9	12.9	17.9	102
AVERAGE ANALYSIS	5.9	12.2	18.1	
COEFFICIENT OF VARIATION	5.2	3.3	2.2	
6 18 12M				
8347	6.2	17.9	12.0	101
10 10 10M				
2929	9.9	10.7	10.2	102
4581	10.0	11.3	10.3	105
4680	10.0	10.5	10.5	103
4750	10.1	10.9	10.2	104
5281	10.0	10.6	10.2	102
6217	10.2	10.8	10.7	105
6302	10.0	11.0	10.5	104
6304	10.0	11.1	9.8	103
8136	10.1	11.1	10.6	105
8205	10.3	10.8	10.9	106
8458	9.9	10.6	10.3	102
8554	9.7	10.6	10.2	101
AVERAGE ANALYSIS	10.0	10.8	10.3	
COEFFICIENT OF VARIATION	1.5	2.3	2.7	
10 10 20S				
2984 SEE NOTE 1	9.6*	9.9	20.4	99
5282 SEE NOTE 1	9.6*	12.0	20.6	105
6257 SEE NOTE 1	9.8	11.8	20.1	104
8457 SEE NOTE 1	9.2*	11.0	19.4*	99
AVERAGE ANALYSIS	9.5	11.1	20.1	
COEFFICIENT OF VARIATION	2.6	8.5	2.6	
10 20 20M				
6229	9.7	22.2	20.0	104
12 12 12M				
4765	11.5*	13.2	13.0	103
5901	12.0	13.1	12.3	103
8294	12.0	14.0	12.0	106
AVERAGE ANALYSIS	11.8	13.4	12.4	
COEFFICIENT OF VARIATION	2.4	3.6	4.1	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRI CHEM CO CONTINUED</u>				
<i>SUPERPHOSPHATE</i>				
1929		20.1		100
2928		20.0		100
2985		21.6		108
5899		20.0		100
6112		19.7		98
8135		19.6		98
8167		20.2		101
AVERAGE ANALYSIS		20.1		
COEFFICIENT OF VARIATION		3.2		
<i>MURIATE OF POTASH</i>				
6555			60.0	100
<u>ARMOUR AGRI CHEM CO NASHVILLE TENN</u>				
0 14 14M 6497		14.6	14.0	103
0 20 20M 6016		20.1	18.3*	98
6151 SEE NOTE 4		20.4	16.0*	95*
6614		18.0*	20.9	95*
AVERAGE ANALYSIS		19.5	18.4	
COEFFICIENT OF VARIATION		6.7	13.3	
3 9 6M 4965	3.0	8.2*	5.7*	94*
3 12 6M 1987	3.1	11.9	6.5	102
4592	3.3	11.5*	6.5	101
4700	3.3	12.2	6.2	104
4792	3.3	11.4*	6.6	101
4984	3.9	12.0	7.2	110
6015	3.4	12.0	6.1	103
6495	3.5	12.0	6.1	104
6498 SEE NOTE 8	5.7	12.3	11.6	137
8478	3.5	12.0	6.4	105
AVERAGE ANALYSIS	3.4	11.8	6.4	
COEFFICIENT OF VARIATION	6.9	2.3	5.5	
3 12 12M 6737	3.1	11.7	12.4	100
8010	3.4	12.1	13.5	106
AVERAGE ANALYSIS	3.2	11.9	12.9	
COEFFICIENT OF VARIATION	6.5	2.3	6.0	
3 12 24M WITH 3 LB BORAX PER 100 9187 SEE NOTE 2	3.1	11.7	24.5	100
4 12 8M 2961	4.5	12.3	8.1	105
3882	4.2	12.0	8.9	103
4786	4.2	12.0	9.2	104
5350	4.7	12.3	8.0	106
5513	4.4	12.1	8.4	104
6008	4.0	12.7	7.9	103
6501	4.3	12.1	8.1	103
6519	4.4	12.8	8.4	108
9075	4.3	12.0	8.6	103
9135	4.2	12.4	8.7	105
AVERAGE ANALYSIS	4.3	12.2	8.4	
COEFFICIENT OF VARIATION	4.4	2.3	5.0	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRI CHEM CO CONTINUED</i>				
6 12 12S				
2887 SEE NOTE 1	5.8	12.9	12.3	103
4992 SEE NOTE 1	6.0	12.6	12.4	103
5433 SEE NOTE 1	5.8	13.4	12.4	105
6111	6.1	12.2	12.7	103
6295	6.2	12.4	13.0	104
6600	5.6*	12.9	12.2	101
6699	5.8	12.0	12.1	99
8204	5.7*	12.6	13.0	102
AVERAGE ANALYSIS	5.8	12.6	12.5	
COEFFICIENT OF VARIATION	3.4	3.5	2.7	
6 12 18S				
1962	6.2	12.0	18.2	101
1971	6.2	12.0	17.9	101
4991	5.8	11.3*	18.7	98
6066 SEE NOTE 1	6.3	12.5	17.4*	102
6080	6.4	12.1	17.5*	102
6218	6.0	12.9	18.0	103
6297	6.2	12.1	18.0	101
6552	5.8	12.5	18.4	101
6569	5.9	12.3	18.0	101
8165	5.2*	12.3	18.6	98
8203	5.8	12.3	18.7	101
8227	6.2	12.3	18.0	102
8459	5.9	12.9	17.9	102
AVERAGE ANALYSIS	5.9	12.2	18.1	
COEFFICIENT OF VARIATION	5.2	3.3	2.2	
6 18 12M				
8347	6.2	17.9	12.0	101
10 10 10M				
2929	9.9	10.7	10.2	102
4581	10.0	11.3	10.3	105
4680	10.0	10.5	10.5	103
4750	10.1	10.9	10.2	104
5281	10.0	10.6	10.2	102
6217	10.2	10.8	10.7	105
6302	10.0	11.0	10.5	104
6304	10.0	11.1	9.8	103
8136	10.1	11.1	10.6	105
8205	10.3	10.8	10.9	106
8458	9.9	10.6	10.3	102
8554	9.7	10.6	10.2	101
AVERAGE ANALYSIS	10.0	10.8	10.3	
COEFFICIENT OF VARIATION	1.5	2.3	2.7	
10 10 20S				
2984 SEE NOTE 1	9.6*	9.9	20.4	99
5282 SEE NOTE 1	9.6*	12.0	20.6	105
6257 SEE NOTE 1	9.8	11.8	20.1	104
8457 SEE NOTE 1	9.2*	11.0	19.4*	99
AVERAGE ANALYSIS	9.5	11.1	20.1	
COEFFICIENT OF VARIATION	2.6	8.5	2.6	
10 20 20M				
6229	9.7	22.2	20.0	104
12 12 12M				
4765	11.5*	13.2	13.0	103
5901	12.0	13.1	12.3	103
8294	12.0	14.0	12.0	106
AVERAGE ANALYSIS	11.8	13.4	12.4	
COEFFICIENT OF VARIATION	2.4	3.6	4.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRI CHEM CO CONTINUED</u>				
<i>SUPERPHOSPHATE</i>				
1929		20.1		100
2928		20.0		100
2985		21.6		108
5899		20.0		100
6112		19.7		98
8135		19.6		98
8167		20.2		101
AVERAGE ANALYSIS		20.1		
COEFFICIENT OF VARIATION		3.2		
<i>MURIATE OF POTASH</i>				
6555			60.0	100
<u>ARMOUR AGRI CHEM CO NASHVILLE TENN</u>				
0 14 14M 6497		14.6	14.0	103
0 20 20M 6016		20.1	18.3*	98
6151 SEE NOTE 4		20.4	16.0*	95*
6614		18.0*	20.9	95*
AVERAGE ANALYSIS		19.5	18.4	
COEFFICIENT OF VARIATION		6.7	13.3	
3 9 6M 4965	3.0	8.2*	5.7*	94*
3 12 6M 1987	3.1	11.9	6.5	102
4592	3.3	11.5*	6.5	101
4700	3.3	12.2	6.2	104
4792	3.3	11.4*	6.6	101
4984	3.9	12.0	7.2	110
6015	3.4	12.0	6.1	103
6495	3.5	12.0	6.1	104
6498 SEE NOTE 8	5.7	12.3	11.6	137
8478	3.5	12.0	6.4	105
AVERAGE ANALYSIS	3.4	11.8	6.4	
COEFFICIENT OF VARIATION	6.9	2.3	5.5	
3 12 12M 6737	3.1	11.7	12.4	100
8010	3.4	12.1	13.5	106
AVERAGE ANALYSIS	3.2	11.9	12.9	
COEFFICIENT OF VARIATION	6.5	2.3	6.0	
3 12 24M WITH 3 LB BORAX PER 100 9187 SEE NOTE 2	3.1	11.7	24.5	100
4 12 8M 2961	4.5	12.3	8.1	105
3882	4.2	12.0	8.9	103
4786	4.2	12.0	9.2	104
5350	4.7	12.3	8.0	106
5513	4.4	12.1	8.4	104
6008	4.0	12.7	7.9	103
6501	4.3	12.1	8.1	103
6519	4.4	12.8	8.4	108
9075	4.3	12.0	8.6	103
9135	4.2	12.4	8.7	105
AVERAGE ANALYSIS	4.3	12.2	8.4	
COEFFICIENT OF VARIATION	4.4	2.3	5.0	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRICHEM CO CONTINUED</u>				
4 16 16M 2958	4.2	16.4	16.2	103
5 10 5M 4735	5.1	10.4	5.0	103
4793	5.0	10.5	5.4	104
AVERAGE ANALYSIS	5.0	10.4	5.2	
COEFFICIENT OF VARIATION	1.4	.6	5.4	
5 10 10M 2941	5.0	10.0	10.0	100
2959	4.9	10.8	10.2	103
4736	5.0	10.2	10.1	101
4790	5.0	10.7	10.0	103
4794	5.0	10.1	10.9	102
5147	5.2	10.4	11.3	106
5351	4.9	9.6*	10.9	100
5501	4.9	10.1	10.1	100
6096	4.9	10.0	10.7	101
6313	5.2	9.9	10.6	102
6324	5.2	10.0	10.9	103
6500	5.0	10.2	9.9	101
6545	4.9	10.4	10.0	101
7194	5.0	10.4	9.4*	100
7262	4.9	10.6	9.4*	101
8034	4.8	11.6	9.3*	104
AVERAGE ANALYSIS	4.9	10.3	10.2	
COEFFICIENT OF VARIATION	2.4	4.5	5.8	
5 10 10S 4566 SEE NOTE 1	5.2	10.7	11.6	108
4985	4.9	10.3	10.0	101
7196 SEE NOTE 1	5.1	10.0	10.6	102
AVERAGE ANALYSIS	5.0	10.3	10.7	
COEFFICIENT OF VARIATION	3.0	3.3	7.5	
5 10 15S 3880	4.9	10.2	15.5	101
4667 SEE NOTE 4	4.7*	9.7	11.4*	90*
4703	4.9	10.3	15.0	101
4764	5.0	10.2	15.5	102
4785	4.9	10.1	15.6	101
4919	4.8	10.0	14.9	99
4983	5.1	10.2	15.0	101
5502	4.9	10.4	15.0	101
5514	4.9	10.2	15.0	100
6095 SEE NOTE 8	5.2	13.3	15.0	114
6522	5.0	10.5	14.4*	101
6540 SEE NOTE 1	5.6	10.4	14.1*	103
6544	4.7*	11.6	14.1*	103
7032	5.3	10.1	14.9	100
8011	4.9	10.9	15.7	104
8396	5.3	10.0	15.6	103
9043	5.2	10.0	15.2	102
AVERAGE ANALYSIS	5.0	10.3	14.8	
COEFFICIENT OF VARIATION	4.8	4.2	6.9	
5 10 15S WITH 0015 ALDRIN 6342 SEE NOTE 3	4.7*	10.4	15.3	100
5 20 20M 4567	5.1	19.5*	20.1	99
4666	5.1	19.7	20.0	100
4763	4.7*	19.9	20.8	100
4918	5.0	20.3	18.6*	99
6333	5.1	20.9	18.7*	102
8397	5.0	17.7*	22.3	102
AVERAGE ANALYSIS	5.0	19.6	20.0	
COEFFICIENT OF VARIATION	3.0	5.5	6.8	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRICHEM CO CONTINUED</i>				
6 8 6M	5.9	9.0	6.4	105
2877	6.0	8.6	6.9	105
6150	6.0	9.0	7.4	109
6314	5.2*	9.3	8.3	106
7261	5.7	8.9	7.2	
AVERAGE ANALYSIS	6.6	3.2	11.1	
COEFFICIENT OF VARIATION				
6 12 12M	6.0	11.9	12.2	100
1986	6.0	12.2	12.6	102
2875	6.0	12.4	11.8	101
2960	6.0	12.3	13.7	104
2990	6.0	11.9	13.4	102
4570	5.8	12.6	12.4	102
4582	6.0	12.6	12.4	103
4668	5.7*	12.0	12.7	100
4701	5.9	12.1	12.0	100
4702	6.0	12.0	13.2	102
4788	5.9	11.7	13.6	101
4795	5.9	12.2	12.1	100
4993	6.0	12.0	12.2	100
5161	5.8	12.0	12.1	99
5239	5.9	12.0	12.5	100
5352	6.0	12.6	11.7	102
5509	5.9	12.1	12.4	101
6092	5.9	12.6	12.4	102
6093	5.7*	12.0	13.0	100
6149	6.0	12.0	12.1	100
6246	5.8	12.3	12.0	100
6334	6.1	12.8	11.6*	103
6494	6.2	12.0	11.7	101
6520	6.0	12.2	12.2	101
6523	5.8	12.3	12.0	100
6615	5.6*	12.9	12.2	101
6620	5.8	12.4	12.1	101
6638	5.9	11.5*	11.2*	96*
7034	6.0	12.2	13.5	104
8012	5.9	12.5	11.6*	101
9045	6.0	12.0	12.0	100
9147	5.9	12.2	12.3	
AVERAGE ANALYSIS	2.1	2.5	5.0	
COEFFICIENT OF VARIATION				
6 12 18S	5.9	12.5	17.3*	100
4565	5.9	12.0	18.1	100
4699	5.6*	12.8	16.7*	99
4762	5.8	12.0	18.6	100
4791	5.8	12.8	17.2*	100
5353	5.7*	13.0	17.1*	100
5503	6.0	12.2	16.6*	98
5515 SEE NOTE 1	6.0	12.0	18.1	100
5629	5.6*	15.1	14.9*	103
6094 SEE NOTE 4	5.8	11.4*	15.9*	94*
6323 SEE NOTE 1 AND 4	5.9	12.8	16.6*	100
6332	6.0	12.4	17.8	101
6499	6.4	11.9	18.0	102
6621	6.3	11.8	17.7	100
6639	4.9*	14.5	15.2*	98
7195 SEE NOTE 8	6.0	11.4*	19.0	100
7386	6.0	12.1	19.0	102
8009	6.0	13.4	17.0*	103
8033	6.3	12.3	18.1	103
9044	6.1	12.6	17.5*	102
9145	5.9	12.4	17.4	
AVERAGE ANALYSIS	3.6	6.6	5.9	
COEFFICIENT OF VARIATION				
8 16 16M	8.0	15.6*	17.0	100
8035				

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>ARMOUR AGRICHEM CO CONTINUED</u>				
10 10 10M				
2876	9.4*	11.1	10.0	101
3881	9.7	10.6	9.6*	100
4787	9.8	10.3	10.5	101
4789	9.7	10.3	10.1	100
5510	9.7	10.3	10.2	100
5511	9.8	10.3	10.0	100
6009	9.7	10.2	10.3	100
6014	9.6*	10.5	10.0	100
6509 SEE NOTES 4 AND 8	7.0*	12.1	10.9	94*
6518	10.1	10.4	10.0	102
6539	9.8	10.7	9.7	101
7033	9.6*	10.3	10.5	100
8477	10.0	10.1	10.4	101
9128	9.8	10.1	10.7	100
9134	10.3	10.6	10.0	104
9136	9.9	10.1	10.7	101
9146	10.3	10.5	9.8	103
AVERAGE ANALYSIS	9.8	10.4	10.1	
COEFFICIENT OF VARIATION	2.5	2.5	3.2	
10 30 20M				
1985 SEE NOTE 4	9.5*	27.3*	21.4	95*
6521	10.4	28.4*	19.2*	97*
8395 SEE NOTE 8	7.8*	29.4*	23.0	96*
8476 SEE NOTE 4	10.0	29.1*	16.4*	96*
AVERAGE ANALYSIS	9.9	28.2	19.0	
COEFFICIENT OF VARIATION	4.5	3.2	13.1	
SUPERPHOSPHATE				
6496		21.2		106
6736		20.0		100
8394		20.1		100
9074		20.0		100
AVERAGE ANALYSIS		20.3		
COEFFICIENT OF VARIATION		2.8		
MURIATE OF POTASH				
9076			61.5	103
MURIATE OF POTASH WITH 5LB BORAX				
6028 SEE NOTE 2			60.0	100
MURIATE OF POTASH 10 LBS BORAX				
8215 SEE NOTE 2			59.2*	99
<u>ARMOUR AGRICHEM CO SANDUSKY OHIO</u>				
3 9 6M				
4642	3.3	9.3	6.3	105
<u>ARMOUR AGRICHEM CO NITROGEN DIV</u>				
AMMONIUM NITRATE				
3675	33.9			101
4569	33.6			100
5143	33.3			99
5362	33.5			100
5582	33.6			100
6029	33.7			101
AVERAGE ANALYSIS	33.6			
COEFFICIENT OF VARIATION	5			

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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)	
ASSOCIATED COOPERATIVES INC				
14 14 14M				
6631	14.7	12.9*	13.5*	99
8493	14.1	14.1	14.0	101
AVERAGE ANALYSIS	14.4	13.5	13.7	
COEFFICIENT OF VARIATION	2.9	6.2	2.5	
15 15 15M				
6632	15.9	15.1	15.1	103
8474	15.0	15.4	15.0	101
AVERAGE ANALYSIS	15.4	15.2	15.0	
COEFFICIENT OF VARIATION	4.1	1.3	.4	
AMMONIUM NITRATE				
4798	34.3			102
5250	34.2			102
9004	34.0			101
AVERAGE ANALYSIS	34.1			
COEFFICIENT OF VARIATION	.4			
CALCIUM METAPHOSPHATE				
3721		63.0		100
4568		62.9		101
4796		64.3		104
4799		62.1		102
4800		64.1		102
5245		63.9		103
AVERAGE ANALYSIS		63.3		
COEFFICIENT OF VARIATION		1.3		
BARTLETT & O BRYAN FERTILIZER CO				
0 20 20M				
3896		19.2*	19.5*	98
3 12 12M				
3706	3.0	12.5	13.5	106
7375	3.3	11.2*	12.6	100
AVERAGE ANALYSIS	3.1	11.8	13.0	
COEFFICIENT OF VARIATION	6.7	7.7	4.8	
4 12 8M				
3708	4.2	11.4*	8.5	100
5705	4.1	12.0	9.4	104
7219	4.0	12.3	8.4	102
7277	4.0	11.8	9.0	101
AVERAGE ANALYSIS	4.0	11.8	8.8	
COEFFICIENT OF VARIATION	2.3	3.1	5.2	
4 16 16M				
3704	4.1	16.6	16.8	104
7060	4.0	16.9	15.9	103
7325	3.9	18.0	17.4	109
7369	4.1	16.9	15.9	103
7372 SEE NOTE 8	5.1	16.0	13.8*	102
7374	4.5	16.0	16.4	103
7395	4.0	16.6	17.4	104
7396	4.5	15.4*	16.0	101
7397	4.5	16.4	15.6*	103
7398	3.9	17.6	15.0*	103
7399	4.2	16.1	17.1	103
7400	4.0	16.5	16.2	102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>BARTLETTE & O BRYAN FERT CO CONT</u>				
4 16 16M CONTINUED				
7401	4.0	16.8	15.3*	102
7402	4.3	16.0	15.4*	101
7403	4.3	16.4	15.8	103
7404	4.4	16.5	15.9	104
AVERAGE ANALYSIS	4.1	16.5	16.1	
COEFFICIENT OF VARIATION	5.2	3.8	4.6	
5 10 15S				
3707 SEE NOTE 1	4.8	10.6	15.3	102
5706	5.0	10.7	15.0	103
5720	5.0	10.3	15.2	102
7220	5.2	11.3	14.3*	105
7224 SEE NOTE 1	5.5	11.9	14.0*	109
7322	5.2	10.9	14.2*	103
7368	4.8	10.3	14.9	100
7376	4.8	10.4	15.3	101
AVERAGE ANALYSIS	5.0	10.8	14.7	
COEFFICIENT OF VARIATION	4.9	5.1	3.5	
5 20 20M				
7061	5.2	20.4	18.9*	100
7192	5.3	19.6*	20.1	100
7221	5.1	20.0	21.2	102
7223	5.3	20.3	20.1	102
7225	5.0	20.1	21.4	102
7232	5.5	20.0	20.0	102
7253 SEE NOTE 5	5.1	18.5*	18.6*	95*
7350	5.1	20.9	20.5	103
7373 SEE NOTE 5	5.1	18.8*	19.0*	96*
7377	4.6*	20.0	20.5	99
AVERAGE ANALYSIS	5.1	19.8	20.0	
COEFFICIENT OF VARIATION	4.5	3.6	4.7	
6 12 12M				
3705	6.7	12.8	9.8*	103
7218	6.0	12.2	12.6	102
7276	5.9	12.0	13.7	103
7379 SEE NOTE 8	6.0	11.5*	15.3	104
AVERAGE ANALYSIS	6.2	12.3	12.0	
COEFFICIENT OF VARIATION	7.0	3.3	16.7	
10 10 10M				
7063	9.1*	11.5	11.5	103
7193	11.9	9.3*	9.1*	106
7222	9.3*	11.6	12.9	107
7235	10.0	11.2	12.0	107
AVERAGE ANALYSIS	10.0	10.9	11.3	
COEFFICIENT OF VARIATION	12.6	9.9	14.2	
12 12 12M				
7062	11.2*	12.1	14.0	100
<u>BLUEGRASS PLANT FOODS INC CYNTHIANA</u>				
0 10 30M WITH 5 LB BORAX PER 100				
6134 SEE NOTE 2		10.6	29.3*	101
6306 SEE NOTE 2		9.3*	32.0	101
AVERAGE ANALYSIS		9.9	30.6	
COEFFICIENT OF VARIATION		9.2	6.2	
0 20 20M				
7287		19.4*	20.1	98

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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)	
3 9 6M				
5366	3.2	9.2	7.1	106
5389	3.9	9.7	7.7	117
5696 SEE NOTE 8	3.0	7.1*	15.0	116
AVERAGE ANALYSIS	3.5	9.4	7.4	
COEFFICIENT OF VARIATION	1.39	3.7	5.7	
4 8 12S				
7009 SEE NOTE 1 AND 8	4.3	7.1*	19.9	118
7294	4.1	8.8	12.4	106
4 12 8M				
5367	4.6	11.9	8.7	105
5672	4.3	11.8	8.9	103
5690	4.0	11.9	8.9	102
7010	3.6*	12.0	10.0	102
7159	4.2	11.1*	9.1	100
7163	4.0	11.9	8.9	102
AVERAGE ANALYSIS	4.1	11.7	9.0	
COEFFICIENT OF VARIATION	8.1	2.8	5.1	
4 12 8M WITH 0031 ALDRIN				
6289 SEE NOTE 3	4.1	11.8	8.8	102
7003 SEE NOTE 3	4.3	12.5	7.6*	103
AVERAGE ANALYSIS	4.2	12.1	8.2	
COEFFICIENT OF VARIATION	3.3	4.0	10.3	
5 10 10M				
5368	5.0	10.0	10.5	101
5390	5.6	9.9	10.3	104
6287	5.0	10.2	10.1	101
AVERAGE ANALYSIS	5.2	10.0	10.3	
COEFFICIENT OF VARIATION	6.6	1.5	1.9	
5 10 15S				
3834	5.1	10.2	14.9	101
5369	5.3	10.4	15.1	104
5620	5.3	10.5	14.6*	103
5673	5.1	10.0	15.0	101
5697	5.0	10.4	14.4*	100
6109	5.0	10.1	15.2	101
6133	5.1	10.0	15.0	101
6145	5.1	10.2	15.0	101
6288	5.1	10.2	14.7	101
6292	5.2	9.7	15.1	100
6423	5.1	10.2	15.0	101
6456	5.3	9.9	15.1	102
6649	5.0	10.0	15.0	100
6652	5.0	10.2	14.7	100
6675	4.9	10.4	13.9*	99
7007	5.1	10.2	14.8	101
7134	5.0	9.9	15.2	100
7149	5.1	10.3	14.7	101
7180	5.3	9.6*	15.1	100
7286	4.9	10.5	14.4*	100
7291	5.2	10.0	15.3	102
7295	5.0	10.0	14.6*	99
AVERAGE ANALYSIS	5.1	10.1	14.8	
COEFFICIENT OF VARIATION	2.4	2.3	2.2	
5 10 20S				
7139	5.1	10.5	19.0*	101
5 15 0 WITH 0031 ALDRIN				
7004 SEE NOTE 3	5.4	15.0		103

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>				
5 20 20M				
6108	5.1	19.0*	19.1*	97*
6418	5.2	19.9	19.5*	100
AVERAGE ANALYSIS	5.1	19.4	19.3	
COEFFICIENT OF VARIATION	1.3	3.2	1.4	
6 6 18S				
3835	6.0	6.4	17.9	101
6443	5.9	6.8	17.6*	102
6459	6.0	6.0	18.0	100
6672 SEE NOTE 1	5.6*	7.4	16.9*	101
6676	6.0	6.4	17.7	101
6680	6.1	6.4	17.7	102
7109	6.2	6.1	18.0	102
7129 SEE NOTE 1	5.8	6.7	17.1*	100
7132	6.0	6.5	18.2	103
AVERAGE ANALYSIS	5.9	6.5	17.6	
COEFFICIENT OF VARIATION	2.9	6.3	2.4	
6 6 18S WITH 0015 ALDRIN				
6458 SEE NOTES 1 AND 3	5.7*	6.7	16.9*	99
6 6 18S WITH 0020 ALDRIN				
6681 SEE NOTES 1 AND 3	6.0	6.7	18.0	103
7130 SEE NOTE 3	5.9	6.5	17.5*	100
AVERAGE ANALYSIS	5.9	6.6	17.7	
COEFFICIENT OF VARIATION	1.1	2.1	1.9	
6 8 6M				
6646	6.0	7.9	7.5	103
7008	6.3	7.8	6.5	103
AVERAGE ANALYSIS	6.1	7.8	7.0	
COEFFICIENT OF VARIATION	3.4	9	10.1	
6 8 6S				
5621	5.8	8.5	6.7	103
5674	6.0	8.4	6.2	103
5698	6.4	8.0	7.1	106
6577	6.1	8.0	6.6	102
6651	6.4	8.1	6.2	104
7160	6.0	8.2	6.6	103
7162	5.8	8.9	6.2	104
7284	6.2	8.4	6.2	104
7288	6.4	8.1	6.3	104
7296	6.2	9.0	6.0	107
AVERAGE ANALYSIS	6.1	8.3	6.4	
COEFFICIENT OF VARIATION	3.7	4.2	5.1	
6 8 12 9S 3M				
6410	6.0	8.0	12.0	100
6411	5.8	8.2	12.2	100
6442	6.0	8.3	11.7	101
AVERAGE ANALYSIS	5.9	8.1	11.9	
COEFFICIENT OF VARIATION	1.9	1.8	2.1	
6 12 18S				
3836	6.7	12.1	17.3*	103
6416	5.9	12.3	17.5*	100
7133	5.9	12.7	18.0	102
7285	5.9	12.5	18.0	101
AVERAGE ANALYSIS	6.1	12.4	17.7	
COEFFICIENT OF VARIATION	6.5	2.0	2.0	
6 12 18S WITH 0015 ALDRIN				
7136 SEE NOTE 3	6.2	11.5*	18.1	100

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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
BLUEGRASS PLANT FOODS INC CONTINUED				
8 10 15S	7.7*	10.7	15.0	101
1960	7.5*	10.9	15.1	101
6307 SEE NOTE 1	8.0	10.4	14.2*	100
7111	7.6*	10.8	14.7	100
7126	7.7	10.8	15.0	101
7289	7.7	10.7	14.8	
AVERAGE ANALYSIS	2.4	1.7	2.4	
COEFFICIENT OF VARIATION				
10 10 10M	10.2	10.3	10.1	102
5675	9.3*	11.4	10.6	102
6135	9.9	11.0	10.9	104
6293	10.1	10.7	10.0	103
6412	10.3	10.3	10.0	103
6414	9.9	10.3	10.0	101
6417	10.0	10.2	10.4	101
6673	10.0	10.1	10.0	100
7110	9.9	10.6	10.1	102
7131	10.2	10.0	10.2	101
7290	9.9	10.4	10.2	
AVERAGE ANALYSIS	2.7	4.1	3.0	
COEFFICIENT OF VARIATION				
10 10 10M WITH 0030 ALDRIN	9.5*	10.5	10.7	100
7135 SEE NOTE 3				
12 12 12M	11.7	13.7	12.0	103
5370	12.2	12.7	12.0	103
7138	11.9	13.2	12.0	
AVERAGE ANALYSIS	2.9	5.3		
COEFFICIENT OF VARIATION				
AMMONIUM SULFATE	19.7*			96*
6650	20.5			100
7005	20.1			
AVERAGE ANALYSIS	2.8			
COEFFICIENT OF VARIATION				
SUPERPHOSPHATE		18.8*		94*
6413				
SULFATE OF POTASH			51.0	102
6291				
MURIATE OF POTASH			57.0*	95*
6457				
BLUEGRASS PLANT FOODS INC DANVILLE				
0 10 20M WITH 2 LB BORAX PER 100		11.0	17.9*	100
8132 SEE NOTE 2				
0 10 30M WITH 5 LB BORAX PER 100		12.2	26.5*	102
8314 SEE NOTE 2				
0 20 20M		20.1	20.1	101
4842		18.5*	20.8	96*
8363		20.2	19.5*	100
8532		19.6	20.1	
AVERAGE ANALYSIS		4.8	3.2	
COEFFICIENT OF VARIATION				

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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)	
0 20 20M WITH 5LBS BORAX PER 100 2908 SEE NOTE 2		21.1	20.1	104
2 12 6M				
2901	2.9	12.2	6.9	111
9114	2.3	12.3	6.9	107
AVERAGE ANALYSIS	2.6	12.2	6.9	
COEFFICIENT OF VARIATION	1.63	5		
3 9 6M				
2909	3.2	9.3	7.2	107
8268	3.2	9.3	6.7	106
8277	3.4	9.6	6.8	110
8367	3.5	9.4	7.3	111
8370	3.3	9.3	6.7	107
AVERAGE ANALYSIS	3.3	9.3	6.9	
COEFFICIENT OF VARIATION	3.9	1.3	4.1	
3 12 12M				
2912	3.0	12.3	11.5*	100
8264	3.5	11.0*	11.6*	98
8284	3.5	12.0	12.5	104
8372	3.2	11.5*	12.5	102
8379	3.5	11.7	12.1	102
8380	3.2	12.0	11.7	101
8522	3.6	11.9	13.2	106
8539	3.2	12.2	11.3*	101
8540	3.2	12.3	11.2*	101
8651	3.2	12.0	12.0	101
AVERAGE ANALYSIS	3.3	11.8	11.9	
COEFFICIENT OF VARIATION	5.9	3.3	5.2	
4 12 8M				
2896	4.0	11.5*	8.9	100
2900	3.9	12.3	8.7	102
4628	4.0	11.4*	8.5	98
4841	4.1	12.1	8.3	102
4963	4.3	11.5*	9.4	103
5459	3.9	11.7	8.9	100
8127	4.0	11.3*	8.6	98
8273	4.1	11.4*	8.9	100
8281	4.3	11.2*	9.2	101
8288	4.3	11.3*	9.1	101
8371	4.2	11.5*	8.1	99
8375	4.1	11.5*	9.3	101
8381	4.1	11.7	8.5	100
8531	4.0	11.7	8.9	101
8534	4.1	11.6*	9.1	101
8647	4.0	12.2	7.8	100
AVERAGE ANALYSIS	4.0	11.6	8.7	
COEFFICIENT OF VARIATION	3.2	2.7	5.0	
4 12 8S				
7006	4.2	12.1	8.2	102
5 10 5M				
8291	5.2	9.5*	6.3	102
5 10 10M				
2913	5.0	10.0	10.5	101
4890	5.0	10.0	9.0*	98
8130	5.2	10.4	8.9*	101
8286	5.1	10.0	9.4*	99
8290	5.0	10.0	9.3*	98
8369	5.2	9.9	10.2	101
8377	5.3	10.0	10.1	102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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)	
BLUEGRASS PLANT FOODS INC CONTINUED				
5 10 10M CONTINUED				
8537	5.1	10.1	10.5	102
8538	5.1	10.7	10.4	105
8644	5.3	10.3	11.2	106
8646	5.5	10.2	11.1	107
AVERAGE ANALYSIS	5.1	10.1	10.0	
COEFFICIENT OF VARIATION	3.0	2.3	7.9	
5 10 10M WITH 0050 ALDRIN				
8275 SEE NOTE 3	4.7*	9.6*	10.0	96*
5 10 15S				
2915	5.0	9.7	15.3	99
4843	5.2	10.1	15.0	102
4891	5.2	10.0	15.4	102
4964	4.8	11.0	14.0*	101
7127	5.3	9.7	15.4	101
7128	5.3	9.8	15.5	102
8128 SEE NOTE 1	5.1	10.0	15.0	101
8214	5.2	10.1	15.0	102
8263	5.1	10.0	15.2	101
8267	5.2	10.2	15.5	103
8279	5.3	10.0	15.1	102
8373	5.1	10.0	15.0	101
8376	5.2	10.0	15.0	101
8521	5.1	9.9	15.2	101
8530	5.1	11.6	16.0	109
8641	5.3	10.0	15.0	102
9113 SEE NOTE 1	5.0	10.0	16.0	102
9123	5.3	9.7	15.0	101
AVERAGE ANALYSIS	5.1	10.1	15.2	
COEFFICIENT OF VARIATION	2.5	4.6	2.8	
5 15 0				
4895	5.3	13.9*		97*
8285	4.6*	15.9		101
AVERAGE ANALYSIS	4.9	14.9		
COEFFICIENT OF VARIATION	9.9	9.4		
5 15 0 WITH 0031 ALDRIN				
5460 SEE NOTE 3	5.3	13.5*		95*
8274 SEE NOTE 3	5.5	13.5*		97*
AVERAGE ANALYSIS	5.4	13.5		
COEFFICIENT OF VARIATION	2.6			
5 15 0 WITH 0060 ALDRIN				
2907 SEE NOTE 3	5.2	14.6*		100
5 20 20M				
2904	5.3	19.7	18.1*	98
2911	5.0	20.8	19.3*	101
8129	5.4	20.4	19.7	102
8265	5.3	20.0	20.2	101
8368	5.3	19.2*	19.2*	98
8378	5.2	20.2	20.8	102
8542	5.3	19.7	19.2*	99
8642	4.8	21.2	18.6*	101
8643	4.9	20.3	17.5*	97*
AVERAGE ANALYSIS	5.1	20.1	19.1	
COEFFICIENT OF VARIATION	4.1	3.0	5.3	
6 6 18M				
2914	6.1	6.8	17.3*	103
6 6 18S				
4896	6.2	6.4	18.0	103
8125	6.1	6.5	16.8*	100
8272	6.0	6.7	18.1	103
8312	6.2	6.3	17.4*	101
8366	6.2	6.3	18.6	104

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>6 6 18S CONTINUED</i>				
8541	6.3	7.1	16.6*	104
8650	6.0	7.0	17.5*	103
9122	6.3	6.5	18.0	104
AVERAGE ANALYSIS	6.1	6.6	17.6	
COEFFICIENT OF VARIATION	1.9	4.6	3.8	
<i>6 8 6M</i>				
4844	5.6*	9.3	8.5	110
5461	6.0	8.2	6.6	103
8276	6.0	8.8	7.8	109
8280	6.1	8.1	6.5	103
8648	6.6	9.2	8.0	116
AVERAGE ANALYSIS	6.0	8.7	7.4	
COEFFICIENT OF VARIATION	5.9	6.3	11.8	
<i>6 8 6S</i>				
2905	6.2	8.1	6.4	104
4892	6.1	7.9	6.6	102
4897	6.1	8.2	7.0	104
8126	6.1	8.1	6.5	103
8269	6.1	8.5	6.7	105
8287	6.1	8.0	7.0	103
8533	6.4	8.3	7.5	108
8645	6.5	8.1	7.5	108
8652	6.2	9.1	7.0	110
9115	6.6	8.1	6.1	105
AVERAGE ANALYSIS	6.2	8.2	6.8	
COEFFICIENT OF VARIATION	3.0	4.1	6.6	
<i>6 12 18S</i>				
6452	6.1	12.3	17.5*	101
8271	5.8	12.2	16.7*	98
8283	6.1	12.3	17.3*	100
AVERAGE ANALYSIS	6.0	12.2	17.1	
COEFFICIENT OF VARIATION	2.8	4	2.4	
<i>8 10 15S</i>				
2906	7.9	10.6	14.7	101
3815	7.9	10.6	15.0	102
4902	7.9	10.0	13.9*	98
8095 SEE NOTE 4	6.1*	11.2	14.4*	93*
AVERAGE ANALYSIS	7.4	10.6	14.5	
COEFFICIENT OF VARIATION	12.0	4.6	3.2	
<i>10 10 10M</i>				
2903	10.0	10.8	10.5	104
5462	9.8	11.2	10.1	103
6559	9.9	10.9	10.3	103
8131	9.5*	11.0	10.0	101
8270	10.0	10.9	10.7	104
8278	9.5*	10.9	10.1	101
8282	9.9	11.2	10.0	104
8313	9.9	11.2	10.9	105
8364	10.0	11.2	10.4	105
8382	9.9	10.8	10.3	103
8535	10.2	11.2	9.8	105
8536	9.2*	11.3	10.0	100
8649 SEE NOTES 4 AND 8	6.7*	10.5	13.2	91*
9121	10.0	10.9	10.3	104
AVERAGE ANALYSIS	9.8	11.0	10.2	
COEFFICIENT OF VARIATION	2.7	1.6	3.0	
<i>SUPERPHOSPHATE</i>				
2902		20.0		100
5463 SEE NOTE 5		18.3*		92*
8133		18.9*		95*
8266		19.9		100
8289		19.7		98
8365		19.3*		97*
8374		19.6*		98
AVERAGE ANALYSIS		19.3		
COEFFICIENT OF VARIATION		3.1		

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>BLUEGRASS PLANT FOODS INC CONTINUED</u>				
SULFATE OF POTASH 2910			50.5	101
MURIATE OF POTASH 8315			60.5	101
<u>BUNTON SEED COMPANY</u>				
6 12 6M 6216	6.3	13.5	9.2	115
6718	6.0	14.2	9.1	116
AVERAGE ANALYSIS	6.1	13.8	9.1	
COEFFICIENT OF VARIATION	3.4	3.5	.7	
10 12 6M 6717	9.4*	12.0	7.6	100
<u>BURLEY BELT PLANT FOOD WORKS INC</u>				
0 20 20M 3839		19.0*	20.7	98
3910 SEE NOTE 4		17.4*	20.4	92*
5845		21.4	21.7	108
AVERAGE ANALYSIS		19.2	20.9	
COEFFICIENT OF VARIATION		10.4	3.2	
0 20 20M WITH 25 LB BORAX PER 10 5812 SEE NOTE 2		19.4*	21.9	101
3 9 6M 3907	3.4	9.4	7.2	110
6473	3.6	9.3	7.5	112
AVERAGE ANALYSIS	3.5	9.3	7.3	
COEFFICIENT OF VARIATION	4.0	.7	2.8	
3 12 12M 3840	3.0	11.7	12.2	99
5839 SEE NOTE 8	4.3	16.2	15.6	135
6471	3.7	12.0	11.2*	103
7333 SEE NOTE 8	4.2	15.8	16.3	134
AVERAGE ANALYSIS	3.3	11.8	11.7	
COEFFICIENT OF VARIATION	14.7	1.7	6.0	
4 12 8M 3753	4.9	11.1*	10.1	107
3902	4.8	11.4*	8.3	103
4968	4.1	12.3	9.2	105
5823	4.1	11.4*	9.6	102
5841	4.3	11.7	8.7	102
5844	3.8	11.5*	9.6	100
6467	4.3	11.4*	8.1	100
7345	4.6	11.4*	9.2	104
7347	4.6	11.4*	8.3	102
7426	4.2	11.6*	9.7	103
AVERAGE ANALYSIS	4.3	11.5	9.0	
COEFFICIENT OF VARIATION	7.9	2.7	7.6	
4 16 4S 6142	4.6	15.6*	4.9	104
6244	4.3	15.2*	4.2	99
AVERAGE ANALYSIS	4.4	15.4	4.5	
COEFFICIENT OF VARIATION	4.7	1.8	10.8	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>BURLEY BELT PLANT FOOD WKS INC CONT</i>	(Percent)	(Percent)	(Percent)	
4 16 4S WITH 0029 ALDRIN 3752 SEE NOTE 3 AND 4	4.0	155*	5.2	100
4 16 4S WITH 0031 ALDRIN 3838 SEE NOTE 3 AND 4 6144 SEE NOTE 3 6243 SEE NOTE 3 AVERAGE ANALYSIS COEFFICIENT OF VARIATION	4.3 4.2 4.1 4.2 2.3	155* 155* 15.1* 15.3 1.5	4.5 5.6 4.2 4.7 15.4	101 103 97*
4 16 16M 4973 SEE NOTES 4 AND 8 6468 7342 AVERAGE ANALYSIS COEFFICIENT OF VARIATION	3.5* 4.4 4.7 4.5 4.6	21.1 14.9* 15.1* 15.0 .9	13.2* 15.3* 16.2 15.7 4.0	110 97* 101
5 10 10M 3754 3909 4972 5283 5813 5840 6463 6474 7250 7329 7338 7340 AVERAGE ANALYSIS COEFFICIENT OF VARIATION	5.0 4.3* 4.1* 4.4* 5.8 5.5 4.2* 4.1* 4.7* 5.1 5.6 5.5 4.8 13.1	10.1 11.4 9.9 10.0 10.0 10.1 10.4 10.0 10.0 9.9 9.9 10.3 10.1 4.1	10.0 10.0 10.3 9.7 10.2 10.1 10.0 10.1 10.3 10.0 10.1 10.1 10.0 1.5	100 102 94* 95* 106 104 96* 94* 99 100 104 105
5 10 15S 3751 3904 4974 SEE NOTE 1 5284 5811 5814 5824 SEE NOTE 1 5834 6143 6470 6476 7247 7327 7330 7334 7344 AVERAGE ANALYSIS COEFFICIENT OF VARIATION	4.8 4.7* 5.1 4.3* 4.8 5.0 4.6* 4.6* 5.0 4.8 4.7* 5.3 5.6 5.5 5.9 5.3 5.0 8.5	10.0 9.5* 10.1 10.5 9.9 10.0 10.3 10.4 10.4 9.3* 9.8 10.1 9.7 9.9 10.0 9.9 9.9 3.2	15.0 15.0 14.3* 15.0 15.0 15.0 14.6* 15.0 14.8 13.8* 15.0 14.7 15.0 15.0 13.7* 14.7 14.7 2.9	99 96* 100 98 98 100 98 99 101 94* 97* 102 102 103 103 101
5 10 20S 4970	4.5*	10.9	18.5*	98
5 20 20M 3841 SEE NOTE 4	5.0	17.3*	18.6*	91*
6 6 18M 3842	5.6*	6.5	18.0	100

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>BURLEY BELT PLANT FOOD WKS INC CONT</i>	(Percent)	(Percent)	(Percent)	
6 6 18S	6.4	6.4	16.1*	100
3903	5.5*	6.5	19.0	101
4971	6.0	6.8	18.0	103
5815	5.9	6.7	18.1	103
5816	6.0	6.8	18.2	104
5822	5.7*	6.7	18.0	101
5911	5.5*	7.2	16.9*	100
6245	6.2	7.1	15.6*	101
6469	6.3	6.7	17.0*	103
6573	5.5*	7.3	17.5*	101
7249	6.0	6.6	16.6*	100
7336	5.7*	6.4	17.8	99
7343	5.8	6.7	17.4	
AVERAGE ANALYSIS	5.3	4.3	5.6	
COEFFICIENT OF VARIATION				
6 6 18S WITH 0015 ALDRIN 7337 SEE NOTE 3	6.3	6.6	15.3*	99
6 6 18S WITH 0016 ALDRIN 5842 SEE NOTE 3	5.7*	6.9	17.8	101
AVERAGE ANALYSIS	6.0	8.3	7.3	
COEFFICIENT OF VARIATION				
6 8 6S	5.4*	8.4	6.5	99
3755	6.2	8.1	7.1	105
3906	5.7*	8.4	6.5	101
5285	6.0	8.3	6.4	103
5817	5.9	8.1	7.4	103
5818	5.8	8.1	6.5	100
5819	5.7*	8.3	7.1	102
5837	6.0	8.3	7.3	105
6464	5.9	8.2	6.5	102
7332	6.3	8.5	7.7	109
7341	5.8	8.2	6.9	
AVERAGE ANALYSIS	4.4	1.7	6.8	
COEFFICIENT OF VARIATION				
6 8 6S WITH 0015 ALDRIN 7348 SEE NOTE 3	6.0	8.4	7.0	105
8 10 15S	8.3	9.7	15.0	101
3757	8.2	9.7	15.1	100
3905	7.6*	9.5*	15.2	97*
4969	7.5*	10.0	14.7	97*
5820	7.3*	10.1	14.4*	96*
6466 SEE NOTE 1	7.8	9.9	15.1	99
7146	7.7*	10.1	15.3	99
7248	7.7*	9.8	15.0	98
7326	7.6*	10.0	15.0	98
7346	6.1*	11.2	14.4*	93*
8095 SEE NOTE 8	7.7	9.8	14.9	
AVERAGE ANALYSIS	4.1	2.0	1.8	
COEFFICIENT OF VARIATION				
8 10 15S WITH 0015 ALDRIN 5821 SEE NOTE 3	6.8*	10.0	14.1*	92*
10 6 4M 4966	9.6*	6.9	6.2	108

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>BURLEY BELT PLANT FOOD WKS INC CONT</u>				
10 10 10M				
3756	95*	10.6	10.2	100
3908	10.0	10.0	11.1	102
5835	9.4*	10.0	10.7	98
6472	10.1	9.5*	10.1	99
6475	9.5*	9.9	10.4	98
7328	8.5*	10.1	11.6	96*
7335 SEE NOTE 5	7.9*	10.0	11.8	93*
7339	10.1	9.7	10.3	100
AVERAGE ANALYSIS	9.3	9.9	10.7	
COEFFICIENT OF VARIATION	8.4	3.2	6.0	
12 12 12M				
3750	12.2	12.4	12.0	102
4967	12.0	12.3	12.1	101
AVERAGE ANALYSIS	12.1	12.3	12.0	
COEFFICIENT OF VARIATION	1.1	5	5	
<u>SUPERPHOSPHATE</u>				
3758		20.1		100
5836		19.3*		97*
6465		19.6*		98
7331		20.0		100
AVERAGE ANALYSIS		19.7		
COEFFICIENT OF VARIATION		1.8		
<u>SULFATE OF POTASH</u>				
5838			50.0	100
<u>CENTRAL FARMERS FERTILIZER COMPANY</u>				
46 TRIPLE SUPERPHOSPHATE				
5704		45.4*		99
6668		46.0		100
9083		47.1		102
AVERAGE ANALYSIS		46.1		
COEFFICIENT OF VARIATION		1.8		
<u>CHILEAN NITRATE SALES CORPORATION</u>				
15 0 14 NITRATE OF SODA POTASH				
5318	15.4		15.0	104
5532	15.2		15.0	103
AVERAGE ANALYSIS	15.3		15.0	
COEFFICIENT OF VARIATION	9			
NITRATE OF SODA				
5148	16.3			102
5317	16.1			101
AVERAGE ANALYSIS	16.2			
COEFFICIENT OF VARIATION	.8			
<u>COMMERCIAL SOLVENTS CORPORATION</u>				
AMMONIUM NITRATE				
3833	33.9			101
5270	33.8			101
AVERAGE ANALYSIS	33.8			
COEFFICIENT OF VARIATION	2			

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>COMMONWEALTH FERTILIZER COMPANY INC</i>	(Percent)	(Percent)	(Percent)	
0 20 20M				
5242		20.7	20.4	103
8324		20.9	21.4	105
8570		19.9	22.2	103
AVERAGE ANALYSIS		20.5	21.3	
COEFFICIENT OF VARIATION		2.5	4.2	
3 9 6M				
4925	3.3	10.0	6.5	110
6541	3.3	9.8	6.6	109
8018	3.3	10.9	5.7*	113
8320	3.2	9.3	7.5	108
8577	3.2	9.7	6.5	108
AVERAGE ANALYSIS	3.2	9.9	6.5	
COEFFICIENT OF VARIATION	1.6	5.9	9.7	
3 12 12M				
8017	3.1	12.0	12.4	102
8180	3.7	11.4*	11.7	101
8323	3.0	11.8	13.2	102
8341	3.3	11.4*	13.1	102
8342	3.1	11.5*	13.1	101
AVERAGE ANALYSIS	3.2	11.6	12.7	
COEFFICIENT OF VARIATION	8.6	2.3	5.0	
4 12 8M				
2995	4.3	12.0	9.5	105
5243	4.7	11.6*	9.5	106
5736	4.1	12.3	8.0	102
8094	4.3	12.0	9.0	104
8177	4.4	12.5	8.6	106
8321	4.3	12.0	8.9	104
8322	4.4	12.3	8.0	104
8343	4.4	12.5	8.4	106
8409	4.4	11.6*	9.0	103
8575	4.2	12.3	8.1	103
8576	4.1	11.7	9.3	102
8581	4.4	12.1	8.5	104
8698	4.0	12.4	9.9	106
AVERAGE ANALYSIS	4.3	12.1	8.8	
COEFFICIENT OF VARIATION	4.1	2.6	7.0	
4 12 8M WITH 0050 ALDRIN 8344 SEE NOTE 3	4.2	13.4	7.6*	107
5 10 15S				
2994	4.7*	10.3	15.9	101
6543	4.7*	10.7	14.5*	100
8181	4.8	11.0	13.9*	101
8336	5.0	10.9	14.3*	102
8337	5.1	10.5	15.7	104
8404	5.1	10.3	15.3	102
8405	5.2	10.4	15.0	103
8406	5.1	10.4	15.1	100
8571	5.3	10.0	15.4	103
8697	5.0	10.2	15.6	102
AVERAGE ANALYSIS	5.0	10.4	15.0	
COEFFICIENT OF VARIATION	4.1	2.9	4.3	
5 10 15S WITH 0030 ALDRIN 8403 SEE NOTES 1 AND 3	5.6	10.6	14.6*	105

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>COMMONWEALTH FERT CO INC CONTINUED</i>	(Percent)	(Percent)	(Percent)	
5 20 20M				
4926 SEE NOTE 5	5.4	18.2*	19.0*	95*
8014	5.1	20.0	20.2	101
8179	5.2	19.7	19.9	100
8182	5.4	19.8	20.2	101
8326	5.0	20.0	21.7	102
8338	5.3	19.4*	20.2	100
8339	5.3	19.4*	20.5	100
8569	4.7*	19.5*	19.4*	97*
8580	5.2	20.0	19.4*	100
8655	4.8	18.9*	21.5	98
8712	5.2	20.0	20.6	102
AVERAGE ANALYSIS	5.1	19.5	20.2	
COEFFICIENT OF VARIATION	4.4	2.8	4.1	
6 12 12M				
4927	6.6	11.9	13.0	105
5737	6.0	11.7	13.7	102
8015	5.7*	12.0	12.4	99
8178	6.0	11.2*	12.2	97*
8183	6.2	12.6	12.1	104
8328	6.5	12.1	13.4	106
8407	6.3	11.8	12.7	102
8408	6.2	12.1	13.7	105
8410	6.4	11.6*	12.6	102
8573	6.0	12.5	11.8	101
8574	6.1	11.9	13.7	103
8582	5.8	12.1	13.2	101
8699	6.6	11.8	13.0	104
AVERAGE ANALYSIS	6.1	11.9	12.8	
COEFFICIENT OF VARIATION	4.6	3.0	5.0	
10 10 10M				
4924	9.3*	11.3	10.4	102
6542	9.6*	10.8	10.1	101
8016	9.4*	10.3	12.3	104
8184	10.0	11.0	11.4	106
8325	9.9	10.3	10.7	102
8340	10.0	10.6	11.5	105
8411	10.3	10.0	10.1	102
8412	9.4*	11.5	10.1	102
8413	9.0*	11.0	11.2	100
8414	9.3*	11.1	10.1	100
8572	9.7	10.9	10.3	102
8578	10.5	10.2	10.1	103
8579	10.0	10.4	10.1	102
8656	10.7	10.5	10.0	105
8700	9.9	10.3	10.7	102
AVERAGE ANALYSIS	9.8	10.6	10.6	
COEFFICIENT OF VARIATION	4.8	4.1	6.5	
SUPERPHOSPHATE				
5738		20.3		102
8019		20.5		103
8327		21.1		105
AVERAGE ANALYSIS		20.6		
COEFFICIENT OF VARIATION		2.0		
SULFATE OF POTASH				
5241			50.5	101
<i>COOPERATIVE FERT SERVICE BRISTOL VA</i>				
0 20 20M				
5136		21.1	20.0	104

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960
 Analyses deficient more than tolerance 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
COOPERATIVE FERT SERVICE CONTINUED				
2 12 12M	2.4	13.0	12.5	109
5137	2.2	12.4	12.6	105
5536	2.3	12.7	12.5	
AVERAGE ANALYSIS	6.1	3.3	5	
COEFFICIENT OF VARIATION				
5 10 5M	5.0	11.2	5.8	108
5531				
5 10 10M	5.2	10.4	10.2	104
4636	5.5	11.3	10.2	110
5138	5.1	10.9	10.7	106
5537	5.2	10.8	10.3	
AVERAGE ANALYSIS	3.9	4.1	2.7	
COEFFICIENT OF VARIATION				
6 12 12M	6.3	12.5	12.0	104
5139				
10 10 10M	10.2	10.6	10.1	103
5140	9.8	10.8	10.7	103
5538	10.0	10.7	10.4	
AVERAGE ANALYSIS	2.8	1.3	4.0	
COEFFICIENT OF VARIATION				
10 20 20M	10.7	21.0	20.1	105
5141	9.6*	19.3*	21.0	98
5539	10.1	20.1	20.5	
AVERAGE ANALYSIS	7.6	5.9	3.0	
COEFFICIENT OF VARIATION				
COOPERATIVE FERT SERVICE LOUISVILLE				
0 19 38M WITH 4LBS BORAX PER 100		20.1	39.0	104
4593 SEE NOTE 2		20.6	39.0	106
4851 SEE NOTE 2		19.2	40.4	104
4946 SEE NOTE 2		20.1	38.2	103
8070 SEE NOTE 2		19.0	38.5	101
8359 SEE NOTE 2		19.8	39.0	
AVERAGE ANALYSIS		3.4	2.1	
COEFFICIENT OF VARIATION				
0 30 30M		29.5*	30.7	100
4669		29.6	30.0	99
4850		31.0	29.7	102
4873		30.3	29.8	100
4943		31.0	30.0	102
6130		30.5	30.0	101
6206		30.6	29.4*	101
8360		30.3	29.9	
AVERAGE ANALYSIS		2.0	1.3	
COEFFICIENT OF VARIATION				
3 12 12M	3.3	12.3	12.5	104
2893	3.2	12.2	13.2	105
4574	3.1	12.0	12.6	102
4623	3.1	12.5	12.4	104
4717	3.3	12.6	12.4	106
6177	3.2	12.6	12.4	105
6300	3.3	12.4	12.4	105
8109	3.1	12.3	12.4	103
9006	3.2	12.3	12.5	
AVERAGE ANALYSIS	2.8	1.6	2.2	
COEFFICIENT OF VARIATION				

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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)	
4 12 4S				
2925	4.3	12.1	4.2	103
2977	4.1	12.8	4.0	105
3731	4.1	12.3	4.2	103
3748	4.1	12.5	4.0	103
3783	4.2	12.7	4.2	106
3817	4.2	12.6	4.1	105
3992	4.1	12.5	4.2	104
4601	4.0	12.3	4.0	102
4632	4.1	12.5	4.2	104
5198	4.1	12.6	4.1	104
5205	4.1	12.6	4.1	104
5286	4.2	13.0	4.2	107
5329	4.3	12.5	4.1	105
6022 SEE NOTE 1	4.0	12.9	5.2	108
6057	4.0	12.8	4.9	106
AVERAGE ANALYSIS	4.1	12.5	4.2	
COEFFICIENT OF VARIATION	2.3	1.9	8.0	
4 12 4S WITH 0025 HEPTACHLOR				
3784 SEE NOTE 3	4.2	12.5	4.2	105
3941 SEE NOTE 3	4.1	12.5	4.2	104
5289 SEE NOTE 3	4.0	12.5	4.2	103
5476 SEE NOTE 3	4.1	13.0	4.4	107
AVERAGE ANALYSIS	4.1	12.6	4.2	
COEFFICIENT OF VARIATION	1.9	1.9	2.3	
4 12 8M				
4614	4.2	12.0	8.5	103
4624	4.3	12.1	8.1	103
4942	4.2	12.6	8.4	105
4986	4.0	12.4	8.4	103
6106	4.4	11.7	9.1	104
6299	4.2	12.3	8.4	104
8071	4.3	12.4	9.0	106
AVERAGE ANALYSIS	4.2	12.2	8.5	
COEFFICIENT OF VARIATION	2.9	2.4	4.2	
4 12 8S				
1979	4.1	12.7	4.4	105
5 10 15S				
1927	5.3	10.1	15.1	102
1949	5.3	10.3	14.9	103
1967	5.0	10.8	15.0	103
3944	5.0	10.3	15.5	102
4615	5.3	10.1	15.2	103
4670	5.0	10.7	15.0	103
4872	5.1	10.7	14.6*	103
6059	5.0	10.6	14.4*	101
AVERAGE ANALYSIS	5.1	10.4	14.9	
COEFFICIENT OF VARIATION	2.9	2.7	2.2	
5 20 20M				
1951	5.1	20.7	19.7	102
2978	5.1	19.7	20.0	100
3768	5.1	20.2	20.5	102
3939	5.1	19.6*	20.0	99
3943	5.2	20.2	20.0	101
4715	5.2	20.7	19.5*	102
4849	5.2	20.1	20.2	101
4947	5.1	21.0	19.5*	102
5123	5.3	20.1	20.0	101
5789	5.2	20.0	20.0	101
6107	5.2	19.9	20.4	101
6176	5.3	20.0	20.2	101
6303	5.2	20.3	20.0	102
8068	5.3	20.0	20.0	101
8108	5.3	19.4*	20.5	100
8199	5.0	19.7	21.1	101
8361	5.4	19.9	21.0	103
8451	5.1	20.5	20.1	102
AVERAGE ANALYSIS	5.1	20.1	20.1	
COEFFICIENT OF VARIATION	1.9	2.0	2.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>				
6 8 6S				
3816	6.0	9.3	6.2	107
3942	6.2	8.7	6.5	106
5232	6.0	8.7	6.1	104
6058	6.0	10.7	6.2	114
6110	6.1	8.3	6.3	103
6406	6.1	8.7	6.3	108
6566	6.1	8.6	6.5	105
8067	6.1	9.4	6.4	109
AVERAGE ANALYSIS	6.0	9.0	6.3	
COEFFICIENT OF VARIATION	1.1	8.3	2.3	
6 12 12M				
1952	6.2	12.4	12.0	103
1976	6.0	12.2	12.3	101
4672	6.4	12.6	12.5	105
4716	6.2	12.5	12.5	104
4949	6.2	12.6	12.5	104
6373	6.2	12.3	12.2	103
6567	6.5	12.2	12.4	104
6595	6.0	12.4	12.4	102
8153	6.3	12.5	12.4	104
8200	6.1	13.0	13.5	107
8362	6.3	12.2	12.4	103
8441	6.3	12.0	12.1	102
9005	6.3	12.4	12.0	103
AVERAGE ANALYSIS	6.2	12.4	12.4	
COEFFICIENT OF VARIATION	2.3	2.0	3.0	
10 10 10M				
1931	10.4	10.2	11.1	105
1950	10.7	10.1	10.5	105
2976	10.2	10.7	10.3	104
3782	10.3	10.1	10.5	103
3789	10.6	10.2	10.2	104
3818	10.6	10.1	10.1	104
3915	10.3	10.6	10.5	104
4671	10.7	10.3	10.3	105
4900	9.6*	11.4	10.5	104
4995	10.4	10.6	10.1	104
5181	10.2	10.3	10.4	103
5299	10.0	10.6	10.5	103
5407	10.6	10.4	10.9	106
5554	10.4	10.5	10.2	104
6298	10.8	10.2	10.7	106
6568	10.5	10.5	10.1	104
6596	10.6	10.5	10.5	106
7070	10.5	10.4	10.2	104
8142	10.9	10.1	10.7	106
9002	10.5	10.5	10.4	105
AVERAGE ANALYSIS	10.4	10.4	10.4	
COEFFICIENT OF VARIATION	2.8	2.9	2.5	
10 10 10M WITH 0040 HEPTACHLOR 5182 SEE NOTE 3	10.0	10.2	10.1	101
10 30 20M 9003	9.9	29.4*	21.1	100
<i>SUPERPHOSPHATE</i>				
1928		20.0		100
6271		20.4		102
6405		20.2		101
8069		20.0		100
AVERAGE ANALYSIS		20.1		
COEFFICIENT OF VARIATION		.9		
46 TRIPLE SUPERPHOSPHATE 6207		45.5		99
CALCIUM METAPHOSPHATE 2979		64.0		102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>COOPERATIVE FERT SERVICE CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
MURIATE OF POTASH				
1966			60.0	100
5246			60.0	100
AVERAGE ANALYSIS				
COEFFICIENT OF VARIATION				
<u>COOPERATIVE FERT SERV RUSSELLVILLE</u>				
O 19 38M WITH 4 LB BORAX PER 100				
6753 SEE NOTE 2		20.1	38.0	103
O 30 30M				
5233		31.2	29.2*	102
5924		30.1	30.5	101
8024 SEE NOTE 4		38.2	22.9*	110
8245		31.6	29.8	103
8415		31.8	30.0	104
9022		31.4	30.0	103
AVERAGE ANALYSIS				
COEFFICIENT OF VARIATION				
4 12 8M				
1938	4.8	13.2	9.1	103
1948	4.6	12.4	7.7*	101
3660	4.7	12.0	9.4	108
4576	4.2	12.0	9.4	105
4588	4.3	12.4	8.3	105
4645	4.2	12.3	8.4	104
5124	4.4	11.9	9.1	105
5131	4.3	12.0	8.6	103
5151	4.6	12.1	8.8	106
8020	4.3	12.6	8.4	106
8162	4.2	12.6	8.4	105
9141	4.1	12.1	9.1	104
AVERAGE ANALYSIS				
COEFFICIENT OF VARIATION				
5 10 15S				
1939	4.9	9.6*	15.0	98
1946	5.4	10.0	15.0	102
3723	5.5	10.3	14.7	104
3878	5.0	10.2	15.0	101
4571	5.1	10.8	14.3*	102
4586	5.3	10.4	15.1	104
4945	5.2	10.6	14.5*	103
5125	5.3	10.0	14.8	101
5132	5.4	10.0	15.0	102
5152	5.0	10.2	14.6*	100
5160	5.3	10.5	14.5*	103
9144	5.1	10.1	14.7	100
AVERAGE ANALYSIS				
COEFFICIENT OF VARIATION				
5 20 20M				
1936	5.6	19.9	20.4	103
1945	5.6	19.4*	20.7	102
1995	5.1	20.0	20.2	101
2891	5.6	20.3	20.2	103
2943	5.6	19.4*	20.7	102
3719	5.2	20.4	20.7	103
3877	5.6	20.3	19.5*	103
3879	5.3	19.1*	21.8	101
4577	5.4	20.0	19.3*	101
4585	5.8	20.2	19.2*	103
4595	5.5	20.1	20.0	102
4644	5.6	19.3*	20.6	101
4874	5.3	19.7	20.2	101
4915	5.7	19.1*	20.4	101

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>				
5 20 20M CONTINUED				
4948	5.3	20.4	20.3	103
5126	5.7	20.0	20.0	103
5133	5.6	20.3	19.2*	102
5153	5.6	20.2	20.0	103
5247	5.4	20.0	21.0	103
5408	5.3	19.9	20.5	102
6749	5.5	20.6	19.2*	103
8021	5.3	19.9	18.7*	99
8072	5.8	20.7	19.0*	104
8105	5.3	19.6*	18.2*	98
8137	5.6	19.6	19.3*	100
8160	5.3	20.4	18.2*	100
8393	5.7	19.8	20.0	102
8501	5.8	21.0	19.0*	105
9143	5.6	19.6	20.5	102
AVERAGE ANALYSIS	5.5	19.9	19.8	
COEFFICIENT OF VARIATION	3.4	2.3	4.2	
6 12 12M				
1937	6.5	12.0	12.4	104
1947	6.0	12.0	12.4	101
3661	6.5	12.3	11.8	104
3718	6.0	12.4	12.0	101
4575	5.8	12.4	11.9	100
4590	6.7	12.0	12.5	105
4944	6.4	12.4	11.8	103
5127	6.2	12.6	12.4	104
5134	6.1	12.1	12.2	101
5154	6.2	12.3	12.1	102
6728	5.7*	12.4	12.0	100
8152	6.4	12.3	12.4	104
9140	6.6	12.3	12.5	105
AVERAGE ANALYSIS	6.2	12.2	12.1	
COEFFICIENT OF VARIATION	4.9	1.5	2.1	
10 20 20M				
2942	10.0	20.3	18.9*	99
3702	10.0	19.9	19.4*	99
3720	10.0	20.2	19.6	100
3940	9.7	21.5	19.0*	101
3952	10.1	19.7	19.6	99
4584	10.0	20.1	18.9*	99
4594	10.2	19.7	19.6	100
4646	10.3	20.0	19.1*	100
5409	9.6*	21.4	19.6	101
8023	10.0	20.0	19.1*	99
8161	10.0	20.0	19.2*	99
AVERAGE ANALYSIS	9.9	20.2	19.2	
COEFFICIENT OF VARIATION	1.9	3.0	1.5	
10 30 20M				
2892	11.2	31.6	17.4*	104
2944	10.4	30.2	19.8	101
3951	10.6	30.5	18.4*	101
4573	10.1	29.4*	20.5	100
4633	10.2	29.4*	20.0	99
4651	9.8	27.1*	21.1	95*
4754	10.4	28.9*	19.9	99
4757	10.0	29.9	19.4*	99
4837	10.0	30.3	19.7	100
4845	10.3	30.2	19.6	101
4852	10.1	29.2*	20.4	99
4853	9.8	28.8*	20.2	97*
5128	10.0	27.3*	20.7	96*
5135	10.9	31.8	18.6*	104
5155	10.8	30.9	20.1	104
5248	11.0	31.7	18.5*	104
5384	10.2	30.0	19.5*	100
5410	10.4	30.0	20.0	101
5600	10.8	30.7	18.4*	102
5607	9.4*	29.0*	22.3	99
5664	9.4*	28.4*	21.7	97*
5669	11.0	28.3*	22.4	102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>				
6011	10.2	30.2	19.9	101
6115	10.4	29.5	19.4*	100
6171	10.5	29.4*	19.2*	100
8022	10.2	29.6	19.5*	99
8073	10.2	29.7	20.0	100
8106	10.6	30.6	18.2*	101
8107 SEE NOTE 4	9.7	27.9*	20.5	96*
8138	10.3	28.0*	20.1	97*
8139	10.3	28.7*	19.5*	98
8140	10.4	29.5	20.2	100
8151	10.0	29.3*	20.0	99
8159	9.8	28.3*	20.0	96*
8185	10.1	29.1*	20.3	100
8241	10.8	31.4	18.2*	103
8392	10.3	31.5	18.1*	102
8449 SEE NOTE 4	9.1*	28.3*	22.0	96*
AVERAGE ANALYSIS	10.2	29.5	19.8	
COEFFICIENT OF VARIATION	4.4	4.0	5.7	
<i>12 12 12M</i>				
1996	12.3	12.0	12.1	101
2890	11.8	12.2	12.0	100
2962	11.7	12.3	12.4	100
3722	12.8	12.5	12.1	105
3767	11.7	12.7	12.6	102
3876	12.8	12.5	12.0	105
3949	12.7	13.1	12.0	106
4572	12.2	12.5	11.7	102
4589	12.1	12.0	11.5*	100
4643	11.9	12.5	12.0	101
4704	12.0	12.3	12.0	101
5129	12.2	12.0	12.1	101
5156	12.1	12.1	12.0	101
5249	12.0	12.5	12.4	102
5411	12.7	12.8	12.1	105
5601	12.5	12.7	12.1	104
5608	12.5	12.8	12.6	105
5654	12.2	13.0	12.4	104
5670	12.3	13.1	12.4	105
6010	11.9	12.4	11.8	100
6750	12.3	11.9	12.1	101
7147	12.4	12.8	12.2	104
8141	11.7	12.3	12.1	100
8242	11.5*	13.0	11.9	101
9082	12.2	13.2	12.2	104
9142	12.8	12.4	12.0	104
AVERAGE ANALYSIS	12.2	12.5	12.1	
COEFFICIENT OF VARIATION	3.0	3.0	2.0	
<i>20 52 0</i>				
7049	20.5	52.9		102
<i>AMMONIUM NITRATE</i>				
7047	34.0			101
<i>SUPERPHOSPHATE</i>				
5130		20.5		103
8074		20.6		103
AVERAGE ANALYSIS		20.5		
COEFFICIENT OF VARIATION		3		
<i>46 TRIPLE SUPERPHOSPHATE</i>				
4697		46.2		101
6170		46.0		100
7046		45.6		99
AVERAGE ANALYSIS		45.9		
COEFFICIENT OF VARIATION		.6		
<i>CALCIUM METAPHOSPHATE</i>				
7048		64.0		102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960
Analyses deficient more than tolerance 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>COOPERATIVE FERT SERVICE CONTINUED</u>				
MURIATE OF POTASH 4583			60.0	100
<u>COOPERATIVE FERT SERVICE WINCHESTER</u>				
0 19 38M WITH 4 LB BORAX PER 100		21.2	39.2	107
6669 SEE NOTE 2		20.3	40.0	106
6755 SEE NOTE 2		20.7	39.6	
AVERAGE ANALYSIS		3.0	1.4	
COEFFICIENT OF VARIATION				
0 30 30M		32.5	29.7	105
3787		30.2	31.7	102
5176		31.0	30.0	102
5199		31.7	30.0	104
5222		30.4	30.7	102
5383		31.6	30.0	104
5555		30.0	30.2	100
5663		31.1	30.0	102
5671		31.9	30.5	105
5784		30.4	28.3*	99
5790		31.8	30.5	105
7071		31.1	30.1	
AVERAGE ANALYSIS		2.6	2.7	
COEFFICIENT OF VARIATION				
4 12 4S WITH 0025 HEPTACHLOR 4899 SEE NOTE 3	4.1	12.6	4.1	104
4 12 8M				
3693	4.2	12.2	8.1	103
3703	4.3	11.7	8.6	102
3749	4.3	11.8	8.9	103
3948	4.3	12.0	8.4	103
4653	4.1	11.8	8.1	100
4889	4.1	11.8	8.7	101
5162	4.3	12.5	8.4	105
5173	4.3	11.7	8.6	102
5296	4.1	12.1	8.1	101
5477	4.1	12.0	8.3	101
5477	4.2	11.9	8.7	103
5602	4.4	12.0	8.7	104
5609	4.1	12.0	8.3	101
5666	4.1	12.0	8.1	101
6602	4.1	12.0	8.4	102
7178	4.0	11.9	8.6	101
9096	4.1	11.9	8.4	
AVERAGE ANALYSIS	2.7	1.6	3.0	
COEFFICIENT OF VARIATION				
5 10 15S				
1975	5.0	10.2	15.0	101
1980	5.0	10.1	14.9	100
3682	5.1	10.1	15.1	101
3694	5.0	10.2	14.9	101
3732	5.1	10.0	15.0	101
3950	5.2	10.1	15.0	102
4898	5.1	10.6	15.0	103
5163	5.0	10.2	15.2	101
5174	5.1	10.2	15.0	101
5287	5.0	10.6	14.8	102
5478	5.0	10.4	14.6*	101
5560	5.0	10.5	14.4*	99
5610	5.0	10.3	15.0	101
6579	5.2	9.9	15.2	101
6603	5.1	9.9	15.0	100
7024	5.1	10.6	15.0	103
7150	4.9	10.8	14.2*	101
9021	5.1	10.6	14.8	103
9099	5.1	10.4	14.7	102
AVERAGE ANALYSIS	5.0	10.3	14.8	
COEFFICIENT OF VARIATION	1.5	2.5	1.7	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>				
5 20 20M				
3734	5.1	20.4	19.6	101
3947	5.1	19.4	21.2	100
4650	5.0	22.1	20.4	106
5207	5.9	22.2	18.8*	108
5603	4.9	20.2	20.5	101
5612	5.0	19.9	20.5	100
5782	5.0	19.5*	21.1	100
5807	5.0	20.0	20.5	101
5809	5.0	20.4	20.2	101
6580	5.0	19.6*	21.4	101
7148	5.1	19.7	19.6	99
7151	5.0	19.2*	22.4	101
7177	4.9	19.9	20.0	99
9098	5.0	20.0	21.0	101
AVERAGE ANALYSIS	5.0	20.1	20.5	
COEFFICIENT OF VARIATION	4.8	4.4	4.3	
6 6 18S				
1932	6.1	6.2	18.1	102
1977	6.0	6.4	17.9	101
1981	6.1	6.3	17.9	102
3683	6.2	5.8	18.4	101
4616	6.1	6.6	18.1	103
5204	6.1	6.7	17.5*	103
5297	5.9	7.1	17.0*	102
5479	6.0	6.5	18.2	103
5783	6.0	6.4	18.2	102
5808	6.1	6.4	18.0	102
5810	6.0	6.6	18.0	103
6263	6.2	6.5	17.9	103
6461	6.0	6.3	18.0	101
6582	6.2	6.5	17.5*	102
7023	6.3	6.4	18.0	104
8524	6.1	6.6	17.5*	102
9126	6.3	6.5	17.7	103
AVERAGE ANALYSIS	6.1	6.4	17.8	
COEFFICIENT OF VARIATION	1.8	4.0	1.9	
6 8 6S				
1933	6.0	8.0	6.4	101
1978	5.9	8.6	6.5	104
3788	6.1	8.2	6.1	102
3923	6.0	8.1	6.7	102
3991	6.1	8.3	6.1	103
4961	6.0	8.0	6.2	101
5164	5.9	8.1	6.2	100
5175	6.1	8.1	6.1	102
5288	6.0	9.1	6.2	106
5604	6.1	8.5	6.1	104
5611	6.0	8.6	6.1	103
5665	6.0	8.2	6.1	101
AVERAGE ANALYSIS	6.0	8.3	6.2	
COEFFICIENT OF VARIATION	1.1	3.9	3.1	
6 12 12M				
3692	6.1	12.5	12.0	102
3701	6.1	12.0	12.0	101
3733	6.1	11.9	12.2	101
3922	6.3	12.1	12.6	103
4652	6.1	12.4	12.2	102
4888	6.0	11.9	12.6	101
5179	6.3	12.2	12.2	103
5200	6.0	12.6	11.9	102
5298	6.0	12.2	12.1	101
5556	6.3	11.7	12.1	101
5605	6.0	11.7	12.2	99
5662	6.1	11.9	12.0	100
6581	6.0	11.8	12.6	100
7011	6.2	12.0	12.0	101
7072	6.0	11.9	12.0	100
9097	6.2	11.6*	12.2	98
AVERAGE ANALYSIS	6.1	12.0	12.1	
COEFFICIENT OF VARIATION	1.8	2.4	1.8	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>COOPERATIVE FERT SERVICE CONTINUED</u>				
12 12 12M	12.1	12.5	12.2	102
4901	12.1	12.5	12.1	102
5180	12.1	12.5	12.1	102
5188	12.2	12.5	12.1	102
5201	12.1	12.5	12.1	102
5221	12.5	12.4	12.2	103
5559	12.1	12.4	12.1	
AVERAGE ANALYSIS	1.3	3	4	
COEFFICIENT OF VARIATION				
SUPERPHOSPHATE				
5177		20.1		100
5202		20.9		105
5606		19.1*		95*
AVERAGE ANALYSIS		20.0		
COEFFICIENT OF VARIATION		4.5		
46 TRIPLE SUPERPHOSPHATE				
5917		45.3*		98
9023		45.8		99
AVERAGE ANALYSIS		45.5		
COEFFICIENT OF VARIATION		.7		
CALCIUM METAPHOSPHATE				
5557		64.3		102
SULFATE OF POTASH				
5480			50.0	100
5613			51.0	102
AVERAGE ANALYSIS			50.5	
COEFFICIENT OF VARIATION			1.4	
MURIATE OF POTASH				
5203			60.5	101
5561			60.0	100
AVERAGE ANALYSIS			60.2	
COEFFICIENT OF VARIATION			5	
<u>DARLING & COMPANY CAIRO ILLINOIS</u>				
4 12 8M	4.5	11.5*	9.0	103
5489	5.0	12.0	9.8	111
5638	5.0	11.6*	9.4	108
5655	4.6	11.5*	8.3	103
6343	4.7	11.6	9.1	
AVERAGE ANALYSIS	5.5	2.0	7.0	
COEFFICIENT OF VARIATION				
5 10 15S	5.3	9.7	16.0	103
5490	5.2	10.7	14.4*	103
5639	5.2	10.2	15.2	
AVERAGE ANALYSIS	1.3	6.9	7.4	
COEFFICIENT OF VARIATION				
5 20 20M	5.1	21.2	19.2*	103
6316	5.1	20.7	19.1*	101
6618	5.1	20.9	19.1	
AVERAGE ANALYSIS		1.6	3	
COEFFICIENT OF VARIATION				

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>DARLING & COMPANY CONTINUED</u>				
6 12 12M				
1940	6.2	14.4	14.0	114
5625	6.2	12.6	12.6	104
5640	6.1	12.5	12.5	103
5656	6.0	12.8	12.4	104
6315	6.1	13.3	12.0	105
6344	5.5*	11.7	13.4	99
AVERAGE ANALYSIS	6.1	12.9	12.7	
COEFFICIENT OF VARIATION	7.1	6.5	5.8	
10 10 10M				
5334	9.5*	11.1	10.2	102
5626	10.0	10.8	10.4	103
5641	10.0	10.6	10.2	102
6317	10.0	10.3	11.2	103
AVERAGE ANALYSIS	9.8	10.7	10.5	
COEFFICIENT OF VARIATION	2.5	3.1	4.5	
12 12 12M				
5627	11.9	12.3	13.5	103
5657	11.9	12.6	11.2*	100
AVERAGE ANALYSIS	11.9	12.4	12.3	
COEFFICIENT OF VARIATION		1.7	13.1	
MURIATE OF POTASH				
5330			60.9	102
6321			60.0	100
AVERAGE ANALYSIS			60.4	
COEFFICIENT OF VARIATION			1.0	
<u>DARLING & COMPANY EAST ST LOUIS ILL</u>				
0 20 20M				
6640		20.3	21.4	103
3 9 27M				
6098	3.0	9.7	27.0	103
5 20 20M				
6645	5.5	21.9	22.6	111
6 12 12M				
6097	7.0	13.3	12.0	110
6644	5.8	13.6	12.0	105
10 10 10M				
6648	9.1*	11.3	11.6	103
<u>DAVISON DIV W R GRACE & CO COLUMBUS</u>				
5 10 10M				
3700	5.0	10.0	10.2	100

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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
DAVISON DIV W R GRACE NASHVILLE TENN	(Percent)	(Percent)	(Percent)	
0 20 20M				
8168		20.0	21.7	103
8509		20.0	18.1*	97*
8559		19.5*	20.5	99
8718 SEE NOTES 4 AND 5		18.4*	18.6*	92*
AVERAGE ANALYSIS		19.4	19.7	
COEFFICIENT OF VARIATION		3.8	8.4	
0 20 20M WITH 2 LB BORAX PER 100				
8004 SEE NOTE 2		19.3*	20.0	98
8169 SEE NOTE 2		20.1	20.3	101
8717 SEE NOTE 2		19.3*	21.4	100
AVERAGE ANALYSIS		19.5	20.5	
COEFFICIENT OF VARIATION		2.3	3.5	
2 12 6M				
8567	2.5	11.2*	6.2	100
3 9 6M				
2989	3.4	9.5	7.1	110
3 12 6M				
5746	3.4	12.3	6.3	105
3 12 12M				
7259	3.0	12.0	13.2	103
8565	3.1	12.0	12.0	101
AVERAGE ANALYSIS	3.0	12.0	12.6	
COEFFICIENT OF VARIATION	2.3		6.7	
4 12 8M				
2987	4.5	12.2	8.5	105
4746	4.5	12.1	8.1	104
5228	4.2	12.6	8.3	105
6606	4.1	13.0	7.6*	104
8002	4.1	12.4	9.4	106
8122	4.3	12.0	9.0	104
8238	4.8	12.3	8.9	109
8566	4.3	12.0	8.3	103
8585	4.3	11.7	8.5	102
8603	4.5	12.0	8.3	104
9048	4.5	12.3	8.7	106
AVERAGE ANALYSIS	4.3	12.2	8.5	
COEFFICIENT OF VARIATION	4.8	2.8	5.6	
4 12 8M WITH 0050 LB ALDRIN				
5493 SEE NOTE 3	4.4	11.6*	8.5	102
5 10 5M				
8110	5.0	11.4	7.8	114
5 10 10M				
8507	4.8	10.4	8.9*	98
5 10 15S				
1994	5.1	10.4	14.5*	101
2988	5.0	10.2	16.0	103
4728	4.7*	10.9	12.9*	98
4744	5.1	10.0	15.5	102
5494	5.1	10.3	15.0	102
5505 SEE NOTE 1	5.9	10.4	13.9*	105
6605	4.8	11.1	13.1*	99
6729 SEE NOTE 1 AND 5	5.5	11.1	12.0*	101

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>DAVISON DIV W R GRACE CONTINUED</i>	(Percent)	(Percent)	(Percent)	
<i>5 10 15S CONTINUED</i>				
7258	5.1	10.9	14.3*	103
8111	5.0	10.5	14.0*	100
8390	5.0	10.9	15.7	105
8510	5.1	11.2	13.5*	102
8561	5.1	10.2	15.0	101
8562	4.6*	11.6	12.6*	99
8563	5.0	10.3	14.4*	100
8583 SEE NOTE 1	5.0	10.2	15.0	101
8600	5.0	10.2	15.0	101
9050 SEE NOTE 1	5.3	10.4	15.0	103
AVERAGE ANALYSIS	5.0	10.6	14.3	
COEFFICIENT OF VARIATION	5.6	4.2	7.8	
<i>5 10 15S WITH 0025 ALDRIN</i>				
8450 SEE NOTES 1 AND 3	6.2	10.0	13.5*	104
<i>5 10 15S WITH 0050 ALDRIN</i>				
5495 SEE NOTE 3	5.1	9.6*	15.0	99
<i>5 20 20M</i>				
2957 SEE NOTES 5 AND 6	5.0	19.0*	18.8*	96*
4914	5.0	20.0	19.2*	99
6019	5.2	20.6	19.5*	102
7260	5.2	19.9	20.5	101
8003	5.3	20.3	20.2	102
8473	5.9	20.0	19.1*	102
8506	5.4	19.8	19.6	101
8560	5.1	19.9	18.2*	98
8564	5.4	19.6*	19.5*	100
8722	5.4	21.4	18.8*	104
AVERAGE ANALYSIS	5.2	20.0	19.3	
COEFFICIENT OF VARIATION	4.9	3.1	3.5	
<i>6 8 6M</i>				
5496	5.7*	9.4	7.2	108
<i>6 8 6S</i>				
8112	5.8	8.0	6.9	101
<i>6 12 12M</i>				
4745	6.1	12.0	12.5	101
5506	6.0	11.7	13.7	102
6021	6.1	11.9	12.4	101
6493	6.3	12.4	11.0*	101
6730 SEE NOTE 5	5.9	12.2	9.8*	96*
8239	6.0	12.2	11.2*	99
8389	6.1	13.1	10.6*	102
8508	6.1	12.3	13.0	104
8584	5.6*	11.1*	15.0	100
8719	5.8	12.6	11.8	101
9051	6.1	12.4	12.2	102
9184	6.0	12.4	11.2*	100
AVERAGE ANALYSIS	6.0	12.1	12.0	
COEFFICIENT OF VARIATION	2.9	4.0	11.8	
<i>10 10 10M</i>				
2993	9.5*	10.6	10.2	100
5507	9.8	10.5	10.0	101
6020	9.8	10.2	9.9	100
6492	10.1	10.3	10.5	102
6525	9.9	10.7	9.7	101
6604	8.5*	11.6	10.3	98
6731	9.5*	10.6	9.9	99
7257	10.3	10.1	10.1	102
8001	9.7	10.3	10.7	101
8240	10.2	10.5	10.0	103
8391	10.2	10.5	10.9	104
8568	10.1	10.2	9.8	101
8601 SEE NOTE 7	7.7*	11.1	11.4	95*
9049	10.1	10.6	9.8	102
AVERAGE ANALYSIS	9.6	10.5	10.2	
COEFFICIENT OF VARIATION	7.5	3.7	4.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>DAVISON DIV W R GRACE CONTINUED</u>				
10 30 20M				
5229	10.1	29.8	20.0	100
6524	10.2	31.0	18.7*	101
8429 SEE NOTE 7	9.4*	26.3*	20.7	92*
8472	8.8*	28.6*	23.5	97*
8586	9.9	27.9*	21.4	97*
AVERAGE ANALYSIS	9.6	28.7	20.8	
COEFFICIENT OF VARIATION	5.9	6.2	8.5	
20 SUPERPHOSPHATE				
8170		20.2		101
8558 SEE NOTE 5		17.7*		88*
8602		20.2		101
AVERAGE ANALYSIS		19.3		
COEFFICIENT OF VARIATION		7.4		
<u>DAVISON DIV W R GRACE NEW ALBANY IND</u>				
0 13 39M				
6221		13.2	40.4	103
6225		14.8	38.2*	104
AVERAGE ANALYSIS		14.0	39.3	
COEFFICIENT OF VARIATION		8.0	3.9	
0 25 25M				
4952		27.2	22.0*	102
6137 SEE NOTE 5		24.1*	25.5	98
6387		21.7*	29.6	97*
7381		25.6	23.5*	100
AVERAGE ANALYSIS		24.6	25.1	
COEFFICIENT OF VARIATION		9.4	13.1	
3 12 12M				
4875	4.1	14.2	13.1	120
5423	4.4	13.8	12.0	117
6063	3.3	13.1	13.7	111
6252	3.4	13.4	12.6	110
6684	2.9	12.3	12.4	102
6715	3.7	12.8	13.8	112
7044	3.2	12.2	13.4	105
7283	3.2	13.0	11.6*	105
8684	3.0	12.4	12.6	103
AVERAGE ANALYSIS	3.4	13.0	12.8	
COEFFICIENT OF VARIATION	1.45	5.2	5.9	
4 12 8M				
4603	4.4	12.7	8.9	108
4612	4.3	14.5	8.0	113
4665	4.2	12.7	9.2	107
4876	5.2	13.4	10.3	120
5230	4.4	13.0	8.5	108
5234	4.2	12.9	9.1	108
5424 SEE NOTE 8	5.1	14.9	14.5	135
7385	4.9	13.4	9.4	116
AVERAGE ANALYSIS	4.5	13.2	9.0	
COEFFICIENT OF VARIATION	8.5	4.7	7.9	
4 16 16M				
7383	4.5	16.0	16.3	103

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>DAVISON DIV W R GEACE CONTINUED</i>				
	(Percent)	(Percent)	(Percent)	
5 10 15S				
4602	5.4	10.7	15.5	106
4613	5.6	10.8	15.4	108
5231	5.6	10.9	15.5	108
5425	5.6	10.5	17.5	100
6119	5.6	10.7	15.2	107
6136 SEE NOTE 1	5.2	11.5	15.0	107
6146	4.6*	10.8	16.0	103
6222	5.4	10.8	16.0	108
6223	5.0	11.2	15.5	106
6254 SEE NOTE 1	5.4	11.2	17.5	112
6578	4.9	10.7	15.0	102
6674	5.1	10.5	16.2	105
8293	5.3	10.9	15.8	107
8306	5.4	11.2	15.8	109
9103	5.0	11.2	15.2	105
AVERAGE ANALYSIS	5.2	10.9	15.8	
COEFFICIENT OF VARIATION	5.7	2.6	4.9	
5 10 15S WITH 0050 ALDRIN				
6436 SEE NOTE 3	5.3	11.6	15.5	109
5 20 20M				
4848	5.1	19.5*	18.0*	96*
5426	5.8	19.2*	20.5	102
6138	5.0	20.2	20.2	101
6386	5.7	20.0	20.2	103
6732 SEE NOTE 5	4.5*	20.1	20.5	99
7040	5.5	20.4	20.4	104
7045	5.6	20.0	20.5	103
7360	5.3	20.7	20.3	103
7384	5.0	20.4	20.3	101
8307	5.4	21.1	20.0	105
AVERAGE ANALYSIS	5.2	20.1	20.0	
COEFFICIENT OF VARIATION	7.4	2.7	3.7	
6 6 18S				
6122	6.1	7.0	17.6*	104
6364	6.0	8.4	18.5	111
6371	6.0	6.6	18.2	103
6708	6.1	7.1	18.5	106
7282	6.2	6.7	18.0	104
AVERAGE ANALYSIS	6.0	7.1	18.1	
COEFFICIENT OF VARIATION	1.3	10.1	2.0	
6 8 6M				
3728	6.1	9.9	7.0	113
6120	6.3	9.1	6.5	109
6391	4.6*	9.7	7.5	102
6395	4.7*	9.4	7.5	101
7043 SEE NOTE 8	7.3	10.5	6.9	125
AVERAGE ANALYSIS	5.4	9.5	7.1	
COEFFICIENT OF VARIATION	16.5	3.6	6.7	
6 12 12M				
4604	6.5	12.7	12.5	106
5240	6.4	13.7	12.5	109
5427	6.3	13.5	13.0	109
6322	6.3	12.8	13.3	107
7038	6.3	12.6	12.6	105
7237	6.4	13.2	12.6	108
7380	7.0	12.7	13.0	110
AVERAGE ANALYSIS	6.4	13.0	12.7	
COEFFICIENT OF VARIATION	3.8	3.3	2.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>DAVISON DIV W R GRACE CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
10 10 10M				
3729	10.0	10.8	10.2	103
4951	10.9	10.1	10.6	106
5428	10.6	10.2	10.9	105
6064	9.7	11.5	10.7	105
6121	10.0	11.1	11.0	105
6363	10.8	10.1	10.1	105
6390	10.2	11.0	11.6	107
6437	10.0	11.0	11.1	105
6716	10.3	10.1	10.5	105
7252	10.1	10.7	10.4	104
7361	9.8	10.7	10.4	102
7382	9.9	10.7	10.6	103
8308	10.0	10.7	11.2	104
AVERAGE ANALYSIS	10.1	10.6	10.7	
COEFFICIENT OF VARIATION	3.6	4.1	3.9	
12 12 12M				
6224	12.1	12.8	13.0	104
6372	12.3	12.8	11.5*	103
6389	12.2	13.3	12.7	105
6394	12.4	12.5	12.7	104
6502	11.7	12.9	12.4	102
7251	11.7	13.2	12.1	102
8683	11.6*	12.1	12.7	100
AVERAGE ANALYSIS	12.0	12.8	12.4	
COEFFICIENT OF VARIATION	2.7	3.1	4.0	
15 15 15M				
7039	14.6*	15.3	15.0	99
<u>SUPERPHOSPHATE</u>				
5429		20.5		103
6253		19.9		100
6388		22.2		111
8682		20.3		102
AVERAGE ANALYSIS		20.7		
COEFFICIENT OF VARIATION		4.8		
<u>E TOWN FERTILIZER COMPANY</u>				
0 20 20M				
8354		21.0	19.7	103
8627		21.3	20.0	104
8690		21.1	19.9	104
AVERAGE ANALYSIS		21.1	19.8	
COEFFICIENT OF VARIATION		.7	.7	
2 12 6M				
2939	2.8	13.7	6.7	118
5748	2.7	11.7	6.0	104
8350	2.4	13.9	6.7	116
AVERAGE ANALYSIS	2.6	13.1	6.4	
COEFFICIENT OF VARIATION	7.9	9.2	6.2	
3 12 12M				
2935	3.5	12.4	12.5	106
8260	3.5	12.5	12.0	106
8348	4.0	12.1	11.5*	106
9421	3.9	12.0	13.6	110
3511	3.5	12.2	12.5	105
8512	3.5	13.0	12.0	108
8630	4.0	11.0*	11.1*	100
8633	4.1	12.4	11.7	108
8639	3.8	11.8	11.5*	103
8688	3.9	11.7	13.2	107
8691	4.0	12.0	10.8*	104
AVERAGE ANALYSIS	3.7	12.1	12.0	
COEFFICIENT OF VARIATION	6.4	4.2	7.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>E TOWN FERTILIZER COMPANY CONTINUED</i>	(Percent)	(Percent)	(Percent)	
4 12 8M				
2934	4.8	12.2	8.1	107
5749	4.7	12.0	8.1	105
8259	4.3	12.0	6.2*	98
8353	4.5	12.0	7.5*	102
8422	4.6	12.6	9.0	109
8515	4.3	12.7	8.5	106
8631	4.9	11.9	8.5	107
8634	4.8	12.3	7.8	106
8638	4.9	11.2*	6.5*	99
8693	4.5	12.1	8.7	105
AVERAGE ANALYSIS	4.6	12.1	7.8	
COEFFICIENT OF VARIATION	4.8	3.4	11.6	
4 24 12M				
2932	4.8	24.0	12.0	103
8148	4.8	24.5	12.5	105
AVERAGE ANALYSIS	4.8	24.2	12.2	
COEFFICIENT OF VARIATION		1.4	2.8	
5 10 15S				
2933	5.5	11.1	14.0*	105
5750	5.6	11.1	14.3*	107
8149	5.7	11.0	14.0*	106
8150	5.0	10.6	15.0	102
8261	5.3	10.7	15.0	105
8356	5.3	11.2	14.5*	106
8426	5.6	10.7	13.9*	104
8513	5.5	11.4	15.0	109
8514	5.4	11.0	14.5*	105
8629	5.4	10.7	14.7	105
8637	5.7	10.7	14.7	106
8694	5.5	10.2	16.6	107
8696	5.6	10.5	15.6	107
AVERAGE ANALYSIS	5.4	10.8	14.7	
COEFFICIENT OF VARIATION	3.5	3.0	4.9	
5 20 0				
8357	5.7	20.8		107
5 20 20M				
2937	5.0	21.9	20.0	105
8145	4.8	22.2	19.6	105
8146	4.9	22.2	20.0	105
8258	5.3	20.9	19.6	103
8351	5.1	21.1	20.0	103
8424	5.5	21.6	19.4*	105
8427	5.0	20.6	20.2	102
8516	5.0	24.2	18.1*	109
8640	5.0	20.5	22.1	104
8689	5.0	24.5	16.7*	108
8695 SEE NOTES 6 AND 8	7.1	16.1*	20.0	98
8740	5.4	21.9	19.1*	105
AVERAGE ANALYSIS	5.0	21.9	19.5	
COEFFICIENT OF VARIATION	4.2	6.0	6.8	
6 8 6M				
8355	6.1	9.6	6.9	111
6 8 6S				
8144	6.3	9.2	6.2	109
8425	6.5	9.1	6.0	109
AVERAGE ANALYSIS	6.4	9.1	6.1	
COEFFICIENT OF VARIATION	2.2	.7	2.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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 FERTILIZER COMPANY CONTINUED</u>				
6 12 12M	65	12.2	12.3	104
2940	7.0	11.5*	12.5	105
5751	6.4	13.1	11.8	106
8147	6.4	12.6	12.0	104
8428	6.3	12.6	12.2	104
8517	6.5	12.4	12.1	
AVERAGE ANALYSIS	4.2	4.8	2.2	
COEFFICIENT OF VARIATION				
10 10 10M	9.7	10.8	10.3	102
2938	11.3	10.1	9.4*	106
5752	10.3	10.7	10.5	105
8262	10.4	11.1	10.3	106
8423	10.4	11.1	9.5*	105
8518	10.9	10.4	9.9	106
8519	9.8	12.5	10.5	108
8628	10.7	10.4	10.0	105
8632	10.6	10.4	10.1	105
8636	10.1	10.6	10.0	103
8692	10.4	10.8	10.0	
AVERAGE ANALYSIS	4.6	6.2	3.7	
COEFFICIENT OF VARIATION				
SUPERPHOSPHATE		19.9		100
2936		20.0		100
8349		19.9		
AVERAGE ANALYSIS		3		
COEFFICIENT OF VARIATION				
SULFATE OF POTASH			50.5	101
8352				
<u>FARMERS FERTILIZER COMPANY</u>				
0 15 15M		15.4	14.0*	100
8604				
4 12 8M	4.3	11.2*	8.4	99
8609				
5 10 10M	5.2	10.2	11.9	106
8611				
5 10 15S	5.3	10.0	16.0	104
8610	5.5	10.5	16.0	107
8720	5.3	10.5	16.7	107
8721	5.3	10.3	16.2	
AVERAGE ANALYSIS	2.1	2.7	2.4	
COEFFICIENT OF VARIATION				

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>FARMERS PRESCRIPTION FERT SERV</u>	(Percent)	(Percent)	(Percent)	
0 20 10M 9053		20.6	10.3	103
0 20 20M 9130		20.2	21.5	103
3 20 10M 9230	3.1	20.4	12.2	106
4 15 15M 9227	4.0	15.3	18.1	106
4 25 0 9229	4.3	25.5		103
5 10 15S 9055	4.8	10.6	15.1	101
5 15 8M 9058	5.3	16.9	5.9*	105
5 20 10M 9054	5.5	20.0	10.0	102
5 20 20M 9232	5.4	21.8	19.9	106
6 12 12M 9057	5.6*	13.4	12.9	105
8 16 10S 9231	7.0*	17.0	13.7	104
10 5 5M 9056	10.7	6.0	6.2	112
10 18 0 9228	9.5*	18.0		98
<u>FEDERAL CHEMICAL CO COLUMBUS OHIO</u>				
5 10 10M 3697	5.1	9.6*	9.6*	98
5 10 15S 3699	5.3	10.3	15.2	103
6 8 6S 3698	5.7*	8.8	9.7	111

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>FEDERAL CHEM CO DANVILLE ILL</u>				
6 24 12M				
7056 SEE NOTE 5	5.7*	22.0*	12.5	94*
7057 SEE NOTE 4	5.8	22.6*	12.1	96*
AVERAGE ANALYSIS	5.7	22.3	12.3	
COEFFICIENT OF VARIATION	1.2	1.9	2.2	
<u>FEDERAL CHEMICAL CO HUMBOLDT TENN</u>				
0 20 20M				
6099 SEE NOTE 4		18.1*	20.4	94*
6328 SEE NOTE 5		14.5*	21.8	85*
AVERAGE ANALYSIS		16.3	21.1	
COEFFICIENT OF VARIATION		15.6	4.6	
4 12 8M				
5344	4.2	11.8	8.0	100
5516	4.4	11.9	9.1	105
5518	4.3	12.0	8.0	102
5649	4.4	11.9	8.4	103
5891	4.6	11.7	9.3	106
5893	4.3	12.0	8.9	104
6091	4.8	12.0	8.5	107
6102	4.4	12.5	7.6*	104
6331	4.5	12.0	8.5	105
6346	4.3	12.0	8.2	103
AVERAGE ANALYSIS	4.4	11.9	8.4	
COEFFICIENT OF VARIATION	3.9	1.7	6.2	
5 10 10M				
5630	5.4	10.7	9.0*	104
5 10 15S				
5345 SEE NOTE 1	5.4	10.0	14.0*	100
5519	5.4	10.1	14.2*	101
5631 SEE NOTE 1	5.5	10.2	13.7*	101
5650	6.3	10.6	15.0	110
5918 SEE NOTE 1	5.2	10.8	12.6*	100
6089 SEE NOTE 1	5.5	10.4	13.8*	102
6327 SEE NOTE 1	5.7	10.6	14.8	106
6330 SEE NOTE 1	6.0	10.2	13.7*	104
6352	6.1	10.3	15.7	109
AVERAGE ANALYSIS	5.6	10.3	14.1	
COEFFICIENT OF VARIATION	6.5	2.5	6.3	
5 10 15S WITH 0015 HEPTACHLOR				
6625 SEE NOTE 3	5.1	10.3	14.5*	101
5 10 15S WITH 0050 HEPTACHLOR				
6326 SEE NOTES 1 AND 3	5.9	10.0	13.9*	103
5 20 20M				
6350 SEE NOTE 4	4.7*	17.2*	19.5*	91*
6610 SEE NOTE 4	5.6	16.2*	16.5*	88*
6617	5.1	18.7*	19.3*	96*
6756 SEE NOTE 4	4.9	18.5*	18.7*	94*
AVERAGE ANALYSIS	5.0	17.6	18.5	
COEFFICIENT OF VARIATION	7.6	6.6	7.4	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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)	
6 12 12M				
5346	6.3	12.2	11.6*	102
5491	6.3	12.0	12.6	103
5520	6.3	12.5	11.2*	102
5632	6.2	12.1	11.5*	101
5651	6.3	12.0	13.0	104
5892 SEE NOTE 7	6.0	11.2*	9.9*	93*
5894	6.0	11.7	13.0	101
5895	6.2	12.1	11.9	101
6090	6.1	12.2	12.1	101
6101	6.0	12.3	12.7	102
6319	6.1	12.0	11.9	100
6345	6.4	12.2	11.7	102
6354	6.0	12.1	12.3	101
AVERAGE ANALYSIS	6.1	12.0	11.9	
COEFFICIENT OF VARIATION	2.3	2.6	7.0	
6 12 12M WITH 0050 HEPTACHLOR				
5349 SEE NOTE 3	6.2	11.6*	11.7	99
6 18 12M				
6325 SEE NOTE 5	6.6	15.9*	13.2	98
6637 SEE NOTE 4	6.8	14.5*	12.6	94*
AVERAGE ANALYSIS	6.7	15.2	12.9	
COEFFICIENT OF VARIATION	2.1	6.5	3.2	
10 10 10M				
5347	9.3*	10.9	10.1	100
5517 SEE NOTE 4	8.4*	10.9	10.1	95*
5633	10.2	10.7	9.2*	102
AVERAGE ANALYSIS	9.3	10.8	9.8	
COEFFICIENT OF VARIATION	9.6	1.0	5.3	
12 12 12M				
5348	12.0	11.8	12.4	100
5492	11.9	11.6*	12.6	99
6320	11.6*	11.8	12.4	98
6351	11.5*	12.3	12.0	99
AVERAGE ANALYSIS	11.7	11.8	12.3	
COEFFICIENT OF VARIATION	2.0	2.5	2.0	
15 10 10M				
5634 SEE NOTE 5	13.3*	11.9	10.9	99
6329 SEE NOTES 4 AND 8	10.5*	11.9	11.8	89*
6353 SEE NOTE 4	12.7*	10.9	12.5	97*
6609	14.4*	9.5*	10.1	96*
6636	15.2	9.5*	10.1	100
AVERAGE ANALYSIS	13.9	10.4	10.9	
COEFFICIENT OF VARIATION	8.0	11.2	10.3	
SUPERPHOSPHATE				
6100		20.6		103
SULFATE OF POTASH				
5635			51.0	100
<i>FEDERAL CHEMICAL CO LOUISVILLE KY</i>				
0 9 27M WITH 5 LB BORAX PER 100				
6282 SEE NOTE 2		9.3	27.5	102
6558 SEE NOTE 2		8.6*	26.0*	96*
7124 SEE NOTE 2		9.4	25.6*	99
AVERAGE ANALYSIS		9.1	26.3	
COEFFICIENT OF VARIATION		4.7	3.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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)	
0 20 20M				
5684		20.4	19.5*	101
5712		20.0	19.1*	99
6447		19.1*	20.2	97*
7123		21.1	18.4*	101
AVERAGE ANALYSIS		20.1	19.3	
COEFFICIENT OF VARIATION		4.1	3.9	
3 9 6M				
3691 SEE NOTE 8	3.9	10.0	9.2	124
3954	3.7	9.4	7.0	112
4621	3.5	9.5	6.9	110
5189	3.5	9.2	6.5	107
5322	3.4	8.9	6.6	105
5373	3.0	8.8	6.2	99
7095	4.0	9.2	7.6	115
7122	3.4	9.1	7.0	107
AVERAGE ANALYSIS	3.5	9.1	6.8	
COEFFICIENT OF VARIATION	8.7	2.7	6.5	
3 9 27M				
7121	3.3	9.4	26.5	102
3 12 12M				
3823	3.5	12.0	12.2	104
5713	3.2	12.3	12.4	104
6181	3.4	12.2	12.6	105
6358	3.4	12.0	12.1	103
6664	3.6	12.2	12.6	106
6683	3.8	12.6	11.7	107
6712	3.4	11.7	13.0	104
7096	3.4	12.2	12.4	104
9095	3.4	12.9	12.1	107
AVERAGE ANALYSIS	3.4	12.2	12.3	
COEFFICIENT OF VARIATION	4.8	2.8	3.0	
4 12 8M				
1934	4.8	11.2*	8.2	102
1968	4.4	13.0	8.7	109
2897	5.0	12.4	10.0	113
3662	4.0	11.7	8.9	101
3730	5.1	11.7	8.1	106
3822	4.0	12.1	9.0	103
3953	4.3	11.6*	9.4	103
5165	4.1	12.5	8.4	104
5271	4.3	11.3*	8.5	100
5276	4.7	11.9	8.0	104
5343	4.3	11.9	7.9	101
5679	4.4	12.0	8.7	104
6027	4.0	13.6	8.3	108
6074	4.6	12.4	8.3	107
6234	4.1	11.4*	8.6	99
6286	4.2	11.9	8.5	102
7098	4.2	12.1	9.0	104
7125	4.8	11.6*	8.7	105
8079	4.2	12.6	8.3	105
8172	4.1	12.0	8.4	102
8173	4.5	12.0	8.7	105
AVERAGE ANALYSIS	4.3	12.0	8.6	
COEFFICIENT OF VARIATION	7.5	4.7	5.6	
4 16 16M				
5374	5.3	15.5*	16.6	106
7112	4.5	15.7	16.6	103
AVERAGE ANALYSIS	4.9	15.6	16.6	
COEFFICIENT OF VARIATION	11.5	9		

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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)	
5 10 10M				
5190	5.1	9.3*	9.7	97*
5323 SEE NOTES 4 AND 8	4.4*	8.0*	8.7*	84*
5327	5.5	10.1	10.0	104
5382	5.6	10.0	10.1	104
5385 SEE NOTES 7 AND 8	4.7*	8.5*	8.4*	88*
AVERAGE ANALYSIS	5.4	9.8	9.9	
COEFFICIENT OF VARIATION	4.8	4.4	2.0	
5 10 15S				
1969	5.0	10.0	15.2	100
2886	5.3	10.3	15.0	103
2980	5.1	10.4	15.0	102
3671	4.8	10.5	15.0	105
3690	5.2	10.0	15.0	101
3821	5.2	10.1	15.0	102
3955	5.3	10.1	15.2	103
3990	5.3	9.9	14.9	101
4622	5.4	9.7	15.5	102
4937	5.4	10.2	15.0	104
5166	5.0	10.2	15.0	101
5244	5.2	10.0	15.0	101
5272	5.2	10.0	15.0	101
5324	5.0	10.2	14.3*	99
5575	5.1	9.8	15.0	100
5714	4.9	10.3	15.0	101
6077	5.1	10.4	15.1	102
6086	5.3	10.1	15.1	102
6148	5.1	10.1	15.0	101
6179	5.1	10.4	15.1	102
6259	5.1	11.0	15.1	105
6284	5.3	10.0	15.0	102
6448	5.0	10.2	15.5	102
6449	5.1	10.3	15.6	103
6585	5.2	10.0	15.2	102
7097	5.2	10.4	15.1	103
7113	5.0	10.1	15.7	102
8092	5.0	10.5	15.1	102
9112	5.3	10.0	15.2	102
AVERAGE ANALYSIS	5.1	10.1	15.1	
COEFFICIENT OF VARIATION	2.8	2.5	1.6	
5 10 15S WITH 0050 HEPTACHLOR				
6087 SEE NOTE 3	5.6	10.0	13.1*	100
7114 SEE NOTE 3	5.4	10.5	15.4	105
AVERAGE ANALYSIS	5.5	10.2	14.2	
COEFFICIENT OF VARIATION	2.5	3.4	11.4	
5 20 20M				
3670	4.5*	20.1	20.3	99
4847	5.4	19.5*	20.0	100
5903	4.9	20.2	19.5*	99
6283	5.1	20.2	19.2*	100
6454	5.1	20.9	18.3*	101
7055	4.9	18.0*	22.5	98
7120	5.5	20.0	20.1	102
8093	5.3	19.3*	20.0	99
9094	5.7	19.1*	18.2*	99
9110	5.2	19.1*	19.7	98
AVERAGE ANALYSIS	5.1	19.6	19.7	
COEFFICIENT OF VARIATION	6.6	4.1	6.0	
6 6 18S				
1935	6.0	6.0	17.6*	99
3667	5.9	6.3	18.4	101
3830	6.1	6.3	17.9	102
6078	6.0	7.1	17.5*	104
6082	6.0	7.2	17.9	105
6235	6.0	6.5	18.2	103
6258	6.1	6.5	18.0	103
6260	6.0	6.6	18.0	103
6455	6.0	6.7	17.4*	102
6557	6.0	7.2	18.0	105
7119 SEE NOTE 1	5.8	7.2	18.0	104
AVERAGE ANALYSIS	5.9	6.6	17.9	
COEFFICIENT OF VARIATION	1.3	6.3	1.6	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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)	
6 8 6M				
3828	6.0	8.3	7.2	105
3829	6.3	8.7	6.3	107
5191	6.1	8.3	6.2	103
5210	6.2	8.0	7.3	105
5274	6.2	8.3	6.2	104
5328	6.0	8.1	6.5	102
5375	6.2	8.0	6.7	103
5622	6.0	8.1	6.3	101
6079	5.9	8.1	6.7	102
6236	6.0	8.2	6.2	102
6281	5.9	8.8	6.6	105
6663	5.3*	9.4	8.1	107
6702	5.9	9.1	7.5	109
6709	5.7*	8.8	7.5	106
AVERAGE ANALYSIS	5.9	8.4	6.8	
COEFFICIENT OF VARIATION	4.2	5.2	8.9	
6 8 6S				
2931	6.0	8.0	6.6	102
3668	5.4*	8.8	7.6	104
3956	6.0	8.5	8.2	108
4714	5.9	8.4	7.1	104
5275	5.4*	8.1	7.1	99
5682	6.1	8.6	7.1	107
5693 SEE NOTE 1	6.1	8.4	7.5	107
6261	6.0	7.7*	6.9	101
6682	6.0	8.8	7.5	108
AVERAGE ANALYSIS	5.8	8.3	7.2	
COEFFICIENT OF VARIATION	4.7	4.4	6.4	
6 12 12M				
4940	6.2	12.4	12.4	103
5715	6.6	11.2*	12.6	101
6446	6.7	12.0	12.4	105
6450	6.0	12.0	12.0	100
7036	6.5	11.9	12.4	103
7118	6.4	11.6*	12.2	101
8171	6.8	11.5*	11.8	102
9111	6.2	12.2	12.1	102
AVERAGE ANALYSIS	6.4	11.8	12.2	
COEFFICIENT OF VARIATION	4.3	3.3	2.1	
6 12 12M WITH 0050 HEPTACHLOR				
6088 SEE NOTE 3	6.1	12.0	11.8	100
6 12 18S				
8222	6.5	12.7	18.2	105
6 24 12M				
3825	6.0	23.0*	12.4	98
9 10 15S				
3826	9.0	10.7	14.6*	102
3972	8.3*	10.6	14.7	98
4939 SEE NOTE 1	8.2*	10.9	14.0*	97*
5716	9.0	10.3	14.7	100
6113	8.9	10.6	15.0	101
6294 SEE NOTE 1	8.4*	11.3	15.0	101
6564	9.0	10.6	15.0	102
7035 SEE NOTE 7	7.3*	10.0	15.0	92*
8036	8.8	10.9	15.0	102
AVERAGE ANALYSIS	8.5	10.6	14.7	
COEFFICIENT OF VARIATION	6.6	3.4	2.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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)	
10 10 10M				
3824	9.9	10.7	10.3	102
4938	10.0	10.7	10.4	103
5167	9.6*	10.7	10.2	101
5273	9.6*	10.6	10.0	100
5325	9.9	10.2	10.9	102
5376	9.6*	10.4	10.1	100
5623	9.5*	10.4	10.3	99
6026	9.0*	10.6	11.6	100
6075	9.9	10.2	10.2	101
6114	10.0	10.6	10.1	102
6180	9.5*	10.4	9.9	99
6285	9.8	10.3	10.2	100
6359	9.8	10.7	10.1	102
6553	9.5*	10.6	11.1	101
6701	9.4*	10.4	10.4	99
7037	10.0	10.6	10.3	103
8078	9.8	10.4	10.0	100
AVERAGE ANALYSIS	9.6	10.5	10.3	
COEFFICIENT OF VARIATION	2.7	1.6	4.2	
12 12 12M				
5377	12.1	12.2	12.2	101
5685	11.7	12.2	11.6*	99
AVERAGE ANALYSIS	11.9	12.2	11.9	
COEFFICIENT OF VARIATION	2.3		3.5	
16 8 8M				
8701 SEE NOTE 4 AND 8	8.4*	10.5	7.5*	75*
SUPERPHOSPHATE				
3669		20.5		103
5277		21.0		104
5680		20.5		103
6453		20.6		103
6586		20.3		102
AVERAGE ANALYSIS		20.5		
COEFFICIENT OF VARIATION		1.2		
SULFATE OF POTASH				
5717			49.0*	98
6451			50.0	100
6554			47.7*	95*
AVERAGE ANALYSIS			48.9	
COEFFICIENT OF VARIATION			2.3	
MURIATE OF POTASH				
5681 SEE NOTES 6 AND 7			55.9*	93*
6565			58.0*	97*
AVERAGE ANALYSIS			56.9	
COEFFICIENT OF VARIATION			2.6	
<i>FEDERAL CHEMICAL CO NASHVILLE TENN</i>				
0 9 27M WITH 5 LB BORAX PER 100				
9157 SEE NOTE 2		8.9	28.5	103
9361 SEE NOTE 2		9.0	28.4	103
AVERAGE ANALYSIS		8.9	28.4	
COEFFICIENT OF VARIATION		.7	2	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>				
0 20 20M				
4693 SEE NOTE 4		18.6*	20.0	95*
5418		19.0*	22.8	101
6160		18.6*	22.5	100
6548 SEE NOTE 4		21.7	16.0*	99
6745 SEE NOTE 4		19.5*	18.1*	95*
8013 SEE NOTE 4		18.1*	21.0	95*
8318		20.5	20.0	102
9036		19.1*	21.4	99
AVERAGE ANALYSIS		19.3	20.2	
COEFFICIENT OF VARIATION		6.0	11.2	
0 20 20M WITH 5 LB BORAX PER 100				
8005 SEE NOTE 2		18.5*	21.4	97*
2 12 6M				
1990	2.9	11.6*	6.5	107
3 12 6M				
1989	2.9	11.6*	6.4	98
4743 SEE NOTE 8	4.6	11.9	9.8	122
4921 SEE NOTE 8	3.4	17.6	12.4	148
3 12 12M				
1991	3.9	11.3*	12.5	104
8007	4.2	12.0	13.6	112
8399	3.1	12.8	9.2*	98
AVERAGE ANALYSIS	3.7	12.0	11.7	
COEFFICIENT OF VARIATION	1.52	6.2	19.4	
4 12 8M				
2947 SEE NOTE 8	6.9	10.5*	9.2	116
3000	4.2	12.0	8.7	103
4688	3.3*	12.0	8.0	95*
4742	4.5	10.8*	8.5	99
5419	3.7*	12.4	9.1	102
6165	3.4*	12.0	8.2	96*
8175 SEE NOTE 5	4.1	10.9*	6.5*	92*
8231	3.7*	12.0	9.1	100
8250	4.2	11.6*	8.6	101
8400	4.1	11.5*	8.7	100
9041	5.9	12.1	9.5	117
9059	3.6*	12.0	8.5	98
AVERAGE ANALYSIS	4.0	11.7	8.4	
COEFFICIENT OF VARIATION	1.75	4.3	9.2	
5 10 10M				
8251	6.1	11.3	12.1	118
5 10 15S				
1993 SEE NOTE 1	5.3	10.7	14.6*	104
4691 SEE NOTE 1	5.0	10.7	15.0	103
5420 SEE NOTE 1	5.1	10.9	15.2	105
6166 SEE NOTE 1	5.1	10.6	15.0	103
7053	5.0	10.2	14.7	100
8080 SEE NOTE 1	5.4	10.9	14.7	105
8233	5.3	10.9	14.7	105
8330	6.5	10.0	15.0	109
9040	5.0	10.4	14.6*	101
9155 SEE NOTE 1	4.8	11.3	14.6*	103
9359	4.9	10.1	15.0	100
AVERAGE ANALYSIS	5.2	10.6	14.8	
COEFFICIENT OF VARIATION	8.8	3.7	1.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>				
5 20 20M				
2952	4.6*	19.1*	20.5	96*
2955 SEE NOTE 6	6.7	16.6*	17.6*	95*
3894	6.4	22.1	19.5*	111
4690 SEE NOTE 4	5.0	17.4*	18.9*	92*
4759	5.2	15.6*	18.5*	87*
4920	5.1	19.2*	20.0	98
5421	4.5*	19.5*	20.0	97*
6161	5.3	18.5*	19.5*	97*
6547	4.8	21.4	18.7*	101
6744	5.3	18.8*	20.5	97*
7050	5.0	18.3*	20.6	96*
7054	4.7*	19.5*	21.7	100
8006 SEE NOTES 5 AND 8	6.1	12.2*	11.9*	73*
8243	5.2	20.0	20.0	100
8319	4.8	21.4	16.6*	98
9154	4.4*	19.7	21.2	98
9319	5.3	18.2*	19.7	96*
AVERAGE ANALYSIS	5.1	19.0	19.5	
COEFFICIENT OF VARIATION	12.1	9.0	6.6	
6 8 6M				
5739	5.9	8.6	7.5	106
6159	6.1	7.9	7.6	104
7059	6.4	8.5	6.9	108
8252	5.7*	8.4	8.7	107
AVERAGE ANALYSIS	6.0	8.3	7.6	
COEFFICIENT OF VARIATION	4.9	3.7	9.7	
6 12 12M				
2946	6.2	11.9	12.6	102
2998	6.1	12.0	13.5	103
3715 SEE NOTE 8	8.4	12.0	11.7	113
3892	5.5*	12.4	13.0	101
4689	6.6	11.5*	11.2*	100
8234	6.3	12.2	11.9	102
8253	6.2	11.0*	12.2	98
8402	6.1	11.7	11.7	99
9037	5.8	12.1	12.2	100
9042	6.2	12.0	12.0	101
AVERAGE ANALYSIS	6.1	11.8	12.2	
COEFFICIENT OF VARIATION	5.0	3.5	5.6	
6 18 12M				
4685 SEE NOTE 4	5.1*	16.2*	15.9	97*
4758	6.0	16.7*	14.4	100
4760	5.9	16.9*	12.6	97*
4761	5.7*	16.6*	13.7	97*
9035	6.0	16.9*	12.0	97*
AVERAGE ANALYSIS	5.7	16.6	13.7	
COEFFICIENT OF VARIATION	6.5	1.7	11.1	
9 10 15S				
1988	8.8	10.5	15.2	101
4692	8.4*	10.8	15.0	100
6005	8.7*	10.6	15.0	100
7052	8.6*	10.5	15.0	100
8329 SEE NOTE 1	8.5*	10.4	14.2*	98
9156 SEE NOTE 1	8.5*	10.6	14.4*	99
AVERAGE ANALYSIS	8.5	10.5	14.8	
COEFFICIENT OF VARIATION	1.7	1.2	2.7	
10 10 10M				
1992	9.7	10.7	10.1	101
2945	10.0	10.7	10.2	103
2953	10.3	10.5	10.9	105
2999	9.7	10.4	11.3	102
3713	9.9	10.9	11.0	104
3717	10.5	10.7	10.5	106
3832	10.1	10.7	10.1	103

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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)	
FEDERAL CHEMICAL COMPANY CONTINUED				
10 10 10M CONTINUED				
3893	10.1	10.8	10.2	104
4686	10.0	10.5	10.2	102
4687	10.6	10.1	10.1	103
5422	10.2	10.5	10.6	104
6007	10.0	11.7	10.4	106
6164	9.7	10.5	10.9	102
7116	9.8	10.0	10.0	99
8176	9.9	11.0	10.0	103
8232	9.4*	10.6	10.4	100
8249	10.5	10.7	10.4	106
9039	9.4*	10.8	11.0	101
9060	9.5*	11.1	9.7	101
9360	10.0	10.4	10.3	102
AVERAGE ANALYSIS	9.9	10.6	10.4	
COEFFICIENT OF VARIATION	3.4	3.3	3.9	
10 30 20M				
2948 SEE NOTE 4 AND 8	6.8*	13.5*	11.6*	54*
6006 SEE NOTE 4 AND 8	8.0*	19.3*	16.5*	71*
8008 SEE NOTE 5 AND 8	9.2*	14.8*	12.8*	64*
12 12 12M				
2949	11.2*	12.1	12.4	98
2956	11.5*	12.6	12.5	100
2964 SEE NOTE 4	10.5*	11.9	12.1	94*
2997	11.6*	12.3	13.6	101
3716	12.0	12.3	12.1	101
3831	11.2*	12.9	11.9	99
3895	12.2	11.9	12.0	101
6158	11.2*	12.4	12.4	98
6743 SEE NOTE 4	9.8*	13.7	12.7	97*
7051	11.4*	12.4	12.7	100
7117	10.9*	12.2	12.0	96*
8244	11.9	12.5	12.1	101
8254	11.9	12.6	12.0	101
AVERAGE ANALYSIS	11.3	12.4	12.3	
COEFFICIENT OF VARIATION	5.8	3.7	3.7	
16 8 8M				
2963 SEE NOTE 4	12.3*	10.6	10.0	95*
3714 SEE NOTE 5	14.0*	9.9	8.8	98
7115	15.0*	8.5	8.6	98
9038 SEE NOTE 7	13.4*	8.9	8.5	92*
9129	14.7*	9.3	8.6	99
AVERAGE ANALYSIS	13.8	9.4	8.9	
COEFFICIENT OF VARIATION	7.7	8.7	7.0	
SUPERPHOSPHATE				
3827		20.5		102
6546		19.5*		98
6740		20.5		103
8174		20.3		102
8401		20.5		103
AVERAGE ANALYSIS		20.2		
COEFFICIENT OF VARIATION		2.1		
GLASGOW FERTILIZER COMPANY				
0 20 20M				
8596		19.4*	21.5	101
9163 SEE NOTE 4		19.2*	18.9*	96*
AVERAGE ANALYSIS		19.3	20.2	
COEFFICIENT OF VARIATION		.7	.91	
3 9 6M				
8599	3.4	9.5	6.0	107

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>GLASGOW FERTILIZER CO CONTINUED</i>	(Percent)	(Percent)	(Percent)	
4 12 8M				
4741	4.5	12.5	8.0	106
4905	4.4	12.8	8.1	107
8124	4.3	12.0	8.6	103
8594	5.0	11.7	9.0	108
8595	4.9	11.8	8.7	107
9165	5.1	12.2	8.7	110
9351	4.6	11.6*	9.1	105
AVERAGE ANALYSIS	4.6	12.0	8.6	
COEFFICIENT OF VARIATION	6.6	3.6	4.8	
5 10 15S				
4737	5.2	9.7	16.6	103
4907	5.2	10.0	15.6	102
8587	5.2	10.3	15.4	103
8588	5.3	10.0	16.0	104
9158	5.2	10.3	15.0	102
9166	5.2	10.5	15.0	103
9353	5.2	10.3	15.0	102
9354	5.2	10.3	15.0	102
AVERAGE ANALYSIS	5.2	10.1	15.4	
COEFFICIENT OF VARIATION	.6	2.5	3.8	
5 10 15S WITH 0033 ALDRIN				
9162 SEE NOTES 3 AND 4	3.7*	13.8	10.4*	98
5 20 20M				
4836	5.3	20.7	20.2	103
4908	5.4	20.0	20.5	102
8589	6.0	18.8*	22.2	104
8590	5.1	19.9	21.7	102
9161	5.7	19.2*	22.0	103
9183	5.3	19.4*	21.2	101
9350	5.8	20.1	20.1	104
AVERAGE ANALYSIS	5.5	19.7	21.1	
COEFFICIENT OF VARIATION	5.8	3.2	4.1	
6 8 6M				
8597	6.0	10.4	7.5	116
6 12 12M				
4740	5.4*	12.6	11.2*	97*
4906	6.3	12.5	11.9	103
8591	6.3	12.0	12.0	102
8592	6.4	12.0	12.1	102
9164	6.2	12.0	12.0	101
AVERAGE ANALYSIS	6.1	12.2	11.8	
COEFFICIENT OF VARIATION	6.6	2.4	3.0	
10 10 10M				
4739	9.2*	11.0	11.3	102
4909	9.8	10.6	11.6	104
8593	9.5*	11.9	10.9	105
9160	9.6*	12.1	10.7	106
9352	10.0	10.8	10.1	103
AVERAGE ANALYSIS	9.6	11.2	10.9	
COEFFICIENT OF VARIATION	3.1	5.9	5.2	
SUPERPHOSPHATE				
8598		19.8		99
46 TRIPLE SUPERPHOSPHATE				
9159 SEE NOTE 4		42.7*		92*
SULFATE OF POTASH				
4903			48.2*	96*

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>GLASGOW FERTILIZER CO CONTINUED</i>				
MURIATE OF POTASH 4904			552*	92*
<i>HUTSON CHEMICAL COMPANY</i>				
3 12 12M 5880	3.9	14.0	12.0	115
4 12 8M 1942	4.3	13.0	9.6	110
5858	3.8	12.4	8.5	102
5860	3.9	12.0	8.6	101
5862	3.9	11.7	8.9	100
5864	4.0	12.5	9.7	106
5877	3.8	12.2	8.9	102
6511	4.7	12.6	8.1	108
6633	4.0	13.1	8.1	105
AVERAGE ANALYSIS	4.0	12.4	8.8	
COEFFICIENT OF VARIATION	7.5	3.8	6.8	
4 12 8M WITH 0100 ALDRIN				
5865 SEE NOTE 3	4.0	12.6	9.1	105
6347 SEE NOTE 3	5.0	13.1	7.5*	111
6619 SEE NOTE 3	4.8	13.8	9.1	116
AVERAGE ANALYSIS	4.6	13.1	8.5	
COEFFICIENT OF VARIATION	11.5	4.5	10.7	
5 10 15S				
1941 SEE NOTE 1	4.9	11.8	14.3*	105
5861	4.4*	9.2*	16.6	96*
5878	4.7*	10.6	15.7	102
5882	4.5*	10.2	15.2	98
5884	5.0	10.9	14.2*	102
5888	4.6*	9.7	14.9	96*
6356	5.7	10.7	15.0	107
6510 SEE NOTE 1	5.6	11.1	15.0	108
6634	6.3	10.3	15.0	109
AVERAGE ANALYSIS	5.0	10.5	15.1	
COEFFICIENT OF VARIATION	12.7	7.3	4.7	
5 10 15S WITH 0100 ALDRIN				
5863 SEE NOTE 3	5.9	10.3	13.9*	104
5 20 20M				
1944 SEE NOTE 4	5.0	16.6*	19.6	90*
5866	5.5	19.5*	19.6*	100
5867	5.6	19.9	20.2	102
5879	5.5	19.7	19.2*	100
5881	5.5	19.3*	20.0	100
5883	5.6	20.0	19.9	102
5885	5.7	19.4*	19.7	101
5887	5.6	19.5*	19.9	101
5889	5.4	19.0*	21.1	100
6635	5.6	19.3*	19.6	100
AVERAGE ANALYSIS	5.5	19.2	19.8	
COEFFICIENT OF VARIATION	3.5	5.0	2.5	
6 12 12M				
1943	5.3*	12.3	11.5*	96*
5859	6.0	12.0	11.9	100
5868	6.2	11.4*	13.5	102
5869	6.0	11.9	13.7	103
5870	6.0	12.2	12.0	101
5919	5.7*	12.0	11.9	98

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>HUTSON CHEMICAL COMPANY CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
6 12 12M CONTINUED				
6355	6.6	11.7	11.8	102
6611	6.4	12.1	12.0	103
6613	6.3	11.7	11.7	100
6616	6.9	12.3	12.0	106
6622	5.4*	12.3	12.0	98
6627	7.1	12.0	12.1	106
AVERAGE ANALYSIS	6.1	11.9	12.1	
COEFFICIENT OF VARIATION	8.9	2.3	5.6	
12 12 12M				
5871	12.1	11.5*	13.0	100
5886	11.1*	13.4	12.6	101
5890	12.0	12.9	12.2	103
5920	12.0	10.9*	12.6	98
AVERAGE ANALYSIS	11.8	12.1	12.6	
COEFFICIENT OF VARIATION	3.9	9.6	2.5	
47 TRIPLE SUPERPHOSPHATE				
5872		48.7		104
SULFATE OF POTASH				
5873			51.0	102
6348			50.5	101
AVERAGE ANALYSIS			50.7	
COEFFICIENT OF VARIATION			.6	
<u>INTERNATIONAL MIN & CHEM CARLSBAD</u>				
SULFATE OF POTASH				
4797			50.5	101
9301			51.3	103
9302 SEE NOTE 1			52.4	105
9303			51.2	102
AVERAGE ANALYSIS			51.3	
COEFFICIENT OF VARIATION			1.5	
<u>INTERNATIONAL MIN & CHEM CINCINNATI</u>				
0 20 20M				
3852		19.0*	21.4	99
7140 SEE NOTE 8		25.7	17.1*	114
8673		20.9	19.9	103
9034		20.3	20.2	101
AVERAGE ANALYSIS		20.0	20.5	
COEFFICIENT OF VARIATION		4.8	3.8	
3 9 6M				
3973	2.5*	9.3	6.0	97*
3 12 12M				
3735	2.9	12.5	11.7	101
3982	3.1	12.1	12.2	102
7078	2.7*	12.0	12.2	98
AVERAGE ANALYSIS	2.9	12.2	12.0	
COEFFICIENT OF VARIATION	6.8	2.1	2.3	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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 & CHEM CONTINUED</i>	(Percent)	(Percent)	(Percent)	
4 12 8M	3.7*	12.2	9.3	102
1964	3.5*	12.3	8.0	98
3847	3.2*	12.1	8.5	96*
3850	3.4*	12.0	8.1	96*
3975	3.6*	12.8	7.4*	100
5255	3.4*	12.3	8.7	99
5548	3.7*	12.0	9.5	101
7075	4.2	12.0	9.6	105
7143	3.5	12.2	8.6	
AVERAGE ANALYSIS	8.3	2.2	9.1	
COEFFICIENT OF VARIATION				
4 12 8S	3.3*	12.4	8.0	97*
3986	4.3	12.8	9.8	110
7069 SEE NOTE 1	3.8	12.6	8.9	
AVERAGE ANALYSIS	18.6	2.2	14.3	
COEFFICIENT OF VARIATION				
5 10 10M	5.1	11.1	9.6*	105
3853	4.8	11.2	9.3*	102
3976	5.3	10.9	9.8	106
3983	5.8	11.3	10.1	111
5395	5.1	11.4	9.9	107
6727	5.2	11.0	10.0	106
7186	5.2	11.1	9.7	
AVERAGE ANALYSIS	6.3	1.6	2.9	
COEFFICIENT OF VARIATION				
5 10 15S	5.2	10.9	14.3*	103
3696	5.1	9.6*	17.1	103
3736 SEE NOTE 8	5.2	10.5	14.9	103
3846	5.0	10.3	14.2*	100
5253	5.0	9.7	15.0	99
5254 SEE NOTE 1	5.2	10.2	15.0	102
6126	5.0	10.2	15.0	101
6265	5.2	10.9	14.2*	103
6362	5.1	10.1	15.5	102
7001	5.1	10.2	15.0	101
7068	5.1	10.6	15.2	103
8211	5.1	10.3	14.8	
AVERAGE ANALYSIS	1.7	3.5	2.9	
COEFFICIENT OF VARIATION				
5 10 15 12S 3M	5.0	9.6*	14.5*	97*
1965	5.2	9.7	15.0	100
3695	5.2	9.4*	15.0	99
3843	5.4	9.8	14.6*	101
3997	5.1	10.0	15.7	102
6264	5.0	9.9	15.0	100
6572	5.1	9.9	15.4	101
7002	5.4	9.7	15.0	101
7144	5.1	9.7	15.0	
AVERAGE ANALYSIS	3.0	1.9	2.5	
COEFFICIENT OF VARIATION				
5 20 20M	5.4	20.7	19.5*	103
3985	4.8	21.3	18.1*	100
5723	6.0	20.7	16.8*	102
7077	4.9	20.3	21.4	102
8207	5.2	20.7	18.9	
AVERAGE ANALYSIS	10.4	1.9	10.3	
COEFFICIENT OF VARIATION				
6 6 18S	5.7*	6.4	18.7	101
3848	5.2*	5.9	19.0	97*
3849	6.5	6.1	18.6	105
6266	5.2*	10.0	18.0	112
5252 SEE NOTE 1 AND 8				

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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 & CHEM CONTINUED</i>	(Percent)	(Percent)	(Percent)	
<i>6 6 18S CONTINUED</i>				
6360				
7183	5.4*	6.5	19.5	101
7185	6.0	6.3	19.0	103
8209	6.3	6.6	18.2	105
8210	4.9*	7.1	19.0	100
AVERAGE ANALYSIS	6.0	7.3	16.7*	103
COEFFICIENT OF VARIATION	5.7	6.5	18.5	
	9.6	7.2	4.5	
<i>6 8 6S</i>				
3851				
3984	5.5*	9.7	6.9	107
5256 SEE NOTE 1	7.2	8.3	6.4	112
6361	6.3	9.4	7.8	114
7141 SEE NOTE 8	6.1	9.0	7.7	110
AVERAGE ANALYSIS	7.5	9.1	7.7	122
COEFFICIENT OF VARIATION	6.2	9.1	7.2	
	11.2	6.6	9.2	
<i>6 12 12M</i>				
3974				
5257 SEE NOTE 4	5.9	12.5	11.9	101
AVERAGE ANALYSIS	5.5*	11.7	10.8*	94*
COEFFICIENT OF VARIATION	5.7	12.1	11.3	
	4.9	4.6	6.8	
<i>6 12 18S</i>				
7184				
	6.3	13.1	17.7	105
<i>10 10 10M</i>				
3844				
3845	9.9	10.2	10.9	102
3996	9.2*	11.2	9.5*	99
5396	10.3	10.1	10.0	102
5397	10.6	11.0	9.7	106
5549	10.1	10.5	10.0	102
5724	10.0	10.5	10.1	102
6570	9.9	11.1	9.2*	102
6571	9.0*	10.8	9.7	97*
7076	10.2	9.9	10.4	101
7142	9.9	11.3	10.5	105
7145	10.2	10.1	10.5	102
7179	9.9	10.3	10.4	101
7181	10.0	10.8	10.5	104
7182	10.3	10.0	10.0	102
8208	10.0	10.7	10.5	103
AVERAGE ANALYSIS	9.6*	10.6	10.1	100
COEFFICIENT OF VARIATION	9.9	10.5	10.1	
	4.0	4.1	4.3	
<i>12 12 12M</i>				
5791				
9033	11.9	12.3	12.0	100
AVERAGE ANALYSIS	11.7	12.6	12.2	101
COEFFICIENT OF VARIATION	11.8	12.4	12.1	
	1.1	1.7	1.1	
<i>16 8 8M</i>				
5550				
	15.9	9.4	9.6	106
<i>SUPERPHOSPHATE</i>				
1963				
		20.4		102
<i>INTERNATIONAL MIN & CHEM CLARKSVILLE</i>				
<i>0 20 20M</i>				
2882				
		21.2	18.9*	102
<i>2 12 6M</i>				
2996				
	3.6	12.3	9.4	124

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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 & CHEM CONTINUED</i>	(Percent)	(Percent)	(Percent)	
4 12 8 7S 1M 8025	4.4	12.1	9.1	106
4 12 8M 2880	4.4	12.5	8.3	106
4781 SEE NOTE 8	5.5	12.2	11.5	119
4783	4.3	12.5	9.5	108
5335	4.2	12.0	9.3	104
5721	4.2	12.3	8.5	104
6514	4.7	11.9	8.5	105
6742	4.1	12.4	9.0	105
8468	4.1	12.5	8.4	104
8608	4.1	13.4	8.5	108
AVERAGE ANALYSIS	4.2	12.4	8.7	
COEFFICIENT OF VARIATION	4.8	3.6	5.1	
5 10 10M 4784	5.1	10.6	10.7	105
8230	5.1	10.3	10.0	102
AVERAGE ANALYSIS	5.1	10.4	10.3	
COEFFICIENT OF VARIATION		2.0	4.7	
5 10 15S 4776	5.1	9.9	15.5	101
4778	5.1	10.6	15.5	104
4779 SEE NOTE 1	5.7	11.4	13.7*	107
5722	5.2	10.3	15.0	102
6741	4.8	10.3	15.5	101
8606	5.1	10.2	15.4	102
8716	5.0	10.3	15.1	101
AVERAGE ANALYSIS	5.1	10.4	15.1	
COEFFICIENT OF VARIATION	5.3	4.5	4.3	
5 10 15 12S 3M 5336 SEE NOTE 1	5.5	10.2	15.0	104
5337	5.2	10.3	15.0	102
6608	5.1	11.0	15.0	105
8229	5.1	10.5	14.6*	102
8605	5.0	10.5	14.7	101
8715	5.0	10.0	15.4	101
AVERAGE ANALYSIS	5.1	10.4	14.9	
COEFFICIENT OF VARIATION	3.6	3.2	1.8	
5 10 15 12S 3M WITH 0020 ALDRIN 8228 SEE NOTE 3	5.3	10.3	15.2	103
5 20 20M 4777	5.2	19.5*	21.7	102
4782	4.9	20.2	20.5	101
5922	5.1	20.0	19.1*	99
6607	5.0	20.2	20.0	101
9081	4.9	20.2	20.1	100
AVERAGE ANALYSIS	5.0	20.0	20.2	
COEFFICIENT OF VARIATION	2.5	1.5	4.6	
6 8 6M 8465	6.0	8.9	6.2	105
8467	5.8	9.0	6.5	105
9079	6.2	8.3	6.3	104
AVERAGE ANALYSIS	6.0	8.7	6.3	
COEFFICIENT OF VARIATION	3.3	4.3	2.4	
6 12 12M 4780	6.3	12.1	12.1	102
5338	6.2	12.0	13.5	104
5921	6.4	12.0	12.5	103
6349	6.0	11.7	14.0	103

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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 & CHEM CONTINUED</i>	(Percent)	(Percent)	(Percent)	
<i>6 12 12M CONTINUED</i>				
6513	6.1	12.1	12.4	102
6626	6.0	11.9	12.6	101
8026	6.1	12.4	12.6	103
8714	6.3	12.0	12.1	102
9080	6.4	11.9	12.4	103
AVERAGE ANALYSIS	6.2	12.0	12.6	
COEFFICIENT OF VARIATION	2.5	1.5	5.0	
<i>6 18 12M</i>				
5235	6.1	18.0	12.2	101
<i>10 10 10M</i>				
5339	9.8	11.9	10.0	105
5340	9.7	11.9	10.2	105
6515	9.2*	12.2	10.0	103
8464	9.3*	10.9	10.7	101
8466	9.5*	10.2	10.0	98
8607	9.8	10.6	10.0	101
9046	9.9	10.6	10.5	102
9077	10.0	10.5	10.3	102
9078	9.6*	11.0	9.9	101
AVERAGE ANALYSIS	9.6	11.0	10.1	
COEFFICIENT OF VARIATION	2.7	6.5	2.6	
<i>10 10 10M WITH 0020 ALDRIN</i>				
5341 SEE NOTE 3	9.6*	10.9	10.3	102
<i>10 30 20M</i>				
6512	9.7	30.0	20.0	99
<i>SUPERPHOSPHATE</i>				
2881		20.8		104
<i>INTERNATIONAL MIN & CHEM GREENVILLE</i>				
<i>0 20 20M</i>				
5305		19.5*	19.6	98
5319		20.0	18.5*	98
5543		19.1*	20.2	97*
AVERAGE ANALYSIS		19.5	19.4	
COEFFICIENT OF VARIATION		2.3	4.4	
<i>3 9 6M</i>				
5142	3.1	10.1	5.4*	106
5544	3.0	9.2	6.6	103
AVERAGE ANALYSIS	3.0	9.6	6.0	
COEFFICIENT OF VARIATION	2.3	6.5	14.1	
<i>5 10 5M</i>				
5306	5.0	10.1	5.2	101
5545	5.0	10.2	5.5	102
AVERAGE ANALYSIS	5.0	10.1	5.3	
COEFFICIENT OF VARIATION		.6	3.9	
<i>5 10 10M</i>				
5308	5.1	10.2	10.0	102
5320	5.0	10.3	9.4*	100
5546	5.1	10.4	10.0	102
AVERAGE ANALYSIS	5.0	10.3	9.8	
COEFFICIENT OF VARIATION	1.1	.9	3.5	
<i>5 10 10 6S 4M</i>				
5307	5.0	10.1	10.6	102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>INTERNATIONAL MIN & CHEM CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
10 10 10M				
5309	9.9	10.2	10.0	100
5547	10.0	10.0	10.1	100
AVERAGE ANALYSIS	9.9	10.1	10.0	
COEFFICIENT OF VARIATION	.7	1.4	.7	
<u>INTERNATIONAL MIN & CHEM SKOKIE ILL</u>				
12 48 6M				
4976	12.3	49.4	6.1	103
6700	12.1	49.2	5.9	102
8668	12.1	49.4	5.8	102
AVERAGE ANALYSIS	12.1	49.3	5.9	
COEFFICIENT OF VARIATION	.9	2	25	
SULFATE OF POTASH				
5648			50.5	101
8520			50.5	101
9127			52.0	104
AVERAGE ANALYSIS			51.0	
COEFFICIENT OF VARIATION			1.6	
MURIATE OF POTASH				
9125			60.0	100
<u>INTERNATIONAL MIN & CHEM SOMERSET</u>				
0 10 20M WITH 5 LB BORAX PER 100				
9027 SEE NOTE 2		10.0	20.4	101
9349 SEE NOTE 2		10.0	21.0	103
AVERAGE ANALYSIS		10.0	20.7	
COEFFICIENT OF VARIATION			2.0	
0 20 20M				
4871 SEE NOTE 4		19.5*	15.9*	92*
8298 SEE NOTE 4		17.8*	19.1*	91*
8447		20.0	20.0	100
8733		20.4	21.2	103
9199		19.0*	20.5	98
9336		18.7*	20.5	97*
9366		21.9	17.8*	103
9367		20.6	18.8*	100
AVERAGE ANALYSIS		19.7	19.2	
COEFFICIENT OF VARIATION		6.4	9.0	
3 9 6M				
4755	3.0	9.0	6.2	101
4858	3.0	12.1	6.0	119
4996 SEE NOTE 8	4.2	11.0	10.4	136
9191	3.3	11.5	8.1	124
9339	3.3	10.8	7.6	118
AVERAGE ANALYSIS	3.1	10.8	6.9	
COEFFICIENT OF VARIATION	5.4	12.3	14.8	
3 12 12M				
4857	3.0	12.1	12.1	101
4884	3.0	12.4	12.4	103
9013	3.1	11.9	13.5	104
9195	2.9	12.1	13.0	102
9340	3.0	12.0	12.4	101
AVERAGE ANALYSIS	3.0	12.1	12.6	
COEFFICIENT OF VARIATION	2.3	1.5	4.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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 & CHEM CONTINUED</i>	(Percent)	(Percent)	(Percent)	
3 12 12M WITH 5 LB BORAX PER 100 8674 SEE NOTE 2	3.8	12.1	12.7	107
4 12 8M				
2899				
4856	3.9	12.1	8.5	102
4997	4.2	12.8	8.9	107
8099	3.9	12.1	8.5	101
8296	4.1	11.9	10.4	106
8439	4.2	11.9	8.9	103
8446	3.9	12.4	9.6	105
9101	3.8	12.0	8.4	100
9193	4.1	11.8	9.0	102
9194	3.7*	12.9	8.6	103
9338	3.8	12.2	8.8	101
AVERAGE ANALYSIS	4.1	12.6	8.3	104
COEFFICIENT OF VARIATION	3.9	12.2	8.9	
	4.3	3.0	6.9	
5 10 10M				
4998	4.7*	9.3*	10.2	95*
8295	5.0	10.1	10.4	101
9014	4.5*	9.6*	9.7	94*
9200	4.4*	8.9*	10.2	92*
9347	4.2*	10.0	10.0	95*
9348 SEE NOTE 8	4.9	10.9	13.3	111
AVERAGE ANALYSIS	4.5	9.5	10.1	
COEFFICIENT OF VARIATION	6.6	5.1	2.6	
5 10 15S				
4855	4.8	10.8	15.0	102
4883	4.7*	10.8	14.3*	100
8097	4.9	10.2	15.5	101
9102	4.5*	10.5	15.0	99
AVERAGE ANALYSIS	4.7	10.5	14.9	
COEFFICIENT OF VARIATION	3.6	2.7	3.2	
5 10 15S WITH 0020 ALDRIN 4975 SEE NOTE 3	4.4*	11.0	13.6*	98
5 10 15 12S 3M				
2884	4.7*	10.2	15.0	99
6593	4.7*	10.3	15.4	100
8098	4.7*	10.5	15.1	100
8448	4.8	10.2	15.0	100
9029	4.8	10.0	15.6	100
9100	4.6*	10.6	15.0	100
AVERAGE ANALYSIS	4.7	10.3	15.1	
COEFFICIENT OF VARIATION	1.5	2.1	1.6	
5 10 15 12S 3M WITH 0020 ALDRIN 6594 SEE NOTE 3	4.5*	10.4	15.0	99
5 20 20M				
4868	4.6*	20.0	19.3*	97*
4869	4.8	19.3*	19.5*	97*
8297	5.2	19.3*	20.1	99
8438	5.0	19.4*	20.2	99
9030	4.8	19.3*	20.0	97*
9197	4.9	18.4*	20.2	96*
9342	5.0	18.5*	20.5	97*
AVERAGE ANALYSIS	4.9	19.1	19.9	
COEFFICIENT OF VARIATION	3.9	2.8	2.1	
5 20 20M WITH 0033 ALDRIN 9343 SEE NOTE 3 AND 4	4.4*	17.1*	17.6*	87*

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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 & CHEM CONTINUED</i>				
6 12 12M				
4870	5.6*	12.0	12.0	98
9028	5.6*	12.1	12.0	98
9198	5.6*	12.0	13.5	101
9344	5.3*	11.4*	13.7	97*
9345	5.6*	12.0	12.4	99
AVERAGE ANALYSIS	5.5	11.9	12.7	
COEFFICIENT OF VARIATION	2.4	2.3	6.4	
6 12 18S				
8672	5.3*	12.3	18.2	98
9346	5.3*	12.9	17.5*	99
AVERAGE ANALYSIS	5.3	12.6	17.8	
COEFFICIENT OF VARIATION		3.3	2.7	
6 18 12M				
4866	5.8	17.0*	12.1	96*
9196 SEE NOTE 4	5.1*	16.6*	12.4	92*
9341 SEE NOTE 4	5.0*	17.0*	11.2*	91*
AVERAGE ANALYSIS	5.3	16.8	11.9	
COEFFICIENT OF VARIATION	8.2	1.3	5.2	
10 10 10M				
4854	9.8	10.5	10.1	101
4867	8.8*	10.4	10.7	97*
4962	9.0*	10.9	10.2	98
9031	9.6*	10.4	10.3	100
9032	9.5*	10.4	10.4	100
9192	8.5*	11.0	10.2	96*
9337	8.8*	10.8	10.2	97*
AVERAGE ANALYSIS	9.1	10.6	10.3	
COEFFICIENT OF VARIATION	5.3	2.4	1.9	
SUPERPHOSPHATE				
2898		21.1		105
<i>KENTUCKY FERTILIZER WORKS INC</i>				
0 20 20M				
5211		19.5*	21.1	100
5438		20.1	19.6	100
5564		20.3	20.5	102
5583		20.3	19.8	101
5825		19.7	21.4	101
AVERAGE ANALYSIS		19.9	20.4	
COEFFICIENT OF VARIATION		1.8	3.8	
3 9 6M				
5213	3.5	10.6	7.6	119
5439	3.4	8.7*	6.2	102
5565	3.4	9.4	6.2	107
5584	3.2	9.2	6.0	103
5754	3.5	9.2	7.0	109
5762	3.2	9.3	6.7	106
5776	3.3	10.1	6.9	112
5780	3.2	8.4*	6.2	99
5792	3.5	8.9	7.5	108
5798	3.4	9.0	7.1	107
5846	3.7	9.8	7.5	116
AVERAGE ANALYSIS	3.3	9.3	6.8	
COEFFICIENT OF VARIATION	4.6	6.7	8.6	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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 FERT WORKS INC CONTINUED</i>	(Percent)	(Percent)	(Percent)	
3 12 12M				
5214	32	122	13.0	104
5440	33	119	12.6	103
5585	32	123	12.5	104
5755	31	120	12.2	101
5763	31	121	12.5	102
5764	26*	134	11.5*	102
5793	31	120	12.6	102
5799	32	125	12.4	104
5826	31	120	12.4	102
5847	33	127	12.0	105
AVERAGE ANALYSIS	31	123	12.3	
COEFFICIENT OF VARIATION	6.3	3.7	3.2	
4 12 8M				
5212	43	124	8.1	104
5354	42	120	8.9	103
5441	47	116*	8.0	103
5521	45	120	7.7*	103
5566	43	119	8.4	103
5586	39	122	8.4	101
5691	42	122	8.0	102
5765	45	115*	8.4	102
5777	41	120	8.3	101
5779	41	120	8.1	101
5800	40	129	9.6	108
AVERAGE ANALYSIS	42	120	8.3	
COEFFICIENT OF VARIATION	5.5	3.1	6.1	
5 10 5M				
5398	52	10.0	5.5	103
5442	51	9.7	5.9	102
5587	53	9.3*	6.4	102
AVERAGE ANALYSIS	52	9.6	5.9	
COEFFICIENT OF VARIATION	1.9	3.6	7.6	
5 10 5M WITH 0025 ALDRIN				
3938 SEE NOTE 3	52	9.6*	5.8	102
5300 SEE NOTE 3	51	10.0	5.2	101
5434 SEE NOTE 3	51	9.5*	6.2	101
AVERAGE ANALYSIS	51	9.7	5.7	
COEFFICIENT OF VARIATION	1.1	2.7	8.7	
5 10 5M WITH 0050 ALDRIN				
5216 SEE NOTE 3	51	9.9	5.6	102
5 10 10M				
5443	51	10.3	10.2	102
5588	50	10.5	10.6	104
5692	55	10.0	10.9	105
5756	50	9.8	11.0	101
5766	51	10.4	10.7	104
5785	51	9.4*	11.3	101
5794	50	10.0	10.7	102
5801	49	10.0	10.7	101
5827	50	9.8	10.7	101
5848	49	9.9	10.9	101
AVERAGE ANALYSIS	50	10.0	10.7	
COEFFICIENT OF VARIATION	3.3	3.2	2.6	
5 10 15S				
5217	52	10.1	15.0	102
5355	54	9.7	15.7	103
5399	52	10.0	15.1	101
5444	51	10.2	15.2	102
5445	50	10.6	15.0	102
5446	48	10.5	15.0	101
5567	50	10.6	15.0	102
5589	50	10.5	15.7	103
5597	51	9.7	15.7	101

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>KENTUCKY FERT WORKS INC CONTINUED</i>				
<i>5 10 15S CONTINUED</i>				
5772	4.9	10.2	15.2	101
5830	5.0	10.3	15.5	102
5854	5.0	10.4	15.0	102
5855	4.9	10.2	15.0	100
8193	5.0	10.5	15.0	102
8212	5.0	10.6	15.0	102
8527	5.0	10.5	15.2	102
AVERAGE ANALYSIS	5.0	10.2	15.2	
COEFFICIENT OF VARIATION	2.7	2.8	1.8	
<i>5 10 15S WITH 0012 ALDRIN</i>				
5853 SEE NOTE 3	4.9	10.4	14.6*	100
<i>5 20 20M</i>				
5447	6.2	19.6*	19.3*	103
5590	5.1	18.7*	19.5*	96*
5795 SEE NOTE 4	4.6*	19.2*	18.3*	94*
AVERAGE ANALYSIS	5.3	19.1	19.0	
COEFFICIENT OF VARIATION	15.4	23	33	
<i>6 6 18S</i>				
5215	6.3	6.6	17.8	104
5448	6.3	6.6	18.0	104
5591	6.1	6.8	18.5	105
5757	6.1	6.5	18.7	104
5767	6.0	7.2	17.8	105
5781	6.3	6.9	17.4*	104
5802	6.4	6.6	18.0	105
5805	6.6	6.7	18.2	107
5806	6.7	6.5	18.2	107
5849	6.2	6.3	19.0	105
8192	6.4	6.8	18.2	106
AVERAGE ANALYSIS	6.3	6.6	18.1	
COEFFICIENT OF VARIATION	3.3	3.5	2.4	
<i>6 8 6M</i>				
5449	6.0	8.0	6.1	100
5568	6.3	8.0	6.3	103
5592	6.0	9.6	7.0	111
5771	5.2*	9.8	7.1	106
5786	5.7*	8.9	6.6	104
5796	5.5*	9.4	6.6	105
5803	5.7*	8.8	6.9	104
5850	6.0	9.8	7.5	113
5851	5.6*	8.8	7.2	104
8525	6.1	8.3	6.4	108
AVERAGE ANALYSIS	5.8	8.9	6.7	
COEFFICIENT OF VARIATION	5.6	7.7	6.5	
<i>6 8 6S</i>				
5218	6.4	8.7	6.6	108
5356	6.1	9.0	6.7	108
5400	6.2	8.8	6.4	107
5450	6.1	8.6	5.8	103
5522	6.0	8.4	7.3	105
5569	6.0	8.4	5.8	102
5593	6.2	8.4	6.0	104
5699	6.3	8.1	6.1	103
5778	6.1	8.3	6.1	103
5831	6.1	8.8	6.2	105
8526	6.1	8.8	6.1	105
AVERAGE ANALYSIS	6.1	8.5	6.2	
COEFFICIENT OF VARIATION	1.9	3.1	7.0	
<i>6 8 6S WITH 0025 ALDRIN</i>				
5435 SEE NOTES 1 AND 3	6.0	8.5	6.9	105

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>KENTUCKY FERT WORKS INC CONTINUED</i>				
6 12 12M				
5219	6.2	12.5	12.1	103
5451	6.4	12.3	12.6	104
5594	6.0	11.7	11.2*	97*
5758	6.3	12.1	12.4	103
5768	6.2	12.2	12.2	101
5787	6.3	12.1	12.1	102
5797	6.3	12.0	12.1	102
5804	6.3	12.0	12.4	102
5852	6.3	12.0	12.6	103
5856	6.3	12.1	12.2	102
AVERAGE ANALYSIS	6.2	12.1	12.1	
COEFFICIENT OF VARIATION	1.7	1.7	3.2	
8 10 16S				
5452	7.9	10.5	15.2*	100
5595	8.2	10.1	16.4	102
5759	7.6*	10.2	15.4*	98
5769	7.5*	9.5*	15.6*	95*
AVERAGE ANALYSIS	7.8	10.0	15.6	
COEFFICIENT OF VARIATION	4.0	4.1	3.3	
10 10 10M				
5220	10.2	10.0	10.3	102
5357	9.9	10.1	11.1	102
5453	10.1	10.4	10.2	102
5454	10.2	10.1	10.7	103
5570	10.1	10.1	10.7	102
5596	10.1	10.7	10.6	104
5760	10.0	10.4	10.2	102
5770	10.0	10.5	10.0	102
8194	10.1	10.1	11.1	103
8213	9.9	10.1	10.5	101
AVERAGE ANALYSIS	10.0	10.2	10.5	
COEFFICIENT OF VARIATION	1.0	2.2	3.5	
12 12 12M				
5437	11.6*	12.4	12.7	100
5571	11.6*	12.7	12.2	101
5683	11.3*	12.7	12.1	99
5761	12.0	12.7	12.0	102
5788	11.9	12.4	11.6*	100
AVERAGE ANALYSIS	11.6	12.5	12.1	
COEFFICIENT OF VARIATION	2.3	1.3	3.2	
SUPERPHOSPHATE				
5455		20.1		100
5456		19.9		100
5828		20.7		103
AVERAGE ANALYSIS		20.2		
COEFFICIENT OF VARIATION		2.0		
46 TRIPLE SUPERPHOSPHATE				
5553		45.4*		99
SULFATE OF POTASH MAGNESIA				
5436			21.4	102
5832			21.7	103
AVERAGE ANALYSIS			21.5	
COEFFICIENT OF VARIATION			9	
SULFATE OF POTASH				
5401			50.5	101
5457			50.5	101
AVERAGE ANALYSIS			50.5	
COEFFICIENT OF VARIATION				

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>KENTUCKY FERT WORKS INC CONTINUED</u>				
MURIATE OF POTASH				
5458			61.0	102
5829			60.0	100
AVERAGE ANALYSIS			60.5	
COEFFICIENT OF VARIATION			1.1	
<u>LAND O NAN WAREHOUSE</u>				
0 20 20M 8490		20.3	20.0	101
0 25 25M 8492		25.8	25.0	102
0 30 30M 8736		37.7	22.5*	109
3 12 12M 8734	3.2	15.3	12.5	117
5 20 20M 2954	5.1	20.6	18.9*	101
8488 SEE NOTES 5 AND 8	3.6*	16.7*	20.0	86*
8735 SEE NOTE 8	6.3	25.0	17.4*	115
6 12 12M 8742	5.5*	15.4	15.0	115
10 20 20M 8489	10.0	19.3*	19.6	98
10 30 20M 8491	9.4*	29.0*	21.4	98
<u>LOUISVILLE FERTILIZER COMPANY</u>				
0 10 30M WITH 5 LB BORAX PER 100 8220 SEE NOTE 2		11.1	32.5	09
0 20 20M 8218		18.4*	20.2	95*
5 10 15S 6024 SEE NOTE 1	5.1	10.0	15.0	101
6 6 18M 4768	5.8	6.7	19.2	104
6023	6.0	6.7	18.7	104
6030	5.8	7.3	17.8	104
6076	5.8	7.3	17.9	104
8216	5.4*	8.0	17.8	104
8219	5.8	6.8	19.0	104
AVERAGE ANALYSIS	5.7	7.1	18.4	
COEFFICIENT OF VARIATION	3.4	7.1	3.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>LOUISVILLE FERTILIZER CO CONTINUED</u>				
	(Percent)	(Percent)	(Percent)	
10 10 10M				
5149	10.0	10.3	10.0	101
6507	10.1	10.6	9.7	102
AVERAGE ANALYSIS	10.0	10.4	9.8	
COEFFICIENT OF VARIATION	.7	2.0	2.1	
10 30 20M				
5150 SEE NOTE 4	9.6*	28.9*	19.1*	96*
SUPERPHOSPHATE				
4767		20.1		100
<u>MISSISSIPPI CHEMICAL CORPORATION</u>				
AMMONIUM NITRATE				
5178	34.0			101
5614	33.8			101
9124	33.9			101
AVERAGE ANALYSIS	33.9			
COEFFICIENT OF VARIATION	2			
<u>MISSOURI PLANT FOOD COMPANY INC</u>				
4 12 8M				
5636	4.1	12.5	9.8	107
5 10 15S				
5637 SEE NOTE 1	4.5*	10.5	14.6*	98
15 15 15M				
5499	14.9	14.9	16.8	101
5923	14.5*	16.1	15.4	101
AVERAGE ANALYSIS	14.7	15.5	16.1	
COEFFICIENT OF VARIATION	1.9	5.4	6.1	
MURIATE OF POTASH				
5500			60.0	100
<u>MONSANTO CHEMICAL COMPANY</u>				
AMMONIUM NITRATE				
3672	34.1			102
3808	34.0			101
5733	33.6			100
9171	33.4			100
AVERAGE ANALYSIS	33.7			
COEFFICIENT OF VARIATION	.9			

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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)	
NORTH AMERICAN FERTILIZER COMPANY				
0 20 20M		17.2*	13.1*	79*
6131 SEE NOTES 5 AND 8		20.3	20.8	102
6226		20.9	18.3*	100
6251		19.2*	19.7	97*
6269		20.7	20.6	103
6370		20.5	20.2	102
8085		20.3	19.9	
AVERAGE ANALYSIS		3.2	5.0	
COEFFICIENT OF VARIATION				
0 20 20M WITH 5 LB BORAX PER 100		19.8	20.6	100
6127 SEE NOTE 2		19.8	20.8	101
6249 SEE NOTE 2		19.8	20.7	
AVERAGE ANALYSIS			.6	
COEFFICIENT OF VARIATION				
2 12 6M	2.6	12.0	8.0	111
5747	2.3	11.8	8.4	108
8087	2.4	11.9	8.2	
AVERAGE ANALYSIS	8.6	1.1	3.4	
COEFFICIENT OF VARIATION				
3 9 6M	3.0	9.4	6.4	104
4647	3.1	9.0	7.7	106
8119	3.0	9.2	7.0	
AVERAGE ANALYSIS	2.3	3.0	13.0	
COEFFICIENT OF VARIATION				
3 12 12M	3.1	11.9	12.0	100
4659	3.2	12.0	12.0	101
4978	3.1	12.0	12.6	102
6182	3.0	12.6	12.5	104
6270	3.1	12.3	12.0	102
6357	3.0	11.7	12.2	99
6369	3.1	11.8	12.6	101
6532	3.6	12.1	12.0	104
7030	3.0	12.0	12.4	101
8120	3.7	12.2	12.1	106
8469	3.1	12.0	12.2	
AVERAGE ANALYSIS	7.8	2.1	2.1	
COEFFICIENT OF VARIATION				
4 8 12S	4.1	9.3	12.6	109
7293 SEE NOTE 1				
4 12 8M	4.1	12.0	8.5	102
2883	3.9	11.6*	9.0	100
4648	4.1	12.2	8.6	103
4658	4.1	12.2	8.1	102
4730	4.1	12.0	8.5	102
4886	4.0	12.0	8.1	100
4979	4.1	11.7	9.5	103
5251	4.1	12.0	8.7	102
5412	4.1	12.3	8.1	102
5740	4.1	12.0	8.5	102
5773	4.2	12.0	8.6	103
6132	4.1	12.3	8.5	103
6366	4.2	12.0	9.2	104
6533	4.1	11.5*	8.5	100
7166	4.2	12.1	9.1	104
8091	4.1	11.9	8.6	
AVERAGE ANALYSIS	1.8	1.9	4.7	
COEFFICIENT OF VARIATION				
4 16 16M	4.1	16.1	16.8	102
6367				

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>NORTH AMERICAN FERT CO CONTINUED</i>	(Percent)	(Percent)	(Percent)	
5 10 10M				
4887	5.2	9.9	10.5	102
4935	5.0	10.2	10.0	101
5208	5.0	10.1	10.4	101
5413	5.0	10.2	10.2	101
5741	5.1	10.2	10.5	103
6128	5.0	9.9	10.6	101
6560	5.0	10.4	10.9	104
8470	5.2	10.0	10.1	102
AVERAGE ANALYSIS	5.0	10.1	10.4	
COEFFICIENT OF VARIATION	1.8	1.7	2.8	
5 10 15S				
4657	5.1	10.6	15.0	103
4729	5.2	10.0	15.9	103
4933	5.0	10.6	15.1	103
4977	5.1	10.4	15.4	103
4999 SEE NOTE 1	5.1	10.9	15.5	105
5414	5.1	10.8	16.2	106
5742	5.1	10.3	16.0	104
6129	5.0	10.1	15.0	100
6147	4.9	10.1	16.0	102
6228	5.1	10.2	16.2	104
6233	5.2	10.1	16.2	104
6262	5.1	10.1	16.2	103
6531	5.1	10.4	16.0	104
6561	5.0	10.4	15.2	102
6584	5.0	10.3	16.0	103
6696	5.1	10.1	16.0	103
7014	5.1	10.0	15.9	102
7015	5.1	10.0	15.5	102
7029	5.1	10.5	15.2	103
7165	5.0	10.8	15.6	104
7281	5.0	11.0	15.0	104
8089	5.1	10.2	15.2	102
8155	5.1	10.0	15.5	102
9088 SEE NOTE 1	5.0	10.6	14.2*	101
AVERAGE ANALYSIS	5.0	10.3	15.5	
COEFFICIENT OF VARIATION	1.3	2.9	3.3	
5 20 20M				
1974	4.8	19.0*	19.6	96*
4885	5.0	19.9	20.1	100
5000	5.0	20.0	19.7	100
5209	5.0	20.0	20.1	100
5753	5.0	19.5*	20.8	100
5902	5.0	19.9	20.3	100
6409	4.8	20.3	19.3*	99
7013	5.3	18.9*	19.4*	97*
8084	5.0	20.0	20.5	101
8090	5.1	19.2*	20.1	98
AVERAGE ANALYSIS	5.0	19.6	19.9	
COEFFICIENT OF VARIATION	2.8	2.4	2.4	
6 6 18S				
4894	6.1	6.9	18.0	104
5774	6.0	6.4	18.4	103
6141	5.9	7.1	18.0	104
6250	6.0	6.9	18.1	103
7012	6.1	6.4	18.3	103
7349	6.0	6.8	18.0	103
9120	6.0	6.4	18.2	102
AVERAGE ANALYSIS	6.0	6.7	18.1	
COEFFICIENT OF VARIATION	1.1	4.3	.8	
6 8 6M				
4649	5.8	9.3	6.6	107
5415	5.9	8.3	7.0	103
5743	6.0	8.8	6.3	105
6062	5.8	8.2	6.2	100
6183	6.0	8.0	7.0	103
6199	6.0	8.1	7.5	104

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>NORTH AMERICAN FERT CO CONTINUED</i>				
<i>6 8 6M CONTINUED</i>				
6392	6.3	8.7	7.2	109
6710	6.0	8.2	7.5	105
7164	5.8	8.7	6.9	104
8086	6.0	8.4	6.7	104
9089	6.0	8.4	6.3	103
AVERAGE ANALYSIS	5.9	8.4	6.8	
COEFFICIENT OF VARIATION	2.4	4.4	6.7	
<i>6 8 6S</i>				
4660 SEE NOTE 1	5.8	8.3	8.8	107
4727	5.8	8.3	6.5	101
4893 SEE NOTE 1	5.7*	8.0	7.2	101
5416	6.0	8.9	7.6	109
5744 SEE NOTE 1	6.0	8.8	6.9	106
5775 SEE NOTE 1	6.0	9.2	7.2	109
6035 SEE NOTE 1	6.1	8.9	7.6	109
6178	5.7*	8.9	7.1	105
6227	5.9	8.5	7.1	105
6404	6.0	8.3	7.3	107
7280	6.0	8.0	7.0	103
8121	5.8	8.3	7.0	103
8154	5.8	8.1	7.5	103
8440	6.0	8.7	6.9	106
8444	6.0	8.6	6.9	105
AVERAGE ANALYSIS	5.9	8.5	7.2	
COEFFICIENT OF VARIATION	2.1	4.3	7.2	
<i>6 12 12M</i>				
4934	5.8	12.0	12.0	99
6408	6.0	12.3	12.0	101
AVERAGE ANALYSIS	5.9	12.1	12.0	
COEFFICIENT OF VARIATION	2.3	1.7		
<i>10 10 10M</i>				
4936	9.5*	10.7	10.1	100
5417	10.0	10.5	10.7	103
5745	10.1	10.5	10.7	103
6034	9.5*	10.0	10.0	98
6198	9.1*	9.6*	10.4	95*
6247	10.2	10.2	10.3	102
6365	10.0	10.6	10.1	102
6393	9.8	10.7	10.7	103
6534	10.1	10.5	10.4	103
6697	10.0	10.5	10.2	102
6698	10.1	10.4	10.2	102
6711	9.6*	10.5	10.6	101
7292	10.1	10.4	11.1	104
8088	10.1	10.6	10.1	103
8445	9.9	10.5	10.3	102
8471	10.1	10.9	10.3	104
9001	9.6*	10.4	11.3	102
AVERAGE ANALYSIS	9.8	10.4	10.4	
COEFFICIENT OF VARIATION	3.0	2.8	3.4	
<i>10 52 17M</i>				
6714	10.5	53.6	16.4*	103
<i>SUPERPHOSPHATE</i>				
1973		20.1		100
1984		21.4		107
6368		19.2*		96*
AVERAGE ANALYSIS		20.2		
COEFFICIENT OF VARIATION		5.4		

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>OHIO VALLEY FERTILIZER INC</i>	(Percent)	(Percent)	(Percent)	
0 10 30M				
7019 SEE NOTE 5		11.2	26.5*	98
7310		10.3	28.5*	98
7311		10.4	28.7*	99
AVERAGE ANALYSIS		10.6	27.9	
COEFFICIENT OF VARIATION		4.6	4.3	
0 20 20M				
7316 SEE NOTE 5		17.3*	21.9	94*
3 12 12M				
7167	3.4	12.2	14.0	108
7169	3.3	12.2	14.5	108
7176	3.8	11.0*	11.1*	99
7301	3.0	12.0	12.6	101
7315	3.1	12.5	11.2*	101
7394	3.3	11.3*	13.0	101
AVERAGE ANALYSIS	3.3	11.8	12.7	
COEFFICIENT OF VARIATION	8.4	4.9	11.0	
4 12 8M				
3859	4.6	11.5*	11.2	109
4 16 4S WITH 0031 ALDRIN				
7016 SEE NOTE 3	4.0	15.5*	4.2	98
4 16 16M				
7173 SEE NOTE 5	4.2	15.5*	9.7*	89*
5 10 10M				
3861	4.4*	10.1	10.4	97*
7170	4.7*	9.8	10.1	97*
7302	4.5*	9.6*	10.1	95*
AVERAGE ANALYSIS	4.5	9.8	10.2	
COEFFICIENT OF VARIATION	3.3	2.5	1.6	
5 10 15S				
3860	4.6*	10.4	15.0	99
7018	4.9	10.5	14.9	101
7105	4.7*	10.0	15.1	98
7107	4.7*	10.5	14.2*	99
7174	4.8	10.0	15.9	101
7297	4.8	10.5	15.0	101
7303	4.8	9.7	15.2	98
7305	5.5	10.0	15.2	103
7306	5.0	10.7	14.0*	101
7307	5.2	10.1	15.0	102
7308	5.2	10.1	14.0*	100
7309	5.2	9.7	15.0	100
7313	5.4	9.6*	15.0	101
7314	4.8	9.6*	15.2	98
7391	4.8	10.2	15.0	100
AVERAGE ANALYSIS	4.9	10.1	14.9	
COEFFICIENT OF VARIATION	5.5	3.5	3.3	
5 10 20S				
7022	4.7*	10.0	19.1*	97*
7104	4.7*	10.2	18.6*	97*
7299	4.5*	10.0	20.1	97*
7312	4.6*	10.4	20.0	99
AVERAGE ANALYSIS	4.6	10.1	19.4	
COEFFICIENT OF VARIATION	2.0	1.8	3.7	
5 20 20M				
7017	4.4*	20.0	20.1	98

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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 INC CONTINUED</u>				
6 6 18S	5.3*	6.4	16.8*	95*
7106	5.6*	5.9	17.7	96*
7137	5.4*	6.4	16.7*	95*
7298	5.1*	6.3	17.0*	94*
7300 SEE NOTE 5	5.3	6.2	17.0	
AVERAGE ANALYSIS	3.8	3.8	2.6	
COEFFICIENT OF VARIATION				
6 8 6S	6.0	8.5	6.3	103
7393				
6 12 12M	5.9	11.7	13.4	101
7175				
8 10 15S	8.0	9.9	15.0	100
7020				
8 10 15S WITH ALDRIN	7.3*	10.2	15.0	97*
7108 SEE NOTE 3				
10 10 10M	9.4*	10.2	10.1	98
7021	9.1*	9.5*	10.3	94*
7168 SEE NOTE 5	9.0*	9.5*	10.5	94*
7171 SEE NOTE 5	9.4*	9.9	10.2	97*
7172	9.3*	9.7	10.4	96*
7304	9.3*	10.0	9.7	96*
7392	9.2	9.8	10.2	
AVERAGE ANALYSIS	1.7	2.8	2.7	
COEFFICIENT OF VARIATION				
<u>OLIN MATHIESON CHEMICAL CORPORATION</u>				
6 24 24M	6.0	23.6	24.5	100
6641				
10 20 20M	9.5*	19.7	20.0	98
6642				
<u>PRICE CHEMICAL COMPANY INC</u>				
0 20 20M		19.9	20.1	100
6194		19.0*	23.8	103
6201		20.8	20.0	103
6590		19.0*	21.7	100
6685		19.6	21.4	
AVERAGE ANALYSIS		4.3	8.3	
COEFFICIENT OF VARIATION				
2 12 6M	2.7	12.1	7.7	111
5430	2.2	12.0	6.7	104
8075	2.4	12.0	7.2	
AVERAGE ANALYSIS	1.44	5	9.8	
COEFFICIENT OF VARIATION				
3 12 12M	3.8	12.3	12.6	108
6196	4.0	12.0	12.2	107
6400	3.4	11.6*	12.2	101
8117	3.4	12.3	12.7	106
8687	3.6	12.0	12.4	
AVERAGE ANALYSIS	8.2	2.7	2.1	
COEFFICIENT OF VARIATION				

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>PRICE CHEMICAL CO INC CONTINUED</i>	(Percent)	(Percent)	(Percent)	
4 12 8M				
3814	4.0	12.0	9.1	103
4733	4.1	11.8	9.5	103
5168	4.0	12.1	9.0	103
6200	4.0	12.2	9.0	103
6399	4.4	12.0	9.1	105
6588	4.3	12.1	9.2	105
8197	5.1	10.9*	10.2	108
8305	4.8	11.4*	9.2	105
AVERAGE ANALYSIS	4.3	11.8	9.2	
COEFFICIENT OF VARIATION	9.5	3.7	4.3	
4 16 16M				
6689	3.7*	16.7	15.1*	99
5 10 15S				
3812	5.0	10.0	15.5	101
4732	5.5	9.4*	15.5	102
4846	5.2	10.3	16.0	104
5169	5.5	9.7	15.0	102
5402	5.0	9.9	15.5	101
5481	5.5	9.9	15.0	103
5598	5.1	9.6*	16.2	101
6025	5.5	10.0	14.8	103
6267	5.6	10.1	15.2	104
6403	5.6	10.7	15.0	106
6592	5.3	11.6	14.0*	106
6686	5.3	10.4	15.0	103
6720	5.2	11.4	14.3*	105
8118	5.5	9.9	15.0	103
8198	5.6	10.0	15.2	104
8675	5.0	10.9	14.2*	102
8685	5.0	10.3	15.5	102
AVERAGE ANALYSIS	5.3	10.2	15.1	
COEFFICIENT OF VARIATION	4.4	5.8	3.8	
5 20 20M				
6402	5.4	20.1	20.0	102
6690	5.2	20.0	21.2	102
AVERAGE ANALYSIS	5.3	20.0	20.6	
COEFFICIENT OF VARIATION	2.6	3	4.1	
6 6 18S				
6195	6.7	6.9	17.4*	107
8221	6.5	6.7	18.2	106
8545	6.6	6.8	18.2	108
AVERAGE ANALYSIS	6.6	6.8	17.9	
COEFFICIENT OF VARIATION	1.5	1.4	2.5	
6 8 6S				
3813	5.9	8.5	6.9	104
5170	6.1	8.0	6.5	102
5431	6.0	8.4	7.5	106
5482	6.0	8.4	6.7	104
5904 SEE NOTE 8	5.5*	11.7	6.6	116
6032	5.9	8.8	6.8	105
6192	6.1	8.4	7.0	105
6268	6.0	8.6	7.0	106
6397	6.0	8.6	6.9	105
6589	6.6	8.1	6.3	106
6721	6.5	8.1	6.5	106
8442	6.0	8.3	6.9	104
AVERAGE ANALYSIS	6.1	8.3	6.8	
COEFFICIENT OF VARIATION	3.8	2.9	4.7	
6 12 12M				
4731	5.6*	11.9	13.2	100
6033	5.8	12.0	12.5	100
6398	5.7*	12.0	12.4	99
8195	5.7*	12.1	13.0	101
8544	5.7*	12.2	12.6	100
AVERAGE ANALYSIS	5.7	12.0	12.7	
COEFFICIENT OF VARIATION	1.2	9	2.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>PRICE CHEMICAL CO INC CONTINUED</i>	(Percent)	(Percent)	(Percent)	
6 24 24M 5405	6.2	24.6	24.5	103
10 10 10M 5171	10.1	10.0	10.1	101
5483	10.3	10.5	10.4	104
5599	10.6	10.0	10.9	105
6031	10.5	10.0	10.7	104
6197	9.8	10.9	11.2	104
6202	10.1	10.3	11.2	104
6396	10.3	10.1	11.1	104
6591	10.3	10.1	10.3	102
6688	9.9	10.9	10.5	103
6719	9.8	10.9	10.9	104
8196	10.4	10.7	10.1	105
8546	9.5*	10.4	10.9	100
8676	9.7	10.6	10.2	101
8686	10.1	10.7	10.2	103
AVERAGE ANALYSIS	10.1	10.4	10.6	
COEFFICIENT OF VARIATION	3.2	3.3	3.8	
12 12 12M 5406	11.8	12.7	12.4	102
6193	12.1	12.4	12.0	102
6401	12.1	12.3	10.7*	99
6687	11.6*	12.5	11.7	99
AVERAGE ANALYSIS	11.9	12.4	11.7	
COEFFICIENT OF VARIATION	2.0	1.3	6.2	
SUPERPHOSPHATE 5172 SEE NOTE 5 AND 8		17.0*		85*
8463		20.1		100
46 TRIPLE SUPERPHOSPHATE 5403		46.8		102
MURIATE OF POTASH 5404			60.0	100
<u>O M SCOTT & SONS COMPANY</u>				
20 10 5M 3710	19.9	10.6	5.0	101
5379	20.1	11.5	5.4	104
6215	20.8	10.4	4.7*	103
AVERAGE ANALYSIS	20.2	10.8	5.0	
COEFFICIENT OF VARIATION	2.3	5.4	6.9	
UREA WITH 0100 2 4 D 5378 SEE NOTE 3	25.1			100
<u>SOUTHERN STATES SEE COOP FERT SER</u>				
<u>SPENCER CHEMICAL COMPANY</u>				
AMMONIUM NITRATE 5833	33.6			100
UREA 5718	45.5			101

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>SWIFT & COMPANY CHICAGO ILL</u>				
	(Percent)	(Percent)	(Percent)	
3 12 12M 8497	3.2	12.6	12.6	105
5 10 15S 5504	4.5*	10.7	15.2	100
5 20 20M 8248	5.1	21.1	18.9*	102
8498	5.2	19.4*	20.0	99
AVERAGE ANALYSIS	5.1	20.2	19.4	
COEFFICIENT OF VARIATION	1.3	5.9	3.9	
6 10 4M 1983	6.0	11.0	3.9	105
6 10 4M WITH 0025 CHLORDANE 1982 SEE NOTE 3	5.6*	10.6	5.3	103
6 24 24M 8246	5.5*	23.4	24.1	97*
8739	5.8	24.4	23.5*	100
AVERAGE ANALYSIS	5.6	23.9	23.8	
COEFFICIENT OF VARIATION	3.7	2.9	1.7	
8 12 6M 5381	8.6	13.3	7.8	111
10 10 10M 8247	10.2	11.3	10.5	106
8499	9.9	10.5	11.1	103
AVERAGE ANALYSIS	10.0	10.9	10.8	
COEFFICIENT OF VARIATION	2.1	5.1	3.9	
<u>SWIFT & COMPANY GREENVILLE OHIO</u>				
6 10 4M 5206	6.1	9.8	5.2	103
<u>SWIFT & CO NATIONAL STOCK YARDS ILL</u>				
3 12 12M 5645	2.9	12.0	13.7	103
4 8 12S 9047	3.9	9.2	12.7	107
4 12 8S 8398 SEE NOTE 1	4.0	13.5	7.5*	106
12 5 7S 5380	12.6	6.6	9.7	115

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>TENNESSEE CHEMICAL COMPANY</i>	(Percent)	(Percent)	(Percent)	
0 20 20M 3891		20.4	20.0	101
3 12 12M 7201	3.1	12.0	12.1	101
7387	3.2	12.0	11.9	101
AVERAGE ANALYSIS	3.1	12.0	12.0	
COEFFICIENT OF VARIATION	2.2		1.1	
4 12 8M 5719	4.3	11.9	8.4	103
7204	4.2	12.5	8.3	104
AVERAGE ANALYSIS	4.2	12.2	8.3	
COEFFICIENT OF VARIATION	1.6	3.4	.8	
4 16 16M 3900	4.1	16.1	16.0	101
7202	4.0	16.0	15.2*	99
AVERAGE ANALYSIS	4.0	16.0	15.6	
COEFFICIENT OF VARIATION	1.7	.4	3.6	
5 10 15S 3901	4.8	10.7	15.0	102
6168	5.2	10.0	15.5	102
7198	4.8	10.5	15.0	101
7390	4.9	10.2	15.3	101
AVERAGE ANALYSIS	4.9	10.3	15.2	
COEFFICIENT OF VARIATION	3.8	3.0	1.6	
5 20 20M 3897	5.0	18.9*	20.5	98
6 8 6M 3899	5.8	8.9	6.6	112
4734	5.6*	8.9	6.9	104
6169	5.6*	9.3	6.9	106
7200	6.0	8.6	6.5	104
AVERAGE ANALYSIS	5.7	8.9	6.7	
COEFFICIENT OF VARIATION	3.3	3.2	3.0	
6 8 6S 7199 SEE NOTE 1	5.5*	9.1	7.0	104
6 12 12M 3898	6.0	12.2	12.0	101
7203	6.0	12.4	12.1	102
7389	6.2	12.5	11.3*	102
AVERAGE ANALYSIS	6.0	12.3	11.8	
COEFFICIENT OF VARIATION	1.9	1.2	3.6	
10 10 10M 3890	9.8	10.7	10.0	101
7197	10.5	10.4	9.9	104
7388	10.0	11.1	9.6*	103
AVERAGE ANALYSIS	10.1	10.7	9.8	
COEFFICIENT OF VARIATION	3.5	3.2	2.1	
<i>SUPERPHOSPHATE</i> 6167		21.0		105

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>TENNESSEE CORP CINCINNATI OHIO</i>	(Percent)	(Percent)	(Percent)	
0 20 20M 6722		19.8	18.8*	97*
3 12 12M 5291	3.8	11.4*	12.1	103
6274	3.9	12.0	11.8	106
6726	3.2	12.4	11.9	103
AVERAGE ANALYSIS	3.6	11.9	11.9	
COEFFICIENT OF VARIATION	10.4	4.2	1.2	
4 12 8M 6204	4.1	12.0	8.6	102
6277	4.4	12.0	7.8	102
AVERAGE ANALYSIS	4.2	12.0	8.2	
COEFFICIENT OF VARIATION	4.9		6.8	
5 10 10S WITH 0020 ALDRIN 3806 SEE NOTE 3	5.2	10.1	9.7	101
5 10 5M 3807	5.3	10.0	5.4	103
3858	5.3	10.2	5.5	105
3998	4.8	10.7	6.9	107
8304	5.4	10.1	5.5	105
AVERAGE ANALYSIS	5.2	10.2	5.8	
COEFFICIENT OF VARIATION	5.2	3.0	12.3	
5 10 10M 3798	4.9	10.2	9.8	100
3857	5.1	10.2	10.3	102
5292	5.0	10.5	10.0	102
6273	5.2	10.3	10.0	103
6725	5.3	10.8	10.0	106
AVERAGE ANALYSIS	5.1	10.4	10.0	
COEFFICIENT OF VARIATION	3.1	2.4	1.7	
5 10 15S 3809	5.4	10.3	15.0	104
3854	5.5	10.5	15.0	105
5293 SEE NOTE 1	5.3	10.7	14.6*	104
6205	5.1	10.4	15.0	102
6272 SEE NOTE 1	5.1	11.0	14.4*	103
6724	5.1	10.8	15.0	104
AVERAGE ANALYSIS	5.2	10.6	14.8	
COEFFICIENT OF VARIATION	3.3	2.4	1.7	
5 20 20M 6723	4.8	20.1	20.0	99
10 6 4M 6061	10.2	6.6	4.0	104
10 10 10M 3805	9.9	10.1	10.3	100
3999	9.7	10.9	10.5	102
5294	10.0	10.4	9.8	101
6203	10.0	10.4	11.0	103
6275	10.8	10.1	9.0*	103
AVERAGE ANALYSIS	10.0	10.3	10.1	
COEFFICIENT OF VARIATION	4.1	3.1	7.5	
12 12 12M 3855	12.1	12.7	11.8	102

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>				
SUPERPHOSPHATE				
3856		20.2		101
6276		20.0		100
AVERAGE ANALYSIS		20.1		
COEFFICIENT OF VARIATION		.7		
SULFATE OF POTASH				
5295 SEE NOTES 5 AND 6			47.0*	94*
<u>TENNESSEE CORP NEW ALBANY IND</u>				
0 20 20M				
4597		20.3	18.0*	98
4705		20.1	20.2	101
4880		20.3	20.5	102
9026		20.1	20.0	100
AVERAGE ANALYSIS		20.2	19.6	
COEFFICIENT OF VARIATION		.5	5.7	
0 20 20M WITH 10LB BORAX PER 100				
4598 SEE NOTE 2		21.0	182.*	100
3 12 12M				
4607	3.1	11.3*	12.4	98
4879	3.1	11.7	12.1	100
4922	3.2	11.8	11.8	100
6435	3.1	12.0	11.0*	98
6667	3.0	12.0	11.5*	99
8255	3.0	11.7	13.2	101
8311	3.5	12.1	11.4*	102
9108	3.2	11.7	12.1	100
AVERAGE ANALYSIS	3.1	11.7	11.9	
COEFFICIENT OF VARIATION	5.0	2.1	5.6	
4 12 8M				
4596	4.1	12.1	7.8	101
4608	4.1	12.0	8.5	102
4877	4.0	12.2	7.1*	99
8103	4.1	12.1	8.6	103
8303	4.0	12.2	7.7*	100
AVERAGE ANALYSIS	4.0	12.1	7.9	
COEFFICIENT OF VARIATION	1.3	.6	7.7	
4 16 16M				
1957 SEE NOTE 4	3.4*	15.4*	14.5*	93*
6116	4.0	16.2	16.0	101
AVERAGE ANALYSIS	3.7	15.8	15.2	
COEFFICIENT OF VARIATION	11.4	3.5	6.9	
5 10 5M				
8256	5.4	10.0	5.3	103
5 10 10M				
4707	5.1	10.5	10.2	103
4923	5.0	9.9	14.2	109
AVERAGE ANALYSIS	5.0	10.2	12.2	
COEFFICIENT OF VARIATION	1.4	4.1	23.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>TENNESSEE CORPORATION CONTINUED</i>				
5 10 15S				
1953	5.2	10.3	15.1	103
4000	5.1	10.4	15.0	102
4600	4.8	10.7	15.5	103
4605	5.1	10.2	15.0	101
4878	5.0	10.1	15.2	101
6665	5.1	10.3	15.0	102
8100	5.0	10.3	15.0	101
8302	5.1	10.4	15.2	103
9025	5.0	10.2	15.5	102
9106	5.0	10.5	15.0	102
AVERAGE ANALYSIS	5.0	10.3	15.1	
COEFFICIENT OF VARIATION	2.1	1.6	1.3	
5 20 20M				
1956	5.0	20.4	20.1	101
4599	5.0	21.4	18.5*	102
4610	4.9	20.1	19.5*	99
4882	4.7*	20.4	20.2	100
8101 SEE NOTE 4	5.0	20.0	17.3*	96*
9024	4.9	21.0	20.0	102
9105	4.6*	20.6	21.7	102
AVERAGE ANALYSIS	4.8	20.5	19.6	
COEFFICIENT OF VARIATION	3.2	2.4	7.1	
6 6 18S				
6117	5.9	6.6	17.2*	100
6434	6.0	6.3	18.1	101
9119	6.0	6.8	17.5*	102
AVERAGE ANALYSIS	5.9	6.5	17.6	
COEFFICIENT OF VARIATION	.9	3.8	2.6	
6 8 6S				
4606	6.9	8.3	6.5	110
9104	5.8	8.3	6.7	102
AVERAGE ANALYSIS	6.3	8.3	6.6	
COEFFICIENT OF VARIATION	1.22		2.1	
6 12 12M				
6433	6.2	12.4	12.2	103
9109	6.4	12.3	12.6	104
AVERAGE ANALYSIS	6.3	12.3	12.4	
COEFFICIENT OF VARIATION	2.2	.5	2.2	
10 10 10M				
1954	10.0	10.7	10.0	102
4609	10.4	10.4	9.9	103
4706	10.3	10.6	9.8	103
6060	10.0	10.9	9.1*	102
6587	10.8	10.4	8.8*	103
6666	10.4	10.5	10.2	104
8102	10.0	10.4	10.9	103
8257	10.6	10.3	9.7	104
9107	10.1	10.5	9.7	102
AVERAGE ANALYSIS	10.2	10.5	9.7	
COEFFICIENT OF VARIATION	2.8	1.7	6.1	
12 12 12M				
4611	11.3*	12.9	12.0	100
<i>SUPERPHOSPHATE</i>				
1955		20.7		103
4881		20.4		102
6118		20.1		100
6432		19.9		100
AVERAGE ANALYSIS		20.2		
COEFFICIENT OF VARIATION		1.7		

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>TRI STATE CHEMICAL COMPANY</i>	(Percent)	(Percent)	(Percent)	
0 20 20M		20.5	20.0	102
7354		20.1	21.1	102
8500		20.3	20.5	
AVERAGE ANALYSIS		1.3	3.7	
COEFFICIENT OF VARIATION				
0 30 30M		31.1	26.7*	99
7207		34.7	25.5*	105
7263		32.9	26.1	
AVERAGE ANALYSIS		7.7	3.2	
COEFFICIENT OF VARIATION				
3 12 12M				
6535	3.1	13.7	13.2	111
7216	3.0	12.9	14.0	108
7351	3.1	12.8	13.2	107
AVERAGE ANALYSIS	3.0	13.1	13.4	
COEFFICIENT OF VARIATION	1.8	3.7	3.4	
4 12 8M				
6013	4.8	13.3	8.1	112
6526	4.1	13.5	8.9	110
6537	4.1	11.7	8.7	101
7357	4.5	11.4*	9.2	103
AVERAGE ANALYSIS	4.3	12.4	8.7	
COEFFICIENT OF VARIATION	7.7	8.6	5.3	
4 16 16M				
7215	4.1	17.2	16.8	106
7256	4.0	18.8	18.8	114
7323	5.2	15.6*	16.4	105
7352	4.1	18.6	19.3*	115
7358	4.7	16.0	16.1	104
AVERAGE ANALYSIS	4.4	17.2	17.4	
COEFFICIENT OF VARIATION	11.6	8.4	8.3	
5 10 15S				
6528	5.0	11.0	15.4	105
6747	4.3*	11.6	14.9	102
7274	5.0	11.2	15.1	105
AVERAGE ANALYSIS	4.7	11.2	15.1	
COEFFICIENT OF VARIATION	8.4	2.7	1.6	
5 20 20M				
7210	5.4	21.9	19.4*	106
7213	4.9	20.9	18.9*	101
7254	3.7*	21.9	17.9*	97*
7264	4.1*	21.8	20.0	101
7265	4.1*	20.5	20.5	98
7266	4.2*	20.2	21.4	99
7267	4.0*	21.7	20.0	101
7268	4.0*	21.3	20.0	99
7269	3.9*	21.6	20.0	100
7270	3.9*	20.0	21.2	97*
7271	4.0*	20.1	20.6	97*
7272	3.8*	20.7	20.0	97*
7273	3.9*	19.3*	21.4	96*
7275 SEE NOTE 5	3.4*	17.6*	18.9*	86*
7365	4.8	18.9*	20.1	96*
AVERAGE ANALYSIS	4.1	20.5	20.0	
COEFFICIENT OF VARIATION	12.4	6.0	4.8	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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 CO CONTINUED</u>				
6 8 6M				
6536	6.0	10.4	8.1	117
7214	6.7	10.5	8.9	125
7356	5.8	8.3	7.9	105
AVERAGE ANALYSIS	6.1	9.7	8.3	
COEFFICIENT OF VARIATION	7.6	12.7	6.3	
6 12 12M				
3726	6.0	13.8	12.5	108
6530	6.9	12.6	11.3*	106
6748	5.8	12.2	12.0	100
7209	6.1	13.2	12.4	106
AVERAGE ANALYSIS	6.2	12.9	12.0	
COEFFICIENT OF VARIATION	7.7	5.4	4.5	
6 24 24M				
7208 SEE NOTE 4	6.0	21.9*	22.6*	94*
10 10 10M				
3725	10.3	10.4	10.0	103
6527	8.9*	12.4	11.3	105
6746	8.8*	12.0	11.2	103
7217	8.3*	13.3	11.4	105
7353	9.6*	11.1	10.3	102
7366	9.9	11.0	10.4	104
7367	10.0	11.0	10.1	104
AVERAGE ANALYSIS	9.4	11.6	10.6	
COEFFICIENT OF VARIATION	7.8	8.6	5.6	
12 12 12M				
7211	10.8*	13.6	13.0	101
7255	11.0*	14.0	12.1	102
7324	11.7	14.1	13.1	106
7359	10.5*	12.7	13.2	97*
7362	11.0*	12.9	12.7	99
7363	10.9*	13.5	12.6	100
7364	11.0*	12.8	13.1	100
AVERAGE ANALYSIS	10.9	13.3	12.8	
COEFFICIENT OF VARIATION	3.3	4.3	3.0	
SUPERPHOSPHATE				
6529		20.6		103
47 TRIPLE SUPERPHOSPHATE				
7212		48.1		102
<u>UNITED STATES STEEL CORPORATION</u>				
AMMONIUM SULFATE				
8383	21.0			100
<u>VALLEY COUNTIES OF KENTUCKY COOP INC</u>				
0 30 30M				
4696		32.0	30.0	104
6612		32.9	28.7*	105
AVERAGE ANALYSIS		32.4	29.3	
COEFFICIENT OF VARIATION		1.9	3.1	
6 12 12M				
5874	6.1	11.6*	12.5	100

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>VALLEY CO OF KY COOP 'INC CONTINUED</u>				
6 24 24M				
5658	5.9	24.2	24.0	100
6628 SEE NOTE 5	6.0	23.3*	20.8*	95*
AVERAGE ANALYSIS	5.9	23.7	22.4	
COEFFICIENT OF VARIATION	1.1	2.6	10.1	
9 18 27S				
6629	9.0	17.4*	27.0	99
10 30 20M				
4695	9.9	29.4*	20.0	99
5659	11.4	31.4	19.5*	106
6318	9.6*	29.3*	21.6	99
6630	10.2	29.9	20.0	100
AVERAGE ANALYSIS	10.2	30.0	20.2	
COEFFICIENT OF VARIATION	7.6	3.2	4.5	
20 52 0				
4694	19.9	52.0		100
5159	20.5	52.8		102
5876	18.9*	50.6*		96*
AVERAGE ANALYSIS	19.7	51.8		
COEFFICIENT OF VARIATION	4.0	2.1		
30 10 0				
5158	30.6	10.7		103
5660	30.2	9.7		100
AVERAGE ANALYSIS	30.4	10.2		
COEFFICIENT OF VARIATION	9	6.9		
20 SUPERPHOSPHATE				
5331		20.1		100
53 TRIPLE SUPERPHOSPHATE				
5332		53.0		100
CALCIUM METAPHOSPHATE				
5333		64.0		101
MURIATE OF POTASH				
5661			60.5	101
5875			60.5	101
AVERAGE ANALYSIS			60.5	
COEFFICIENT OF VARIATION				
<u>VIRGINIA CAROLINA CHEM CINCINNATI</u>				
0 19 19M WITH 5 LB BORAX PER 100				
6656 SEE NOTE 2		19.5	19.6	103
6703 SEE NOTE 2		20.2	17.8*	102
8661 SEE NOTE 2		19.3	20.2	103
9012 SEE NOTE 2		18.2*	21.5	102
AVERAGE ANALYSIS		19.3	19.7	
COEFFICIENT OF VARIATION		4.2	7.7	
0 20 20M				
6186		20.1	21.4	103
6375		20.5	19.2*	100
6482		20.4	21.1	103
8657		20.5	20.0	102
9010		19.4*	20.0	98

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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 CHEM CONTINUED</i>				
	(Percent)	(Percent)	(Percent)	
AVERAGE ANALYSIS		20.1	20.3	
COEFFICIENT OF VARIATION		2.3	4.4	
3 12 12M				
2918	3.1	12.3	12.0	102
6125	3.5	12.8	12.5	108
6376	3.1	12.8	12.2	105
6479	3.0	12.2	12.6	102
6655	3.0	12.5	12.4	103
8663	3.0	12.9	12.2	104
8680	3.1	12.4	12.7	104
9011	3.3	12.5	12.4	105
AVERAGE ANALYSIS	3.1	12.5	12.3	
COEFFICIENT OF VARIATION	5.6	2.0	1.8	
4 12 8M				
1997	4.2	12.5	8.0	104
2916	4.0	12.7	8.2	104
4662	4.0	12.4	8.7	103
4710 SEE NOTE 8	5.2	12.7	8.7	113
5906	4.3	12.9	8.4	107
6185	4.0	12.3	8.0	101
6231	4.1	12.3	8.6	103
6658	4.0	12.2	9.3	104
8083	4.3	12.1	8.4	103
8666	4.1	12.0	8.9	103
8681	4.2	13.0	8.5	107
AVERAGE ANALYSIS	4.1	12.4	8.5	
COEFFICIENT OF VARIATION	2.9	2.6	4.7	
4 12 8M WITH 0017 ALDRIN				
5258 SEE NOTE 3 AND 4	4.7	12.7	8.4	111
4 16 16M				
6379	4.0	15.9	16.6	101
6478	4.3	16.0	16.6	103
6654	4.3	16.5	16.2	104
AVERAGE ANALYSIS	4.2	16.1	16.4	
COEFFICIENT OF VARIATION	4.1	1.9	1.4	
5 10 10M				
2917	5.3	10.8	9.8	103
5907	5.4	10.6	10.4	106
6430	5.0	10.5	10.2	103
8664	5.3	10.9	11.2	109
AVERAGE ANALYSIS	5.2	10.7	10.4	
COEFFICIENT OF VARIATION	3.2	1.7	5.6	
5 10 15S				
2920	5.4	10.9	15.0	106
4661	5.3	11.2	14.8	106
4673	5.4	10.9	14.3*	105
4709	5.3	10.8	14.4*	104
4864	5.4	11.3	14.6*	107
5261	5.5	10.5	14.6*	104
5908	5.3	11.2	14.9	106
6039	5.4	10.6	14.1*	103
6124	5.0	10.1	15.5	101
6380	5.1	10.9	14.9	104
6431	5.1	10.9	14.7	104
6670	5.1	11.7	14.4*	106
8658 SEE NOTE 1	5.0	11.1	16.0	106
8679 SEE NOTE 1	5.1	11.0	16.0	107
AVERAGE ANALYSIS	5.2	10.9	14.8	
COEFFICIENT OF VARIATION	3.2	3.5	3.9	
5 20 20M				
4663	5.3	21.1	17.1*	100
4711	5.8	20.2	19.4*	103
6036	4.7*	20.5	21.1	102
6040	5.3	21.0	19.5*	103
6184	5.6	21.2	19.2*	105

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>VIRGINIA CAROLINA CHEM CONTINUED</i>				
5 20 20M CONTINUED				
6187	4.9	19.5*	19.9	98
6374	4.9	21.3	19.1*	102
6477	5.0	20.2	20.0	101
6657	4.9	20.2	20.0	100
8529	5.1	21.3	19.7	103
8662	4.6*	20.7	21.4	102
8678	5.1	20.0	20.6	101
AVERAGE ANALYSIS	5.1	20.6	19.7	
COEFFICIENT OF VARIATION	6.8	2.8	5.5	
6 6 18S				
1958	6.1	6.6	18.1	103
5262	6.1	6.8	17.4*	103
8055	6.1	6.7	18.0	104
AVERAGE ANALYSIS	6.1	6.7	17.8	
COEFFICIENT OF VARIATION		1.4	2.1	
6 12 12M				
6377	6.8	12.2	10.8*	103
6480	6.2	12.2	11.8	101
6704	5.4*	12.8	12.4	100
8054	6.3	12.9	12.4	106
8660	6.2	12.6	12.2	104
AVERAGE ANALYSIS	6.1	12.5	11.9	
COEFFICIENT OF VARIATION	8.1	2.6	5.6	
6 12 18S				
8292	6.6	12.9	16.7*	104
8659	6.0	12.6	17.9	102
AVERAGE ANALYSIS	6.3	12.7	17.3	
COEFFICIENT OF VARIATION	6.7	1.6	4.9	
10 10 10M				
2919	10.1	10.8	10.5	104
4674	10.9	10.4	8.9*	104
5263	10.9	10.7	9.2*	106
5725	10.5	10.5	9.3*	103
6123	10.4	10.6	10.0	104
6232	9.7	10.4	11.6	103
6378	10.2	10.6	10.1	103
6483	9.7	10.5	10.2	101
6653	10.6	10.2	10.0	104
6671	10.3	10.3	10.2	103
8665	10.0	10.5	10.4	102
8677	10.2	10.5	10.2	103
AVERAGE ANALYSIS	10.2	10.5	10.0	
COEFFICIENT OF VARIATION	3.8	1.5	6.9	
10 30 20M				
2000	9.9	28.7*	20.3	98
12 12 12M				
6705	11.2*	13.4	12.7	102
SUPERPHOSPHATE				
5905		20.3		102
<i>VIRGINIA CAROLINA CHEM HOPKINSVILLE</i>				
0 20 20M				
9064 SEE NOTE 4		18.6*	18.1*	92*
9137		19.8	20.2	100
9139		19.3*	21.1	100
9153		18.8*	20.6	97*
9364		20.2	20.0	101
AVERAGE ANALYSIS		19.3	20.0	
COEFFICIENT OF VARIATION		3.4	5.7	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>VIRGINIA CAROLINA CHEM CONTINUED</i>				
0 20 20M WITH 3 LB BORAX PER 100 9185 SEE NOTE 2		19.3*	20.0	98
3 12 12M 6172	4.7	12.6	12.4	115
9069	3.9	12.0	12.0	106
AVERAGE ANALYSIS	4.3	12.3	12.2	
COEFFICIENT OF VARIATION	13.1	3.4	2.3	
4 12 8M 4579	4.3	12.4	8.1	104
4770	4.4	12.6	8.6	107
4775	4.4	12.4	8.9	107
5726	4.3	12.3	8.4	104
6004	4.3	12.0	8.0	102
6018	4.3	12.5	8.1	105
6154	4.4	12.1	8.9	105
6505	4.3	12.4	8.1	104
6739	4.5	12.1	8.5	105
8156	4.3	12.5	8.0	104
8237	4.6	11.9	8.1	104
9188	4.1	12.0	8.4	102
AVERAGE ANALYSIS	4.3	12.2	8.3	
COEFFICIENT OF VARIATION	2.8	1.9	3.9	
4 12 8M WITH 0050 ALDRIN 9061 SEE NOTE 3	4.3	12.6	9.0	107
5 10 15S 4578	5.1	10.9	15.0	104
4591	5.3	11.1	14.1*	104
4772	5.2	11.1	15.5	107
5727	5.3	10.0	15.2	102
6174	5.1	10.8	15.4	105
6538	5.1	10.7	15.1	104
6738	5.0	10.3	15.0	101
8030	5.2	10.2	13.9*	100
8157	5.2	10.5	15.0	103
8504	5.2	10.8	15.0	104
AVERAGE ANALYSIS	5.1	10.6	14.9	
COEFFICIENT OF VARIATION	1.8	3.5	3.4	
5 10 15S WITH 0030 ALDRIN 6624 SEE NOTE 3	5.2	10.4	15.5	104
9062 SEE NOTE 3	5.3	10.9	15.0	105
9152 SEE NOTE 3	5.1	10.1	15.0	101
AVERAGE ANALYSIS	5.2	10.4	15.1	
COEFFICIENT OF VARIATION	1.9	3.8	1.9	
5 20 0 9065	5.3	18.8*		97*
5 20 0 WITH 3 LBS BORAX PER 100 8028 SEE NOTE 2 AND 4	5.0	18.1*		93*
5 20 20M 5728	5.1	20.0	20.1	101
6623	5.4	18.7*	19.1*	97*
8031	5.5	20.2	19.6	102
8317	5.2	20.0	20.0	101
8503 SEE NOTE 5	5.1	17.6*	20.0	94*
9063	5.3	18.7*	20.0	98
9138	5.1	19.0*	19.9	98
9322	5.0	20.0	20.0	100
9363	5.1	19.9	19.3*	99
AVERAGE ANALYSIS	5.2	19.3	19.7	
COEFFICIENT OF VARIATION	3.1	4.5	1.8	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>VIRGINIA CAROLINA CHEM CONTINUED</i>				
6 8 6M 9365	4.6*	9.9	7.9	104
6 12 12M 1999	6.4	13.2	12.1	107
4580	6.1	12.1	12.7	102
4773	6.2	12.1	12.6	103
4917	6.4	11.8	12.4	102
5508	6.3	12.0	12.1	102
5628	6.2	13.0	10.7*	102
5729	5.8	12.1	12.0	99
6012	6.0	13.3	11.4*	104
6017	5.9	12.4	12.5	102
8029	6.2	12.3	12.4	103
8236	6.3	11.9	12.6	102
8502	6.0	12.6	12.1	102
9066	6.0	12.3	12.0	101
9148	6.4	12.0	11.4*	101
9151	6.1	12.0	12.2	101
9189	6.3	12.2	12.0	102
AVERAGE ANALYSIS	6.1	12.3	12.0	
COEFFICIENT OF VARIATION	3.0	3.7	4.3	
6 12 18S 4916	6.3	11.8	18.0	101
5730	6.3	12.5	17.2*	102
5734	6.4	12.3	18.1	103
9068	6.5	12.0	17.5*	102
9149	6.0	11.9	18.7	101
9186	6.0	12.3	17.4*	100
9362	6.1	12.0	18.0	101
AVERAGE ANALYSIS	6.2	12.1	17.8	
COEFFICIENT OF VARIATION	3.1	2.1	2.8	
10 10 10M 4774	10.0	10.5	10.2	102
5735	9.9	10.4	10.1	101
6003	9.9	10.6	10.0	102
6506	10.0	10.7	10.0	102
6517	10.0	10.7	10.4	103
8032	10.0	11.5	10.0	105
8235	9.9	11.2	10.2	104
9052	10.0	10.6	10.3	103
9067	10.1	10.4	10.2	102
9190	10.1	10.2	10.3	102
9321	10.1	10.3	10.9	103
AVERAGE ANALYSIS	10.0	10.6	10.2	
COEFFICIENT OF VARIATION	.7	3.6	2.5	
10 20 30M 6503	10.6	22.4	27.1*	104
10 30 20M 4769	10.5	32.1	18.5*	104
4771	10.1	31.0	18.6*	101
5488	10.4	32.3	18.5*	104
6002 SEE NOTES 4 AND 5 AND 8	8.6*	24.4*	18.5*	85*
6163 SEE NOTE 4	9.8	28.5*	19.0*	96*
6504 SEE NOTES 4 AND 5	9.5*	26.8*	20.0	93*
6508	9.7	29.5	19.2*	98
6516	10.0	30.9	18.5*	100
8316	10.3	30.0	20.6	101
8713	10.0	30.5	20.3	101
AVERAGE ANALYSIS	10.0	30.1	19.2	
COEFFICIENT OF VARIATION	3.3	5.7	4.3	
SUPERPHOSPHATE 5731		20.0		100

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>VIRGINIA CAROLINA CHEM MEMPHIS TENN</u>				
5 10 10M 9150	6.3	10.5	9.6*	110
5 20 20M 6341	5.1	19.2*	19.2*	99
6734	4.9	18.8*	20.4	97*
8495 SEE NOTE 7	5.6	17.4*	16.7*	94*
AVERAGE ANALYSIS	5.2	18.4	18.7	
COEFFICIENT OF VARIATION	6.9	5.1	10.0	
6 12 12M 6643 SEE NOTE 7	5.6*	12.0	9.8*	94*
6733	6.7	11.6*	12.3	103
8496	6.3	12.8	12.0	105
AVERAGE ANALYSIS	6.2	12.1	11.3	
COEFFICIENT OF VARIATION	8.9	5.0	11.7	
10 10 10M 5732	10.2	11.3	10.4	106
6340	10.3	10.4	10.6	104
8494	9.9	11.5	10.1	105
8505	10.0	10.4	10.1	102
AVERAGE ANALYSIS	10.1	10.9	10.3	
COEFFICIENT OF VARIATION	1.8	5.3	2.3	
<u>VIRGINIA CAROLINA MT PLEASANT TENN</u>				
0 20 20M 5913		19.4*	20.0	97*
8331		19.6*	20.0	99
AVERAGE ANALYSIS		19.5	20.0	
COEFFICIENT OF VARIATION		.7		
0 20 20M WITH 3 LB BORAX PER 100 8158 SEE NOTE 2		19.4*	20.0	98
0 20 20M WITH 5 LB BORAX PER 100 8704 SEE NOTE 2		19.4*	22.0	101
3 9 18M 2874	3.0	9.4	18.0	102
3 12 12M 5914	3.2	11.2*	12.4	99
6155	3.2	12.2	13.0	104
6209	3.4	12.0	12.9	105
8300	2.9	11.7	17.1	109
AVERAGE ANALYSIS	3.1	11.7	13.8	
COEFFICIENT OF VARIATION	6.4	3.6	15.7	
3 12 12 9S 3M 8333	3.2	12.1	10.6*	99
8706	3.2	11.4*	11.9	98
AVERAGE ANALYSIS	3.2	11.7	11.2	
COEFFICIENT OF VARIATION		4.2	8.1	
4 12 4M 8037 SEE NOTE 8	4.0	11.9	8.0	110

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June, 1960

Analyses deficient more than tolerance 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>VIRGINIA CAROLINA CHEM CONTINUED</i>				
4 12 8M				
2889	4.3	12.0	7.8	102
4980	4.2	12.0	8.1	102
8705	4.0	12.0	9.6	104
AVERAGE ANALYSIS	4.1	12.0	8.5	
COEFFICIENT OF VARIATION	3.6		11.3	
4 12 8 6S 2M				
8334	4.3	12.6	8.0	105
8709	4.3	11.6*	9.4	103
AVERAGE ANALYSIS	4.3	12.1	8.7	
COEFFICIENT OF VARIATION		5.8	11.3	
4 12 12M				
8710	3.7*	12.7	12.8	103
5 10 10M				
2888	4.9	10.2	11.4	103
4930	5.0	10.6	9.0*	100
8711	4.5*	10.1	10.9	99
AVERAGE ANALYSIS	4.8	10.3	10.4	
COEFFICIENT OF VARIATION	5.5	2.5	12.1	
5 10 10S				
8335	5.2	10.0	9.7	101
5 10 15S				
4931	5.1	10.0	15.2	101
4981	5.0	10.1	15.2	101
8082	4.8	10.5	14.4*	100
8301	5.1	10.1	15.2	101
8702	5.0	10.6	13.4*	100
AVERAGE ANALYSIS	5.0	10.2	14.6	
COEFFICIENT OF VARIATION	2.4	2.6	5.4	
5 20 20M				
2871	5.2	18.8*	18.7*	96*
2991	5.0	19.4*	21.7	101
4928	5.0	19.7	20.1	99
5915	5.2	20.0	18.2*	98
6210	5.0	20.1	19.7	100
8436	4.3*	18.8*	18.6*	92*
AVERAGE ANALYSIS	4.9	19.4	19.5	
COEFFICIENT OF VARIATION	6.7	2.9	6.6	
6 8 6M				
6188	5.8	8.5	6.5	102
6713	5.9	8.6	7.4	106
AVERAGE ANALYSIS	5.8	8.5	6.9	
COEFFICIENT OF VARIATION	1.2	.8	9.1	
6 8 6S				
5265	6.0	8.4	6.2	103
6211	6.0	8.7	6.4	105
8053	6.0	8.4	6.6	104
8437	5.9	8.9	6.2	104
8528	5.8	8.2	6.6	101
8667	5.9	8.3	6.6	102
AVERAGE ANALYSIS	5.9	8.4	6.4	
COEFFICIENT OF VARIATION	1.3	3.1	3.0	
6 12 12M				
2992	5.7*	12.5	13.7	103
4664	5.9	12.1	12.0	100
4929	5.6*	12.2	11.7	98
8433	6.0	12.0	12.1	100
8708	5.9	12.0	10.6*	97*
AVERAGE ANALYSIS	5.8	12.1	12.0	
COEFFICIENT OF VARIATION	2.8	1.7	9.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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>VIRGINIA CAROLINA CHEM CONTINUED</u>				
6 12 18S				
8332	6.1	12.3	16.9*	100
8432 SEE NOTE 1	5.9	11.9	16.2*	96*
8707	6.0	11.3*	18.5	99
AVERAGE ANALYSIS	6.0	11.8	17.2	
COEFFICIENT OF VARIATION	1.6	4.2	6.8	
8 24 0				
2872	7.2*	24.4		98
10 10 10M				
4982	9.6*	10.7	9.7	100
6037	9.3*	11.1	9.8	100
6156	9.5*	10.6	10.5	100
6212	9.8	10.7	10.1	102
8299	9.5*	11.0	10.2	101
8434	9.5*	10.0	9.7	97*
8703	8.6*	10.6	11.3	97*
AVERAGE ANALYSIS	9.4	10.6	10.1	
COEFFICIENT OF VARIATION	4.0	3.3	5.6	
<u>SUPERPHOSPHATE</u>				
2873		18.8*		94*
4932		20.0		100
8081		20.2		101
8435		19.0*		95*
AVERAGE ANALYSIS		19.5		
COEFFICIENT OF VARIATION		3.6		
<u>VIRGINIA CAROLINA CHEM RICHMOND VA</u>				
4 12 8M				
2879	4.3	12.1	8.1	103
6038	4.3	12.3	7.4*	102
6152	4.2	12.2	8.3	103
AVERAGE ANALYSIS	4.2	12.2	7.9	
COEFFICIENT OF VARIATION	1.3	.8	5.9	
5 10 15S				
2878	5.1	10.3	14.2*	100
5264	5.1	10.2	15.0	101
6208	5.0	10.4	15.1	102
AVERAGE ANALYSIS	5.0	10.3	14.7	
COEFFICIENT OF VARIATION	1.1	.9	3.3	
5 10 15S WITH 0007 ALDRIN				
5259 SEE NOTE 3 AND 6	4.9	10.4	15.0	101
6 8 6M				
1998	5.9	8.8	6.1	104
6175	6.6	8.4	6.5	108
AVERAGE ANALYSIS	6.2	8.6	6.3	
COEFFICIENT OF VARIATION	7.9	3.2	4.4	
6 12 12M				
6157	5.8	12.1	12.5	100
6339	6.1	12.2	12.8	103
AVERAGE ANALYSIS	5.9	12.1	12.6	
COEFFICIENT OF VARIATION	3.5	.5	1.6	

TABLE 1.—Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January-June, 1960

Analyses deficient more than tolerance 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 CHEM CONTINUED</i>				
	(Percent)	(Percent)	(Percent)	
6 12 18S				
4708	6.1	12.5	17.8	102
5260	6.0	13.2	18.2	104
6162	6.0	12.0	18.7	101
6189	6.3	12.8	17.9	104
6230	6.5	13.0	18.0	106
6429	6.0	13.5	16.7*	103
6481	6.3	12.4	18.7	104
AVERAGE ANALYSIS	6.1	12.7	18.0	
COEFFICIENT OF VARIATION	3.2	4.0	3.7	
10 10 10M				
6001	10.0	10.8	10.1	103
6173	10.1	10.2	10.1	101
AVERAGE ANALYSIS	10.0	10.5	10.1	
COEFFICIENT OF VARIATION	.7	4.0		
10 30 20M				
6153	9.9	30.8	20.0	101

TABLE 2 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, January-June 1960

Sample Number	Manufacturer, Brand Name	Phosphoric Acid		Percent of Relative Value Found
		Available Guar. Found (percent)	Total Guar. Found (percent)	
<u>RUHM PHOSPHATE & CHEMICAL CO.</u>				
3709	Rock Phosphate	2.9	30 30.4	101
8475	Rock Phosphate	3.0	30 29.6	99
<u>SCHROCK FERTILIZER SERVICE</u>				
3727	Rock Phosphate	4.1	33 32.6	99

TABLE 3 - Analyses of Inspection Samples of Bone Meal, Dried Manures, etc., January-June 1960

Sample Number	Manufacturer, Brand Name	Nitrogen (percent)	Total Phosphoric Acid (percent)	Potash (percent)	Percent of Relative Value Found
<u>ROTTGERING DISTRIBUTING CO.</u>					
5624	3.5-2.5-1.4 Organic Plant Food	4.0	3.5	1.7	122

TABLE 4 - 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 Cincinnati, Ohio	3743	3- 9- 6S	2.4
	6280	5-10-15S	1.0
	3677	6- 8- 6S	0.3
	6563	6- 8- 6S	0.4
American Agricultural Chemical Company Nashville, Tennessee	3885	3- 9- 6 4S 2M	0.3
	5342	4- 9- 3S	3.2
Armour Agricultural Chemical Company Cincinnati, Ohio	3689	5-10-15S	0.3
	4617	5-10-15S	3.0
Armour Agricultural Chemical Company Jeffersonville, Indiana	1959	5-10-15S	0.5
	2887	6-12-12S	1.1
	4992	6-12-12S	0.3
	5433	6-12-12S	0.4
	6066	6-12-18S	1.2
	2984	10-10-20S	0.9
	5282	10-10-20S	2.76
	6257	10-10-20S	2.2
8457	10-10-20S	0.8	
Armour Agricultural Chemical Company Nashville, Tennessee	4566	5-10-10S	0.6
	7196	5-10-10S	0.3
	6540	5-10-15S	0.6
	5515	6-12-18S	1.0
	6323	6-12-18S	2.7
Bartlett & O'Bryan Fertilizer Company	3707	5-10-15S	1.8
	7224	5-10-15S	0.4
Bluegrass Plant Foods, Inc. Cynthiana, Kentucky	7009	4- 8-12S	6.1
	6672	6- 6-18S	2.8
	7129	6- 6-18S	0.5
	6458	6- 6-18S with 0.15 Aldrin	0.3
	6681	6- 6-18S with 0.20 Aldrin	1.8
	6307	8-10-15S	1.0
Bluegrass Plant Foods, Inc. Danville, Kentucky	8128	5-10-15S	0.7
	9113	5-10-15S	1.9
Burley Belt Plant Food Works, Inc.	4974	5-10-15S	0.5
	5824	5-10-15S	0.3
	6466	8-10-15S	0.9
Commonwealth Fertilizer Company, Inc.	8403	5-10-15S with 0.30 Aldrin	1.3
Cooperative Fertilizer Service, Inc. Louisville, Kentucky	6022	4-12- 4S	0.6

(Continued)

TABLE 4 - (Cont'd.) 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
Davison Div. W. R. Grace & Company Nashville, Tennessee	5505	5-10-15S	1.2
	6729	5-10-15S	1.5
	8583	5-10-15S	0.6
	9050	5-10-15S	0.3
	8450	5-10-15S with 0.25 Aldrin	1.1
Davison Div. W. R. Grace & Company New Albany, Indiana	6136	5-10-15S	0.6
	6254	5-10-15S	0.7
Federal Chemical Company Humboldt, Tennessee	5345	5-10-15S	1.3
	5631	5-10-15S	1.3
	5918	5-10-15S	2.3
	6089	5-10-15S	1.1
	6327	5-10-15S	1.2
	6330 6326	5-10-15S 5-10-15S with 0.5 Heptachlor	1.5 4.3
Federal Chemical Company Louisville, Kentucky	7119	6- 6-18S	0.7
	5693	6- 8- 6S	0.6
	4939	9-10-15S	0.7
	6294	9-10-15S	0.4
Federal Chemical Company Nashville, Tennessee	1993	5-10-15S	0.7
	4691	5-10-15S	0.5
	5420	5-10-15S	0.5
	6166	5-10-15S	1.3
	8080	5-10-15S	1.13
	9155	5-10-15S	1.8
	8329	9-10-15S	0.9
	9156	9-10-15S	0.3
Hutson Chemical Company	1941	5-10-15S	0.9
	6510	5-10-15S	0.4
International Minerals & Chemical Corp. Carlsbad, New Mexico	9302	50% Sulfate of Potash	1.2
International Minerals & Chemical Corp. Cincinnati, Ohio	7069	4-12- 8S	5.3
	5254	5-10-15S	2.3
	5252	6- 6-18S	3.1
	5256	6- 8- 6S	0.4
International Minerals & Chemical Corp. Clarksville, Tennessee	4779	5-10-15S	2.7
	5336	5-10-15S 12S 3M	3.2
Kentucky Fertilizer Works	5435	6- 8- 6S with 0.25 Aldrin	0.6
Louisville Fertilizer Company Div. Armour Agric. Chemical Company	6024	5-10-15S	0.8

(Continued)

TABLE 4 - (Cont'd.) 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
Missouri Plant Food Company	5637	5-10-15S	0.3
North American Fertilizer Company	7293	4- 8-12S	0.3
	4999	5-10-15S	0.3
	9088	5-10-15S	1.3
	4660	6- 8- 6S	0.9
	4893	6- 8- 6S	0.3
	5744	6- 8- 6S	0.5
	5775	6- 8- 6S	0.4
	6035	6- 8- 6S	1.5
Swift & Company, Atlanta, Georgia	8398	4-12- 8S	1.7
Tennessee Chemical Company Div. Armour Agricultural Chemical Company	7199	6- 8- 6S	0.3
Tennessee Corporation Cincinnati, Ohio	5293	5-10-15S	0.26
	6272	5-10-15S	0.4
Virginia-Carolina Chemical Corporation Cincinnati, Ohio	8658	5-10-15S	0.8
	8679	5-10-15S	0.4
Virginia-Carolina Chemical Corporation Mt. Pleasant, Tennessee	8432	6-12-18S	0.4

TABLE 5 - Results of analyses of Boron in fertilizers reported in Table 1

COMPANY	Sample Number	% Guaranteed	% Found
American Agricultural Chemical Company Cincinnati, Ohio	3766	0.57	0.80
	6706	0.57	0.59
American Agricultural Chemical Company London, Kentucky	5896	0.57	0.82
	6428	0.57	0.66
	8186	0.34	0.35
	8670	0.57	0.69
	9178	0.57	0.54
	9331	0.57	0.54
	9355	0.57	0.59
Armour Agricultural Chemical Company Jeffersonville, Indiana	8166	0.57	0.56
	8547	0.57	0.56
Armour Agricultural Chemical Company Nashville, Tennessee	6028	0.57	<u>0.35</u>
	8215	1.14	1.08
	9187	0.34	0.38
Bluegrass Plant Foods, Inc. Cynthiana, Kentucky	6134	0.57	0.70
	6306	0.57	0.60
Bluegrass Plant Foods, Inc. Danville, Kentucky	2908	0.57	<u>0.47</u>
	8132	0.23	<u>0.32</u>
	8314	0.57	<u>0.50</u>
Burley Belt Plant Food Works	5812	0.28	0.40
Cooperative Fertilizer Service Louisville, Kentucky	4593	0.45	0.46
	4851	0.45	0.50
	4946	0.45	0.45
	8070	0.45	0.53
	8359	0.45	0.48
Cooperative Fertilizer Service Russellville, Kentucky	6753	0.45	0.56
Cooperative Fertilizer Service Winchester, Kentucky	6669	0.45	0.46
	6755	0.45	0.52
Davison Div. W. R. Grace & Company Nashville, Tennessee	8004	0.23	0.32
	8169	0.23	0.21
	8717	0.23	0.50
Federal Chemical Company Louisville, Kentucky	6282	0.57	<u>0.40</u>
	6558	0.57	<u>0.40</u>
	7124	0.57	<u>0.39</u>
Federal Chemical Company Nashville, Tennessee	8005	0.56	<u>0.36</u>
	9157	0.57	0.61
	9361	0.56	0.63
International Minerals & Chemical Corporation Somerset, Kentucky	8674	0.57	0.61
	9027	0.57	0.71
	9349	0.57	0.66

(Continued)

TABLE 5 - (Cont'd.) Results of analyses of Boron in fertilizers reported in Table 1

COMPANY	Sample Number	% Guaranteed	% Found
Louisville Fertilizer Company Div. Armour Agricultural Chemical Co.	8220	0.57	0.56
North American Fertilizer Company	6127	0.56	0.57
	6249	0.56	0.57
Tennessee Corporation	4598	1.13	1.27
Virginia-Carolina Chemical Corporation Cincinnati, Ohio	6656	0.57	<u>0.46</u>
	6703	0.57	<u>0.39</u>
	8661	0.57	<u>0.44</u>
	9012	0.57	<u>0.36</u>
Virginia-Carolina Chemical Corporation Hopkinsville, Kentucky	8028	0.34	0.74
	9185	0.34	0.38
Virginia-Carolina Chemical Corporation Mt. Pleasant, Tennessee	8158	0.34	0.53
	8704	0.57	<u>0.31</u>
West Kentucky Liquid Fertilizer Company	9219	0.45	<u>0.37</u>

TABLE 6 - Results of analyses of Insecticides contained in fertilizers shown in Table 1

COMPANY	Sample Number	Insecticide	% Guaranteed	% Found
American Agricultural Chemical Company London, Kentucky	4960	Aldrin	0.45	0.43
	4990	Aldrin	0.41	0.46
	5466	Dieldrin	0.37	0.34
	6140	Dieldrin	0.37	0.20
	8557	Aldrin	0.15	0.11
American Agricultural Chemical Company Nashville, Tennessee	6308	Aldrin	0.36	0.29
Armour Agricultural Chemical Company Cincinnati, Ohio	3810	Dieldrin	0.31	0.22
	5484	Dieldrin	0.18	0.12
Armour Agricultural Chemical Company Nashville, Tennessee	6342	Aldrin	0.15	0.32
Bluegrass Plant Food, Inc. Cynthiana, Kentucky	6289	Aldrin	0.31	0.21
	6458	Aldrin	0.15	0.14
	6681	Aldrin	0.20	0.19
	7003	Aldrin	0.31	0.30
	7004	Aldrin	0.31	0.32
	7130	Aldrin	0.20	0.19
	7135	Aldrin	0.30	0.29
	7136	Aldrin	0.15	0.26
Bluegrass Plant Food, Inc. Danville, Kentucky	2907	Aldrin	0.60	0.28
	5460	Aldrin	0.31	0.24
	8274	Aldrin	0.31	0.18
	8275	Aldrin	0.50	0.41
Burley Belt Plant Food Works, Inc. Lexington, Kentucky	3752	Aldrin	0.29	0.12
	3838	Aldrin	0.31	0.24
	5821	Aldrin	0.15	0.11
	5842	Aldrin	0.16	0.10
	6144	Aldrin	0.31	0.36
	6243	Aldrin	0.31	0.57
	7337	Aldrin	0.15	0.13
	7348	Aldrin	0.15	0.20
Commonwealth Fertilizer Company	8344	Aldrin	0.50	0.27
	8403	Aldrin	0.30	0.22
Cooperative Fertilizer Service Louisville, Kentucky	3784	Heptachlor	0.25	0.21
	3941	Heptachlor	0.25	0.21
	5182	Heptachlor	0.40	0.32
	5289	Heptachlor	0.25	0.21
	5476	Heptachlor	0.25	0.21
Cooperative Fertilizer Service Winchester, Kentucky	4899	Heptachlor	0.25	0.23
Davison Div. W. R. Grace & Company Nashville, Tennessee	5493	Aldrin	0.50	0.50
	5495	Aldrin	0.50	0.57
	8450	Aldrin	0.25	0.24

(Continued)

TABLE 6 - (Cont'd.) Results of analyses of Insecticides contained in fertilizers shown in Table 1.

COMPANY	Sample Number	Insecticide	% Guaranteed	% Found
Davison Div. W. R. Grace & Company New Albany, Indiana	6436	Aldrin	0.50	<u>0.38</u>
Federal Chemical Company Humboldt, Tennessee	5349	Heptachlor	0.50	0.52
	6326	Heptachlor	0.50	<u>0.23</u>
	6625	Heptachlor	0.15	<u>0.20</u>
Federal Chemical Company Louisville, Kentucky	6087	Heptachlor	0.50	0.50
	6088	Heptachlor	0.50	0.50
	7114	Heptachlor	0.15	<u>0.12</u>
Glasgow Fertilizer Company	9162	Aldrin	0.33	0.18
Hutson Chemical Company Murray, Kentucky	5863	Aldrin	1.00	<u>0.78</u>
	5865	Aldrin	1.00	<u>0.82</u>
	6347	Aldrin	1.00	<u>0.79</u>
	6619	Aldrin	1.00	0.88
International Minerals & Chemical Company Clarksville, Tennessee	5341	Aldrin	0.20	<u>0.15</u>
	8228	Aldrin	0.20	<u>0.18</u>
International Minerals & Chemical Company Somerset, Kentucky	4975	Aldrin	0.20	0.16
	6594	Aldrin	0.20	0.23
	9343	Aldrin	0.33	<u>0.17</u>
Kentucky Fertilizer Works Winchester, Kentucky	3938	Aldrin	0.24	0.21
	5216	Aldrin	0.50	<u>0.12</u>
	5300	Aldrin	0.25	0.25
	5434	Aldrin	0.25	0.20
	5435	Aldrin	0.25	<u>0.18</u>
	5853	Aldrin	0.13	<u>0.14</u>
Ohio Valley Fertilizer Company	7016	Aldrin	0.31	<u>0.22</u>
	7108	Aldrin	0.15	0.20
O. M. Scott & Sons	5378	2,4-D	1.00	----
Swift & Company	1982	Chlordane	0.25	0.24
Tennessee Corporation	3806	Aldrin	0.20	0.16
Virginia-Carolina Chemical Corporation Cincinnati, Ohio	5258	Aldrin	0.17	<u>0.13</u>
Virginia-Carolina Chemical Corporation Hopkinsville, Kentucky	6624	Aldrin	0.30	<u>0.16</u>
	9061	Aldrin	0.50	0.62
	9062	Aldrin	0.30	<u>0.08</u>
	9152	Aldrin	0.30	0.73
Virginia-Carolina Chemical Corporation Richmond, Virginia	5259	Aldrin	0.08	0.10

4.5M 12-60