Regulatory Bulletin 169

ANALYSES OF OFFICIAL FERTILIZER SAMPLES

by the

FEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT STATION

SEMI-ANNUAL REPORT
SPRING SEASON
JANUARY-JUNE, 1961

UNIVERSITY OF KENTUCKY, LEXINGTON

FEED AND FERTILIZER DEPARTMENT

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Special statistical data explained on pages 13 to 19 by W. G. Duncan

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EXPLANATION OF REFERENCES IN TABLES 1, 2 AND 3

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

Note 1. See Table 6 for analyses of samples in which the guarantee for sulphate of potash was not met.

Note 2. See Table 7 for the results of analyses of Boron in fertilizers.

Note 3. See Table 8 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 refuned 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. Returned to plant.

Note 9. This sample not included in average. See "Wild" samples on page 14.

This bulletin contains results of analyses of 3,687 official samples of commercial fertilizer made during the period January 1 through June 30, 1961. The average analysis of each plant food element and the coefficient of variation for each plant food are shown in Tables 1 and 2 for each plant. The average percentage of guarantee and the coefficient of variation for all samples of a manufacturer are shown on pages 16 thru 19.

Separate tables are provided for the results of analysis of mixed dry fertilizer, mixed liquid fertilizer, straight materials, boron, pesticides incorporated in fertilizer and for the percent of potash equivalent to excess muriate where the guarantee for Sulfate of Potash is 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 column 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 for all nutrients as expressed by the manufacturer's guaranteed analysis.

The results of analyses of all inspection samples are given in tables 1, 2, 3, 4 and 5. 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

The American Liquid Fert. Co., Inc.
2nd St. and St. Clair
Marietta, Ohio

Armour Agricultural Chemical Co.
350 Hurt Building
Atlanta, Georgia

Associated Cooperatives, Inc.
750 West 20th Avenue
Sheffield, Alabama

L. D. Bale & Company
Horse Cave, Kentucky

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

Bluegrass Plant Foods, Inc.
Cynthiana, Kentucky

Bunton Seed Company
300-306 E. Jefferson Street
Louisville, Kentucky

Burley Belt Plant Food Works, Inc.
Route #4
Lexington, Kentucky

California Chemical Company
Lucas & Ortho Way
Richmond, California

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

Chemical Formulators, Inc.
Nitro, West Virginia

Chilean Nitrate Sales Corporation
120 Broadway
New York, New York

Clover Chemical Company
P.O. Box 10865
Pittsburgh, Pennsylvania

Commercial Solvents Corporation
260 Madison Avenue
New York, New York

Commonwealth Fertilizer Company
Morgantown Road
Russellville, Kentucky

Cooperative Fertilizer Service
Southern States Building
Richmond, Virginia

Darling and Company
4201 S. Ashland Avenue
Chicago, Illinois

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

Diamond Fertilizer Company
Sandusky, Ohio

E. I. DuPont de Nemours & Company
6054 DuPont Building
Wilmington, Delaware

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

E'Town Fertilizer Company
Cecilia, Kentucky

Farmers Fertilizer Company
Smiths Grove, Kentucky

Farmers Supply & Produce Company
Monticello, Kentucky

Federal Chemical Company
646 Starks Building
Louisville, Kentucky

Glasgow Fertilizer Company
Glasgow, Kentucky

W. R. Grace & Co., Nitrogen Division
P.O. Box 4915
Memphis, Tennessee

Gro-Green Chemical Co.
P.O. Box 132
Shelbyville, Kentucky

Continued from previous page

Goulard & Olena, Inc.
Skillman, New Jersey

A. H. Hoffman, Inc.
Landisville, Pennsylvania

Hutson Chemical Company
Railroad Avenue
Murray, Kentucky

Hydroponic Chemical Company
P.O. Box 97-C
Copley, Ohio

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

Kentucky Fertilizer Works, Inc.
P.O. Box 595
Winchester, Kentucky

Kentucky Seed Company
Louisville, Kentucky

Land-O-Nan Warehouse
Sturgis, Kentucky

Lincoln Farm Service
Stanford, Kentucky

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

Mid-South Chemical Company
1222 Riverside Boulevard
Memphis, Tennessee

Miller Chemical & Fertilizer Corp.
3006 W. Coldspring Lane
Baltimore, Maryland

Mississippi Chemical Corporation
Yazoo City, Mississippi

Monsanto Chemical Company
800 N. Lindbergh Boulevard
St. Louis, Missouri

Na-Churs Plant Food Company
421 Monroe Street
Marion, Ohio

North American Fertilizer Company
Preston Street at Bergman
Louisville, Kentucky

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

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

Price Chemical Company, Inc.
Div. F. S. Royster Guano Co.
P.O. Drawer 1940
Norfolk, Virginia

Ra-Pid-Gro Corporation
88 Ossian Street
Danville, New York

E. Rauh & Sons Fertilizer Company
Union Stock Yards
Indianapolis, Indiana

Robin Jones Phosphate Company
204-23rd Avenue, North
Nashville, Tennessee

O. M. Scott & Sons Company
Marysville, Ohio

Semo Liquid Fertilizer Company
P.O. Box 301
Charleston, Missouri

Smith-Douglas Company, Inc.
P.O. Box 419
Norfolk, Virginia

Southern States Clark Co. Cooperative
Winchester, Kentucky

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

The Stadler Fertilizer Company
1010 Dennison Avenue
Cleveland, Ohio

Stim-U-Plant Laboratories, Inc.
2077 Parkwood Avenue
Columbus, Ohio

Swift and Company
Agricultural Chemical Division
National Stock Yards, Illinois

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

Continued from previous page

Tennessee Corporation
P.O. Box 7-Lockland Station
Cincinnati, Ohio

Tobacco States Chemical Company
P.O. Box 479
Lexington, Kentucky

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

U.S. Phosphoric Division
Tennessee Corporation
Tampa, Florida

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

Valley Counties of Kentucky Coop.
P.O. Box 351
Murray, Kentucky

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

Weil-Elliott Chemical Company
401 N. 37th Street
Louisville, Kentucky

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

EXPLANATION OF "STANDING OF MANUFACTURERS"

The standing of manufacturers, by plants, as determined by the results of analyses of official samples is given on pages 9 through 12. Purchasers of fertilizer can learn through a study of these pages 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:

Percent Guarantee in Nitrogen, Phosphoric Acid or Potash	Tolerance
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 459,840 tons. This is 0.4 percent less than the 461,786 tons sold during the same period of 1960. There was a decrease of 4,025 tons of mixed fertilizer and an increase of 2,079 tons of materials sold this spring. Although there was 0.4 percent less total fertilizer sold in the spring of 1961 than in the same period of 1960, the actual plant food used was 1.4 percent more.

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1961

MIXED DRY FERTILIZER

COMPANY AND PLANT	Samples			Analyses of N, P_2O_5, K_2O, 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*
American Agric. Chem. Co.	440	276	63	1468	1337	91
Cincinnati, Ohio	156	100	64	528	488	92
Knoxville, Tennessee	1	1	--	4	4	--
London, Kentucky	199	125	63	666	615	92
Nashville, Tennessee	49	22	45	167	132	79
Nat'l. Stock Yards, Ill.	14	10	71	41	38	93
New York, New York	9	7	78	27	26	96
Seymour, Indiana	12	11	92	35	34	97
Armour Agric. Chem. Co.	543	309	57	1,810	1,611	89
Atlanta, Georgia	18	13	72	60	57	95
Cincinnati, Ohio	169	119	70	568	533	94
Jeffersonville, Ind.	158	88	56	539	476	88
Louisville Fertilizer Co.	2	1	--	7	6	86
Memphis, Tennessee	17	6	35	51	41	80
Nashville, Tennessee	173	80	46	567	484	85
Tennessee Chemical Co.	6	2	33	18	14	78
Associated Cooperatives, Inc.	8	4	50	20	18	90
L. D. Bale & Company	17	4	24	53	45	85
Bartlett & O'Bryan Fert. Co.	16	4	25	52	41	79
Bluegrass Plant Foods, Inc.	158	73	46	546	469	86
Cynthiana, Kentucky	63	31	49	220	194	88
Danville, Kentucky	95	42	44	326	275	84
Bunton Seed Company	1	0	--	3	2	--
Burley Belt Plant Food Works	48	8	17	173	128	74
Chemical Formulators, Inc.	1	0	--	3	2	--
Clover Chemical Company	1	0	--	3	3	--
Commonwealth Fertilizer Co.	63	18	29	194	144	74
Cooperative Fertilizer Service	360	247	69	1,168	1,085	93
Bristol, Virginia	15	12	80	43	38	88
Louisville, Kentucky	144	112	78	477	457	96
Russellville, Kentucky	105	55	52	325	289	89
Winchester, Kentucky	96	68	71	323	301	93
Darling and Company	40	18	45	122	97	80
Davison Chemical Company	185	90	49	575	493	86
Nashville, Tennessee	82	31	38	249	200	80
New Albany, Indiana	103	59	57	326	293	90
Diamond Fertilizer Company	1	0	--	3	2	--
E'town Fertilizer Company	65	39	60	201	177	88
Farmers Fertilizer Company	2	0	--	7	3	43
Federal Chemical Company	326	131	40	1,052	868	83
Danville, Illinois	5	1	20	14	10	71
Humboldt, Tennessee	53	23	43	171	139	81
Louisville, Kentucky	144	67	47	474	403	85
Nashville, Tennessee	124	40	32	393	316	80
Glasgow Fertilizer Company	50	10	20	163	131	80
Goulard & Olena, Inc.	1	1	--	3	3	--
Gro-Green Chemical Company	28	15	54	98	89	91
A. H. Hoffman, Inc.	1	1	--	3	3	--
Hutson Chemical Company	29	3	10	95	59	62
Hydroponic Chemical Company	1	1	--	3	3	--

(Continued)

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1961 (Continued)

MIXED DRY FERTILIZER

COMPANY AND PLANT	Samples			Analyses of N, P_2O_5, K_2O, 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*
Int. Min. & Chem. Corp.	269	112	42	887	731	82
Cincinnati, Ohio	98	43	44	336	278	83
Clarksville, Tenn.	60	29	48	193	162	84
Greeneville, Tenn.	14	6	43	42	41	98
Somerset, Kentucky	95	33	35	310	244	79
Skokie, Illinois	1	0	--	3	3	--
Florence, Alabama	1	1	--	3	3	--
Kentucky Fertilizer Works	103	47	46	345	297	86
Land-O-Nan Warehouse	8	2	25	21	16	76
Louisville Fertilizer Co. See: Armour Ag. Chem. Co.						
Miller Chem. & Fert. Corp.	1	1	--	3	3	--
Monsanto Chemical Company	1	1	--	4	4	--
North American Fert. Co.	101	40	40	334	278	83
Ohio Valley Fert., Inc.	33	11	33	111	90	81
Olin Mathieson Chemical Co.	4	1	--	12	10	83
Little Rock, Arkansas	3	1	--	9	8	89
Houston, Texas	1	0	--	3	2	--
Price Chemical Company	93	43	46	316	269	85
Louisville, Kentucky	19	8	42	62	52	84
Norfolk, Virginia	74	35	47	254	217	85
Ra-Pid-Gro Corporation	2	0	--	6	3	50
E. Rauh & Sons Fert. Co.	5	4	80	15	14	93
Robin Jones Phosphate Co.	11	6	55	28	22	79
O. M. Scott & Sons Co.	2	2	--	6	6	100
Smith Douglass Company	5	2	40	16	13	81
Columbus, Ohio	1	1	--	3	3	--
Norfolk, Virginia	4	1	--	13	10	77
The Stadler Fert. Company	1	0	--	3	2	--
Swift & Company	20	10	50	61	52	85
Chicago, Illinois	8	5	63	24	21	88
Nat'l. Stock Yards, Ill.	12	5	42	37	31	84
Stim-U-Plant Laboratories	1	1	--	3	3	--
Tennessee Chemical Company See: Armour Ag. Chem. Co.						
Tennessee Corporation	97	46	47	314	278	89
Cincinnati, Ohio	40	19	48	127	111	87
New Albany, Indiana	57	27	47	187	167	89
Tri-State Chemical Company	32	8	25	101	75	74
Valley Counties of Ky. Coop.	2	1	--	5	3	60
Virginia-Carolina Chem. Corp.	190	99	52	613	543	89
Cincinnati, Ohio	62	32	52	202	180	89
Hopkinsville, Ky.	83	46	55	265	236	89
Memphis, Tennessee	6	4	67	18	16	89
Mt. Pleasant, Tennessee	26	9	35	86	73	85
Richmond, Virginia	13	8	62	42	38	90
MIXED LIQUID FERTILIZER						
The Amer. Liquid Fert. Co.	3	3	--	9	9	100
California Spray Chem. Co.	1	1	--	3	3	--

(Continued)

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1961 (Continued)

MIXED LIQUID FERTILIZER

COMPANY AND PLANT	Samples			Analyses of N, P_2O_5, K_2O, 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*
Commonwealth Fertilizer Co.	4	1	--	13	10	77
J. H. Erbrich Products Co.	2	0	--	6	4	67
Farmers Supply & Produce Co.	1	1	--	3	3	--
Hutson Chemical Company	1	0	--	3	1	--
Kentucky Seed Company	1	1	--	3	3	--
Land-O-Nan Warehouse	11	7	64	34	31	91
Lincoln Farm Service	1	0	--	3	2	--
Na-Churs Plant Food Company	1	0	--	3	2	--
Semo Liquid Fertilizer Co.	2	0	--	6	4	67
S. S. Clark Cooperative	1	1	--	3	3	--
Tobacco States Chemical Co.	2	1	--	8	6	75
Weil Elliott Chemical Co.	3	0	--	9	5	56
West Ky. Liquid Fertilizer Co.	54	12	22	161	120	75
Bowling Green, Kentucky	8	4	50	19	16	84
Hopkinsville, Kentucky	29	7	24	90	67	74
Guthrie, Kentucky	17	1	6	52	37	71
STRAIGHT MATERIALS						
Allied Chem. Corp., Nit. Div.	5	4	80	5	5	100
Hopewell, Virginia	2	2	--	2	2	--
Memphis, Tennessee	1	1	--	1	1	--
New York, New York	1	0	--	1	1	--
South Point, Ohio	1	1	--	1	1	--
The American Ag. Chem. Co.	27	23	85	30	27	90
London, Kentucky	17	13	76	18	15	83
Nashville, Tennessee	1	1	--	1	1	--
New York, New York	9	9	100	11	11	100
Armour Agric. Chem. Company	27	22	81	34	30	88
Atlanta, Georgia	1	1	--	2	2	--
Bartow, Florida	2	2	--	2	2	--
Cincinnati, Ohio	7	5	71	8	6	75
Crystal City, Missouri	3	3	--	3	3	--
Jeffersonville, Indiana	11	8	73	16	14	88
Nashville, Tennessee	3	3	--	3	3	--
Associated Cooperatives, Inc.	9	9	100	9	9	100
L. D. Bale & Company	2	1	--	2	1	--
Bluegrass Plant Foods, Inc.	6	2	33	8	5	63
Cynthiana, Kentucky	2	1	--	4	3	--
Danville, Kentucky	4	1	--	4	2	--
Burley Belt Plant Food Works	3	1	--	3	1	--
Central Farmers Fertilizer Co.	1	0	--	1	0	--
Chilean Nitrate Sales Corp.	3	3	--	3	3	--
Commercial Solvents Corp.	1	1	--	1	1	--
Commonwealth Fertilizer Co.	7	3	43	7	4	57
Cooperative Fertilizer Service	29	24	83	40	37	93
Bristol, Virginia	1	1	--	1	1	--
Louisville, Kentucky	14	10	71	19	17	89
Morganfield, Kentucky	1	1	--	1	1	--

(Continued)

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1961 (Continued)

STRAIGHT MATERIALS

COMPANY AND PLANT	Samples			Analyses of N, P_2O_5, K_2O, 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*
Coop. Fert. Service (Con't)						
Russellville, Kentucky	2	1	--	3	2	--
Winchester, Kentucky	11	11	100	16	16	100
Darling and Company	1	1	--	1	1	--
Davison Chemical Co.	16	9	56	18	12	67
Baltimore, Maryland	1	1	--	1	1	--
Bartow, Florida	1	1	--	1	1	--
Nashville, Tennessee	7	5	71	8	7	88
New Albany, Indiana	7	2	29	8	3	38
E. I. DuPont de Nemours & Co.	1	1	--	1	1	--
E'town Fertilizer Company	4	2	--	4	3	--
Federal Chemical Company	9	4	44	12	8	67
Louisville, Kentucky	5	2	40	8	5	63
Nashville, Tennessee	4	2	--	4	3	--
Glasgow Fertilizer Co.	4	3	--	5	5	100
W. R. Grace & Co. Nit. Prod. Div.	5	5	100	5	5	100
Gro-Green Chemical Company	1	1	--	1	1	--
Hutson Chemical Company	3	3	--	4	4	--
Int. Min. & Chem. Corporation	10	10	100	14	14	100
Cincinnati, Ohio	1	1	--	1	1	--
Carlsbad, New Mexico	5	5	100	7	7	100
Skokie, Illinois	3	3	--	5	5	100
Somerset, Kentucky	1	1	--	1	1	--
Kentucky Fertilizer Works	5	1	20	6	4	67
Land-O-Nan Warehouse	1	1	--	1	1	--
Mid-South Chemical Corporation	9	9	100	9	9	100
Mississippi Chemical Corp.	3	3	--	3	3	--
Monsanto Chemical Company	1	1	--	1	1	--
North American Fert. Company	7	3	43	9	7	78
Olin Mathieson Chem. Corp.	1	1	--	1	1	--
Price Chem. Co. Div. F.S. Royster	2	1	--	3	3	--
Louisville, Kentucky	2	1	--	3	3	--
Robin Jones Phosphate Co.	1	1	--	1	1	--
Spencer Chemical Company	13	12	92	13	13	100
Henderson, Kentucky	5	4	80	5	5	100
Kansas City, Missouri	8	8	100	8	8	100
Tennessee Corporation	2	2	--	2	2	--
New Albany, Indiana	2	2	--	2	2	--
U.S. Phosphoric Div. Tenn. Corp.	1	1	--	1	1	--
U.S. Steel Corporation	1	1	--	1	1	--
Valley Counties of Ky. Coop.	6	6	100	8	8	100
Virginia-Carolina Chem. Corp.	3	2	--	3	2	--
Cincinnati, Ohio	2	1	--	2	1	--
Richmond, Virginia	1	1	--	1	1	--
West Ky. Liquid Fert. Co.	3	1	--	3	1	--
Bowling Green, Kentucky	1	0	--	1	0	--
Hopkinsville, Kentucky	1	1	--	1	1	--
Guthrie, Kentucky	1	0	--	1	0	--
TOTAL	3687	1895	51	11562	9966	86

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

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 always variation around some average analysis.

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 directions 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 varies widely from plant to plant. 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 control 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.

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.

(Continued)

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:

Sample Number	Nitrogen Guarantee	Found	Squared
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

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

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

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

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.

(Continued)

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 58 such samples in the mixed fertilizer samples reported. Such samples are indicated in the table as "See note 9 ." 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 ± 10% of the average sample value.
   b. The variation of all the sample values is such that the samples more than ± 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 higher or lower by 10% or more of the extreme values 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.

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, P_2O_5 and K_2O 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 16 through 19. 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 Manfacturers, Kentucky, Spring Season, 1961*

Mixed Dry Fertilizer

COMPANY AND PLANT	Average Percentage of Guarantee for all Samples			Coefficients of Variation		
	N	P_2O_5	K_2O	N	P_2O_5	K_2O
	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)
American Agri. Chemical Co.	100.3	100.9	102.0	3.0	2.6	3.4
Cincinnati, Ohio	101.1	101.4	102.4	3.5	2.2	3.8
London, Kentucky	99.7	100.0	101.4	2.2	2.2	2.7
Nashville, Tennessee	98.2	101.6	101.8	4.3	3.1	5.1
National Stock Yards, Ill.	102.7	103.5	100.8	2.6	2.2	3.0
New York, New York	100.8	106.8	110.8	1.5	5.3	2.8
Seymour, Indiana	102.9	101.0	102.5	3.4	3.2	2.4
Armour Agri. Chemical Co.	101.5	101.6	101.8	3.8	3.7	4.3
Atlanta, Georgia	103.1	103.0	106.5	4.1	1.6	5.5
Cincinnati, Ohio	101.3	100.8	102.0	2.7	2.6	3.5
Jeffersonville, Indiana	101.8	102.1	103.2	4.2	3.1	2.7
Memphis, Tennessee	99.1	102.9	100.4	3.0	7.6	7.6
Nashville, Tennessee	101.4	101.7	99.9	4.6	4.7	5.4
Associated Cooperatives, Inc.	98.3	100.2	103.6	1.5	0.7	2.1
L. D. Bale & Company	99.7	96.4	102.8	4.7	6.1	4.7
Bartlett & O'Bryan Fert. Co.	101.1	100.3	101.8	3.1	4.5	8.6
Bluegrass Plant Foods, Inc.	101.0	99.4	101.8	3.4	3.0	3.7
Cynthiana, Kentucky	100.4	100.3	101.7	3.1	2.8	2.5
Danville, Kentucky	101.4	98.8	101.9	3.7	3.2	4.6
Burley Belt Plant Food Works	98.1	97.8	101.6	5.0	3.1	5.8
Commonwealth Fertilizer Co.	97.8	98.5	104.0	4.9	7.1	6.2
Cooperative Fert. Serv., Inc.	102.1	101.0	102.4	3.1	2.6	2.9
Bristol, Virginia	101.1	102.8	105.5	2.3	2.1	4.2
Louisville, Kentucky	103.5	101.0	102.8	3.2	2.4	3.3
Russellville, Kentucky	101.1	100.7	101.7	3.9	2.7	3.7
Winchester, Kentucky	101.2	101.0	102.0	2.5	3.0	3.3

Average Percentage of Guarantee and Coefficients of Variation for all Samples by Fertilizer Manfacturers, Kentucky, Spring Season, 1961*

Mixed Dry Fertilizer

COMPANY AND PLANT	Average Percentage of Guarantee for all Samples			Coefficients of Variation		
	N	P_2O_5	K_2O	N	P_2O_5	K_2O
	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)
Darling & Company	103.3	103.6	103.4	9.7	6.2	8.0
Davison Chem., Div. W. R. Grace	101.5	102.1	104.7	5.5	5.4	5.2
Nashville, Tennessee	102.2	100.3	103.7	4.9	4.9	5.1
New Albany, Indiana	100.9	103.6	105.5	6.0	5.9	5.3
E'Town Fertilizer Company	106.4	103.2	102.5	5.2	5.0	5.0
Federal Chemical Company	100.3	100.5	101.8	4.8	3.9	5.2
Danville, Illinois	100.7	96.1	102.3	0	1.2	1.1
Humboldt, Tennessee	102.7	99.6	102.2	5.0	3.2	4.9
Louisville, Kentucky	100.5	99.9	102.4	4.9	3.7	5.1
Nashville, Tennessee	99.0	101.8	101.0	4.6	4.9	6.2
Glasgow Fertilizer Company	100.7	99.8	102.1	3.7	3.7	4.4
Gro-Green Chemical Co.	99.2	105.6	101.3	4.2	4.4	2.7
Hutson Chemical Company	91.6	101.8	100.7	10.2	5.3	8.8
Internat'l Min. & Chem. Corp.	99.0	100.5	103.9	4.6	4.1	4.8
Cincinnati, Ohio	99.4	102.2	106.7	6.5	4.9	7.2
Clarksville, Tennessee	101.1	99.0	102.3	3.9	3.3	5.2
Greeneville, Tennessee	96.6	103.4	103.9	2.1	5.4	2.2
Somerset, Kentucky	97.8	99.2	102.1	4.1	3.3	2.8
Kentucky Fertilizer Works	100.8	99.4	102.3	3.6	3.4	6.1
Land-O-Nan Warehouse	102.0	97.5	107.8	2.8	1.0	16.0
Olin Mathieson Chemical Corp.	100.0	103.4	99.2	1.4	5.7	4.4
North American Fert. Co.	100.0	98.6	103.6	3.0	3.3	6.2
Ohio Valley Fertilizer, Inc.	95.6	98.9	102.2	2.8	3.4	3.3

Average Percentage of Guarantee and Coefficients of Variation for all Samples by Fertilizer Manfacturers, Kentucky, Spring Season, 1961*

Mixed Dry Fertilizer

COMPANY AND PLANT	Average Percentage of Guarantee for all Samples			Coeffieients of Variation		
	N	P_2O_5	K_2O	N	P_2O_5	K_2O
	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)
Price Chem., Div. F. S. Royster	101.7	101.6	102.2	3.4	3.7	5.5
Louisville, Kentucky	103.8	100.2	101.2	3.5	5.6	6.8
Norfolk, Virginia	101.2	101.9	102.5	3.4	2.9	4.9
Ra-Pid-Gro Corporation	104.3	96.2	96.8	2.4	4.2	1.3
E. Rauh & Sons Fertilizer Co.	104.8	100.7	99.2	2.2	1.0	2.4
Robin Jones Phosphate Co.	96.1	100.3	104.5	0	6.1	5.1
O. M. Scott & Sons Co.	101.5	105.0	101.0	2.1	2.7	1.4
Smith Douglas Co., Inc.	98.7	99.7	107.3	4.6	2.1	7.8
Swift & Company	103.0	101.5	100.7	2.0	5.4	3.1
Chicago, Illinois	102.8	105.2	100.8	1.7	7.9	3.3
National Stock Yards, Ill.	103.2	99.1	100.6	2.1	4.0	3.0
Tennessee Corporation	102.0	103.1	102.0	3.3	2.2	6.1
Cincinnati, Ohio	104.7	102.9	99.6	3.0	2.8	5.6
New Albany, Indiana	100.3	103.3	103.6	3.6	1.8	6.5
Tri-State Chemical Co.	95.8	102.3	104.0	4.8	5.6	5.0
Virginia-Carolina Chem. Corp.	101.9	101.7	101.7	3.0	3.0	5.0
Cincinnati, Ohio	102.6	102.5	100.9	4.7	2.9	5.8
Hopkinsville, Kentucky	101.8	101.6	102.7	2.5	4.0	4.3
Memphis, Tennessee	98.2	101.6	102.5	0.9	1.3	3.5
Mt. Pleasant, Tennessee	101.8	99.8	99.9	2.5	2.8	6.9
Richmond, Virginia	100.9	101.6	102.3	2.3	1.4	3.2

Average Percentage of Guarantee and Coefficients of Variation for all Samples by Fertilizer Manfacturers, Kentucky, Spring Season, 1961*

Mixed Liquid Fertilizer

COMPANY AND PLANT	Average Percentage of Guarantee for all Samples			Coefficients of Variation		
	N	P_2O_5	K_2O	N	P_2O_5	K_2O
	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)
American Liquid Fertilizer Co.	101.0	102.3	100.7	1.7	1.0	0.6
J. H. Erbrich Products Co.	106.7	96.1	97.5	2.2	4.9	6.0
Land-O-Nan Warehouse	104.1	97.7	101.3	10.7	24.3	0.6
Tobacco States Chemical Co.	101.0	98.5	101.0	1.4	1.4	0
West Ky. Liquid Fertilizer Co.	101.2	98.1	96.3	3.9	3.2	5.0
Bowling Green, Kentucky	101.1	98.0	93.5	2.0	0.6	0
Hopkinsville, Kentucky	101.6	98.4	98.4	6.2	4.4	5.0
Guthrie, Kentucky	100.6	97.6	93.3	1.5	2.7	4.9
Grand Average, All Companies						
Dry	101.3	101.2	102.4	4.8	3.1	4.8
Liquid	101.1	98.7	98.6	4.8	5.9	3.8

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

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
AMERICAN AGRICULTURAL CHEM CO CINN	(Percent)	(Percent)	(Percent)	
0 20 20M				
0239		20.0	20.8	101
1521		20.6	19.6	101
1545		20.7	18.9*	101
7594		20.6	19.3*	101
8902		20.2	21.4	103
AVERAGE ANALYSIS		20.4	20.0	
COEFFICIENT OF VARIATION		1.5	5.3	
0 20 20M WITH 5 LB BORAX				
7527 SEE NOTE 2 & 4		18.5*	20.0	95*
3 9 6 3 MURIATE 3 SULFATE				
7614	3.0	9.0	6.2	101
3 12 12M				
0655	3.1	12.4	12.4	103
1142	3.4	12.5	12.0	105
1468	3.3	12.1	12.7	104
4025	3.6	12.9	12.4	109
7520	3.2	12.6	12.0	104
7793 SEE NOTE 9	4.1	13.7	13.0	117
7798	3.9	12.4	12.1	108
7803	4.0	12.5	12.7	110
7849	3.7	12.3	12.6	107
8910	3.5	12.9	12.0	107
AVERAGE ANALYSIS	3.5	12.5	12.3	
COEFFICIENT OF VARIATION	8.7	2.1	2.5	
4 12 8M				
0380	4.0	13.0	7.3*	103
0762	4.1	12.1	8.0	100
1031	4.1	12.5	8.7	105
1110	5.0	11.9	8.0	106
4023	4.0	12.4	8.4	103
7521	4.6	12.2	8.0	105
7600	4.3	12.6	8.4	106
7618	4.3	12.4	8.3	105
7637	4.3	12.4	8.6	105
7640	4.3	12.5	8.4	105
7795	4.0	12.2	8.6	102
8909	4.2	12.9	8.3	106
8962	4.6	12.0	7.8	104
9566	4.5	13.0	8.3	109
AVERAGE ANALYSIS	4.3	12.4	8.2	
COEFFICIENT OF VARIATION	6.7	2.8	4.5	
4 12 8S				
7611	4.1	11.5*	8.7	100
7619	4.3	11.6*	8.3	101
8899	4.1	11.7	8.4	100
AVERAGE ANALYSIS	4.2	11.6	8.5	
COEFFICIENT OF VARIATION	2.8	.9	2.5	
4 16 4S				
0274	4.2	15.3*	4.9	100
7522	4.2	16.0	4.2	102
7620	4.1	16.0	4.5	102
7628	3.5*	16.0	5.4	100
8905	4.2	16.0	4.5	102
AVERAGE ANALYSIS	4.0	15.9	4.7	
COEFFICIENT OF VARIATION	7.5	2.0	9.9	
4 16 4S WITH 0030 ALDRIN				
0283 SEE NOTE 3	3.4*	15.9	5.2	98
4 16 16M				
1680	4.2	15.8	18.0	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
AMERICAN AGRI CHEMICAL CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S				
0275	5.2	10.1	15.7	103
0381	5.0	10.0	15.2	100
0652	5.1	10.3	15.2	102
0763	5.2	10.5	14.5*	102
1032	5.5	10.0	15.7	104
1071	5.3	10.2	15.4	103
1109	5.2	10.1	16.0	104
1140	4.3*	10.1	15.7	98
1143	5.2	10.0	15.0	101
1548	4.9	10.1	15.5	101
2066	5.0	10.1	15.0	100
2073	5.3	10.1	15.4	103
2396	5.1	10.0	15.0	101
6951	5.2	10.3	15.0	102
6952	5.2	9.9	15.5	102
7526	5.0	10.0	15.0	100
7597	5.2	10.1	14.6*	101
7615	5.1	9.9	15.2	101
7616 SEE NOTE 1	5.3	10.7	14.4*	103
7632 SEE NOTE 1	5.1	10.8	15.2	104
7648	5.3	10.0	15.5	103
7649	5.3	10.0	15.6	103
7736	5.0	10.1	15.0	100
7737	5.2	10.1	15.5	103
7794	5.2	10.1	15.1	102
8907	5.1	10.5	15.2	103
8908	5.1	10.0	15.3	101
8961	5.2	10.0	15.5	102
AVERAGE ANALYSIS	5.1	10.1	15.2	
COEFFICIENT OF VARIATION	4.0	2.2	2.5	
5 10 15S WITH 0015 ALDRIN				
0240 SEE NOTE 3	5.4	10.1	15.5	104
0732 SEE NOTE 3	5.1	9.9	15.6	101
AVERAGE ANALYSIS	5.2	10.0	15.6	
COEFFICIENT OF VARIATION	4.0	1.4	5	
5 20 20M				
0622	5.0	20.7	20.0	102
1144	5.1	20.4	20.1	102
1224	5.3	20.5	19.6	102
1325	5.0	20.2	20.4	101
1467	5.2	19.9	20.0	101
1469	5.0	19.6	20.5	100
1522	5.1	19.6	21.7	102
1547	5.1	19.9	21.0	101
1563	5.1	19.8	21.2	101
1657	5.1	19.7	21.2	101
2399	5.6	20.7	19.5*	104
4022	5.2	19.2*	21.8	101
7599	5.2	20.9	20.2	103
7837	5.0	20.3	20.0	101
7960	5.1	20.0	20.0	100
9922	5.1	20.5	20.0	102
AVERAGE ANALYSIS	5.1	20.1	20.5	
COEFFICIENT OF VARIATION	2.9	2.4	3.5	
6 6 18S				
1289	6.2	6.4	18.0	103
1471	6.1	6.5	18.5	104
1546	6.2	6.2	18.9	104
2069	6.4	6.5	18.0	105
7525	5.9	6.9	17.6	102
7617	6.0	6.2	18.7	102
7646	6.1	6.8	16.0*	100
7647 SEE NOTE 1	6.0	7.1	17.2*	103
AVERAGE ANALYSIS	6.1	6.6	17.9	
COEFFICIENT OF VARIATION	2.5	5.0	5.3	
6 8 6S				
0576	6.3	8.0	6.3	103
0733	5.6*	7.9	6.5	98
1108 SEE NOTE 1	6.0	9.2	7.1	109
1476	6.2	8.1	6.2	103
6953 SEE NOTE 1	5.9	9.5	8.0	112
7603	6.2	8.0	6.2	102
7612	6.1	8.2	6.2	102
7840	6.0	8.0	6.6	102
7865	6.0	8.2	6.5	102
8904 SEE NOTE 1	6.2	9.4	7.3	109
AVERAGE ANALYSIS	6.1	8.5	6.7	
COEFFICIENT OF VARIATION	3.3	7.6	8.9	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
AMERICAN AGRI CHEMICAL CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M				
0382	5.9	12.4	12.2	101
0413	6.2	12.7	12.4	104
1141	6.0	12.6	12.4	103
1225	6.0	12.4	12.2	102
1360	5.9	12.0	12.6	101
1364	6.1	12.5	12.6	104
1470	5.6*	12.3	12.1	99
2068	5.8	12.5	12.4	101
2397	5.9	12.2	12.1	100
7524	6.0	12.3	12.2	101
7601	6.0	12.2	12.6	102
7636	5.7*	12.2	12.1	99
7650	5.7*	12.4	12.2	100
AVERAGE ANALYSIS	5.9	12.4	12.3	
COEFFICIENT OF VARIATION	2.9	1.5	1.6	
6 12 12M WITH 0040 ALDRIN				
0241 SEE NOTE 3	6.0	12.0	12.6	101
6 12 18S				
1269	5.7*	11.9	18.0	98
1575	6.0	11.6*	18.2	99
7602	5.8	11.7	18.0	98
7864	5.7*	11.8	17.7	97*
AVERAGE ANALYSIS	5.8	11.8	18.0	
COEFFICIENT OF VARIATION	2.4	1.1	1.1	
6 24 12M				
0480	5.6*	23.6	12.5	98
7595	5.8	24.4	12.0	100
AVERAGE ANALYSIS	5.7	24.0	12.3	
COEFFICIENT OF VARIATION	2.5	2.4	2.9	
8 16 16M				
1576	8.0	16.2	17.1	102
8 32 0				
7593 SEE NOTE 4	7.1*	30.9*		94*
10 10 10M				
1290	10.2	10.1	10.4	102
2506	10.0	10.2	10.3	101
AVERAGE ANALYSIS	10.1	10.2	10.4	
COEFFICIENT OF VARIATION	1.4	.7	.7	
12 12 12M				
0242	12.1	12.7	12.4	103
0414	12.4	12.8	11.9	104
0565	12.0	12.3	12.0	101
0661	12.0	12.0	13.0	101
0764	12.3	12.5	11.6*	102
1070	12.0	12.4	12.0	101
1359	12.2	12.3	12.4	102
1544	12.0	12.6	11.8	101
1678	11.7	12.2	12.2	99
1681	11.8	12.3	12.2	100
2067	11.9	12.8	12.0	102
2072	12.3	12.8	12.0	103
2398	12.2	12.4	12.0	102
4021	11.8	12.7	12.4	102
4026	11.8	11.9	13.1	100
7523	12.0	12.5	12.2	102
7598	10.9*	12.4	12.1	97*
7639	12.1	12.5	12.0	102
7838	12.2	12.5	11.6*	102
7887	12.4	11.8	12.4	102
8900	12.0	12.8	12.6	103
8963	12.0	12.5	11.4*	101
9515	12.1	12.3	11.9	101
AVERAGE ANALYSIS	12.0	12.4	12.1	
COEFFICIENT OF VARIATION	2.6	2.3	3.3	
16 8 8M				
0243	15.9	8.5	8.0	101
1268	16.0	8.6	8.4	102
2062	15.0*	8.8	8.9	99
8916	15.3*	8.7	8.7	100
AVERAGE ANALYSIS	15.6	8.7	8.5	
COEFFICIENT OF VARIATION	3.1	1.5	4.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
AMERICAN AGRI CHEMICAL CO KNOXVILLE	(Percent)	(Percent)	(Percent)	
4 9 3S				
0306	4.1	9.1	3.5	103
AMERICAN AGRI CHEMICAL CO LONDON				
0 9 27M WITH 3 LBS BORAX				
9986 SEE NOTE 2		9.6	26.2*	101
0 20 20M				
0323		19.6	20.0	99
0433		19.8	19.3*	98
0566		20.0	19.9	100
1371		20.1	20.0	100
2562		20.0	21.7	103
9499		20.2	19.6	100
9562		20.6	19.5*	101
9637		19.6	20.6	100
9923		19.6	20.5	100
9930		20.0	20.2	100
AVERAGE ANALYSIS		20.0	20.1	
COEFFICIENT OF VARIATION		1.6	3.4	
0 20 20M WITH 5 LBS BORAX				
1448 SEE NOTE 2		19.1*	20.1	97*
9569 SEE NOTE 2		20.1	20.6	101
9985 SEE NOTE 2		19.4*	20.1	98
AVERAGE ANALYSIS		19.5	20.3	
COEFFICIENT OF VARIATION		2.6	1.4	
0 30 30M				
0545		29.8	29.3*	99
0716		29.9	30.0	100
9521		29.3*	29.5	98
9939		29.4*	30.0	99
AVERAGE ANALYSIS		29.6	29.7	
COEFFICIENT OF VARIATION		1.0	1.2	
3 9 6M				
0324	3.0	8.9	6.1	100
0434	3.0	9.2	6.0	101
0441	3.2	9.2	6.9	106
0586	3.0	9.2	6.1	102
0697	3.2	9.5	6.4	106
0702	3.0	9.0	6.2	101
7681	3.0	8.9	6.3	100
7835	3.1	9.3	6.2	103
9407	3.2	9.8	6.5	108
9460	3.3	9.6	7.0	109
9492	3.0	8.9	6.2	100
9524	3.1	9.0	6.9	104
9817	3.0	9.0	6.2	101
9825	3.1	9.3	6.2	103
9828	3.0	9.0	6.0	100
9926	2.9	8.6*	6.4	98
9928	2.9	8.6*	6.2	97*
AVERAGE ANALYSIS	3.1	9.1	6.3	
COEFFICIENT OF VARIATION	3.7	3.5	4.9	
3 9 6S				
1395	2.9	8.8	6.0	98
2561	2.9	9.0	6.3	100
9461	3.0	8.9	6.0	99
9491	3.0	9.0	6.2	101
9811	3.1	9.4	6.0	103
9938	3.0	9.2	5.7*	100
AVERAGE ANALYSIS	3.0	9.1	6.0	
COEFFICIENT OF VARIATION	2.5	2.4	3.4	
3 9 6S WITH 0015 ALDRIN				
9523 SEE NOTE 3	3.1	9.0	5.9	101
9639 SEE NOTE 3	3.0	9.3	5.8	101
AVERAGE ANALYSIS	3.1	9.2	5.9	
COEFFICIENT OF VARIATION	2.3	2.3	1.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
AMERICAN AGRI CHEMICAL CONTINUED	(Percent)	(Percent)	(Percent)	
3 9 18M WITH 5 LBS BORAX				
2407 SEE NOTE 2	3.1	9.2	17.5*	100
3 12 12M				
9459	3.1	12.1	12.0	101
9489	3.0	12.0	12.4	101
9497	3.1	12.1	12.2	102
9574	3.2	12.0	12.4	102
9808	3.0	11.8	12.4	100
9933	3.0	12.0	12.4	101
9987	3.0	12.0	12.6	101
AVERAGE ANALYSIS	3.1	12.0	12.3	
COEFFICIENT OF VARIATION	2.6	.8	1.5	
4 12 8M				
0325	4.1	12.1	8.3	102
0510	4.0	11.7	8.0	99
0567	4.1	11.5*	8.5	100
2262	4.1	11.7	8.5	100
2564	4.1	11.8	8.9	102
7833	4.0	11.9	8.4	100
8968	4.0	12.1	8.5	102
9463	4.0	11.6*	8.4	99
9488	4.0	11.7	8.6	100
9513	4.0	11.7	8.4	100
9641	4.0	11.6*	8.2	99
9813	4.1	11.9	8.4	101
9816	4.2	12.0	8.6	103
9927	4.0	11.6*	8.4	99
AVERAGE ANALYSIS	4.1	11.8	8.4	
COEFFICIENT OF VARIATION	1.6	1.6	2.4	
4 16 4S				
0360	4.1	16.0	4.2	101
7684	4.0	16.0	4.1	100
9567	4.0	16.1	4.0	100
AVERAGE ANALYSIS	4.0	16.0	4.1	
COEFFICIENT OF VARIATION	1.4	.4	2.4	
4 16 4S WITH 0030 ALDRIN				
0284 SEE NOTE 3	4.0	16.0	4.0	100
1053 SEE NOTE 3	4.0	16.0	4.0	100
8970 SEE NOTE 3	4.1	16.0	4.1	101
9568 SEE NOTE 3	4.1	16.3	4.0	102
AVERAGE ANALYSIS	4.1	16.1	4.0	
COEFFICIENT OF VARIATION	1.4	.9	1.2	
5 10 5M				
0326	4.9	9.6*	5.6	99
0435	5.0	10.0	6.1	103
0561	5.0	10.0	5.4	101
0720	5.0	10.7	5.1	104
9937	5.0	10.0	5.1	100
AVERAGE ANALYSIS	5.0	10.1	5.5	
COEFFICIENT OF VARIATION	.9	4.0	7.6	
5 10 10M				
0436	5.1	10.1	10.0	101
0442	5.0	10.0	10.4	101
0568	5.0	10.0	10.0	100
0703	5.0	11.0	9.1*	102
0721	5.0	9.9	10.6	101
2405	5.0	10.0	10.2	100
9518	5.1	10.0	10.0	101
9805	5.1	10.0	10.1	101
9826	4.9	9.9	10.9	101
9829	5.0	10.3	9.9	101
9932	5.0	10.2	10.1	101
9970	5.0	10.0	10.4	101
AVERAGE ANALYSIS	5.0	10.1	10.1	
COEFFICIENT OF VARIATION	1.2	3.0	4.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
AMERICAN AGRI CHEMICAL CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S				
0361	5.0	10.0	15.7	101
0511	5.0	10.1	15.0	100
0577	5.0	9.9	15.0	100
0698	5.0	10.0	15.2	100
0704	5.1	9.9	15.2	101
0903	5.0	10.0	15.0	100
1447	5.0	9.9	15.0	100
2316	5.0	10.1	14.9	100
2317	4.9	10.0	15.0	99
2627	5.0	10.1	15.0	100
7832	5.0	10.0	15.0	100
7979	5.0	10.0	15.0	100
8969	5.1	9.9	15.2	101
9464	4.8	10.3	13.9*	98
9490	4.9	10.0	15.0	99
9514	5.1	10.1	14.9	101
9633	5.1	9.9	15.0	100
9810	5.3	10.1	15.0	102
9818	4.8	10.1	15.0	99
9925	5.0	10.0	15.0	100
9929	4.8	10.2	15.0	100
AVERAGE ANALYSIS	5.0	10.0	15.0	
COEFFICIENT OF VARIATION	2.3	1.1	2.0	
5 10 15S WITH 0015 ALDRIN				
1394 SEE NOTE 3	5.0	9.6*	15.0	98
9640 SEE NOTE 3	4.8	10.0	15.0	99
AVERAGE ANALYSIS	4.9	9.8	15.0	
COEFFICIENT OF VARIATION	2.9	2.9		
5 20 20M				
0388	4.9	19.1*	20.0	97*
1445	5.2	20.4	19.4*	101
2234	5.0	19.2*	20.2	98
2318	4.9	19.2*	20.4	98
2319	5.0	19.0*	19.9	97*
9458	5.0	19.3*	20.5	99
9517	5.1	19.3*	20.2	99
9635 SEE NOTE 5	4.8	18.5*	20.6	96*
9773	5.0	20.0	20.2	100
9806	5.0	20.0	20.2	100
9931	5.0	19.9	20.5	100
9984	5.0	19.5*	20.8	100
AVERAGE ANALYSIS	5.0	19.5	20.2	
COEFFICIENT OF VARIATION	2.0	2.7	1.8	
6 6 18S				
1253	6.0	6.1	18.6	102
1446	6.0	6.5	17.7	101
1570	6.0	6.1	18.2	101
1579	6.0	6.1	18.0	100
2406	6.0	6.0	18.0	100
7980	6.1	6.2	18.0	101
8915	6.0	6.0	18.5	101
9522	6.0	6.2	18.4	102
9638	5.9	6.0	18.0	99
9814	6.0	6.4	18.2	102
9936	6.1	6.1	18.0	101
9971	6.1	6.3	17.7	101
AVERAGE ANALYSIS	6.0	6.2	18.1	
COEFFICIENT OF VARIATION	1.0	2.6	1.6	
6 6 18S WITH 0015 ALDRIN				
1568 SEE NOTE 3	6.0	6.0	18.1	100
6 8 6M				
0389	5.9	8.5	7.3	105*
1399	5.8	8.2	6.9	102
1569	5.7*	8.1	7.7	104
AVERAGE ANALYSIS	5.8	8.3	7.3	
COEFFICIENT OF VARIATION	1.7	2.5	5.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
AMERICAN AGRI CHEMICAL CONTINUED	(Percent)	(Percent)	(Percent)	
6 8 6S				
0362	6.2	8.0	5.8	101
0512	6.1	7.9	5.9	100
0578	6.0	7.8	6.1	99
1252	5.9	8.0	6.1	100
1443	6.0	8.2	6.0	101
1667	6.0	8.0	6.0	100
2260	6.0	7.9	6.1	100
2628	6.0	8.0	6.0	100
7680	6.0	8.2	5.7*	100
7836	6.0	8.3	6.1	102
9636	5.9	8.0	5.8	99
9809	6.0	8.2	6.0	101
9935	6.0	8.0	6.1	100
AVERAGE ANALYSIS	6.0	8.0	6.0	
COEFFICIENT OF VARIATION	1.3	1.8	2.3	
6 12 12M				
0437 SEE NOTE 4	5.3*	11.4*	10.8*	92*
0555	6.0	11.8	12.4	100
0569	6.0	11.7	12.1	99
0579	6.1	12.2	12.2	102
1370	6.0	11.5*	12.0	98
1372	6.0	12.0	12.4	101
2261	5.6*	12.3	12.1	99
2560	6.1	12.1	13.0	103
7683	6.2	12.2	12.0	102
7834	6.0	11.8	12.1	99
9457	6.3	12.0	12.4	102
9519	5.9	12.1	12.0	100
9563	6.3	12.1	12.1	104
9807	6.1	12.0	12.1	101
9934	5.7*	12.1	12.0	99
AVERAGE ANALYSIS	6.0	12.0	12.1	
COEFFICIENT OF VARIATION	4.5	2.2	3.7	
8 8 18S				
1562	7.3*	8.9	19.0	101
2061	7.6*	8.4	18.1	99
2408	7.5*	8.3	18.0	98
3095	7.6*	8.0	18.5	99
8981	7.7*	8.2	18.0	99
9520	7.7*	8.1	18.0	99
AVERAGE ANALYSIS	7.6	8.3	18.3	
COEFFICIENT OF VARIATION	2.0	3.8	2.2	
10 6 4M				
0390	9.9	6.5	4.6	103
10 6 4M WITH 0030 ALDRIN				
0285 SEE NOTE 3	9.9	6.2	4.2	101
1052 SEE NOTE 3	9.6*	6.2	4.4	99
9495 SEE NOTE 3	10.3	6.4	4.4	107
AVERAGE ANALYSIS	9.9	6.3	4.3	
COEFFICIENT OF VARIATION	3.5	1.8	2.7	
10 10 10M				
0546	9.8	10.2	9.9	100
0570	10.1	10.0	10.1	101
0917	9.7	10.2	10.0	99
1442	10.0	10.0	9.9	100
2233	10.0	9.9	10.2	100
2409	10.0	10.0	10.1	100
2563	10.1	10.0	10.0	101
7863	9.8	10.2	9.8	99
8982	10.3	9.9	10.2	102
9462	10.0	10.0	10.1	100
9496	10.1	10.6	10.1	103
9634	10.0	10.0	10.1	100
9812	9.7	10.1	10.0	99
9827	10.0	10.2	10.0	101
9924	10.0	10.0	10.4	101
AVERAGE ANALYSIS	10.0	10.1	10.1	
COEFFICIENT OF VARIATION	1.6	1.8	1.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
AMERICAN AGRI CHEMICAL CONTINUED	(Percent)	(Percent)	(Percent)	
12 12 12M				
0438	11.8	11.7	12.6	99
0571	11.3*	11.4*	12.0	95*
0587	11.7	11.9	12.1	99
1400	11.1*	12.0	11.9	97*
AVERAGE ANALYSIS	11.5	11.8	12.2	
COEFFICIENT OF VARIATION	2.9	2.3	2.6	
17 17 17M				
9845	17.4	17.8	17.1	103
20 20 5M				
9815	20.4	20.3	5.0	102
AMERICAN AGRI CHEM CO NASHVILLE				
0 9 27M WITH 3 LBS BORAX				
2523 SEE NOTE 2		9.2	26.7	100
0 10 20M WITH 5 LBS BORAX				
9573 SEE NOTE 2		11.1	18.9*	103
0 20 20M				
2298 SEE NOTE 4		18.6*	19.2*	94*
3 9 6M				
0656	3.4	9.8	6.9	111
2294	3.1	9.1	6.3	102
AVERAGE ANALYSIS	3.3	9.5	6.6	
COEFFICIENT OF VARIATION	6.5	5.2	6.4	
3 9 6 2 MURIATE 4 SULFATE				
7995	3.1	9.2	7.0	105
3 9 6S				
0657	2.9	9.0	6.2	100
1518 SEE NOTE 1	2.7*	10.8	6.1	108
7886	2.7*	10.9	5.0*	106
8983 SEE NOTE 1	2.9	8.9	6.6	100
9565 SEE NOTE 1	3.2	9.3	6.1	104
AVERAGE ANALYSIS	2.9	9.8	6.0	
COEFFICIENT OF VARIATION	7.1	10.1	9.9	
3 12 12M				
2295	3.1	11.7	12.0	99
3 12 12M WITH 3 LBS BORAX				
2016 SEE NOTE 2	3.1	11.8	12.0	100
2154 SEE NOTE 2	3.0	11.9	12.1	100
AVERAGE ANALYSIS	3.1	11.9	12.1	
COEFFICIENT OF VARIATION	2.3	.6	.6	
4 9 3S				
0316	4.1	8.5*	3.0	98
4 9 3S WITH 0020 ALDRIN				
2150 SEE NOTE 1 & 3	3.9	9.4	3.4	103
4 12 8M				
0658	4.0	11.9	8.7	101
1714	4.1	12.1	8.4	102
2293	4.1	11.9	8.5	101
2524	4.1	11.9	8.3	101
7994	4.1	12.3	9.1	105
9572	4.0	11.8	8.4	100
AVERAGE ANALYSIS	4.1	12.0	8.6	
COEFFICIENT OF VARIATION	1.3	1.5	3.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
AMERICAN AGRI CHEMICAL CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8 3 MURIATE 5 SULFATE				
1517 SEE NOTE 1	4.0	12.0	8.5	101
2292 SEE NOTE 1	3.9	12.0	8.6	101
AVERAGE ANALYSIS	4.0	12.0	8.6	
COEFFICIENT OF VARIATION	1.8		.8	
4 12 8S				
2015	4.1	11.1*	11.0	103
2508 SEE NOTE 1	4.1	11.6*	8.7	100
AVERAGE ANALYSIS	4.1	11.4	9.9	
COEFFICIENT OF VARIATION		3.1	16.5	
5 10 15 5 MURIATE 10 SULFATE				
2291	4.9	10.3	15.0	101
2525	4.7*	10.7	13.6*	98
AVERAGE ANALYSIS	4.8	10.5	14.3	
COEFFICIENT OF VARIATION	2.9	2.7	6.9	
5 10 15S				
0659	5.1	10.6	16.0	105
1516 SEE NOTE 1	5.0	10.2	15.0	101
2259	5.3	10.1	15.2	103
8960	4.7*	10.5	14.1*	98
9564	4.6*	10.5	14.3*	98
AVERAGE ANALYSIS	4.9	10.4	14.9	
COEFFICIENT OF VARIATION	5.8	2.1	5.1	
5 20 20M				
9571	5.2	19.1*	19.5*	99
6 12 12M				
0653	6.1	12.2	12.4	102
1011	5.5*	12.0	12.6	98
1326	6.0	12.0	12.4	101
1492	5.9	12.0	12.4	100
1658	6.0	12.2	12.1	101
1715	5.7*	12.6	12.1	101
2149	6.0	12.2	12.0	101
2296	5.9	12.1	12.4	101
8984	5.1*	11.9	12.4	95*
9570	5.9	12.5	12.1	101
AVERAGE ANALYSIS	5.8	12.2	12.3	
COEFFICIENT OF VARIATION	5.2	1.9	1.6	
10 10 10M				
0654	9.0*	10.7	9.8	97*
2017	10.0	10.2	10.4	101
2507	10.0	10.4	10.2	102
7735	8.7*	10.9	9.8	96*
AVERAGE ANALYSIS	9.4	10.6	10.1	
COEFFICIENT OF VARIATION	7.2	2.9	3.0	
30 10 0				
0315	29.9	10.3		100
AMER AGRI CHEM CO NATL STOCK YARDS				
0 20 20M				
1327		20.6	20.8	103
3 12 12M				
0623	3.2	12.5	10.8*	101
6 12 12M				
0802	6.5	11.9	11.3*	101
1328	6.5	11.9	11.4*	101
1493	6.3	12.0	12.2	102
1628	6.1	12.4	11.9	102
1659	6.1	12.2	12.6	102
AVERAGE ANALYSIS	6.3	12.1	11.9	
COEFFICIENT OF VARIATION	3.2	1.8	4.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
AMERICAN AGRI CHEMICAL CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
0624	10.1	11.0	10.2	104
1222	10.8	10.2	10.2	105
1329	9.8	10.7	11.0	103
1519	10.1	10.9	10.5	104
1712	10.0	10.8	10.2	103
AVERAGE ANALYSIS	10.2	10.7	10.4	
COEFFICIENT OF VARIATION	3.7	2.9	3.4	
12 12 12M				
1223	12.2	12.2	12.1	102
1520	12.2	12.5	12.1	102
AVERAGE ANALYSIS	12.2	12.4	12.1	
COEFFICIENT OF VARIATION		1.7		
AMERICAN AGRI CHEMICAL CO NEW YORK				
5 9 6M				
0544	5.5	9.4	6.3	107
1561	5.6	9.7	6.2	109
AVERAGE ANALYSIS	5.6	9.6	6.3	
COEFFICIENT OF VARIATION	1.3	2.2	1.1	
5 10 5M				
7792	5.2	10.2	5.0	103
10 6 4M				
0765	9.9	7.5	4.7	110
7638	10.1	6.6	4.7	105
7802	10.0	7.7	5.1	110
8906	9.7	6.8	4.9	106
AVERAGE ANALYSIS	9.9	7.2	4.9	
COEFFICIENT OF VARIATION	1.7	7.4	3.9	
10 10 10M				
7978	9.9	10.2	10.1	100
10 40 10M				
1363	9.7	40.8	11.7	102
AMERICAN AGRI CHEMICAL CO SEYMOUR				
0 20 20M				
1713		20.4	20.6	102
3 12 12M				
7888	3.2	12.4	12.0	103
4 16 16M				
7884	4.3	16.0	16.2	102
5 20 20M				
7734	5.4	18.5*	20.8	99
7885	5.0	20.0	20.1	100
AVERAGE ANALYSIS	5.2	19.3	20.5	
COEFFICIENT OF VARIATION	5.4	5.5	2.4	
10 10 10M				
1417	10.3	10.2	10.5	103
1564	10.3	10.6	10.6	105
1578	9.9	10.1	10.6	101
1679	10.5	10.4	10.2	104
2404	10.1	10.5	10.3	103
7839	10.0	10.5	10.0	102
AVERAGE ANALYSIS	10.2	10.4	10.4	
COEFFICIENT OF VARIATION	2.2	1.9	2.3	
16 8 8M				
1565	16.7	8.0	8.0	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CO ATLANTA	(Percent)	(Percent)	(Percent)	
5 10 5M				
0408	5.3	10.1	4.8	102
0590	5.4	10.0	5.1	103
1006	4.8	10.0	5.8	101
1096	5.1	10.0	6.0	103
1105	5.5	9.9	5.3	104
6916	4.7*	10.2	5.3	100
6946	5.3	10.1	6.0	105
AVERAGE ANALYSIS	5.2	10.0	5.5	
COEFFICIENT OF VARIATION	5.9	1.0	8.6	
5 10 5S				
0305	5.2	10.1	5.1	102
0409	5.3	10.3	5.4	105
1026	5.4	10.0	5.5	104
2005 SEE NOTE 1	4.8	10.8	5.1	103
7739 SEE NOTE 1	5.2	10.0	5.6	103
8998	5.1	10.1	5.6	103
AVERAGE ANALYSIS	5.2	10.2	5.4	
COEFFICIENT OF VARIATION	4.0	3.0	4.3	
10 3 7M				
0596	10.3	4.5	7.5	110
10 10 10M				
1155	10.6	10.2	10.1	104
10 50 8M				
0673	10.3	52.1	8.5	104
8914	10.2	52.0	8.3	104
AVERAGE ANALYSIS	10.3	52.1	8.4	
COEFFICIENT OF VARIATION	.7	.1	1.7	
12 12 12M				
0591	12.1	12.2	12.1	101
ARMOUR AGRI CHEM CO CINCINNATI				
0 10 20M				
0415 SEE NOTE 4		10.2	15.2*	89*
0 20 20M				
0334		19.9	18.8*	98
0597		19.0*	20.2	97*
7635 SEE NOTE 4		18.6*	19.6	95*
7677		20.1	20.1	101
7769		21.3	20.0	104
AVERAGE ANALYSIS		19.8	19.7	
COEFFICIENT OF VARIATION		5.3	2.9	
0 20 20M WITH 5 LBS BORAX				
0736 SEE NOTE 2 & 7		18.2*	20.2	94*
7674 SEE NOTE 2 & 4		17.9*	20.0	93*
AVERAGE ANALYSIS		18.1	20.1	
COEFFICIENT OF VARIATION		1.2	.7	
3 9 6M				
0335	3.3	9.5	6.6	108
3 12 12M				
0737	3.0	12.0	12.2	100
4029	3.2	12.1	11.9	102
7673	3.3	12.3	12.6	105
7804	3.4	12.0	12.4	104
7812	3.2	12.0	12.6	103
7818	3.4	12.3	12.0	104
7964	3.1	12.2	12.5	103
AVERAGE ANALYSIS	3.2	12.1	12.3	
COEFFICIENT OF VARIATION	4.6	1.1	2.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M				
0265	4.5	12.0	10.2	108
0350	4.4	12.0	8.9	105
0422	4.2	12.2	8.4	103
0430	4.4	12.5	8.0	105
0444	4.3	12.0	9.0	104
0548	4.2	12.0	8.3	102
0556	4.3	11.7	8.4	102
0574	4.3	12.0	9.1	105
0757	4.1	11.9	8.1	100
0893	4.3	12.0	8.0	102
1028	4.2	12.0	8.3	102
1393	4.4	12.0	8.5	104
7587	4.3	12.0	8.4	103
7687	4.4	12.6	9.6	109
7766	4.1	12.0	8.1	101
7810	4.4	12.1	8.0	103
7819	3.9	10.8*	12.1	103
8977	4.6	12.1	9.0	107
AVERAGE ANALYSIS	4.3	12.0	8.8	
COEFFICIENT OF VARIATION	3.8	3.0	11.6	
4 12 8S				
1069	4.0	11.9	8.1	100
7622	4.0	12.3	8.0	101
AVERAGE ANALYSIS	4.0	12.1	8.1	
COEFFICIENT OF VARIATION		2.3	.9	
5 10 5M				
0440 SEE NOTE 9	6.0	10.2	6.5	112
7583	5.0	10.7	5.9	106
5 10 5M WITH 0018 DIELDRIN				
0201 SEE NOTE 3	5.5	10.8	5.3	109
0230 SEE NOTE 3	5.2	10.3	5.3	104
8911 SEE NOTE 3	5.3	10.5	5.0	105
AVERAGE ANALYSIS	5.3	10.5	5.2	
COEFFICIENT OF VARIATION	2.9	2.4	3.3	
5 10 10M				
0202	5.2	10.7	10.5	106
0347 SEE NOTE 9	5.5	19.0	10.5	144
0351	5.0	10.2	10.1	101
0423	5.1	10.0	10.2	101
0445 SEE NOTE 9	4.7*	18.8	19.2	158
0513	5.2	10.0	10.5	102
0549	4.9	10.0	10.0	99
0575	5.0	10.1	10.2	101
0592	5.2	10.2	10.2	103
0725	5.1	10.2	10.1	102
0758	5.1	10.0	10.1	101
1067	5.0	10.2	10.4	102
2454	5.2	10.1	10.0	102
2544	5.3	10.2	9.6*	102
4027	5.0	10.0	10.7	102
7586	5.0	10.0	10.5	101
7610	5.0	10.1	10.7	102
7623	4.9	10.1	10.1	100
7664	5.1	10.5	9.7	102
7675	5.1	10.2	10.3	102
7813	5.0	10.4	10.6	103
7894	5.1	10.1	11.1	104
8891	5.2	11.0	11.1	108
9997	5.1	10.0	10.1	101
AVERAGE ANALYSIS	5.1	10.2	10.3	
COEFFICIENT OF VARIATION	2.1	2.5	3.7	
5 10 15S				
0203	5.2	10.0	15.0	101
0262	4.9	10.1	15.0	100
0385	5.3	10.2	15.5	104
0416	5.1	10.1	15.0	101
1027	5.0	10.1	15.0	100
1059	5.2	9.9	15.5	102
1065	5.2	10.0	15.2	102
7589	5.0	10.0	15.5	101
7591	5.1	10.0	15.0	101
7625	5.0	10.0	15.0	100
7630	5.0	10.1	15.0	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
7668	5.3	10.3	15.0	103
7670	5.1	10.2	15.0	101
7688	5.3	10.0	15.0	102
7897	5.3	10.0	15.1	102
8912	5.1	10.0	15.0	101
8978	5.3	9.9	15.0	101
9767	5.0	10.1	15.2	101
AVERAGE ANALYSIS	5.1	10.1	15.1	
COEFFICIENT OF VARIATION	2.6	1.0	1.3	
5 10 15S WITH 0015 ALDRIN				
7671 SEE NOTE 3	5.0	10.5	14.7	101
5 20 20M				
0889	5.0	19.3*	20.0	98
4028	5.0	19.0*	20.0	97*
7590	5.0	19.5*	20.0	99
7621	5.1	19.3*	19.6	98
7631	4.8	20.2	19.6	99
7678	5.0	18.9*	20.1	97*
7768	4.7*	19.7	20.4	99
7808	4.8	19.5*	20.0	98
7955	5.0	19.5*	20.0	99
AVERAGE ANALYSIS	4.9	19.4	20.0	
COEFFICIENT OF VARIATION	2.7	2.0	1.2	
6 6 18S				
0263	6.0	6.5	18.2	103
0738	5.9	6.5	18.2	102
1068 SEE NOTE 1	6.4	8.0	17.5*	110
1195	6.0	6.8	18.2	104
2455	6.4	6.7	17.8	105
2542 SEE NOTE 1	6.2	7.3	18.0	107
2577	6.1	6.8	17.4*	103
7719	6.1	6.6	18.0	103
7895	6.1	6.6	18.2	104
8892	6.0	6.3	17.7	101
8979	6.0	6.2	18.0	101
AVERAGE ANALYSIS	6.1	6.8	17.9	
COEFFICIENT OF VARIATION	2.7	7.5	1.6	
6 8 6S				
0264	6.1	8.0	6.3	102
0346	6.0	8.7	6.1	104
0514	6.0	8.2	6.3	102
0598 SEE NOTE 1	5.6*	8.6	6.7	102
2543	6.3	8.4	6.2	105
7588	6.0	8.1	6.1	101
7661	5.9	8.3	6.2	101
7665	6.0	8.7	6.7	105
7669	6.0	8.4	6.0	102
7686	6.0	8.2	6.1	101
7805 SEE NOTE 1	5.7*	8.4	6.2	100
7811	6.0	8.0	6.1	100
7820	6.0	8.1	7.1	103
7821 SEE NOTE 1	6.1	9.1	7.3	110
AVERAGE ANALYSIS	6.0	8.4	6.4	
COEFFICIENT OF VARIATION	2.8	3.8	6.4	
6 12 12M				
0344	6.1	12.1	12.5	102
0345	6.1	12.0	12.5	101
0410	6.0	11.7	12.2	99
0424	6.1	12.0	12.4	101
0446	5.9	11.9	13.0	101
0447	5.9	11.9	13.0	101
0559	6.0	11.9	12.0	100
0724	5.9	11.7	13.0	100
1057	6.0	12.0	12.1	100
1391	6.0	11.9	12.0	100
7584	6.0	11.9	11.8	99
7660	6.0	11.9	12.2	100
7784	5.9	12.0	12.5	100
AVERAGE ANALYSIS	6.0	11.9	12.4	
COEFFICIENT OF VARIATION	1.3	1.0	3.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 18M				
9908	6.2	11.9	19.0	102
6 12 18S				
0411	6.1	12.0	18.0	101
0515	6.2	11.6*	18.0	100
0560	6.0	12.0	17.5*	99
0759	6.0	11.6	18.0	99
1392	6.1	12.0	18.0	101
1460	5.8	11.9	18.1	99
2579	6.0	11.7	18.5	100
7585	6.1	11.9	18.2	101
7666	6.0	12.0	18.2	100
7672	6.4	12.1	18.0	102
7783	6.1	12.0	17.8	100
7806	6.3	12.0	18.0	102
7817	6.3	12.1	18.1	102
7896	6.0	12.0	18.0	100
8913	6.1	12.1	18.0	101
9601	6.0	12.1	18.0	100
AVERAGE ANALYSIS	6.1	11.9	18.0	
COEFFICIENT OF VARIATION	2.4	1.4	1.1	
6 13 18S				
0599	6.4	11.7	17.8	101
6 24 12M				
7667	6.0	23.1*	12.0	98
10 10 10M				
0428	9.8	10.4	10.8	102
0739	10.0	10.4	10.4	102
1196	10.2	10.1	10.2	102
2580	9.8	10.7	10.9	103
7624	10.0	10.0	10.2	100
7626	9.9	10.2	10.6	101
7629	10.0	10.0	10.7	101
7634	10.1	10.1	10.5	102
7679	10.3	10.6	10.1	104
7720	9.8	10.5	10.1	101
7809	10.1	10.4	10.4	103
7816	10.0	10.1	10.9	102
7954	10.1	10.3	10.4	102
7965	10.2	10.3	10.2	102
AVERAGE ANALYSIS	10.0	10.3	10.5	
COEFFICIENT OF VARIATION	1.6	2.1	2.7	
12 12 12M				
0348 SEE NOTE 4	10.6*	12.5	12.0	95*
0429	11.6*	12.3	12.6	100
0896	11.0*	12.9	13.2	100
7676	12.0	12.4	12.5	102
7767	12.0	12.5	11.8	101
AVERAGE ANALYSIS	11.4	12.5	12.4	
COEFFICIENT OF VARIATION	5.4	1.8	4.4	
ARMOUR AGRI CHEM CO JEFFERSONVILLE				
0 20 20M				
0475		19.7	21.5	102
0859		19.7	20.5	100
0866		20.1	21.5	103
1376		19.6	21.0	100
1454		19.5*	20.0	98
1458		19.9	20.5	101
2163		20.0	20.6	101
2340		19.7	20.1	99
2515		19.2*	21.5	100
AVERAGE ANALYSIS		19.7	20.8	
COEFFICIENT OF VARIATION		1.4	2.9	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
0 20 20M WITH 5 LBS BORAX				
0645 SEE NOTE 2		19.7	20.8	100
1262 SEE NOTE 2		20.6	20.0	102
1377 SEE NOTE 2		19.1*	20.5	98
AVERAGE ANALYSIS		19.8	20.4	
COEFFICIENT OF VARIATION		3.8	2.0	
3 12 6M				
0646	3.0	12.9	6.2	105
0860	3.2	12.2	6.3	103
AVERAGE ANALYSIS	3.1	12.6	6.3	
COEFFICIENT OF VARIATION	4.6	3.9	1.1	
3 12 12M				
0642	3.7	12.0	12.0	105
1097	3.6	12.1	12.1	105
1424	3.6	12.0	11.7	103
1433	3.1	11.6*	12.1	99
1581	3.4	12.2	12.2	104
2040	3.3	11.8	12.1	101
2388	3.6	12.2	12.2	105
3001	3.5	12.9	11.0*	105
AVERAGE ANALYSIS	3.5	12.1	11.9	
COEFFICIENT OF VARIATION	5.7	3.2	3.4	
4 12 8M				
0258	4.3	12.3	8.4	104
0643	4.1	12.1	8.7	103
0650	4.0	12.2	8.1	101
0873	3.9	12.3	8.7	102
1130	4.6	11.8	8.0	103
1188	4.3	11.7	8.9	103
1404	4.2	12.0	8.9	103
1455	4.6	13.1	8.9	111
1535	4.3	12.0	8.6	103
1536	4.3	12.0	8.7	104
2025	4.2	11.6*	8.9	102
2168	4.5	12.0	8.1	104
2518	4.2	12.3	9.6	106
8965	4.4	12.0	8.4	104
9715	4.1	12.0	8.1	101
AVERAGE ANALYSIS	4.3	12.1	8.6	
COEFFICIENT OF VARIATION	4.7	2.9	5.0	
4 16 16M				
2389	4.6	16.3	16.0	104
5 10 5S WITH 0018 DIELDRIN				
2039 SEE NOTE 3	5.1	9.6*	5.1	99
2097 SEE NOTE 1 & 3	5.5	10.0	5.2	104
AVERAGE ANALYSIS	5.3	9.8	5.2	
COEFFICIENT OF VARIATION	5.3	2.9	1.4	
5 10 15S				
0232 SEE NOTE 1	5.4	10.3	15.0	104
0474	5.1	10.1	15.2	101
0672	5.1	10.0	14.7	100
0874	5.2	10.8	15.0	104
0887	5.3	11.0	14.7	105
1045 SEE NOTE 1	5.2	10.6	15.1	104
1095	5.0	10.0	15.0	100
1129	4.8	9.9	15.2	99
1133	5.0	10.3	15.0	101
1266 SEE NOTE 1	5.5	10.6	15.4	106
1396	5.0	10.0	15.1	100
1541	4.9	10.4	15.0	101
2041	5.0	10.0	15.2	100
2166	5.1	9.9	15.1	100
2324	5.0	10.6	14.3*	101
2385	5.2	10.3	15.6	104
2471	4.8	9.9	15.0	98
2474	5.5	10.0	14.6*	102
2539	5.1	11.2	15.5	106
2541	5.1	11.0	15.0	105
6945	5.1	10.5	15.2	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
6971	5.0	10.0	15.5	101
6978 SEE NOTE 1	5.1	10.4	15.3	103
8964	5.4	10.3	15.2	104
9716	5.1	10.3	14.6*	101
9721	4.7*	10.1	14.8	98
9941 SEE NOTE 1	4.9	10.6	15.5	103
AVERAGE ANALYSIS	5.1	10.3	15.1	
COEFFICIENT OF VARIATION	3.9	3.6	2.1	
5 10 15S WITH 0015 ALDRIN				
1184 SEE NOTE 1 & 3	5.2	10.6	15.0	104
1441 SEE NOTE 1 & 3	5.1	10.3	15.4	103
AVERAGE ANALYSIS	5.2	10.5	15.2	
COEFFICIENT OF VARIATION	1.4	2.0	1.9	
5 20 20M				
0204	5.5	19.1*	19.9	101
0861	4.7*	20.7	20.0	101
1134	5.4	18.7*	19.6	98
1379	4.8	19.4*	20.0	98
1406	5.1	19.4*	20.0	99
1542	5.0	20.0	19.7	100
2175	5.5	18.9*	19.2*	98
2456	5.4	18.5*	19.5*	97*
2516	5.3	19.0*	19.4*	98
7483	4.9	20.1	20.2	100
7568	5.3	19.3*	19.2*	98
9717	4.9	19.7	19.5*	98
9737 SEE NOTE 4	5.1	18.3*	20.0	96*
AVERAGE ANALYSIS	5.1	19.3	19.7	
COEFFICIENT OF VARIATION	5.3	3.5	1.7	
6 8 6S				
0266	5.9	8.9	6.5	105
0647	5.6*	10.6	12.7	127
1118	6.1	8.5	6.1	104
1173	6.1	8.6	6.4	105
2169	6.0	8.8	6.9	106
8876	6.2	8.3	6.6	105
8894	6.3	8.4	6.7	106
AVERAGE ANALYSIS	6.3	8.6	7.4	
COEFFICIENT OF VARIATION	2.2	2.7	.7	
6 12 12M				
0259	6.6	13.2	12.6	109
0267	5.9	12.9	12.6	104
0476	6.2	12.2	12.6	103
0550	6.3	12.9	14.2	109
0648	5.9	12.3	12.6	102
1405	5.3	12.3	13.5	100
1431	6.1	12.0	12.7	102
1543	5.6*	12.2	12.4	99
2341	6.9	12.0	12.2	105
2475	6.1	12.1	12.4	102
9719	5.9	12.0	13.0	101
9738	5.6*	12.6	12.7	101
AVERAGE ANALYSIS	6.0	12.4	12.8	
COEFFICIENT OF VARIATION	7.3	3.3	4.3	
6 12 12S				
0260	6.3	12.2	13.4	105
0477	6.4	12.0	13.2	104
0649	6.1	12.1	12.5	102
1066	6.4	12.0	12.1	102
1256	6.3	12.4	12.6	104
1264	6.3	12.3	14.8	108
1427 SEE NOTE 1	6.6	12.0	13.5	106
1539	6.7	12.1	11.9	104
2472	6.5	12.3	12.2	104
2567 SEE NOTE 1	6.0	12.4	12.5	102
9998	6.2	12.0	12.6	102
AVERAGE ANALYSIS	6.3	12.2	12.8	
COEFFICIENT OF VARIATION	3.3	1.3	6.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 18S				
0644	5.6*	12.5	18.5	101
1104	5.5*	12.3	18.7	100
1132 SEE NOTE 1	5.9	13.0	18.2	103
1263	5.7*	12.7	19.2	103
1380	6.1	12.1	18.2	101
1452	6.0	12.4	18.6	102
1540	5.7*	13.1	18.1	102
1710	6.0	12.2	18.4	101
2083	6.1	12.2	18.5	102
2342	5.6*	13.0	18.0	101
2473	5.6*	12.8	18.2	101
2540	5.8	12.9	18.0	102
6947 SEE NOTE 1	5.9	13.1	17.1*	102
6970	5.6*	12.3	18.4	100
6979	5.7*	12.4	18.7	101
8893	5.9	12.7	18.2	102
9684	5.9	13.1	18.1	103
9739	5.9	12.8	18.7	103
9940	5.4*	12.5	19.0	101
AVERAGE ANALYSIS	5.8	12.6	18.4	
COEFFICIENT OF VARIATION	3.5	2.7	2.5	
10 10 10M				
0205	11.2	9.5*	10.0	104
0478	10.0	10.8	10.6	104
1171	10.5	10.4	9.8	104
1185	10.3	10.6	11.5	106
1423	10.2	11.0	12.1	108
1425	10.0	10.5	11.8	105
1426	9.5*	11.2	12.5	106
1430	10.3	10.7	10.6	105
1453	10.2	11.1	11.2	107
2042	10.2	10.0	11.0	103
2164	9.9	11.3	10.5	105
2167	10.2	10.4	10.2	103
2323	9.9	11.1	11.5	106
2470	10.6	10.2	10.9	105
2517	10.2	10.5	10.5	104
2566	9.8	11.4	13.1	109
9718	10.1	10.0	10.4	101
9868	10.5	10.3	10.2	104
AVERAGE ANALYSIS	10.2	10.6	11.0	
COEFFICIENT OF VARIATION	3.6	4.8	8.2	
10 10 10M WITH 0050 ALDRIN				
2457 SEE NOTE 3	10.0	10.7	10.4	103
10 10 20S				
0206	9.5*	10.6	19.4*	99
9844 SEE NOTE 1 & 4	9.3*	11.3	18.0*	98
AVERAGE ANALYSIS	9.4	11.0	18.7	
COEFFICIENT OF VARIATION	1.5	4.5	5.3	
10 20 20M				
1261 SEE NOTE 4	9.3*	18.9*	20.5	96*
12 12 12M				
1265	12.2	12.3	12.0	102
1378	11.8	12.1	12.4	100
1497	11.2*	13.6	12.2	101
3066	11.9	12.4	12.4	101
9424	12.6	12.5	12.1	104
AVERAGE ANALYSIS	11.9	12.6	12.2	
COEFFICIENT OF VARIATION	4.3	4.7	1.5	
ARMOUR AGRICULTURAL CHEM CO MEMPHIS				
5 10 10M				
1636	5.1	10.2	10.6	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M				
0296	5.9	12.9	11.4*	102
0807	6.2	12.0	12.6	102
1319	6.1	12.5	11.2*	101
1637	5.9	13.0	12.2	104
AVERAGE ANALYSIS	6.0	12.6	11.9	
COEFFICIENT OF VARIATION	2.5	3.6	5.6	
10 10 10M				
7567	10.3	10.5	10.1	103
7879	9.8	10.2	10.5	101
AVERAGE ANALYSIS	10.1	10.4	10.3	
COEFFICIENT OF VARIATION	3.5	2.0	2.7	
10 20 20M				
0808 SEE NOTE 4	9.0*	15.1*	25.2	92*
1741	9.9	20.9	17.3*	99
2428	9.8	19.5*	21.2	100
8927	9.5*	20.1	20.2	99
9428	10.5	22.8	18.4*	106
9685	10.0	24.0	16.9*	105
AVERAGE ANALYSIS	9.8	20.4	19.9	
COEFFICIENT OF VARIATION	5.1	15.2	15.6	
12 12 12M				
0297	11.9	12.5	12.0	101
0809	11.8	12.1	12.9	101
1331	12.0	11.5*	12.2	99
9429	11.9	13.3	12.1	103
AVERAGE ANALYSIS	11.9	12.4	12.3	
COEFFICIENT OF VARIATION	.7	6.1	3.3	
ARMOUR AGRI CHEMICAL CO NASHVILLE				
0 20 20M				
1512		20.0	18.0*	97*
1711		18.8*	20.0	96*
1720		18.5*	20.0	95*
9487		19.8	19.0*	98
9788 SEE NOTE 7		17.9*	21.9	96*
9869		19.4*	20.5	99
AVERAGE ANALYSIS		19.1	19.9	
COEFFICIENT OF VARIATION		4.2	6.7	
0 24 24M				
1656		24.2	24.7	102
3 9 6M				
0352	3.2	9.3	6.2	104
0557	3.0	9.0	6.5	102
8992	3.1	9.0	6.1	101
9525	3.1	9.3	6.1	103
9819	3.0	8.9	6.3	100
AVERAGE ANALYSIS	3.1	9.1	6.2	
COEFFICIENT OF VARIATION	2.7	2.1	2.7	
3 12 6M				
0244	3.3	11.7	6.3	102
1199	3.2	12.5	6.0	104
1245	3.3	12.3	6.3	105
1510	3.1	11.9	6.5	102
1515	3.2	12.4	6.1	104
2144	3.3	12.1	6.5	104
2434	3.2	11.9	6.2	102
8995	3.4	11.7	6.4	103
9720	3.0	13.2	5.6*	105
9732	3.7	12.0	6.7	107
9968	3.4	12.0	6.3	104
AVERAGE ANALYSIS	3.3	12.2	6.3	
COEFFICIENT OF VARIATION	5.6	3.6	4.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
3 12 12M				
2426	3.2	12.1	12.0	102
8993	3.4	12.0	11.8	102
9470	3.3	12.1	11.4*	101
9603	3.3	12.3	11.1*	101
AVERAGE ANALYSIS	3.3	12.1	11.6	
COEFFICIENT OF VARIATION	2.5	1.0	3.5	
3 12 24M WITH 3 LBS BORAX				
2301 SEE NOTE 2	3.1	11.5*	24.7	100
9687 SEE NOTE 2	3.2	12.2	24.7	103
AVERAGE ANALYSIS	3.2	11.9	24.7	
COEFFICIENT OF VARIATION	2.2	4.2		
4 12 8M				
0298	4.2	12.3	8.1	103
1201	4.4	12.2	8.5	105
1239	4.4	11.8	8.4	103
1620	4.2	12.2	8.0	102
8996	4.4	12.1	8.5	104
9425	4.5	12.3	8.5	106
9483	4.3	11.9	9.1	104
9486	4.2	12.0	8.2	102
9604	4.3	12.3	8.0	103
9607	4.4	12.0	8.0	103
9666	4.3	12.4	8.0	104
9820	4.0	12.6	7.8	102
9857	4.1	12.1	8.5	102
AVERAGE ANALYSIS	4.3	12.2	8.3	
COEFFICIENT OF VARIATION	3.3	1.8	4.2	
4 12 12M				
1622	4.2	12.2	12.4	103
4 16 4M				
9430	4.2	16.5	4.7	105
5 10 5S WITH 0037 DIELDRIN				
9480 SEE NOTE 3	5.4	10.1	5.1	104
9537 SEE NOTE 3	5.3	10.1	4.8	102
AVERAGE ANALYSIS	5.4	10.1	5.0	
COEFFICIENT OF VARIATION	1.3		4.3	
5 10 10M				
0156	5.0	9.9	10.0	100
0336	5.3	10.2	10.1	103
0541	5.1	10.1	10.0	101
0605	5.2	9.9	10.0	101
1317	5.3	10.2	10.0	103
1511	5.0	10.0	10.1	100
2499	5.0	10.4	10.4	103
4010	5.0	10.7	10.2	104
6917	4.6*	11.0	9.0*	100
7738	5.2	9.8	10.6	102
8991	4.8	10.6	9.4*	100
9471	5.2	10.3	10.4	104
9485	5.3	10.4	10.0	104
9735	5.1	10.2	10.1	102
9860	4.9	10.4	9.5*	100
AVERAGE ANALYSIS	5.1	10.3	10.0	
COEFFICIENT OF VARIATION	3.9	3.2	4.1	
5 10 10S				
1308	5.5	10.3	10.0	105
2143	4.9	10.0	9.8	99
7578	5.0	9.9	9.9	99
9733 SEE NOTE 1	4.9	11.7	11.5	110
9969	4.9	9.7	14.9	109
AVERAGE ANALYSIS	5.0	10.3	11.2	
COEFFICIENT OF VARIATION	5.2	7.8	19.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S				
0157	5.1	11.6	14.4*	106
0299	4.6*	10.6	13.8*	98
0862	5.6	8.5*	15.7	99
1307	5.1	10.0	15.0	101
1335	4.9	10.2	15.0	100
1506	4.7*	10.2	15.0	99
1507 SEE NOTE 1	5.2	10.7	15.1	104
1513	5.0	10.6	14.5*	101
1719	5.1	10.7	13.4*	100
2018	5.0	11.1	13.4*	101
2151	5.0	10.8	15.0	103
2498	4.8	10.3	14.6*	99
3063	5.0	10.6	15.0	102
3065	5.2	11.9	12.9*	105
7577	4.7*	10.8	14.1*	100
7747	4.9	10.7	14.8	102
9482	5.3	13.0	14.6*	113
9602	4.7*	11.0	14.8	102
9855	5.1	10.2	15.0	101
9999	5.2	11.1	13.7*	103
AVERAGE ANALYSIS	5.0	10.7	14.5	
COEFFICIENT OF VARIATION	4.8	8.1	5.0	
5 10 15S WITH 0015 ALDRIN				
1330 SEE NOTE 3	4.7*	10.6	15.0	101
1660 SEE NOTE 3	5.1	10.0	15.0	101
2283 SEE NOTE 3	5.3	10.1	15.2	103
AVERAGE ANALYSIS	5.0	10.2	15.1	
COEFFICIENT OF VARIATION	6.1	3.1	.8	
5 20 20M				
1504 SEE NOTE 7	5.0	18.7*	19.3*	96*
2281 SEE NOTE 7	4.8	17.8*	20.2	94*
2302	5.1	19.2*	20.5	99
2512	5.1	19.5*	20.2	99
3062	4.9	19.0*	20.2	97*
4011	4.8	19.9	21.0	100
7580	5.3	19.2*	20.3	99
7740	5.0	18.6*	21.4	98
8997 SEE NOTE 4	5.3	24.8	13.6*	105
9484	5.5	22.1	18.4*	105
9678	5.5	20.9	18.0*	102
9729	5.0	20.5	20.0	101
9736	4.9	19.7	21.0	100
9789 SEE NOTE 7	4.6*	18.3*	19.3*	93*
AVERAGE ANALYSIS	5.1	19.9	19.5	
COEFFICIENT OF VARIATION	5.2	9.1	10.0	
5 20 20M WITH 5 LBS BORAX				
9727 SEE NOTE 2	4.8	19.8	18.4*	97*
6 8 6M				
1238	5.8	9.4	6.0	106
1247	5.9	8.4	6.5	103
1318	6.0	8.7	6.0	104
1503	6.0	8.0	6.2	101
1708	6.0	8.4	6.7	104
2282	5.7*	8.6	6.6	102
2425	5.9	8.6	6.6	104
AVERAGE ANALYSIS	5.9	8.6	6.4	
COEFFICIENT OF VARIATION	2.0	5.0	4.7	
6 12 12M				
0300	6.4	12.3	11.3*	102
0606	5.9	12.0	12.0	99
0685	6.0	12.0	12.2	100
1017	6.1	11.9	12.6	101
1200	6.0	12.6	11.6*	101
1204	6.0	12.0	12.1	100
1249	6.0	11.9	12.1	100
1333	6.1	12.3	11.8	101
1509	5.7*	12.0	11.5*	97*
1638	6.0	12.6	13.0	104
1709	6.2	12.6	12.4	104
2152	6.6	11.3*	12.5	98
2423	5.9	12.3	11.9	100
2424	5.8	11.8	11.4*	97*

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M CONTINUED				
6918	5.8	12.0	12.5	100
7569	6.1	12.0	12.4	101
7745	6.0	12.0	12.6	101
9481	6.0	11.9	13.7	103
9730	6.2	12.2	12.4	103
9734	6.0	11.7	13.0	101
9858	6.3	11.7	12.0	101
9859	5.9	12.0	12.4	100
9870	6.2	12.1	12.0	101
9872	5.9	12.1	11.9	100
9967	5.7*	12.2	11.6*	98
AVERAGE ANALYSIS	6.0	12.1	12.2	
COEFFICIENT OF VARIATION	3.4	2.5	4.5	
6 12 12M WITH 0025 ALDRIN				
9790 SEE NOTE 3	5.9	12.2	12.1	100
6 12 18S				
0158	6.1	13.0	16.2*	101
0686	6.0	11.5*	19.0	100
1309	6.0	12.1	17.8	100
1514	5.9	13.3	16.6*	102
1635 SEE NOTE 7	8.7	9.8*	16.7*	104
1661	6.9	15.7	14.1*	110
1742	8.7	9.5*	16.8*	103
3064	5.7*	12.0	20.7	103
7746	5.8	12.0	17.5*	98
9728 SEE NOTE 4	5.7*	11.3*	16.5*	94*
9856	6.3	11.9	18.5	102
9871	6.0	12.4	17.5*	101
9999	6.2	13.0	17.1*	103
AVERAGE ANALYSIS	6.5	12.1	17.3	
COEFFICIENT OF VARIATION	16.1	12.9	9.1	
6 12 18S WITH 0015 ALDRIN				
1310 SEE NOTE 3	6.0	12.0	18.0	100
2501 SEE NOTE 3	6.2	11.3*	18.2	99
AVERAGE ANALYSIS	6.1	11.7	18.1	
COEFFICIENT OF VARIATION	2.3	4.2	.8	
10 10 10M				
0245	10.0	10.1	10.1	101
0607	9.8	10.8	10.2	102
1202	9.9	10.0	10.0	100
1237	10.1	10.0	10.5	101
1248	9.4*	10.5	10.5	101
1334	9.9	10.7	9.8	102
1508	9.7	10.9	10.2	102
2202	9.3*	10.4	10.2	98
2433	9.3*	9.9	10.2	97*
2497	9.9	10.3	10.6	102
3101	10.0	10.3	10.0	101
7579	10.1	9.7	10.2	102
8994	9.9	10.1	10.4	101
9469	9.9	10.8	10.5	103
9665	10.0	10.6	10.0	102
9686	9.7	10.2	10.0	99
9854	8.8*	10.2	9.7	94*
9873	9.7	10.8	9.9	101
AVERAGE ANALYSIS	9.7	10.4	10.2	
COEFFICIENT OF VARIATION	3.5	3.4	2.5	
10 20 20M				
2500	10.1	21.4	19.0*	102
10 30 20M				
1246	10.1	29.7	20.2	100
12 12 12M				
2427	11.7	13.0	12.0	102
7742	11.5*	13.1	13.2	103
AVERAGE ANALYSIS	11.6	13.1	12.6	
COEFFICIENT OF VARIATION	1.2	.5	6.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
ASSOCIATED COOPERATIVES INC	(Percent)	(Percent)	(Percent)	
14 14 14M				
0626	13.9	14.1	14.5	100
1312	13.6	13.9	15.1	100
AVERAGE ANALYSIS	13.8	14.0	14.8	
COEFFICIENT OF VARIATION	1.5	1.0	2.9	
15 15 15M				
1626	14.9	15.1	15.1	100
1739	14.6*	15.0	15.4	99
AVERAGE ANALYSIS	14.8	15.1	15.3	
COEFFICIENT OF VARIATION	1.4	.5	1.4	
30 10 0				
0234	30.4	10.7		102
1020	29.6	10.2		99
1484	29.2*	11.2		100
9427	30.2	10.1		101
AVERAGE ANALYSIS	29.9	10.6		
COEFFICIENT OF VARIATION	1.9	4.8		
BALE FERTILIZER COMPANY				
0 19 19M WITH 5 LBS BORAX				
2303 SEE NOTE 2		17.1*	20.0	95*
0 20 20M				
2082 SEE NOTE 6		18.3*	20.0	94*
4 12 8M				
2021 SEE NOTE 6	3.9	10.0*	8.7	92*
2081 SEE NOTE 6	4.0	10.3*	8.2	93*
2391	4.5	12.1	8.1	104
2526	3.9	10.8*	8.0	94*
AVERAGE ANALYSIS	4.1	10.8	8.3	
COEFFICIENT OF VARIATION	7.0	8.6	3.8	
5 10 15S				
2020	4.6*	11.3	14.8	102
2080	4.9	9.8	15.4	99
2527	5.1	9.5*	15.0	99
AVERAGE ANALYSIS	4.9	10.2	15.1	
COEFFICIENT OF VARIATION	5.2	9.5	2.0	
6 12 12M				
2019	5.9	12.0	11.7	99
2078	5.8	11.9	12.0	99
2392	5.9	12.0	12.4	100
2528	6.0	11.9	12.1	100
AVERAGE ANALYSIS	5.9	12.0	12.1	
COEFFICIENT OF VARIATION	1.4	.5	2.4	
10 10 10M				
2022	9.7	10.9	9.8	101
2079	9.7	10.3	10.2	100
2394	10.8	9.4*	11.1	104
2529	10.0	10.0	12.3	104
AVERAGE ANALYSIS	10.1	10.2	10.9	
COEFFICIENT OF VARIATION	5.2	6.2	10.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
BARTLETT & O BRYAN FERTILIZER CO	(Percent)	(Percent)	(Percent)	
4 12 8M				
0246	4.3	11.9	8.9	104
0670	4.4	12.7	7.9	106
2658	4.1	11.6*	8.9	101
7506	4.4	11.9	9.0	105
7731 SEE NOTE 4	4.3	10.7*	8.0	96*
7750	4.4	12.0	7.5*	102
AVERAGE ANALYSIS	4.3	11.8	8.4	
COEFFICIENT OF VARIATION	2.7	5.5	7.7	
4 16 16M				
7991	4.2	15.1*	16.0	98
5 10 15S				
0671	5.2	10.1	14.8	101
2659	5.0	10.3	16.7	105
7732	5.0	10.8	14.4*	102
7749 SEE NOTE 1	4.9	11.1	14.4*	103
AVERAGE ANALYSIS	5.0	10.6	15.1	
COEFFICIENT OF VARIATION	2.5	4.3	7.3	
5 20 20M				
0247	5.0	20.8	19.7	102
7992	4.9	19.0*	23.2	101
AVERAGE ANALYSIS	5.0	19.9	21.5	
COEFFICIENT OF VARIATION	1.4	6.4	11.5	
6 12 12M				
0248	6.0	11.8	11.8	99
2660	5.5*	12.0	10.4*	94*
AVERAGE ANALYSIS	5.8	11.9	11.1	
COEFFICIENT OF VARIATION	6.1	1.2	8.9	
10 10 10M				
7507	9.3*	10.8	10.0	99
BLUEGRASS PLANT FOODS INC CYNTHIANA				
0 10 30M WITH 100 LBS BORAX				
1040 SEE NOTE 2		10.0	29.8	100
3 9 6M				
7908	3.2	9.3	7.5	108
3 12 12M				
7907	3.1	11.5*	12.1	99
4 8 12S				
7852	4.3	8.2	12.6	105
4 12 8M				
0405	4.0	11.4*	8.7	99
0580	4.2	11.5*	8.7	101
7663	4.4	11.8	9.6	105
7909	4.0	11.5*	8.7	99
7943	4.2	11.7	8.9	102
AVERAGE ANALYSIS	4.2	11.6	8.9	
COEFFICIENT OF VARIATION	4.0	1.4	4.4	
4 12 8M WITH 0031 LBS BORAX				
1250 SEE NOTE 3	5.3	11.2*	9.5	109

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
BLUEGRASS PLANT FOODS CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 10M				
0600	4.9	10.0	10.1	100
7539	5.2	10.3	10.5	104
7906	5.0	9.7	10.1	99
7989	5.0	10.7	10.2	104
AVERAGE ANALYSIS	5.0	10.2	10.2	
COEFFICIENT OF VARIATION	2.5	4.2	1.9	
5 10 15S				
0379	4.6*	10.2	15.0	98
0406	5.0	10.0	15.0	100
0524	5.0	10.0	15.0	100
1038	5.4	9.6*	15.0	101
1042	5.1	10.0	15.0	101
1121	5.1	9.9	15.0	100
1267	5.0	10.1	15.0	100
1573	5.1	9.4*	15.2	99
2193	5.1	10.0	14.8	100
6980	5.3	10.0	15.0	102
7662	4.8	10.2	14.1*	98
7691	5.1	10.1	15.0	101
7851	5.2	9.4*	15.5	100
7945	5.1	10.0	15.1	101
7946	4.9	9.7	15.2	99
7972	5.1	10.0	15.0	101
AVERAGE ANALYSIS	5.1	9.9	15.0	
COEFFICIENT OF VARIATION	3.7	2.5	1.9	
5 15 0 WITH 0031 ALDRIN				
1251 SEE NOTE 3	5.4	14.1*		99
7542 SEE NOTE 3	5.2	14.2*		98
AVERAGE ANALYSIS	5.3	14.2		
COEFFICIENT OF VARIATION	2.7	.5		
5 20 20M				
1673	5.1	20.4	18.9*	100
6 6 18S				
1572	6.1	6.3	17.6	101
1674	5.9	6.4	17.7	100
2194	6.1	6.3	18.0	102
7540	6.6	6.7	18.0	107
7692	6.3	6.3	18.0	103
7898 SEE NOTE 1	6.0	7.1	18.0	105
7969	6.0	6.1	18.0	100
AVERAGE ANALYSIS	6.1	6.5	17.9	
COEFFICIENT OF VARIATION	3.9	5.2	1.0	
6 8 6S				
0407	5.9	8.0	6.3	100
0525	6.1	8.1	6.2	102
0601	6.0	8.3	6.2	102
AVERAGE ANALYSIS	6.0	8.1	6.2	
COEFFICIENT OF VARIATION	1.7	1.9	.9	
6 12 18S				
7973	6.1	11.9	18.2	101
8 10 15S				
7541	7.7*	10.2	14.7	99
7970	7.5*	10.2	15.6	99
AVERAGE ANALYSIS	7.6	10.2	15.2	
COEFFICIENT OF VARIATION	1.9		4.2	
10 10 10M				
0726	9.3*	10.9	10.9	101
1039	10.4	10.1	10.6	103
1041	10.0	10.3	10.0	100
1122	9.4*	10.7	10.6	100
1356	10.0	10.2	10.1	101
1528	10.0	10.0	10.4	101
1571	10.0	10.4	10.1	102
2192	9.7	9.9	10.4	99
6929 SEE NOTE 4 & 9	7.3*	10.0	12.1	90*
7690	10.0	9.5*	10.2	99

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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 CONTINUED				
10 10 10M CONTINUED				
7910	10.0	10.0	10.3	101
7944	10.0	10.6	9.4*	101
7968	9.7	10.1	10.5	100
7971	10.3	10.3	10.5	103
7990	10.0	10.4	10.0	101
AVERAGE ANALYSIS	9.9	10.2	10.3	
COEFFICIENT OF VARIATION	3.0	3.5	3.5	
12 12 12M				
0353	11.2*	12.0	12.0	97*
0727 SEE NOTE 6	10.7*	11.5*	12.4	94*
AVERAGE ANALYSIS	11.0	11.8	12.2	
COEFFICIENT OF VARIATION	3.2	3.0	2.3	
BLUEGRASS PLANT FOODS INC DANVILLE				
0 10 30M WITH 5 LBS BORAX				
2477 SEE NOTE 2		10.5	30.0	102
0 12 12M WITH 60 LBS BORAX				
1345 SEE NOTE 2		11.6*	13.7	103
0 20 20M				
0287 SEE NOTE 4		18.2*	20.0	94*
2056		20.2	18.6*	98
AVERAGE ANALYSIS		19.2	19.3	
COEFFICIENT OF VARIATION		7.4	5.1	
0 20 20M WITH 5 LBS BORAX				
2550 SEE NOTE 2		21.5	18.1*	102
0 20 20M WITH 0050 ALDRIN				
0713 SEE NOTE 3		18.7*	19.5*	95*
3 9 6M				
0708	3.1	8.6*	7.0	102
2248	3.2	8.5*	7.8	104
AVERAGE ANALYSIS	3.2	8.6	7.4	
COEFFICIENT OF VARIATION	2.2	.8	7.6	
3 12 12M				
1348	3.2	11.9	12.0	101
2054	3.2	12.0	11.2*	100
2247	3.2	11.7	12.1	100
2356	3.3	12.0	12.1	102
2549	3.6	11.5*	12.5	103
AVERAGE ANALYSIS	3.3	11.8	12.0	
COEFFICIENT OF VARIATION	5.2	1.8	4.0	
4 12 8M				
0288	4.0	11.1*	8.5	97*
0709	3.6*	11.5*	9.0	97*
2051	4.1	10.9*	8.5	97*
2251	3.9	11.0*	9.7	99
2358	4.0	11.9	8.4	100
2480	4.0	11.4*	9.1	100
2552	4.0	11.4*	11.4	105
2581	4.0	10.9*	8.7	97*
8936	4.2	11.6*	8.6	101
8937	4.2	11.7	8.3	101
9606	4.2	11.4*	8.4	100
AVERAGE ANALYSIS	4.0	11.3	9.0	
COEFFICIENT OF VARIATION	4.3	2.9	10.1	
4 12 8M WITH 0031 ALDRIN				
2060 SEE NOTE 3	4.2	11.2*	8.7	99
4 12 8S				
2476	4.2	12.0	8.7	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
BLUEGRASS PLANT FOODS CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 10M				
0710	5.0	9.9	10.4	100
1347	4.6	9.4	10.4	96*
2546	5.1	9.8	10.6	101
8933	5.3	9.7	10.1	101
AVERAGE ANALYSIS	5.0	9.7	10.4	
COEFFICIENT OF VARIATION	5.9	2.2	2.0	
5 10 15S				
0711	5.4	10.0	15.0	102
2057	5.0	10.0	15.0	100
2252	5.1	9.4*	15.7	100
2253	5.1	9.5*	15.2	99
2361	5.2	10.0	15.0	101
2551	5.0	10.0	15.1	100
2553	5.1	9.6*	15.0	99
2583	5.1	9.4*	15.0	98
2589	5.1	10.1	15.0	101
3085	5.0	10.0	15.5	101
8930	5.1	10.1	15.0	101
8939	5.5	10.1	15.5	104
9605	5.0	10.1	15.0	100
AVERAGE ANALYSIS	5.1	9.9	15.2	
COEFFICIENT OF VARIATION	3.0	2.8	1.6	
5 10 15S WITH 0020 ALDRIN				
2250 SEE NOTE 3	5.0	9.4*	15.6	99
2588 SEE NOTE 3	5.0	9.4*	15.4	98
8932 SEE NOTE 3	5.5	10.0	15.0	103
AVERAGE ANALYSIS	5.2	9.6	15.3	
COEFFICIENT OF VARIATION	5.6	3.6	2.0	
5 15 0				
0289	4.8	15.0		99
5 15 0 WITH 0031 ALDRIN				
0286 SEE NOTE 3	4.8	14.3*		96*
8931 SEE NOTE 3	5.1	14.2*		97*
AVERAGE ANALYSIS	4.9	14.5		
COEFFICIENT OF VARIATION	3.5	3.0		
5 20 20M				
2050	5.2	19.9	20.0	101
2158	5.6	19.5*	20.4	102
2254	5.4	18.6*	20.0	101
2355	5.2	19.6	20.0	100
2359	5.4	19.6	20.2	101
2555	5.5	20.0	17.9*	99
2585 SEE NOTE 4	5.4	17.0*	16.4*	89*
8934	5.5	19.8	19.9	101
AVERAGE ANALYSIS	5.4	19.3	19.4	
COEFFICIENT OF VARIATION	2.6	5.2	7.4	
6 6 18M				
2231	6.0	7.1	18.0	105
2246	5.6*	7.2	18.4	103
AVERAGE ANALYSIS	5.8	7.2	18.2	
COEFFICIENT OF VARIATION	4.9	1.0	1.6	
6 6 18S				
1351	6.0	6.2	18.2	101
2053	5.9	6.6	17.5*	101
2587	6.0	7.2	18.7	106
8940	6.1	6.4	17.9	102
AVERAGE ANALYSIS	6.0	6.6	18.1	
COEFFICIENT OF VARIATION	1.4	6.5	2.8	
6 6 18S WITH 0020 ALDRIN				
2245 SEE NOTE 3	6.3	5.9	18.1	102
9915 SEE NOTE 1 & 3	5.8	6.5	17.7	100
AVERAGE ANALYSIS	6.1	6.2	17.9	
COEFFICIENT OF VARIATION	5.8	6.8	1.6	
6 8 6M				
1346	5.9	8.0	6.3	100
2049	6.0	8.4	6.6	104
2547	6.0	8.1	7.5	104
AVERAGE ANALYSIS	6.0	8.2	6.8	
COEFFICIENT OF VARIATION	1.0	2.5	9.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
BLUEGRASS PLANT FOODS CONTINUED	(Percent)	(Percent)	(Percent)	
6 8 6S				
0712	6.1	8.5	6.7	105
2155 SEE NOTE 1	6.5	8.3	7.4	109
2582	5.9	8.5	7.5	105
2586	6.3	8.5	6.9	106
8935	6.0	8.0	6.3	101
AVERAGE ANALYSIS	6.2	8.4	7.0	
COEFFICIENT OF VARIATION	3.9	2.6	7.2	
6 12 18S				
1349 SEE NOTE 1	5.9	11.9	18.0	99
2052	5.8	11.9	17.0*	97*
2055	6.0	11.9	18.0	100
2159 SEE NOTE 1	5.7*	11.7	19.2	100
2249	6.1	11.9	18.1	100
2479	6.1	11.9	19.0	102
2590	6.0	11.9	18.7	101
AVERAGE ANALYSIS	5.9	11.9	18.3	
COEFFICIENT OF VARIATION	2.5	.6	4.1	
8 10 15S				
2160	7.6*	10.6	14.8	100
10 10 10M				
0290	10.3	10.5	9.8	103
1350	9.5*	10.1	10.2	98
2058	10.0	10.3	10.2	101
2156	10.0	10.1	10.2	101
2360 SEE NOTE 9	9.9	10.6	10.0	117
2478	10.0	10.4	10.0	101
2481	10.5	10.1	10.1	103
2548	10.3	10.3	10.0	103
2554	10.0	10.2	10.9	102
2584	10.3	10.2*	10.2	103
8938	10.9	10.1	10.0	105
AVERAGE ANALYSIS	10.2	10.2	10.2	
COEFFICIENT OF VARIATION	3.7	1.4	2.9	
10 10 10M WITH 0050 ALDRIN				
0714 SEE NOTE 3	9.3*	10.3	10.0	98
12 12 12M				
2059 SEE NOTE 4	11.1*	11.4*	11.8	94*
2157	12.0	12.3	11.6*	100
AVERAGE ANALYSIS	11.6	11.9	11.7	
COEFFICIENT OF VARIATION	5.5	5.4	1.2	
BUNTON SEED COMPANY				
6 12 6M				
6957	5.5*	13.0	6.6	102
BURLEY BELT PLANT FOOD WORKS INC				
0 10 30M				
7984		10.1	30.0	100
0 20 20M				
0581		19.4*	20.0	98
7915 SEE NOTE 9		12.2*	18.5*	71*
3 9 6M				
0582	3.0	9.0	7.4	104
0919	2.9	8.6*	6.2	97*
7920	3.0	9.0	7.5	105
AVERAGE ANALYSIS	3.0	8.9	7.0	
COEFFICIENT OF VARIATION	1.9	2.6	10.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
BURLEY BELT PLANT FOOD CONTINUED	(Percent)	(Percent)	(Percent)	
3 12 12M				
7549	3.1	11.5*	12.0	98
4 12 8M				
0531	4.3	11.5*	9.1	102
0760	4.2	11.5*	9.2	102
7546	4.3	11.2*	9.3	101
7914	4.1	10.9*	9.1	98
AVERAGE ANALYSIS	4.2	11.3	9.2	
COEFFICIENT OF VARIATION	2.3	2.5	1.0	
4 16 4S				
0583	4.5	14.3*	5.0	98
4 16 4S WITH 0031 ALDRIN				
0358 SEE NOTE 3	4.1	14.6*	5.0	97*
7544 SEE NOTE 3 & 4	4.3	14.6*	4.4	97*
7613 SEE NOTE 3	4.7	14.7*	4.5	100
7645 SEE NOTE 3	3.9	16.0	4.0	99
AVERAGE ANALYSIS	4.3	15.0	4.5	
COEFFICIENT OF VARIATION	8.0	4.6	9.2	
5 10 10M				
0532 SEE NOTE 9	4.9	10.0	15.3	111
7547	4.9	9.7	10.5	99
7918	5.2	10.0	9.6*	100
AVERAGE ANALYSIS	5.1	9.9	10.1	
COEFFICIENT OF VARIATION	4.2	2.2	6.3	
5 10 15S				
0585	5.0	9.8	15.2	100
0705	5.1	9.6*	15.1	99
0734	4.5*	9.6*	15.2	96
0901	4.2*	10.3	14.6*	96*
0918	5.1	10.0	15.0	101
1054	5.1	10.0	15.0	101
7543	5.4	9.7	15.5	102
7924 SEE NOTE 1	5.0	10.1	15.0	100
7975	4.2*	10.0	15.0	95*
7976	4.2*	9.7	15.0	94*
AVERAGE ANALYSIS	4.8	9.9	15.1	
COEFFICIENT OF VARIATION	9.6	2.4	1.5	
5 10 20S				
7925	4.1*	10.2	19.1*	94*
6 6 18S				
7551	5.8	6.8	16.7*	99
7922	5.7*	6.9	16.8*	99
7985	5.6*	6.1	18.0	98
AVERAGE ANALYSIS	5.7	6.6	17.2	
COEFFICIENT OF VARIATION	1.8	6.6	4.2	
6 8 6S				
0706	5.6*	8.3	5.3*	97*
0735	5.6*	7.9	6.9	99
0902	5.7*	8.0	7.5	102
0920	5.7*	8.0	6.6	104
1055	6.4	8.0	5.5*	102
7550	6.2	8.1	5.0*	100
7916	6.1	8.2	6.0	102
AVERAGE ANALYSIS	5.9	8.1	6.1	
COEFFICIENT OF VARIATION	5.5	1.7	15.0	
8 10 15S				
7545	7.8	9.5*	15.0	97*
7921	7.5*	10.0	14.5*	97*
AVERAGE ANALYSIS	7.7	9.8	14.8	
COEFFICIENT OF VARIATION	2.8	3.6	2.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
BURLEY BELT PLANT FOOD CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
0761	10.1	9.9	9.9	100
0921	9.6*	9.4*	10.0	96*
7548	10.4	9.6*	9.8	100
7917	9.5*	10.1	9.6*	97*
7977	9.4*	9.8	10.1	96*
AVERAGE ANALYSIS	9.8	9.8	9.9	
COEFFICIENT OF VARIATION	4.4	2.8	1.9	
12 12 12M				
0584	11.2*	12.2	12.6	98
CHEMICAL FORMULATORS INC				
5 10 5M				
0588	5.2	9.5*	5.2	100
CLOVER CHEMICAL COMPANY				
6954				
21 21 21M	21.3	20.8	22.2	101
COMMONWEALTH FERT CO RUSSELLVILLE				
0 20 20M				
0461		20.9	20.5	104
0854		21.3	17.8*	101
2118		20.7	22.5	107
2222		20.6	22.5	106
2271		20.8	20.0	103
2446		9.7	19.9	98
AVERAGE ANALYSIS		19.0	20.5	
COEFFICIENT OF VARIATION		24.0	8.7	
3 9 6M				
2111	2.9	10.5	7.1	112
2221	3.1	9.2	7.3	106
2273	3.3	10.1	6.5	111
2449	3.0	9.1	6.4	102
AVERAGE ANALYSIS	3.1	9.7	6.8	
COEFFICIENT OF VARIATION	5.6	7.0	6.5	
4 12 8M				
0462	4.2	11.7	9.1	103
0468	4.1	11.6*	9.5	102
2121	4.0	12.2	8.9	103
2220	4.0	12.0	9.5	103
2269	3.8	11.4*	10.2	101
2272	3.7*	11.6*	9.6	100
2447	4.0	11.0*	9.1	98
2448	4.3	11.4*	9.7	103
2484	4.1	10.8*	9.4	98
2486	4.1	11.3*	8.6	99
2651	4.1	10.7*	9.2	98
8863	4.3	12.9	8.0	106
9958	4.1	11.5*	8.7	100
AVERAGE ANALYSIS	4.1	11.5	9.2	
COEFFICIENT OF VARIATION	4.2	5.1	6.1	
4 12 8M WITH 0050 ALDRIN				
2488 SEE NOTE 3	4.3	11.5*	7.9	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
COMMONWEALTH FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S				
0463	5.1	10.0	15.0	101
2114	4.3*	10.4	15.2	98
2120	5.0	10.7	13.7*	100
2219	4.5*	10.2	16.0	100
2268	4.7*	9.9	15.4	99
2275	4.4*	10.4	14.5*	97*
2450	5.0	9.6*	14.5*	97*
2489	4.9	9.3*	16.5	100
8865	5.1	10.9	13.9*	102
9960	5.0	10.1	15.5	101
AVERAGE ANALYSIS	4.8	10.1	15.1	
COEFFICIENT OF VARIATION	6.3	4.3	5.6	
5 20 20M				
0466	5.2	18.7*	20.4	98
0855 SEE NOTE 4	4.3*	18.9*	20.5	95*
2113	4.7*	20.2	21.5	101
2116	4.8	20.0	20.1	99
2123	4.6*	20.2	19.0*	98
2276	4.9	20.0	20.0	100
2490	4.6*	20.2	20.0	99
2653	4.5*	19.7	19.2*	96*
AVERAGE ANALYSIS	4.7	19.7	20.1	
COEFFICIENT OF VARIATION	5.8	3.1	3.9	
6 12 12M				
0469	6.1	11.4*	12.6	99
2115	6.2	11.2*	13.7	101
2119	6.1	12.1	12.0	101
2124	6.2	11.2*	12.4	99
2218	6.1	11.3*	12.2	98
2270	5.9	11.5*	13.0	99
2451	5.6*	12.5	11.0*	98
2487	6.0	11.3*	12.2	98
2652	5.5*	11.7	11.3*	95*
8864	5.7*	13.0	12.0	102
9959	6.1	11.3*	13.5	101
AVERAGE ANALYSIS	6.0	11.7	12.4	
COEFFICIENT OF VARIATION	4.1	5.1	6.7	
10 10 10M				
0464	9.6*	10.1	10.4	99
1242	10.2	9.5*	10.5	100
2117	9.1*	11.0	10.4	100
2122	9.9	10.3	10.1	101
2274	9.2*	11.0	8.7*	97*
2452	9.6*	10.7	10.1	101
2485	9.4*	10.0	11.2	99
2491	10.0	10.0	10.5	101
2493	9.8	10.2	10.6	101
8866	9.9	9.9	11.1	101
AVERAGE ANALYSIS	9.7	10.3	10.4	
COEFFICIENT OF VARIATION	3.7	4.8	6.6	
COOPERATIVE FERTILIZER SERV BRISTOL				
0 20 20M				
0143		21.0	21.4	106
0 25 25M				
0905		26.1	25.5	104
2 12 12M				
0144	2.6	13.1	12.7	111
0337	2.6	12.7	12.4	109
0913	2.5	12.3	12.4	107
AVERAGE ANALYSIS	2.6	12.7	12.5	
COEFFICIENT OF VARIATION	2.3	3.1	1.4	
5 10 5M				
0142	5.0	10.7	6.7	108
0338	5.3	10.5	5.6	106
AVERAGE ANALYSIS	5.2	10.6	6.2	
COEFFICIENT OF VARIATION	4.1	1.3	12.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
COOPERATIVE FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 10M				
0145	5.1	10.6	10.6	105
0339	5.1	10.3	10.4	103
0914	5.0	10.3	10.2	102
AVERAGE ANALYSIS	5.1	10.4	10.4	
COEFFICIENT OF VARIATION	1.1	1.7	1.9	
10 10 10M				
0340	10.2	10.9	10.0	104
0906	10.0	10.9	10.5	104
AVERAGE ANALYSIS	10.1	10.9	10.3	
COEFFICIENT OF VARIATION	1.4		3.4	
10 20 20M				
0141 SEE NOTE 4	9.0*	17.9*	21.7	94*
0341	9.4*	19.0*	20.9	97*
0908 SEE NOTE 9	12.7	24.4	16.7*	115
AVERAGE ANALYSIS	9.2	18.5	21.3	
COEFFICIENT OF VARIATION	3.1	4.2	2.7	
COOPERATIVE FERT SERV LOUISVILLE				
0 19 38M WITH 4 LBS BORAX				
1035 SEE NOTE 2		20.2	37.5	103
1696 SEE NOTE 2		20.4	38.5	104
1733 SEE NOTE 2		19.9	39.5	104
2401 SEE NOTE 2		19.0	39.2	102
2604 SEE NOTE 2		19.5	38.7	102
9508 SEE NOTE 2		19.8	37.7	102
AVERAGE ANALYSIS		19.8	38.5	
COEFFICIENT OF VARIATION		2.5	2.1	
0 30 30M				
0662		30.0	30.5	101
1034		30.1	30.0	100
1086		29.3*	31.0	100
1102		29.7	30.2	100
1123		31.0	30.0	102
1260		30.5	31.0	102
1428		29.5	31.0	100
1556		30.5	30.4	102
2598		29.9	30.2	100
8874		30.1	30.2	100
9478		31.9	31.0	105
9792		30.2	30.7	101
AVERAGE ANALYSIS		30.2	30.5	
COEFFICIENT OF VARIATION		2.3	1.3	
3 12 12M				
0667	3.6	11.8	12.5	104
1101	3.2	12.4	12.2	104
1182	3.3	12.1	13.2	105
1457	3.2	11.9	12.7	102
1734	3.2	12.1	12.6	103
2350	3.0	11.8	12.7	101
2603	3.1	12.3	12.6	103
6932	3.1	12.3	12.5	103
7531	3.1	12.2	13.0	104
9452	3.1	12.0	12.6	102
9507	3.1	12.5	12.5	104
9510	3.4	11.9	13.0	104
AVERAGE ANALYSIS	3.2	12.1	12.7	
COEFFICIENT OF VARIATION	5.2	1.9	2.2	
4 12 4S				
0198	4.3	12.6	4.2	106
4 12 8M				
0665	4.3	11.6*	8.3	101
2043	4.1	12.0	8.7	102
2400	4.1	11.9	8.3	101
2605	4.1	12.1	8.4	102
6930	4.1	12.0	8.5	102

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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 FERTILIZER CONTINUED				
4 12 8M CONTINUED				
6977	4.0	12.0	8.4	101
8857	4.2	12.5	9.1	106
9450	4.1	12.1	8.7	103
9504	4.2	11.9	8.7	103
9511	4.0	11.4*	9.1	100
9594	4.2	11.9	8.4	102
AVERAGE ANALYSIS	4.1	11.9	8.6	
COEFFICIENT OF VARIATION	2.2	2.3	3.4	
4 16 4S				
0229	4.1	16.0	4.2	101
1036	4.2	16.0	4.4	102
1077	4.4	16.0	4.6	104
2046	4.2	16.0	4.4	102
6926	4.0	16.4	4.2	102
7494	4.0	16.2	4.5	102
7718	4.3	16.3	4.0	103
9405	4.1	16.1	4.2	101
9426	4.2	16.1	4.2	102
9456	4.2	15.7	4.5	101
9479	4.1	16.0	4.5	102
AVERAGE ANALYSIS	4.2	16.1	4.3	
COEFFICIENT OF VARIATION	2.9	1.2	4.3	
4 16 4S WITH 0031 ALDRIN				
0175 SEE NOTE 3	4.1	15.5*	4.5	100
0228 SEE NOTE 3	4.3	15.0*	5.9	102
1033 SEE NOTE 3	4.1	15.7	4.5	100
1056 SEE NOTE 3	4.1	15.8	4.1	100
7532 SEE NOTE 3	4.1	15.5*	4.1	99
8873 SEE NOTE 3	4.1	15.9	4.7	102
9623 SEE NOTE 3	4.3	16.2	4.0	103
AVERAGE ANALYSIS	4.2	15.7	4.5	
COEFFICIENT OF VARIATION	2.3	2.4	14.4	
5 10 15S				
1124	5.2	10.0	15.4	102
1183	5.1	10.0	15.5	102
2045	5.1	10.3	15.0	102
2351	5.2	10.5	14.9	103
2467	5.1	10.2	15.0	101
6906	5.0	10.0	15.0	100
7536	5.5	10.2	15.2	104
7644	5.2	10.3	15.1	103
7787	5.1	10.0	15.4	101
8858	5.0	10.0	15.0	100
8958	5.4	10.2	15.2	104
9451	5.3	10.0	15.0	102
9502	5.3	11.3	15.3	108
9529	5.3	10.5	15.0	104
9595	5.0	10.1	15.0	100
AVERAGE ANALYSIS	5.2	10.2	15.1	
COEFFICIENT OF VARIATION	2.9	3.3	1.2	
5 10 15S WITH 0015 ALDRIN				
0399 SEE NOTE 3	5.1	10.3	14.8	101
0731 SEE NOTE 3	5.1	10.3	15.0	102
7659 SEE NOTE 3	5.2	10.3	15.0	102
AVERAGE ANALYSIS	5.1	10.3	14.9	
COEFFICIENT OF VARIATION	1.1		.8	
5 20 20M				
1088	5.1	19.6	20.0	99
1128	5.1	19.8	20.5	101
1456	5.2	19.6	20.7	101
1466	5.2	19.9	20.2	101
1534	5.3	19.9	21.0	102
1538	5.2	19.9	20.1	101
2237	5.4	19.9	20.0	101
2349	5.3	19.9	20.0	101
2468	5.2	19.3*	20.5	100
2591	5.3	19.9	20.0	101
6933	5.1	19.3*	21.4	100
7788	5.2	19.3*	20.7	100
7966	5.5	20.0	20.5	103
9455	5.2	18.8*	20.5	98
9505	5.0	19.1*	20.8	99
9591	5.1	19.3*	20.1	99
9647	5.4	19.4*	21.4	102

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
COOPERATIVE FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M CONTINUED				
9791	5.0	18.5*	21.2	98
9795	5.4	21.4	18.9*	103
9972	5.1	20.7	20.0	102
AVERAGE ANALYSIS	5.2	19.7	20.4	
COEFFICIENT OF VARIATION	2.7	3.2	2.9	
6 8 6S				
0663	6.2	8.0	6.1	102
1397	6.2	8.8	6.5	107
2236	6.1	8.4	6.5	104
2330	5.9	8.2	6.2	101
2593	6.1	8.2	6.4	103
6976	6.2	8.2	6.1	103
8955	6.1	8.2	6.0	102
9506 SEE NOTE 1	6.2	8.9	6.6	108
AVERAGE ANALYSIS	6.1	8.4	6.3	
COEFFICIENT OF VARIATION	1.7	3.8	3.6	
6 12 12M				
1085	6.1	12.0	12.4	101
2238	6.1	12.0	12.6	102
2459	6.1	12.2	12.0	101
2592	5.9	12.0	11.6*	99
6914	6.3	12.4	12.2	104
7000	6.0	12.4	12.0	101
9454	6.2	12.2	12.4	103
9503	6.1	13.3	12.2	106
9526	6.5	12.1	12.4	104
9593	6.5	12.3	13.0	106
9649	4.8*	13.0	11.6*	96*
9921	6.0	12.1	12.6	101
AVERAGE ANALYSIS	6.1	12.3	12.3	
COEFFICIENT OF VARIATION	7.2	3.3	3.3	
10 10 10M				
0224	10.9	10.2	10.7	106
0359	10.6	10.5	10.1	105
0516	10.6	10.2	10.1	104
0552	10.1	10.5	10.2	103
1087	10.2	10.6	10.2	103
1181	10.4	10.2	10.1	103
2044	10.0	10.9	10.1	103
2255	10.3	10.4	10.6	104
2469	10.6	10.2	10.5	105
2594	10.5	10.1	10.0	103
4015	10.1	10.3	10.1	102
6907	10.1	10.3	10.4	102
7498	10.3	10.2	10.6	103
7642	10.2	10.3	10.0	102
7781	10.5	10.2	10.3	104
7786	10.1	10.2	10.6	102
8956	10.9	10.0	10.6	106
9453	10.3	10.5	10.7	104
9501	10.7	10.9	10.4	107
9592	10.4	10.0	11.2	104
9596	9.9	10.2	10.9	102
9648	10.4	10.7	10.2	105
9742	10.6	10.3	10.4	105
9989	10.4	10.3	10.2	103
AVERAGE ANALYSIS	10.4	10.3	10.4	
COEFFICIENT OF VARIATION	2.6	2.4	3.0	
10 10 10M WITH 0040 HEPTACHLOR				
0722 SEE NOTE 3	10.3	10.4	10.2	102
1139 SEE NOTE 3	9.9	10.3	10.0	101
AVERAGE ANALYSIS	10.1	10.4	10.1	
COEFFICIENT OF VARIATION	2.8	.7	1.4	
COOPERATIVE FERT SERV RUSSELLVILLE				
0 30 30M				
0668		30.0	30.0	100
1716 SEE NOTE 4 & 9		36.8	24.0*	108
8924		30.5	30.0	101
AVERAGE ANALYSIS		30.3	30.0	
COEFFICIENT OF VARIATION		12		

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
COOPERATIVE FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M				
0236	4.2	11.9	8.3	102
0692	4.4	11.7	8.1	102
0879	4.5	12.0	9.1	106
1010	4.5	12.2	8.9	106
2128	4.5	12.1	8.7	105
6919	4.4	12.0	8.3	103
9434	3.9	12.0	8.0	99
9474	4.2	12.3	8.7	104
9590	4.2	12.3	8.7	104
9723	4.2	12.0	8.6	103
AVERAGE ANALYSIS	4.3	12.1	8.5	
COEFFICIENT OF VARIATION	4.5	1.5	4.1	
5 10 15S				
0237	5.1	10.0	15.0	101
1007	5.2	10.1	15.2	102
1627	4.8	10.0	15.0	99
2521	5.5	10.1	15.0	103
6925	5.4	9.5*	15.2	101
7504	5.0	10.4	14.7	101
7755	5.1	10.2	15.8	103
8861	5.4	10.1	15.0	103
9473	5.3	10.0	16.0	104
9587	5.1	10.6	15.4	104
9650	5.3	10.0	15.6	103
9690	5.0	10.2	15.0	101
9722	5.0	10.0	15.5	101
AVERAGE ANALYSIS	5.2	10.1	15.3	
COEFFICIENT OF VARIATION	3.9	2.5	2.5	
5 20 20M				
0149	5.2	20.6	19.9	102
0238	5.2	20.2	20.0	101
0666	5.2	20.2	20.0	101
0880	5.4	19.3*	20.0	100
1009	5.3	20.0	19.1*	100
1016	5.2	19.9	20.2	101
1718	5.9	20.0	19.5*	103
1740	5.3	20.1	20.6	102
2110	5.2	20.2	19.2*	100
2431	5.5	20.4	19.3*	102
2502	5.3	21.3	18.2*	102
7733	5.2	19.6	20.1	100
7756	5.3	19.4*	20.8	101
8860	5.1	20.0	20.7	101
8925	5.3	19.8	21.7	103
9435	5.1	19.2*	22.0	101
9477	5.2	19.4*	21.1	101
9550	5.2	20.3	20.5	102
9586	5.3	20.1	19.7	101
AVERAGE ANALYSIS	5.3	20.0	20.1	
COEFFICIENT OF VARIATION	3.4	2.5	4.5	
6 12 12M				
0150	6.2	12.5	12.1	103
1008	6.1	12.2	12.2	102
2410	5.9	11.9	12.6	100
2522	6.4	12.2	12.1	103
6922	6.3	12.0	13.0	104
7484	6.2	12.0	12.2	101
7505	6.1	11.6*	12.5	100
8877	6.4	12.0	12.7	104
9432	6.5	12.2	11.5*	103
9472	5.7*	12.0	11.9	98
9475	5.9	12.0	12.1	100
9552	6.6	11.9	12.0	103
9589	6.6	12.3	12.2	105
AVERAGE ANALYSIS	6.2	12.1	12.2	
COEFFICIENT OF VARIATION	4.5	1.8	3.1	
10 10 10M				
0881	9.8	10.2	11.5	102
1717	9.4*	10.0	11.0	99
2432	10.0	11.1	10.5	105
6921	10.6	10.7	9.8	105
9431	10.5	10.5	10.0	104

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
COOPERATIVE FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M CONTINUED				
9476	9.8	11.0	10.0	102
9551	10.9	10.5	10.1	106
9679	10.2	10.5	10.4	103
9689	10.0	10.4	10.0	101
AVERAGE ANALYSIS	10.1	10.5	10.4	
COEFFICIENT OF VARIATION	4.6	3.3	5.4	
10 20 20M				
0484	9.3*	21.9	20.0	102
0882	9.8	19.4*	20.5	99
2387	9.4*	20.0	20.1	98
9512	10.0	19.6	20.5	100
AVERAGE ANALYSIS	9.6	20.2	20.3	
COEFFICIENT OF VARIATION	3.4	5.7	1.3	
10 30 20M				
0151 SEE NOTE 6	9.5*	28.6*	20.1	96*
0174	10.3	29.5	20.0	100
0182	9.9	29.6	20.2	99
0190	10.3	30.0	20.0	101
0376	10.5	31.1	18.6*	102
1205 SEE NOTE 5	9.7*	27.7*	20.0	95*
2207	10.7	31.4	17.8*	102
7905	10.2	29.7	19.6	100
8859	9.6*	28.7*	21.0	97*
8959	9.7	28.0*	21.1	97*
9688	10.3	30.6	19.0*	101
AVERAGE ANALYSIS	10.1	29.5	19.8	
COEFFICIENT OF VARIATION	4.0	4.1	5.0	
12 12 12M				
0152	12.2	12.6	11.6*	102
0180	12.1	12.4	12.6	102
0183	11.6*	12.3	11.9	99
0191	10.9*	13.1	12.6	99
0196	12.0	12.2	13.0	102
0404	11.9	12.5	12.6	102
0553	11.1*	12.4	13.5	99
0694	11.6*	12.0	12.6	99
0883	11.9	12.0	12.2	100
2109	12.1	12.5	11.5*	101
2165	12.2	12.5	12.2	103
2386	11.9	12.1	12.0	100
2460	12.0	12.5	13.0	103
2606	11.8	12.5	12.0	101
4018	10.8*	12.5	12.4	97*
6909	11.8	12.2	11.7	99
6920	12.0	12.0	12.6	101
8923	12.1	12.2	12.2	101
9433	12.2	12.1	12.5	102
9527	11.8	12.3	12.2	100
9588	11.8	12.1	13.4	101
9680	11.3*	12.0	12.4	98
9741	12.0	12.1	12.4	101
AVERAGE ANALYSIS	11.8	12.3	12.4	
COEFFICIENT OF VARIATION	3.4	2.1	4.1	
COOPERATIVE FERT SERV WINCHESTER				
0 19 38M WITH 4 LBS BORAX				
0593 SEE NOTE 2		19.0	38.0	100
0603 SEE NOTE 2		19.6	38.7	103
4034 SEE NOTE 2		19.1	38.2	101
7533 SEE NOTE 2		20.1	39.9	105
9784 SEE NOTE 2		19.7	39.0	103
AVERAGE ANALYSIS		19.5	38.8	
COEFFICIENT OF VARIATION		2.3	1.9	
0 30 30M				
0354		32.7	27.6*	103
0384		30.5	29.2*	100
0594		32.2	30.5	106
4016		30.7	30.0	102
4033		30.7	30.1	102
7765		31.6	30.0	104
7829		30.8	30.0	102
7956		30.6	30.2	102
AVERAGE ANALYSIS		31.2	29.7	
COEFFICIENT OF VARIATION		2.7	3.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
COOPERATIVE FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M				
0170	4.2	11.9	9.3	104
0178	4.2	11.9	8.9	103
0199	4.1	12.0	8.6	102
0373	4.1	11.8	8.4	101
0377	4.2	12.1	8.5	103
0730	4.1	11.9	8.0	100
7496	4.0	11.4*	8.4	98
7500	4.1	12.0	8.5	102
7761	4.0	11.3*	8.5	98
9530	4.1	12.3	8.3	103
7658	4.1	11.2*	8.3	98
9622	4.0	11.8	7.9	99
AVERAGE ANALYSIS	4.1	11.8	8.5	
COEFFICIENT OF VARIATION	1.8	2.8	4.4	
5 10 10M				
0723	5.0	10.3	10.0	101
5 10 15S				
0171	5.1	10.3	15.0	102
0189	5.1	10.3	15.5	103
0197	5.4	9.8	16.0	104
0374	5.0	10.2	15.2	101
0526	5.0	10.3	15.0	101
0695	4.9	10.2	15.1	100
6927	5.0	10.4	15.0	102
7499	5.0	10.2	15.2	101
7643	5.0	10.0	15.2	100
7654	5.0	10.2	15.0	101
9625	4.6*	10.3	14.4*	98
7715	5.1	10.0	15.0	101
9406	5.2	10.1	15.0	102
9509	5.3	10.2	15.2	103
9787	5.2	9.9	15.2	101
AVERAGE ANALYSIS	5.1	10.2	15.1	
COEFFICIENT OF VARIATION	3.6	1.7	2.2	
5 10 20S				
4019	5.0	9.9	20.9	101
7655	5.2	10.0	20.0	101
7807	5.0	10.2	20.1	101
7831	5.0	10.9	20.0	103
AVERAGE ANALYSIS	5.1	10.3	20.3	
COEFFICIENT OF VARIATION	2.0	4.4	2.2	
5 20 20M				
0200	5.3	19.3*	20.8	100
0225	5.0	20.0	21.4	102
0400	5.0	20.0	20.1	100
4020	5.0	19.4*	20.6	99
7657	5.0	19.5*	20.0	99
7782	5.7	19.2*	21.0	102
7785	5.6	20.1	20.1	103
7904	5.2	19.9	20.1	101
9528	5.1	20.4	20.2	102
9624	5.0	18.7*	21.1	98
9785	5.6	19.7	20.0	102
9833	4.8	19.9	23.0	103
9920	5.1	19.9	20.2	100
AVERAGE ANALYSIS	5.2	19.7	20.7	
COEFFICIENT OF VARIATION	5.4	2.3	4.1	
6 6 18S				
0401	5.9	6.7	18.1	103
0527	5.9	6.1	19.0	102
1103	5.9	6.1	17.9	100
1478	6.1	6.1	17.5*	100
1670	6.0	6.1	18.7	102
1671	6.0	6.4	17.7	101
3092	6.0	6.2	18.2	101
6908	6.0	6.2	18.0	101
7535	6.0	6.3	18.5	102
7716	5.9	7.0	17.5*	103
8898	5.8	6.8	18.2	105
9740	6.0	6.4	18.5	103
AVERAGE ANALYSIS	6.0	6.4	18.2	
COEFFICIENT OF VARIATION	1.3	4.8	2.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
COOPERATIVE FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
6 8 6S				
0147	6.0	7.9	6.5	101
0172	5.9	8.7	6.9	105
0226	6.0	8.3	6.3	102
0375	6.0	8.1	6.1	101
0378	6.0	8.3	6.1	102
0517	5.9	8.7	6.4	104
1479	6.0	8.0	6.0	100
6928	6.1	8.2	6.3	103
7495	6.1	8.2	6.5	103
7534	6.0	8.4	6.9	104
7830	6.0	8.5	7.0	105
9743	6.1	8.9	6.2	106
AVERAGE ANALYSIS	6.0	8.4	6.4	
COEFFICIENT OF VARIATION	1.1	3.6	5.3	
6 12 12M				
0146	6.0	11.3*	12.5	98
0173	6.1	11.9	13.0	102
0179	5.9	11.5*	12.6	99
0181	5.9	11.2*	13.0	98
0518	6.2	12.0	12.0	101
1477	6.1	11.3*	12.2	98
7497	5.9	11.3*	13.0	99
7641	6.0	12.0	12.0	100
7656	6.0	12.0	12.4	101
7762	5.9	11.2*	12.6	98
7777	6.2	11.4*	12.2	99
9626	6.2	11.7	12.2	100
9786	6.0	11.4*	12.1	98
AVERAGE ANALYSIS	6.0	11.6	12.4	
COEFFICIENT OF VARIATION	2.0	2.8	3.0	
10 10 10M				
1577	10.5	10.1	10.2	103
DARLING & COMPANY CAIRO ILLINOIS				
0 20 20M				
1640 SEE NOTE 5		17.3*	23.1	96*
3 9 27M				
1019	3.8	9.7	26.3*	106
4 12 8M				
0613	5.4	12.7	8.7	114
0803	4.0	13.0	10.4	110
1651	4.1	12.3	12.9	113
AVERAGE ANALYSIS	4.5	12.7	10.7	
COEFFICIENT OF VARIATION	17.4	2.8	19.8	
5 10 15S				
0614 SEE NOTE 1	6.1	10.8	15.0	110
0617 SEE NOTE 1	5.5	11.5	13.5*	106
1313 SEE NOTE 1	5.4	10.4	14.3*	103
AVERAGE ANALYSIS	5.7	10.9	14.3	
COEFFICIENT OF VARIATION	6.7	5.1	5.3	
5 20 20M				
0618	5.0	20.3	20.1	101
0804	4.9	20.9	19.7	102
1315	5.5	19.4*	19.8	100
1621	4.8	20.7	20.0	101
1646	5.4	18.9*	20.0	99
1654	5.5	18.9*	20.0	99
1744	5.3	19.0*	21.0	100
AVERAGE ANALYSIS	5.2	19.7	20.1	
COEFFICIENT OF VARIATION	5.7	4.5	2.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
DARLING & COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M				
0153 SEE NOTE 9	6.8	14.0	14.0	116
0301	6.4	12.6	12.1	105
0302 SEE NOTE 9	6.9	15.0	15.3	122
0313	7.0	13.1	12.7	111
0615	6.5	14.0	13.7	113
1018	6.8	12.4	13.0	108
1021	7.8	11.6*	11.2*	107
1022	6.7	12.0	12.5	105
1316	6.8	12.2	11.7	105
1629	6.5	12.3	11.6*	103
1647	6.8	16.5	14.8	126
1653	7.0	12.0	12.5	106
1743	5.9	12.0	13.4	102
AVERAGE ANALYSIS	6.7	12.8	12.7	
COEFFICIENT OF VARIATION	7.0	10.9	8.2	
6 24 24M				
0612	7.0	23.0*	23.5*	101
0619	6.7	23.2*	23.5*	100
1655	5.1*	24.1	23.9	97*
AVERAGE ANALYSIS	6.3	23.4	23.6	
COEFFICIENT OF VARIATION	16.3	2.5	1.0	
10 10 10M				
0154 SEE NOTE 4	7.1*	13.5	8.1*	94*
0314 SEE NOTE 4	7.2*	13.1	8.4*	94*
0537	9.7	11.0	10.4	103
0620	10.0	10.7	10.3	103
1314	10.5	11.5	11.2	110
1641	9.5*	10.3	12.1	102
1652	9.5*	10.9	12.1	104
AVERAGE ANALYSIS	9.1	11.6	10.4	
COEFFICIENT OF VARIATION	15.0	10.7	15.6	
12 12 12M				
0155	11.9	12.2	12.8	101
0616	12.0	12.1	12.4	101
AVERAGE ANALYSIS	12.0	12.2	12.6	
COEFFICIENT OF VARIATION	.6	.6	2.2	
DAVISON CHEMICAL CO NASHVILLE				
0 20 20M				
0857		18.1	21.2	96*
0867		17.7*	25.3	101
1206 SEE NOTE 5		19.4*	18.3*	95*
1483		19.3*	23.0	103
1705		17.6*	26.8	103
2146		19.6	20.2	99
2504		23.1	16.2*	104
AVERAGE ANALYSIS		19.3	21.6	
COEFFICIENT OF VARIATION		9.8	17.4	
0 20 20M WITH 2 LBS BORAX				
2147 SEE NOTE 2		20.6	19.1*	101
8890 SEE NOTE 2		19.6	19.4*	98
AVERAGE ANALYSIS		20.1	19.3	
COEFFICIENT OF VARIATION		3.5	1.1	
3 9 6M				
1485	3.1	9.2	6.6	104
2288	3.2	10.7	6.7	114
AVERAGE ANALYSIS	3.2	10.0	6.7	
COEFFICIENT OF VARIATION	2.2	10.7	1.1	
3 12 6M				
2287	3.0	12.5	7.0	105
3 12 12M				
1211	3.4	12.4	12.1	105
2289	3.1	12.1	11.6*	100
2576	3.1	12.0	11.8	100
AVERAGE ANALYSIS	3.2	12.2	11.8	
COEFFICIENT OF VARIATION	5.4	1.7	2.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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 CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M				
0308	4.8	11.8	9.4	108
1210	4.7	11.9	8.6	106
1240	4.8	11.9	8.7	107
1293	4.6	11.9	8.7	105
2126	4.4	12.3	8.3	105
2213	4.9	12.0	10.0	111
2264	4.6	12.0	8.4	105
2429	4.9	11.7	9.1	107
8882	4.8	11.9	8.1	105
9000	4.8	12.0	8.9	108
9583	4.8	12.0	9.6	109
9973	4.4	12.0	8.4	104
AVERAGE ANALYSIS	4.7	12.0	8.9	
COEFFICIENT OF VARIATION	3.7	1.2	6.5	
5 10 10M				
2443	4.6*	10.6	10.0	100
8990	5.5	10.4	10.9	107
AVERAGE ANALYSIS	5.1	10.5	10.5	
COEFFICIENT OF VARIATION	12.6	1.3	6.1	
5 10 15S				
0309	5.3	9.8	15.3	102
1209	5.1	10.1	15.0	101
1292	5.0	10.0	15.4	101
2127 SEE NOTE 1	5.8	9.7	15.0	104
2286	5.0	10.0	16.0	102
2575	5.3	10.4	14.8	103
8880	5.2	9.9	15.4	102
8988	5.5	9.4*	15.3	101
9581	5.4	9.9	15.4	103
9584	5.1	9.9	16.0	102
AVERAGE ANALYSIS	5.3	9.9	15.4	
COEFFICIENT OF VARIATION	4.7	2.6	2.6	
5 20 20M				
0310	5.2	18.9*	19.0*	97*
0318	5.5	18.6*	20.1	98
1213	5.2	19.9	20.0	101
1701	5.9	18.8*	19.5*	100
2263	5.0	19.4*	20.7	99
2284	5.0	20.0	19.5*	99
2442	5.2	19.7	20.4	101
2505	5.2	21.7	18.6*	103
2631	5.2	18.8*	20.5	98
8918	5.5	19.7	19.5*	101
8989 SEE NOTE 4	5.3	16.7*	18.0*	90*
8999	5.0	18.9*	20.5	98
9580	5.5	19.2*	19.0*	99
9724	4.9	19.1*	22.8	101
AVERAGE ANALYSIS	5.3	19.2	19.9	
COEFFICIENT OF VARIATION	5.1	5.6	5.8	
6 8 6M				
0800	6.5	8.5	8.2	112
1208	5.8	9.2	8.0	110
2285	6.1	9.4	8.1	113
8879	6.3	8.6	8.3	111
AVERAGE ANALYSIS	6.2	8.9	8.2	
COEFFICIENT OF VARIATION	4.8	5.0	1.6	
6 12 12M				
0311	6.4	11.6*	12.4	101
0801	6.1	11.7	13.0	101
0858	5.4*	1.33	11.7	101
1212	6.0	12.0	12.4	101
1243	6.4	12.0	13.0	104
1311	5.5*	12.3	12.2	99
1644	5.8	12.0	13.0	101
1703	5.6*	13.0	12.0	101
1707	6.0	12.6	12.2	103
2214	5.9	11.4*	12.4	98
9582	6.0	12.0	12.6	101
9585	6.2	12.4	11.7	102
9962	5.7*	12.0	12.4	99
AVERAGE ANALYSIS	5.9	12.2	12.4	
COEFFICIENT OF VARIATION	5.3	4.4	3.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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 CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M	10.2	10.4	10.9	104
0312	9.9	13.1	10.3	110
1214	8.7*	11.1	11.4	100
1241	9.7	10.5	11.2	102
1244	9.8	11.8	10.5	106
1291	8.5*	11.0	10.9	97*
1702	9.5*	10.2	10.0	98
2001	9.6*	10.5	10.1	100
2212	9.5*	11.8	10.2	104
2430	9.4*	11.9	10.2	104
2503	10.2	10.3	11.1	104
8881	9.5	11.1	10.6	
AVERAGE ANALYSIS	5.6	8.2	4.7	
COEFFICIENT OF VARIATION				
10 20 20M	9.3*	19.3*	18.3*	94*
1207 SEE NOTE 4	9.3*	18.1*	19.1*	92*
2145 SEE NOTE 5	9.3	18.7	18.7	
AVERAGE ANALYSIS		4.5	3.0	
COEFFICIENT OF VARIATION				
10 52 8M	10.4	52.4	7.5*	101
1301				
DAVISON CHEMICAL CO NEW ALBANY				
0 13 39M WITH 5 LBS BORAX		16.1	35.5*	104
2108 SEE NOTE 2				
0 25 25M		26.2	23.4	101
1049		24.3*	26.0	99
2242		23.5*	25.5	97*
2403 SEE NOTE 5		20.0*	32.3	96*
7566 SEE NOTE 5		26.5	25.0	104
7893		24.7	25.5	100
9768		24.2	26.3	
AVERAGE ANALYSIS		9.7	11.7	
COEFFICIENT OF VARIATION				
0 25 25M WITH 5 LBS BORAX		25.8	24.7	102
1368 SEE NOTE 2				
3 12 12M	3.3	12.2	12.1	103
1157	4.7	12.1	13.0	114
1166	3.5	13.8	12.0	111
1278	3.4	12.4	13.7	108
1366	3.2	11.5*	12.4	100
1602	3.4	12.2	12.4	104
1691	3.2	12.0	12.6	103
2336	3.7	12.4	12.0	106
4009	3.4	12.3	12.4	105
6943	3.0	12.4	12.4	103
7563	3.2	12.6	12.1	104
7983	3.6	12.0	13.0	106
9600	3.2	12.7	12.6	106
9804	3.3	12.5	14.2	110
9907	3.4	12.4	12.6	
AVERAGE ANALYSIS	11.8	4.1	5.1	
COEFFICIENT OF VARIATION				
4 12 8M	4.6	11.5*	11.2	109
0294	4.6	12.0	9.5	108
0456	4.2	11.6*	9.7	103
0472	4.3	14.4	10.8	119
0674	4.0	12.0	10.0	105
0863	3.9	12.0	8.9	101
0870	4.1	13.3	9.7	110
1277	4.0	12.8	9.4	107
2047	4.0	11.8	8.9	101
2337				

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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 CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M CONTINUED				
6942	4.3	12.0	9.7	106
7528	4.6	11.5*	11.0	109
7891	4.2	11.5*	10.2	104
9597	4.0	12.4	9.8	106
9621	4.0	13.4	10.1	111
9821	4.2	12.0	9.1	104
AVERAGE ANALYSIS	4.2	12.3	9.9	
COEFFICIENT OF VARIATION	5.7	6.9	7.2	
5 10 15S				
0249	5.3	10.2	16.0	105
0457	5.0	10.4	14.8	101
1048	5.0	11.1	13.7*	102
1078	4.7*	10.8	16.0	103
1367 SEE NOTE 1	5.4	9.7	15.0	101
2244	4.5*	10.5	16.0	101
2338	5.0	10.3	15.0	101
6941	4.8	10.3	16.2	102
7530	6.0	10.9	15.4	110
7751	4.9	10.2	15.4	101
7892	4.8	10.9	14.8	102
9599	5.1	10.2	15.7	103
9611	5.4	9.9	15.3	103
9619	5.1	10.1	15.3	102
9906	5.0	10.0	15.2	100
AVERAGE ANALYSIS	5.1	10.4	15.3	
COEFFICIENT OF VARIATION	7.1	3.9	4.2	
5 20 20M				
0843	5.0	19.4*	20.4	99
0864 SEE NOTE 5	4.9	20.3	19.2*	99
1051	5.0	20.0	20.0	100
1365	5.0	19.9	19.6	99
1557	5.0	20.5	20.0	101
7752	5.6	20.7	17.5*	101
7889	5.1	19.0*	20.4	98
9769	5.0	20.4	20.0	101
9802 SEE NOTE 5	5.0	19.3*	20.8	99
AVERAGE ANALYSIS	5.1	19.9	19.8	
COEFFICIENT OF VARIATION	4.1	3.0	4.9	
6 6 18S				
0295	6.1	7.2	18.5	107
1198 SEE NOTE 1	6.1	7.8	18.2	109
1287	5.6*	6.8	18.0	101
2241	5.8	6.3	18.1	100
6940	6.3	7.6	18.7	110
7529	6.1	6.9	18.2	105
7981	5.4*	6.4	18.2	98
AVERAGE ANALYSIS	5.9	7.0	18.3	
COEFFICIENT OF VARIATION	5.5	8.1	1.3	
6 8 6M				
0871 SEE NOTE 5	5.3*	8.2	7.3	99
1158	6.1	8.5	7.5	107
1164	6.1	8.9	7.7	110
1601 SEE NOTE 9	5.9	10.0	8.6	116
1689	5.2*	11.4	6.5	112
1692 SEE NOTE 5	5.3*	7.5*	7.5	96*
6989 SEE NOTE 9	6.2	12.0	8.1	127
7565 SEE NOTE 9	7.1	11.4	6.0	125
7982	5.5*	9.1	7.7	106
9803	6.1	8.9	7.0	108
AVERAGE ANALYSIS	5.7	8.9	7.3	
COEFFICIENT OF VARIATION	7.5	13.6	5.9	
6 12 12M				
0250 SEE NOTE 9	6.2	23.3	12.4	144
0458	5.7*	12.6	12.1	101
0865	6.2	12.1	12.6	103
2240	6.5	12.6	13.0	107
9620 SEE NOTE 9	10.0	12.4	12.4	124
AVERAGE ANALYSIS	6.1	12.4	12.6	
COEFFICIENT OF VARIATION	6.6	2.3	3.6	
6 18 12M				
0479	6.1	18.5	12.0	102

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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 CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
0251	9.8	11.3	10.0	103
0460	10.2	10.8	11.1	106
1159	9.9	10.3	11.0	102
1165	9.8	10.8	10.9	103
1436	9.6*	11.4	11.9	106
2402	9.7	11.2	11.9	106
6944	9.7	10.9	11.2	104
6988	10.0	12.5	12.4	112
7508	10.2	10.6	10.8	104
7564	10.4	10.9	10.9	107
7890	10.1	10.2	10.9	103
9598	9.9	10.5	11.4	104
AVERAGE ANALYSIS	9.9	11.0	11.2	
COEFFICIENT OF VARIATION	2.4	5.6	5.6	
12 12 12M				
0868	11.8	12.6	11.6*	100
1160	11.5*	12.8	12.6	101
1215	12.0	12.6	12.4	102
1279	11.8	12.2	12.1	100
2243	11.8	13.0	12.6	103
6987	12.0	12.5	12.6	102
AVERAGE ANALYSIS	11.8	12.6	12.3	
COEFFICIENT OF VARIATION	1.6	2.2	3.3	
15 15 15M				
0473 SEE NOTE 4	13.7*	15.0	15.3	96*
DIAMOND FERTILIZER COMPANY				
15 40 15M				
0924	16.0	41.1	14.4*	103
E TOWN FERTILIZER COMPANY				
0 20 20M				
2086		22.3	20.7	109
2177		23.1	18.8*	108
2371		20.3	20.6	102
2380		21.6	21.0	107
2613		20.4	20.5	102
2619		20.3	19.5*	100
AVERAGE ANALYSIS		21.3	20.2	
COEFFICIENT OF VARIATION		5.6	4.2	
2 12 6M				
0253 SEE NOTE 9	2.7	16.0	11.6	144
2186	2.7	12.0	6.1	106
2375	2.9	12.3	7.2	113
AVERAGE ANALYSIS	2.8	12.2	6.7	
COEFFICIENT OF VARIATION	5.1	1.7	11.7	
3 12 12M				
2088	3.7	12.3	12.4	107
2089	3.8	11.9	12.6	106
2183	3.5	12.6	12.0	106
2184	3.5	12.5	12.1	106
2308	3.6	12.2	12.0	105
2370	3.6	11.7	13.5	106
2609	4.0	11.4*	12.2	104
2618	3.7	11.6*	12.0	103
AVERAGE ANALYSIS	3.7	12.0	12.4	
COEFFICIENT OF VARIATION	4.5	3.7	4.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
E TOWN FERTILIZER CO CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M				
0254	4.8	11.9	8.5	106
2090	4.4	12.4	9.2	107
2179	4.6	12.3	9.0	108
2374	4.4	12.2	8.3	104
2383	4.6	11.6*	8.0	102
2602	4.5	12.1	8.3	105
2614	4.9	11.1*	9.1	105
8875	4.7	12.0	9.4	108
AVERAGE ANALYSIS	4.6	12.0	8.7	
COEFFICIENT OF VARIATION	3.9	3.6	5.9	
4 24 12M				
2373	4.0	24.2	11.4*	100
2377	4.6	23.6	13.0	103
2608	4.4	24.0	12.4	102
AVERAGE ANALYSIS	4.3	23.9	12.3	
COEFFICIENT OF VARIATION	7.1	1.3	6.6	
5 10 15S				
0255	5.7	10.1	14.9	104
2087	5.5	12.1	13.7*	109
2185	5.3	10.5	15.0	104
2306	5.6	10.4	15.2	106
2376	5.5	10.1	15.2	104
2600	5.3	10.6	15.0	104
2601	5.1	10.2	15.1	102
2616	5.7	10.1	15.5	106
2617	5.4	10.2	15.2	104
AVERAGE ANALYSIS	5.5	10.5	15.0	
COEFFICIENT OF VARIATION	3.7	6.1	3.4	
5 20 20M				
2091	5.1	20.8	20.0	103
2092	5.1	21.9	20.0	105
2180	4.4*	23.7	19.5*	107
2188	5.4	19.7	21.7	103
2309	4.3*	22.5	20.6	105
2372	5.8	18.7*	20.0	100
2381	6.2	18.9*	19.5*	101
2382	5.5	20.0	20.0	102
2615	5.6	18.9*	20.7	100
AVERAGE ANALYSIS	5.3	20.6	20.2	
COEFFICIENT OF VARIATION	11.8	8.7	3.4	
6 8 6S				
2307	6.3	8.7	6.3	107
2612	6.2	8.6	6.2	105
AVERAGE ANALYSIS	6.3	8.7	6.3	
COEFFICIENT OF VARIATION	1.1	.8	1.1	
6 12 12M				
0256	6.4	12.7	11.6*	104
2085	6.1	13.1	11.3*	103
2178	6.0	12.5	11.6*	101
2384	6.2	12.9	11.1*	103
2599	6.4	11.9	12.0	102
2611	6.3	11.4*	13.0	101
2620	6.4	11.3*	12.0	100
AVERAGE ANALYSIS	6.3	12.3	11.8	
COEFFICIENT OF VARIATION	2.6	5.9	5.3	
10 10 10M				
0257	10.4	10.5	10.9	105
2084	8.7*	12.8	11.4	105
2181	9.9	10.7	11.1	104
2182	9.7	11.2	10.9	104
2187	10.0	10.0	10.5	101
2304	10.0	10.5	10.5	103
2369	10.0	10.5	11.8	105
2378	9.2*	10.6	10.9	100
2607	10.2	10.2	10.5	103
2610	10.5	10.7	9.4*	104
AVERAGE ANALYSIS	9.9	10.8	10.8	
COEFFICIENT OF VARIATION	5.5	7.2	5.9	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
FARMERS FERTILIZER COMPANY	(Percent)	(Percent)	(Percent)	
5 10 15S 2514 SEE NOTE 1	4.7*	10.1	11.1*	91*
10 10 10M 2513	10.1	10.6	9.6*	102
FEDERAL CHEMICAL CO DANVILLE ILL				
3 9 27M 1491	3.2	8.9	27.0	101
6 24 24M 7554 SEE NOTE 6 7561 AVERAGE ANALYSIS COEFFICIENT OF VARIATION	6.0 6.0 6.0	22.5* 22.9* 22.7 1.2	25.4 25.0 25.2 1.1	98 99
7 28 14M 7559	6.9	28.1	13.6*	99
8 32 0 7560 SEE NOTE 6	8.1	30.0*		96*
FEDERAL CHEMICAL CO HUMBOLDT TENN				
0 20 20M 1320 SEE NOTE 4 1746 AVERAGE ANALYSIS COEFFICIENT OF VARIATION		17.8* 18.9* 18.4 4.2	20.5 20.5 20.5	94* 97*
3 9 27M WITH 5 LBS BORAX 1649 SEE NOTE 2	3.9	9.3	24.2*	101
4 12 8M 0159 0609 0632 0795 1005 1304 1338 1631 1745 AVERAGE ANALYSIS COEFFICIENT OF VARIATION	4.3 4.4 4.3 4.1 4.4 4.3 3.8 4.2 4.2 4.2 4.4	11.9 12.1 11.7 12.0 12.0 12.1 12.9 11.2* 11.9 12.0 3.7	10.2 9.9 8.9 9.2 9.2 8.9 8.7 7.5* 9.6 9.1 8.6	107 108 103 103 105 105 104 97* 104
5 10 15S 0160 0610 0633 SEE NOTE 1 0796 SEE NOTE 1 0810 SEE NOTE 1 1003 1302 SEE NOTE 1 1336 SEE NOTE 1 1632 1650 1665 SEE NOTE 1 AVERAGE ANALYSIS COEFFICIENT OF VARIATION	5.4 5.2 5.3 5.1 5.3 5.5 5.4 5.4 5.2 5.0 4.7* 5.2 4.4	9.9 10.0 9.9 10.3 10.2 10.1 10.6 10.2 10.1 10.2 11.0 10.2 3.2	15.0 15.0 16.0 14.7 15.2 15.0 15.0 15.0 15.0 15.0 14.5* 15.0 2.5	102 101 103 101 103 103 105 103 102 101 101
5 10 15S WITH 0015 ALDRIN 0812 SEE NOTE 1 & 3	6.2	10.0	14.1*	105

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
FEDERAL CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
1340	5.2	18.0*	24.7	102
1623	5.1	20.1	20.5	101
1666	4.7*	18.3*	21.2	96*
1747	4.6*	18.6*	20.5	95
AVERAGE ANALYSIS	4.9	18.8	21.7	
COEFFICIENT OF VARIATION	6.0	5.0	9.3	
6 12 12M				
0161	6.1	11.7	12.5	100
0608	6.1	12.0	12.2	101
0611	6.0	12.2	11.0*	99
0634	6.2	11.5*	12.1	99
0797	6.0	11.8	12.1	99
1002	6.0	12.2	11.8	100
1303	6.0	11.9	12.5	101
1321	6.8	12.0	12.1	105
1339	6.1	12.0	12.4	101
1630	6.0	12.4	10.8*	99
1648	5.9	12.0	11.3*	98
AVERAGE ANALYSIS	6.1	12.0	11.9	
COEFFICIENT OF VARIATION	4.0	2.1	5.0	
6 18 12M				
1322	7.0	17.5*	11.3*	102
10 10 10M				
0162	10.5	10.5	10.1	104
0635	10.1	10.4	10.2	102
0798	10.0	10.4	10.1	102
0811	10.7	10.1	10.0	104
1001	9.1*	10.0	10.2	96*
1004	10.9	10.3	10.1	106
1341	10.5	10.2	10.0	103
AVERAGE ANALYSIS	10.3	10.3	10.1	
COEFFICIENT OF VARIATION	5.8	1.8	.8	
12 12 12M				
0636	11.7	11.5*	12.9	99
0799	10.9*	12.2	11.8	96*
1323	12.7	11.3*	13.2	103
1342	12.3	12.0	11.3*	100
AVERAGE ANALYSIS	11.9	11.8	12.3	
COEFFICIENT OF VARIATION	6.6	3.6	7.3	
15 10 10M				
1324	14.2*	11.8	10.4	102
15 15 15M				
1337	15.2	16.2	15.0	103
FEDERAL CHEMICAL CO LOUISVILLE				
0 20 20M				
0186		19.1*	19.9	97*
1403		19.4*	20.5	99
1414		18.8*	20.0	102
2314		20.0	20.5	109
6960		20.2	19.6	100
7713 SEE NOTE 7		19.0*	19.4*	96*
7844		18.9*	20.1	97*
AVERAGE ANALYSIS		19.3	20.0	
COEFFICIENT OF VARIATION		2.9	2.1	
3 9 6M				
0418	2.7*	8.1*	6.1	92*
0558	3.4	8.3*	6.2	100
0894	3.4	9.2	6.5	106
4032	3.0	9.7	6.1	105
8869 SEE NOTE 4	2.8	7.5*	5.7*	88*
9532	3.4	9.0	6.3	105
AVERAGE ANALYSIS	3.1	8.6	6.2	
COEFFICIENT OF VARIATION	10.4	9.4	4.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
FEDERAL CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
3 9 27M				
1695	3.2	9.0	27.0	101
3 12 12M				
0269	3.2	12.3	12.1	103
1274	3.4	11.9	11.2*	100
4004 SEE NOTE 9	4.1	13.0	13.5	115
4030	3.4	12.1	12.0	103
7485	3.6	11.8	12.0	103
7707	3.6	10.9*	13.0	101
AVERAGE ANALYSIS	3.4	11.8	12.1	
COEFFICIENT OF VARIATION	4.9	4.6	5.3	
4 12 8M				
0176	4.3	11.6*	8.5	101
0184	4.3	11.6*	8.4	101
0270	4.1	11.2*	8.5	98
0453	3.5*	11.9	8.1	96*
0528	4.0	11.7	8.4	100
1025	4.5	11.1*	8.6	101
1117	4.0	12.2	7.2*	99
1120	4.5	11.9	8.7	105
1402	4.0	12.1	7.5*	99
2142	4.4	11.9	8.0	102
6963	3.9	12.0	8.0	99
7490	4.2	11.1*	8.2	98
7843	3.9	12.4	8.1	101
8952	3.9	12.1	8.0	100
AVERAGE ANALYSIS	4.1	11.8	8.2	
COEFFICIENT OF VARIATION	6.8	3.5	5.1	
4 12 8M WITH 0019 ALDRIN				
1029 SEE NOTE 3	4.2	11.6*	8.7	101
1072 SEE NOTE 3	4.1	12.4	8.2	103
6962 SEE NOTE 3	4.2	11.0*	8.6	98
AVERAGE ANALYSIS	4.2	11.7	8.5	
COEFFICIENT OF VARIATION	1.4	6.0	3.1	
4 16 16M				
0425 SEE NOTE 7	4.1	14.6*	14.4*	93*
7878	4.6	14.5*	15.9	98
AVERAGE ANALYSIS	4.4	14.6	15.2	
COEFFICIENT OF VARIATION	8.1	.5	7.0	
5 10 10M				
0185	5.2	10.3	10.7	104
0187 SEE NOTE 4	4.7*	9.4*	9.5*	94*
0355	5.1	10.0	10.0	101
0431	4.5*	10.2	9.7	97*
0895	5.1	9.5*	10.0	98
AVERAGE ANALYSIS	4.9	9.9	10.0	
COEFFICIENT OF VARIATION	6.2	4.1	4.6	
5 10 15S				
0271	5.0	9.9	15.5	101
0507	5.6	10.0	15.0	104
1030 SEE NOTE 1	5.0	10.0	15.0	100
1075	5.0	10.2	14.3*	99
1167	5.0	10.3	14.3*	100
1194	5.3	9.3*	16.0	101
1401	5.0	10.3	14.3*	100
2320	5.8	10.1	14.9	105
6961	4.9	10.0	14.7	99
7491	5.2	10.0	15.2	102
7592	5.0	9.9	15.5	101
7701	5.1	10.0	14.8	118
7764	5.0	10.2	15.0	101
8888	5.1	10.1	15.2	101
8897	5.1	10.5	16.0	105
9535	5.1	10.0	15.0	101
AVERAGE ANALYSIS	5.1	10.1	15.0	
COEFFICIENT OF VARIATION	4.7	2.6	3.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
FEDERAL CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
0272	5.3	18.9*	20.0	98
1386	5.1	19.2*	21.0	100
4005	5.1	20.0	21.0	102
7708	5.7	18.5*	19.2*	98
7876 SEE NOTE 4	5.1	18.3*	18.0*	93*
8948	5.2	19.3*	20.2	99
8949	5.3	20.3	19.6	101
9531 SEE NOTE 4	5.3	18.3*	14.5*	92*
AVERAGE ANALYSIS	5.3	19.1	19.2	
COEFFICIENT OF VARIATION	3.8	3.9	11.1	
6 6 18S				
0529	5.8	5.9	18.1	99
0842	5.4*	6.8	18.7	101
1172	6.2	6.9	18.0	105
1255	5.4*	6.6	18.7	100
1480	5.9	6.8	18.5	104
1532 SEE NOTE 1	5.8	7.0	17.0*	104
6964	5.6	6.5	18.2	100
7489	6.0	6.3	18.0	101
7703	5.8	6.6	18.0	101
7841	6.0	6.7	18.2	103
AVERAGE ANALYSIS	5.8	6.6	18.1	
COEFFICIENT OF VARIATION	4.5	4.9	2.7	
6 8 6M				
0356	5.8	9.4	7.4	109
0419	6.3	8.4	6.2	105
0530	6.2	8.4	6.5	105
0769	6.4	8.1	6.9	106
1154	5.9	8.6	6.7	104
1413	6.2	8.2	6.9	105
1416	6.2	8.4	6.7	105
1449	6.2	8.1	7.0	105
1592	6.3	8.6	7.5	109
1603	6.4	8.3	7.4	108
4007	6.0	9.1	8.3	111
4008	6.0	8.8	7.5	108
6958	6.4	8.3	6.6	106
7488	6.1	8.7	8.6	111
7711	6.0	8.6	7.1	106
9533	5.6*	8.7	6.6	102
AVERAGE ANALYSIS	6.1	8.5	7.1	
COEFFICIENT OF VARIATION	3.7	4.1	9.1	
6 8 6S				
0508	6.0	8.4	7.5	106
1412	6.0	8.5	8.2	108
4003	6.1	8.0	8.0	106
7486	6.1	8.0	6.8	103
7710	6.0	8.4	6.5	103
9536	6.0	8.0	6.7	102
AVERAGE ANALYSIS	6.0	8.2	7.3	
COEFFICIENT OF VARIATION	.9	2.9	9.9	
6 12 12M				
0420	6.3	12.0	12.4	102
1024	6.6	11.1*	12.1	100
2559	5.7*	11.9	13.0	100
4006	6.4	11.4*	12.4	101
7714 SEE NOTE 6 & 9	4.5*	11.9	8.3*	84*
7842	6.0	12.0	12.6	101
8896	6.1	11.6*	12.1	99
9919	5.7*	11.9	12.4	99
AVERAGE ANALYSIS	6.1	11.7	12.4	
COEFFICIENT OF VARIATION	5.6	3.0	2.5	
6 12 18S				
2235	6.0	11.4*	18.0	98
9 10 15S				
1074	9.3	10.0	15.1	102
1116	9.2	10.0	15.0	101
1119	9.1	10.0	15.4	101
1168	8.8	10.6	15.0	101
1254	7.6*	10.9	15.1	96*

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
FEDERAL CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
9 10 15S CONTINUED				
1385 SEE NOTE 1	9.4	10.1	15.0	104
1533	8.9	10.2	15.2	100
4002	9.3	9.9	16.0	103
7492	8.9	10.2	15.0	100
7702	8.7*	10.1	15.2	99
AVERAGE ANALYSIS	8.9	10.2	15.2	
COEFFICIENT OF VARIATION	5.8	3.1	2.0	
9 10 15S WITH 0050 ALDRIN				
1175 SEE NOTE 3	7.6*	11.1	15.0	97*
10 10 10M				
0273	9.7	9.9	10.9	100
0357	9.9	9.6*	10.2	99
0509	9.8	9.8	10.4	99
1023	10.0	10.1	10.6	101
1073	9.8	10.2	10.1	100
1153	9.7	10.4	10.0	100
1176	9.8	10.0	10.5	100
1384	10.9	10.3	10.0	106
2333	10.0	10.0	10.1	100
6959	9.1*	10.1	11.2	98
7552	10.3	10.0	10.4	102
7705	9.8	9.9	10.1	98
7763	10.0	10.3	10.1	101
7845	9.9	10.2	10.2	101
8895	9.4*	10.0	11.1	99
9534	9.8	10.0	10.2	99
AVERAGE ANALYSIS	9.9	10.1	10.4	
COEFFICIENT OF VARIATION	3.9	2.0	3.7	
10 10 10M WITH 0050 ALDRIN				
0589 SEE NOTE 3	9.7	10.1	10.2	99
12 12 12M				
0177	11.3*	12.0	13.7	99
0188	11.2*	12.3	12.6	98
0421	12.2	12.1	12.6	102
7846	12.6	12.0	12.0	103
9918	12.7	12.0	12.0	103
AVERAGE ANALYSIS	12.0	12.1	12.6	
COEFFICIENT OF VARIATION	5.9	1.1	5.5	
16 8 8M				
2630	15.2*	8.5	9.4	100
7706	14.7*	9.3	8.7	99
AVERAGE ANALYSIS	15.0	8.9	9.1	
COEFFICIENT OF VARIATION	2.4	6.4	5.5	
FEDERAL CHEMICAL CO NASHVILLE TENN				
0 9 27M WITH 5 LBS BORAX				
1699 SEE NOTE 2		10.8	25.4*	104
9655 SEE NOTE 2		9.4	28.2	104
AVERAGE ANALYSIS		10.1	26.8	
COEFFICIENT OF VARIATION		9.8	7.4	
0 20 20M				
0847		21.8	17.7*	102
1524		19.3*	22.4	102
3076 SEE NOTE 4 & 9		16.7*	25.0	81*
AVERAGE ANALYSIS		20.6	20.1	
COEFFICIENT OF VARIATION		8.6	16.6	
2 12 6M				
6923	3.2	11.9	7.3	113
3 9 6M				
2297 SEE NOTE 5 & 9	2.6*	7.2*	5.1*	83*
2511	3.2	8.9	6.1	102

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
FEDERAL CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
3 9 27M				
7553 SEE NOTE 4	3.6	10.2	22.4*	99
3 12 6M				
1218 SEE NOTE 9	4.5	11.6*	8.4	116
1698	3.1	12.0	7.9	106
2137	3.4	11.7	6.6	103
9575	3.1	11.7	7.2	102
AVERAGE ANALYSIS	3.2	11.8	7.2	
COEFFICIENT OF VARIATION	5.4	1.5	9.0	
3 12 12M				
1523 SEE NOTE 9	4.6	14.6	11.8	122
2138 SEE NOTE 4	3.2	11.7	9.1*	94*
7558	3.1	11.1*	12.4	98
AVERAGE ANALYSIS	3.2	11.4	10.8	
COEFFICIENT OF VARIATION	2.2	3.7	21.7	
4 12 8M				
0687	4.2	10.6*	7.9	99
1217	4.4	12.0	9.0	105
1236	3.9	12.6	8.7	104
2139	4.6	12.0	8.9	106
2148	4.2	12.2	8.0	102
7503 SEE NOTE 9	5.7	12.0	9.9	116
7572	4.1	11.9	8.6	102
7709	4.3	12.2	7.8	103
8872	4.4	11.9	8.9	104
9414	3.8	12.4	9.2	103
9416	3.9	12.1	8.1	100
9422	3.9	12.8	7.8	103
9660	4.4	12.0	8.7	104
9668	3.8	11.5*	9.1	99
9726	4.4	10.8*	8.9	99
AVERAGE ANALYSIS	4.2	11.9	8.5	
COEFFICIENT OF VARIATION	6.4	5.1	6.0	
4 12 8M WITH 0019 ALDRIN				
9654 SEE NOTE 3	5.2	12.0	9.4	111
5 10 10M				
7704 SEE NOTE 5	4.5*	8.9*	9.2*	90*
5 10 15S				
0688	5.3	10.0	14.7	101
1221 SEE NOTE 1	5.4	9.9	15.0	102
2004	5.3	10.0	15.0	102
2140	5.2	10.0	15.0	101
7502 SEE NOTE 1	4.9	10.2	14.3*	99
7557	5.2	10.1	15.0	102
7570	5.1	10.1	14.6*	107
8871	5.1	9.8	15.0	100
9412 SEE NOTE 1	5.1	10.2	14.4*	100
9578	5.1	9.6*	14.7	98
9653	5.1	12.0	14.6*	108
9671	5.1	10.2	14.5*	100
9862 SEE NOTE 9	7.1	11.9	15.2	121
AVERAGE ANALYSIS	5.2	10.2	14.7	
COEFFICIENT OF VARIATION	2.5	5.9	1.8	
5 20 20M				
0848	5.5	20.3	19.0*	101
1216	5.3	19.0*	20.2	99
1489	4.8	21.6	19.2*	102
1697	5.4	20.0	20.0	102
2203	4.7*	19.0*	20.2	96*
2206 SEE NOTE 5	5.0	23.9	15.0*	104
2440	4.7*	21.0	20.0	101
2636	5.0	20.1	21.5	102
7562	5.2	19.0*	20.2	98
7574	5.3	20.7	20.0	103
8921	5.4	19.1*	19.0*	98
9409 SEE NOTE 4	5.0	18.0*	21.4	97*
9579	5.1	18.6*	20.0	99
9651	4.8	19.0*	20.8	98
9725	4.7*	20.5	18.9*	99
AVERAGE ANALYSIS	5.1	20.0	19.7	
COEFFICIENT OF VARIATION	5.5	7.4	7.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
FEDERAL CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
6 8 6M				
0849	6.0	8.9	7.7	109
1490	6.0	8.2	7.1	104
1700	6.2	8.4	6.7	105
7576	5.2*	9.5	6.6	103
AVERAGE ANALYSIS	5.9	8.8	7.0	
COEFFICIENT OF VARIATION	7.6	6.6	7.1	
6 8 6S				
0689 SEE NOTE 1	5.8	8.8	7.2	106
6 12 12M				
2141	6.0	11.7	12.1	99
2509	5.6*	12.0	12.0	98
6924	5.9	11.8	11.3*	97*
7575	6.2	12.7	12.1	104
8920	6.0	12.0	11.9	100
9413	6.0	11.9	11.8	99
9417	6.0	11.9	11.8	99
9421	5.9	12.0	11.5*	99
9576	6.0	11.9	12.0	100
9652	6.0	12.3	12.0	101
9659	5.9	11.9	11.5*	98
AVERAGE ANALYSIS	6.0	12.0	11.8	
COEFFICIENT OF VARIATION	2.4	2.3	2.3	
6 18 12M				
3073	5.5*	18.0	12.2	98
3074	5.3*	19.2	10.8*	99
3098	5.4*	17.9	11.2*	96*
8928	6.4	16.7*	13.5	100
9410	6.1	17.2*	13.2	100
9423	6.0	17.7	12.1	99
9861	6.3	16.6*	13.7	100
AVERAGE ANALYSIS	5.9	17.6	12.4	
COEFFICIENT OF VARIATION	7.7	5.1	9.1	
9 10 15S				
1220	9.2	10.0	15.0	101
3075	9.1	10.9	15.0	103
3097	9.1	11.2	14.1*	103
3099	8.8	11.2	14.1*	101
7571 SEE NOTE 1	8.1*	10.5	13.9*	95*
9411	9.2	10.6	14.7	102
9656 SEE NOTE 1	8.9	10.2	14.7	100
9670	9.0	10.6	14.9	102
9863	9.5	10.1	15.0	103
AVERAGE ANALYSIS	9.0	10.6	14.6	
COEFFICIENT OF VARIATION	4.3	4.2	3.0	
10 10 10M				
0690	10.1	10.4	10.1	102
1219	9.4*	10.4	10.5	99
1235	9.4*	10.4	10.9	100
2135	9.9	10.5	10.7	102
2201	9.5*	10.5	10.4	100
2482	9.7	10.1	10.2	99
2510	9.9	10.7	10.0	102
7555	10.2	10.6	10.7	104
7573	9.8	10.5	10.1	101
8870	9.8	10.4	9.9	100
8919	10.3	10.3	10.4	103
9415	9.7	10.9	10.2	102
9418	9.8	10.0	10.1	99
9420	10.1	10.2	10.1	101
9577	9.4*	10.3	10.0	98
9657	9.7	10.4	10.5	101
9658	9.6*	10.6	10.2	100
9669	9.9	10.5	10.1	101
AVERAGE ANALYSIS	9.8	10.4	10.3	
COEFFICIENT OF VARIATION	2.8	2.0	2.7	
10 30 20M				
6903	10.2	30.5	20.5	102

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
FEDERAL CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
12 12 12M				
1488	11.2*	12.3	13.0	99
2136	12.0	12.9	12.0	103
2204	11.1*	12.5	12.1	98
2637	11.6*	12.3	13.0	101
7877	11.5*	12.1	13.2	100
8922	11.4*	13.5	12.1	102
AVERAGE ANALYSIS	11.5	12.6	12.6	
COEFFICIENT OF VARIATION	2.8	4.1	4.4	
16 8 8M				
2205	14.9*	9.0	9.2	100
2290	14.9*	8.5	8.1	97*
3100	13.9*	9.4	9.5	97*
7556 SEE NOTE 4	13.5*	9.6	9.2	96*
9419	15.9	8.2	9.2	102
9700	15.3*	8.5	8.8	100
AVERAGE ANALYSIS	14.7	8.9	9.0	
COEFFICIENT OF VARIATION	6.0	6.3	5.5	
GRO GREEN CHEMICAL COMPANY INC				
0 10 30M				
1694		11.2	28.0*	101
0 20 20M				
1270		21.0	20.2	104
4 16 4S				
1099	4.3	16.1	4.9	104
6985	4.4	15.7	5.2	104
AVERAGE ANALYSIS	4.4	15.9	5.1	
COEFFICIENT OF VARIATION	1.6	1.8	4.2	
5 10 15S				
1044	5.0	10.2	15.0	101
1098	5.1	10.7	15.2	104
1179	5.1	10.4	15.2	103
1271	5.0	10.5	15.2	102
1352	5.1	10.2	15.5	102
1383	4.9	10.2	15.2	101
1398	6.3	10.3	15.6	104
6913	5.1	10.9	15.0	104
6984	5.4	10.2	15.5	104
AVERAGE ANALYSIS	5.2	10.4	15.3	
COEFFICIENT OF VARIATION	8.2	2.5	1.4	
5 20 20M				
6969	5.1	22.9	16.4*	103
6 6 18S				
1353	6.1	6.1	18.0	101
1610	5.9	6.8	18.7	104
6983	6.2	6.5	18.2	104
AVERAGE ANALYSIS	6.1	6.5	18.3	
COEFFICIENT OF VARIATION	2.5	5.4	2.0	
8 10 15S				
1381	7.8	10.7	15.1	102
6968	8.0	10.2	14.5*	100
AVERAGE ANALYSIS	7.9	10.5	14.8	
COEFFICIENT OF VARIATION	1.8	3.4	2.9	
10 10 10M				
1272	9.5*	10.6	11.0	101
1611	8.9*	10.0	11.1	96*
AVERAGE ANALYSIS	9.2	10.3	11.1	
COEFFICIENT OF VARIATION	4.6	4.1	.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
GRO GREEN CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
12 12 12M				
1037	12.3	12.0	12.0	101
1178	11.8	12.6	12.0	101
1354	12.0	11.6*	12.2	99
1382	11.7	12.4	13.0	101
6912	11.2*	14.7	11.5*	103
6982	11.7	12.7	13.0	102
AVERAGE ANALYSIS	11.8	12.7	12.3	
COEFFICIENT OF VARIATION	3.1	8.5	4.9	
14 7 7M				
1273 SEE NOTE 4	12.5*	8.9	8.7	102
GLASGOW FERTILIZER COMPANY				
0 20 20M				
9849		20.3	20.1	101
9954		21.0	20.0	103
AVERAGE ANALYSIS		20.7	20.1	
COEFFICIENT OF VARIATION		2.4	.4	
3 12 12M				
2267	3.0	13.2	12.6	107
4 12 8M				
3009	4.2	10.8*	8.7	98
3017	4.0	11.2*	8.5	98
8862	4.4	11.9	8.4	103
9558	4.5	11.7	8.6	103
9705	4.3	11.8	8.6	103
9852	4.1	12.0	8.0	101
9942	4.3	11.5*	8.0	100
9947	4.3	11.5*	8.4	101
9953	4.2	11.2*	8.7	99
AVERAGE ANALYSIS	4.3	11.5	8.4	
COEFFICIENT OF VARIATION	3.5	3.4	3.2	
4 16 4S				
8967	4.2	15.6*	4.4	100
9707	4.2	15.6*	4.5	101
AVERAGE ANALYSIS	4.2	15.6	4.5	
COEFFICIENT OF VARIATION			1.6	
5 10 15S				
3010	5.0	10.9	14.6*	103
3012	4.8	10.9	15.0	102
3013	4.6*	11.1	14.3*	101
3015	4.6*	10.5	15.7	101
3016	5.2	10.3	15.7	104
8966	5.2	10.2	15.0	102
9559	4.9	10.6	14.5*	101
9711	4.9	10.5	14.6*	99
9846	5.1	10.5	14.6*	102
9945	5.0	9.8	15.5	100
9949	4.7*	9.9	15.2	98
9956	5.0	9.8	15.7	101
AVERAGE ANALYSIS	4.9	10.4	15.0	
COEFFICIENT OF VARIATION	4.2	4.2	3.5	
5 20 20M				
9557	5.2	21.0	17.4*	100
9847	5.4	18.1*	19.9	96*
9946	5.1	19.0*	20.0	98
9948 SEE NOTE 4	5.2	17.4*	20.0	94*
AVERAGE ANALYSIS	5.2	18.9	19.3	
COEFFICIENT OF VARIATION	2.4	8.3	6.6	
6 8 6M				
9706	5.8	8.6	6.5	100
6 8 6S				
9851	5.6*	8.3	6.6	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
GLASGOW FERTILIZER CO CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M				
3008	6.2	11.2*	13.7	101
3018	6.1	11.4*	12.7	100
3019	6.5	11.4*	13.7	104
9555	6.1	11.7	12.4	100
9704	5.9	11.5*	12.6	99
9850	6.0	11.6	12.2	99
9943	5.9	11.6*	13.5	101
9951	6.0	11.3*	13.2	100
9952	5.5*	12.7	10.3*	97*
9957	5.9	11.0*	14.9	101
AVERAGE ANALYSIS	6.0	11.5	12.9	
COEFFICIENT OF VARIATION	4.3	4.0	9.4	
10 10 10M				
3011	10.3	10.6	9.7	103
3014	9.2*	10.6	10.5	99
9556	10.0	10.8	9.9	103
9710	10.1	10.2	10.0	101
9848	9.4*	11.0	9.7	100
9944	9.8	10.5	9.9	101
9950	10.8	10.5	10.0	106
9955	10.3	10.5	9.4*	102
AVERAGE ANALYSIS	10.0	10.6	9.9	
COEFFICIENT OF VARIATION	5.2	2.2	3.2	
GOULARD & OLENA INC				
7 8 5M				
1690	7.0	8.8	5.0	104
A H HOFFMAN INC				
5 10 5M				
0471	4.9	11.3	6.7	110
HUTSON CHEMICAL COMPANY				
0 30 30M				
1358		34.6	23.8*	103
1362		28.0*	31.7	97*
AVERAGE ANALYSIS		31.3	27.8	
COEFFICIENT OF VARIATION		14.9	20.1	
4 12 8M				
0303	4.1	12.7	9.6	108
0819	3.7*	12.6	7.7*	100
1015	4.7	12.3	8.1	106
1295	4.0	12.2	9.3	104
1735	3.6*	11.3*	8.1	94*
AVERAGE ANALYSIS	4.0	12.2	8.6	
COEFFICIENT OF VARIATION	10.8	4.5	9.8	
4 16 4S				
0304	2.6*	16.8	4.6	96*
1012	3.3*	16.4	5.5	100
AVERAGE ANALYSIS	3.0	16.6	5.1	
COEFFICIENT OF VARIATION	16.8	1.7	12.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
HUTSON CHEMICAL COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S				
0820 SEE NOTE 1	4.3*	10.9	15.5	100
1294	4.4*	10.0	15.0	96*
1298	4.0*	10.7	14.6*	96*
1736	4.4*	10.5	15.5	99
AVERAGE ANALYSIS	4.3	10.5	15.2	
COEFFICIENT OF VARIATION	4.4	3.7	2.9	
5 10 15S WITH 1 LB ALDRIN				
0625 SEE NOTE 3	4.3*	9.6*	15.0	94*
1664 SEE NOTE 3	3.2*	9.5*	17.9	93*
AVERAGE ANALYSIS	3.8	9.6	16.5	
COEFFICIENT OF VARIATION	20.7	.7	12.5	
5 20 20M				
0821	4.5*	17.5*	20.0	91*
1014	5.7	19.5*	20.5	102
1296	4.5*	21.4	19.2*	101
1633	4.3*	20.9	20.5	100
1634	5.2	19.9	19.2*	99
1737	4.4*	20.5	17.9*	96*
AVERAGE ANALYSIS	4.8	20.0	19.6	
COEFFICIENT OF VARIATION	11.7	6.9	5.1	
6 6 18M				
7847	5.5*	8.6	16.9*	105
6 12 12M				
0805	5.7	11.7	12.6	98
0822	5.6*	11.7	12.6	98
1299	5.5*	12.1	11.4*	96*
1738	5.0*	12.2	11.7	95*
AVERAGE ANALYSIS	5.5	11.9	12.1	
COEFFICIENT OF VARIATION	5.7	2.2	5.1	
12 12 12M				
1297	11.8	13.2	10.5*	100
12 24 24M				
0638	11.7	24.9	24.5	101
9763	11.1*	21.8*	27.8	97*
AVERAGE ANALYSIS	11.4	23.4	26.2	
COEFFICIENT OF VARIATION	3.7	9.4	8.9	
HYDROPONIC CHEMICAL COMPANY INC				
7 6 19M				
1566	7.3	7.0	20.0	108
INTERNATIONAL MIN & CHEM CORP CINN				
0 20 20M				
2364		19.3*	21.7	101
7608		18.1*	24.6	101
7728		19.9	20.1	100
7826		20.0	20.7	101
AVERAGE ANALYSIS		19.3	21.8	
COEFFICIENT OF VARIATION		4.5	9.2	
0 20 20M WITH 5 LBS BORAX				
1463 SEE NOTE 2		19.6	20.6	100
7856 SEE NOTE 2		19.5*	20.0	98
AVERAGE ANALYSIS		19.6	20.3	
COEFFICIENT OF VARIATION		.4	2.1	
3 12 12M				
1593	3.1	12.3	14.0	106
2362	3.7	13.4	13.0	113
2626	3.4	12.8	14.1	111
7605	3.0	12.5	12.5	103
7790	3.6	12.1	13.2	107
7958	3.7	12.2	15.9	114
AVERAGE ANALYSIS	3.4	12.6	13.8	
COEFFICIENT OF VARIATION	9.0	3.9	8.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
INTERNATIONAL MIN & CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M				
0900	4.0	13.2	9.3	108
1464	3.6*	12.4	7.7*	98
1598	3.6*	12.2	8.3	99
1682	4.0	13.0	9.7	108
7514	4.1	12.5	8.7	105
7653	4.1	12.9	8.1	105
AVERAGE ANALYSIS	3.9	12.7	8.6	
COEFFICIENT OF VARIATION	6.1	3.1	8.8	
4 12 8S				
7791	4.3	13.5	8.4	110
7911	4.5	12.1	9.5	107
AVERAGE ANALYSIS	4.4	12.8	9.0	
COEFFICIENT OF VARIATION	3.2	7.7	8.7	
4 16 4S				
0163 SEE NOTE 1	4.5	17.5	5.6	113
1090 SEE NOTE 1	4.6	17.7	5.8	115
1152	4.7	15.7	4.1	103
7519	4.6	17.8	5.8	115
7700 SEE NOTE 1	4.8	17.0	5.5	112
AVERAGE ANALYSIS	4.6	17.1	5.4	
COEFFICIENT OF VARIATION	2.5	5.0	13.4	
4 16 16M				
1594	3.7*	14.7*	21.5	103
5 10 10M				
1107	5.7	10.1	11.3	108
2101	5.1	10.0	11.5	104
2366	5.4	12.0	9.1*	110
7607	5.9	10.8	10.6	111
7913	5.0	10.0	12.5	106
AVERAGE ANALYSIS	5.4	10.6	11.0	
COEFFICIENT OF VARIATION	7.1	8.1	11.5	
5 10 15 3 MURIATE 12 SULFATE				
0164	5.0	9.8	15.0	99
1091	5.2	9.5*	15.0	99
2102	5.3	9.9	13.7*	99
7518	5.1	9.3*	15.2	98
7609	5.2	9.9	15.0	101
7699	4.9	10.4	14.6*	100
7779	5.4	9.5*	15.0	100
7912	5.0	9.6*	15.0	98
AVERAGE ANALYSIS	5.1	9.7	14.8	
COEFFICIENT OF VARIATION	3.3	3.5	3.2	
5 10 15S				
1092 SEE NOTE 1	5.2	9.7	15.2	100
1257	4.7*	9.9	15.5	99
1259	5.1	9.9	15.4	101
1465	5.0	11.0	15.0	104
1559	5.3	10.7	15.7	106
1595	4.6*	11.4	15.0	103
2074	5.0	10.1	14.6*	100
2098	5.8	11.0	14.5*	108
2363	5.2	10.0	17.4	106
7511	5.1	9.3*	16.2	100
7604	5.1	9.6*	15.2	99
7627	5.6	10.8	15.0	107
7652	5.2	10.0	15.0	101
7698	5.1	10.2	14.4*	100
7789	5.8	10.5	15.0	107
7961	3.8*	11.7	14.5*	105
AVERAGE ANALYSIS	5.1	10.4	15.2	
COEFFICIENT OF VARIATION	9.4	6.6	4.9	
5 20 20M				
1597	5.0	20.5	20.0	101
2075	5.2	19.8	20.2	101
2365	5.0	19.4*	21.1	100
7606	4.6*	18.3*	23.3	98
7799	5.1	19.0*	21.2	99
7959	4.9	18.7*	19.9	96*
AVERAGE ANALYSIS	5.0	19.3	21.0	
COEFFICIENT OF VARIATION	4.2	4.1	6.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
INTERNATIONAL MIN & CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
6 6 18S				
2076	6.0	6.0	20.0	104
7513	6.1	6.0	19.0	103
7515	6.1	6.6	19.0	105
7797	5.8	6.4	19.0	103
9916	5.6*	7.3	18.0	103
AVERAGE ANALYSIS	5.9	6.5	19.0	
COEFFICIENT OF VARIATION	3.7	8.3	3.7	
6 6 18S WITH 0015 ALDRIN				
7860 SEE NOTE 3	5.9	6.5	19.2	104
9917 SEE NOTE 1 & 3	5.2*	7.4	17.4*	100
AVERAGE ANALYSIS	5.6	7.0	18.3	
COEFFICIENT OF VARIATION	8.9	9.2	7.0	
6 8 6S				
2367	6.6	8.9	6.7	111
7697 SEE NOTE 9	7.1	9.3	8.7	122
7727	5.9	8.6	8.7	109
7825 SEE NOTE 1	5.3*	9.9	7.6	108
AVERAGE ANALYSIS	5.9	9.1	7.7	
COEFFICIENT OF VARIATION	11.0	7.5	13.1	
6 12 12M				
1462	5.5*	12.4	12.7	100
2099	5.7*	11.6*	12.6	98
7729	5.7*	12.0	11.6*	98
AVERAGE ANALYSIS	5.6	12.0	12.3	
COEFFICIENT OF VARIATION	2.1	3.3	4.9	
6 12 18S				
7516	6.5	12.4	17.7	103
7780	6.4	12.6	19.0	106
AVERAGE ANALYSIS	6.5	12.5	18.4	
COEFFICIENT OF VARIATION	1.1	1.1	5.0	
8 32 16M				
7858 SEE NOTE 4	6.7*	29.8*	19.0	95*
10 10 10M				
0165	9.7	9.9	10.7	99
1258	8.9*	10.2	13.0	100
1558	10.2	10.4	10.4	103
1596	10.1	10.4	10.5	103
1683	10.0	10.1	10.1	101
2077	10.0	9.7	10.4	99
2100	10.2	10.1	10.4	102
2368	10.1	10.0	11.0	102
4031	9.6*	10.2	11.6	101
7512	9.5*	10.0	10.7	99
7778	9.8	10.9	11.7	105
7796	10.0	10.1	11.2	102
7827	9.5*	9.9	10.1	97*
7828	4.6*	10.1	10.2	74*
7857	9.0*	10.8	10.0	98
7962	9.9	10.3	12.3	104
7963	9.8	10.1	12.1	103
AVERAGE ANALYSIS	9.5	10.2	11.0	
COEFFICIENT OF VARIATION	13.8	3.0	8.1	
12 12 12M				
1461	11.7	12.2	13.5	101
14 14 14M				
7730	13.3*	16.0	15.0	103
7859	13.3*	15.1	15.7	102
AVERAGE ANALYSIS	13.3	15.6	15.4	
COEFFICIENT OF VARIATION		4.1	3.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
INT MIN & CHEM CORP CLARKSVILLE	(Percent)	(Percent)	(Percent)	
0 20 20M				
1232		20.0	20.2	100
2654		19.9	20.0	100
9748 SEE NOTE 5		17.5*	19.0*	90*
AVERAGE ANALYSIS		19.1	19.7	
COEFFICIENT OF VARIATION		7.4	3.3	
4 12 8M				
0823	4.3	11.3*	8.9	101
1229	4.3	12.0	8.1	102
1501	4.3	12.0	8.3	103
1616	4.5	11.3*	8.7	102
1723	4.6	11.9	8.1	104
2435	4.6	11.3*	8.7	103
9663	4.4	12.0	8.3	103
9751	5.0	11.2*	9.0	105
AVERAGE ANALYSIS	4.5	11.6	8.5	
COEFFICIENT OF VARIATION	5.3	3.2	4.2	
4 12 8 1 MURIATE 7 SULFATE				
8867	4.1	12.0	8.1	101
4 16 4S				
1233	4.2	15.7	4.9	102
2014	4.5	15.0*	6.9	105
AVERAGE ANALYSIS	4.4	15.4	5.9	
COEFFICIENT OF VARIATION	4.9	3.2	24.0	
5 10 10M				
1231	5.0	10.1	10.3	101
2210	5.4	10.2	10.3	104
AVERAGE ANALYSIS	5.2	10.2	10.3	
COEFFICIENT OF VARIATION	5.4	.7		
5 10 15 3 MURIATE 12 SULFATE				
0630	5.1	10.1	14.7	100
1230	4.8	10.3	14.3*	99
1502	4.9	10.0	14.9	99
1615	5.2	10.3	13.6*	100
1724	5.1	10.1	15.0	101
2011	5.0	9.9	14.8	99
9745	5.0	10.0	14.8	100
AVERAGE ANALYSIS	5.0	10.1	14.6	
COEFFICIENT OF VARIATION	2.7	1.5	3.3	
5 10 15S				
0631	5.2	10.7	15.0	104
1619	5.0	10.0	15.0	100
1624	4.9	10.1	15.6	101
9661	5.2	10.4	15.2	103
9749 SEE NOTE 1	5.2	10.2	15.2	102
AVERAGE ANALYSIS	5.1	10.3	15.2	
COEFFICIENT OF VARIATION	2.8	2.7	1.6	
5 20 20M				
2299	5.0	19.1*	20.0	98
2655	5.0	18.6*	19.4*	95*
9746	5.0	19.3*	20.5	99
AVERAGE ANALYSIS	5.0	19.0	20.0	
COEFFICIENT OF VARIATION		1.9	2.8	
6 8 6M				
0824	5.9	8.8	7.6	107
1617	6.0	9.9	9.5	118
2436	5.6*	10.5	6.9	112
AVERAGE ANALYSIS	5.8	9.7	8.0	
COEFFICIENT OF VARIATION	3.6	8.9	16.8	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
INTERNATIONAL MIN & CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M				
0806	6.2	11.4*	12.5	100
1306	6.0	12.1	12.0	100
2209	6.4	11.2*	12.0	99
2438	6.2	11.5*	11.8	99
2632	5.7*	11.9	12.4	99
8868	6.2	12.0	12.0	101
8926	6.1	12.0	12.4	101
9662	6.3	12.0	12.1	102
9750	5.6*	11.9	13.7	101
AVERAGE ANALYSIS	6.1	11.8	12.3	
COEFFICIENT OF VARIATION	4.4	2.7	4.6	
6 18 12M				
2439	6.2	15.2*	11.5*	92*
2634	6.6	16.3*	11.9	97*
AVERAGE ANALYSIS	6.4	15.8	11.7	
COEFFICIENT OF VARIATION	4.4	4.9	2.4	
10 10 10M				
0639	10.0	10.2	10.0	101
1305	10.0	10.2	10.0	101
1500 SEE NOTE 4	8.5*	10.5	10.0	94*
1614	9.9	10.0	10.0	100
1618	9.3*	10.0	10.6	98
1722	10.3	10.0	10.1	102
2012	9.7	10.5	10.0	100
2013	10.0	10.0	10.1	100
2208	9.9	10.2	9.8	100
2211	9.9	10.0	10.4	100
2300	10.0	10.0	10.0	100
2437	9.4*	10.3	10.0	100
2633	10.1	10.1	10.4	102
AVERAGE ANALYSIS	9.8	10.2	10.1	
COEFFICIENT OF VARIATION	4.8	1.8	2.2	
10 10 15S				
9744 SEE NOTE 1 & 9	5.4*	10.7	14.9	81*
20 20 5M				
9664 SEE NOTE 6 & 9	17.4*	18.3*	4.8	89*
INT MIN & CHEM CORP GREENEVILLE				
0 20 20M				
0328		20.2	20.5	102
3 9 6M				
0329	3.1	9.5	6.6	106
0909	3.1	9.1	6.5	103
AVERAGE ANALYSIS	3.1	9.3	6.6	
COEFFICIENT OF VARIATION		3.0	1.1	
5 10 5M				
0330	5.0	9.7	5.5	100
0342	5.0	9.8	5.4	100
0718	4.9	11.9	6.1	112
0910	4.9	10.2	5.5	102
AVERAGE ANALYSIS	5.0	10.4	5.6	
COEFFICIENT OF VARIATION	1.2	9.8	5.7	
5 10 10M				
0331	4.9	10.4	10.0	101
0343	4.8	10.3	10.0	100
0719	4.8	10.7	9.8	101
0911	4.8	10.2	10.0	100
AVERAGE ANALYSIS	4.8	10.4	10.0	
COEFFICIENT OF VARIATION	1.0	2.1	1.0	
5 10 10 4 MURIATE & SULFATE				
0332	4.8	10.1	10.0	99

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
INTERNATIONAL MIN & CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
0333	9.7	10.0	10.4	99
0912	8.8*	10.9	10.4	98
AVERAGE ANALYSIS	9.3	10.5	10.4	
COEFFICIENT OF VARIATION	6.9	6.1		
INT MIN & CHEM CORP SOMERSET				
0 10 20M WITH 5 LBS BORAX				
2035 SEE NOTE 2		10.8	20.0	104
0 20 20M				
2029		18.4*	20.0	94*
9549		20.0	19.9	100
AVERAGE ANALYSIS		19.2	20.0	
COEFFICIENT OF VARIATION		5.9	.4	
0 20 20M WITH 5 LBS BORAX				
3091 SEE NOTE 2		19.2*	19.3*	96*
2 12 6M				
0319	2.4	12.1	7.7	109
3 9 6M				
0320 SEE NOTE 9	3.7	10.5	7.7	121
9468	3.5	10.1	7.0	114
9824	3.3	9.0	7.2	106
AVERAGE ANALYSIS	3.4	9.6	7.1	
COEFFICIENT OF VARIATION	4.2	8.1	2.0	
3 12 12M				
1149	3.1	12.3	12.4	103
2026	3.0	12.1	12.1	101
2176	3.0	12.1	12.2	101
2258	3.1	12.3	12.1	102
9465	3.1	12.0	12.2	101
9493	3.0	12.4	12.0	102
9541	3.0	12.0	12.0	100
9772	3.7	12.1	12.0	105
9800	3.0	12.0	12.1	100
9835	3.1	12.0	12.1	101
9897	3.1	12.3	12.1	102
AVERAGE ANALYSIS	3.1	12.1	12.1	
COEFFICIENT OF VARIATION	6.5	1.2	1.0	
4 12 8M				
0321	4.2	11.4*	8.0	99
1148	4.1	12.8	8.3	105
2032	4.1	11.5*	8.9	100
2161	4.2	11.3*	8.4	99
2315	4.0	12.2	8.4	102
8986	4.3	11.3*	8.7	100
9547	4.4	11.4*	8.9	102
9798	4.2	11.3*	8.1	98
9840	4.0	11.5*	8.9	100
9898	4.1	11.3*	8.4	98
AVERAGE ANALYSIS	4.2	11.6	8.5	
COEFFICIENT OF VARIATION	3.0	4.3	3.9	
4 16 4S				
2031 SEE NOTE 9	4.8	17.9	5.5	116
8947 SEE NOTE 9	4.7	17.9	5.5	115
4 19 19M WITH 5 LBS BORAX				
9843 SEE NOTE 2	4.8	17.8*	19.7	98

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
INTERNATIONAL MIN & CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 10M	4.6*	10.0	10.5	98
0322	4.8	10.6	11.6	105
2036	4.5*	10.0	10.7	98
9466	4.6*	9.9	10.1	97*
9822	4.6	10.1	10.7	
AVERAGE ANALYSIS	2.7	3.2	5.9	
COEFFICIENT OF VARIATION				
5 10 15 3 MURIATE 12 SULFATE	5.2	9.9	15.0	101
9545	4.9	9.7	15.0	98
9770	5.0	10.0	15.0	100
9839	5.0	9.9	15.0	100
9900	5.1	9.5*	14.9	98
9910	4.8	9.8	15.5	99
9993	5.0	9.8	15.1	
AVERAGE ANALYSIS	2.8	1.8	1.4	
COEFFICIENT OF VARIATION				
5 10 15S	5.3	10.0	14.5*	101
1106	5.0	10.3	14.1*	99
1150	5.1	10.0	15.0	101
2034	4.8	10.4	15.0	100
3090	5.0	10.6	15.0	102
9546 SEE NOTE 1	4.9	10.0	15.0	99
9838	5.0	9.9	15.0	100
9896	5.0	10.2	14.8	
AVERAGE ANALYSIS	3.1	2.6	2.4	
COEFFICIENT OF VARIATION				
5 10 15S WITH 0020 ALDRIN	4.5*	11.0	13.5*	98
2162 SEE NOTE 3	4.9	10.4	15.0	101
2256 SEE NOTE 3	5.1	9.8	15.2	100
2257 SEE NOTE 3	5.0	10.5	14.7	101
9538 SEE NOTE 1 & 3	4.9	10.4	14.6	
AVERAGE ANALYSIS	5.4	4.7	5.2	
COEFFICIENT OF VARIATION				
5 20 20M	5.0	19.0*	20.0	97*
2028	5.1	19.4*	20.5	99
8946	4.9	18.8*	19.4*	96*
9494 SEE NOTE 4	5.3	18.6*	19.4*	97*
9542 SEE NOTE 4	4.4*	19.4*	20.6	97*
9794	5.1	19.5*	20.0	99
9799	4.6*	20.0	19.1*	97*
9837 SEE NOTE 4	5.0	18.6*	21.0	98
9909	4.9	19.2*	20.0	97*
9990	4.9	20.1	20.0	100
9995	5.0	19.8	20.2	100
9996	4.9	19.3	20.0	
AVERAGE ANALYSIS	5.0	2.7	2.8	
COEFFICIENT OF VARIATION				
6 8 6S	6.0	8.5	6.4	104
2325	6.0	8.3	6.2	102
9834	6.0	8.4	6.6	104
9899	6.0	8.4	6.4	
AVERAGE ANALYSIS		1.2	3.1	
COEFFICIENT OF VARIATION				
6 8 6S WITH 0020 ALDRIN	5.7*	8.6	6.7	103
7967 SEE NOTE 3				
6 12 12M	5.6*	11.6*	12.0	96*
2027	5.4*	12.0	11.8	96*
9543	5.7*	12.0	12.2	99
9544	5.6*	11.6*	12.0	96*
9797	5.9	11.6*	12.5	99
9823	5.5*	11.3*	12.4	95*
9841	5.7*	11.8	12.4	98
9842	5.5*	11.3*	12.0	95*
9991	5.3*	11.6*	12.1	95*
9992	5.6	11.6	12.2	
AVERAGE ANALYSIS	3.2	2.2	1.9	
COEFFICIENT OF VARIATION				
6 12 12M WITH 0050 ALDRIN	5.5*	12.0	12.0	97*
9801 SEE NOTE 3				

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
INTERNATIONAL MIN & CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
6 18 12M				
9548	6.2	17.0*	12.5	99
9836	6.0	16.0*	12.4	95*
9994	5.8	17.0*	12.6	97*
AVERAGE ANALYSIS	6.0	16.7	12.5	
COEFFICIENT OF VARIATION	3.3	3.5	.8	
10 10 10M				
1151	10.0	9.9	11.4	102
2030	9.6*	10.6	10.1	100
2033	9.5*	10.2	10.1	98
2326	9.5*	10.5	10.2	100
2464	9.8	10.3	11.1	102
2565	9.7	10.1	10.5	100
8987	9.3*	10.2	10.7	98
9467 SEE NOTE 4	7.4*	11.9	11.0	95*
9539	10.0	10.1	10.2	101
9540	9.2*	11.0	10.1	100
9771	9.6*	10.2	10.0	99
9793	9.5*	10.5	10.2	100
9796	9.4*	10.6	10.5	100
AVERAGE ANALYSIS	9.4	10.5	10.5	
COEFFICIENT OF VARIATION	6.9	4.9	4.3	
12 12 12M				
1147	11.2*	11.6*	14.4	99
INT MIN & CHEM CORP SKOKIE ILL				
12 48 6M				
7861	11.7	47.6	6.5	99
INT MIN & CHEM CORP FLORENCE ALA				
8 8 8M				
2153	7.9	8.6	9.1	104
KENTUCKY FERTILIZER WORKS INC				
0 20 20M				
0207 SEE NOTE 4 & 9		16.5*	19.9	88*
0277		19.4*	20.2	98
0488		19.7	20.0	99
0744		19.6	20.0	99
0766		19.4*	21.0	100
0829		19.5*	20.0	98
AVERAGE ANALYSIS		19.5	20.2	
COEFFICIENT OF VARIATION		.7	2.1	
3 9 6M				
0208	3.1	9.6	6.5	106
0349	3.2	9.8	6.2	107
0489	3.3	9.0	6.9	105
0699 SEE NOTE 9	3.8	10.2	7.3	118
0745	3.9	9.0	7.4	112
0830 SEE NOTE 9	4.1	9.9	6.7	118
0839	3.5	9.0	6.7	107
0891	3.3	9.0	6.0	103
AVERAGE ANALYSIS	3.4	9.2	6.6	
COEFFICIENT OF VARIATION	8.4	4.0	7.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
KENTUCKY FERTILIZER WORKS CONTINUED	(Percent)	(Percent)	(Percent)	
3 12 12M				
0209	3.1	11.4*	13.0	100
0490	3.1	11.9	12.0	100
0499	3.0	11.7	12.4	100
0746	3.1	12.2	11.3*	100
0831	3.1	11.7	12.0	99
0838	3.1	11.9	11.5*	99
AVERAGE ANALYSIS	3.1	11.8	12.0	
COEFFICIENT OF VARIATION	1.3	2.3	5.1	
4 12 8M				
0210	4.2	11.1*	9.5	101
0397	4.3	11.0*	9.2	100
0485	4.2	11.2*	8.9	100
0491	4.4	11.7	8.5	103
0520	4.9	11.2*	8.6	104
0533	4.2	11.2*	8.5	99
0700	4.2	10.6*	8.7	96*
0747	4.3	11.1*	8.7	100
0790	4.5	10.8*	8.7	100
0832	4.3	11.2*	8.3	99
0845	4.8	10.9*	8.5	102
AVERAGE ANALYSIS	4.4	11.1	8.7	
COEFFICIENT OF VARIATION	5.6	2.5	4.0	
4 16 4S				
0211	3.9	15.0*	4.2	96*
0278 SEE NOTE 4	4.1	14.4*	4.4	95*
AVERAGE ANALYSIS	4.0	14.7	4.3	
COEFFICIENT OF VARIATION	3.5	2.9	3.3	
4 16 4S WITH 0031 ALDRIN				
0212 SEE NOTE 3 & 4	4.1	13.6*	7.6	98
0276 SEE NOTE 3	4.0	14.4*	4.4	94*
AVERAGE ANALYSIS	4.1	14.0	6.0	
COEFFICIENT OF VARIATION	1.7	4.0	37.7	
5 10 10M				
0213	5.2	9.5*	11.5	102
0395	5.1	9.6*	11.0	101
0486	5.2	10.2	10.4	103
0504	5.4	10.0	10.2	103
0534	5.0	10.1	10.6	102
0748	5.4	10.0	9.3*	101
0833	5.1	10.2	10.2	102
0922	5.1	10.3	10.0	102
AVERAGE ANALYSIS	5.2	10.0	10.4	
COEFFICIENT OF VARIATION	2.8	2.9	6.4	
5 10 15S				
0214	5.2	9.9	15.5	102
0279	5.0	10.0	15.2	100
0363	5.0	10.1	15.0	100
0392	5.0	10.2	15.0	101
0487	5.1	10.0	15.0	101
0500	5.0	9.7	15.5	100
0521	5.0	10.2	14.6*	100
0535	5.0	10.2	15.0	101
074[illegible]	4.7*	10.0	15.0	98
079[illegible]	5.0	9.9	16.0	102
2064	5.0	9.9	15.5	101
2357	4.9	10.1	14.4*	99
AVERAGE ANALYSIS	5.0	10.0	15.1	
COEFFICIENT OF VARIATION	2.3	1.5	2.9	
5 20 20M				
0215	4.9	21.3	17.9*	100
0280 SEE NOTE 4	4.9	19.0*	18.0*	94*
0364	5.0	20.1	19.5*	100
0492	5.0	19.4*	19.2*	97*
0749	4.9	20.2	19.9	100
0834	5.0	18.8*	19.4*	96*
0892	5.0	19.7	20.2	99
0923	4.9	20.1	20.0	100
AVERAGE ANALYSIS	5.0	19.8	19.3	
COEFFICIENT OF VARIATION	1.1	4.0	4.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
KENTUCKY FERTILIZER WORKS CONTINUED	(Percent)	(Percent)	(Percent)	
6 6 18S	5.9	7.1	17.4	103
0216	6.0	6.7	18.0	103
0281	6.0	6.8	17.7	103
0393	6.2	6.2	17.8	102
0493	6.1	6.8	18.0	104
0522	5.6*	6.4	19.2	102
0743	5.7*	7.0	17.5*	101
0750	6.0	6.2	18.2	101
0791	5.8	6.7	18.0	102
0835	6.1	6.5	17.7	102
2065	6.2	6.2	18.4	103
2578	6.0	6.6	18.0	
AVERAGE ANALYSIS	3.3	4.9	2.8	
COEFFICIENT OF VARIATION				
6 6 18S WITH 0018 ALDRIN				
0741 SEE NOTE 3	5.6*	6.5	18.5	101
6 8 6M	5.8	9.0	7.2	107
0217	6.1	8.1	6.1	102
0494	6.0	8.4	6.2	103
0768	5.9	8.8	7.2	106
0836	6.0	8.0	6.2	101
2353	6.0	8.5	6.6	
AVERAGE ANALYSIS	1.9	5.1	8.6	
COEFFICIENT OF VARIATION				
6 8 6S	6.1	9.2	6.7	111
0218	6.2	8.0	6.3	102
0282	6.0	8.4	6.5	103
0365	6.0	8.1	6.5	102
0394	5.9	8.0	6.0	99
0495	6.0	8.7	6.5	105
0501	6.6	8.7	6.0	108
0505	5.9	8.5	6.7	104
0523	5.8	8.0	6.2	99
0536	6.0	8.0	6.1	100
0701	6.1	8.4	6.4	
AVERAGE ANALYSIS	3.7	5.0	4.2	
COEFFICIENT OF VARIATION				
8 10 16S	7.3*	10.6	16.1	99
0219	7.5*	9.3*	14.0*	92*
0496 SEE NOTE 1 & 4	7.4	10.0	15.1	
AVERAGE ANALYSIS	1.9	9.2	9.9	
COEFFICIENT OF VARIATION				
10 10 10M	10.1	10.5	10.4	103
0220	10.0	10.2	9.9	101
0396	10.0	10.0	10.0	100
0497	10.0	10.0	10.0	100
0751	9.8	9.9	10.6	100
0767	10.3	9.7	10.7	102
0792	9.3*	10.0	10.9	98
0837	8.2*	10.0	11.2	93*
0846 SEE NOTE 4	10.0	9.9	10.0	100
2063	10.3	9.9	10.1	101
2354	9.8	10.0	10.4	
AVERAGE ANALYSIS	6.4	2.1	4.4	
COEFFICIENT OF VARIATION				
12 12 12M	11.5*	12.0	13.1	99
0498				
LAND O NAN WAREHOUSE STURGIS				
0 20 20M		21.0	21.6	106
2647				
0 25 25M		24.5	26.5	101
2415				

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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)	
LAND O NAN WAREHOUSE CONTINUED				
0 30 30M				
2418 SEE NOTE 4		24.7*	31.7	90*
5 20 20M				
2417	5.2	21.1	19.6	103
2419	5.0	20.8	24.6	108
2638 SEE NOTE 7 & 9	4.3*	16.7*	20.0	88*
AVERAGE ANALYSIS	5.1	21.0	22.1	
COEFFICIENT OF VARIATION	2.8	1.0	16.0	
10 20 20M				
2416 SEE NOTE 9	11.4	25.5	17.4*	114
2441 SEE NOTE 9	9.7	15.0*	20.0	88*
LOUISVILLE FERTILIZER COMPANY				
3 12 12M				
0825	3.2	11.9	12.4	102
6 12 12M WITH 0025 ALDRIN				
0826 SEE NOTE 3	5.9	12.1	12.1	100
OLIN MATHIESON CHEM CO LITTLE ROCK				
6 24 24M				
1643	6.2	24.1	24.7	102
10 20 20M				
1642	9.8	20.2	20.0	100
1645	10.0	21.9	18.8*	103
AVERAGE ANALYSIS	9.9	21.1	19.4	
COEFFICIENT OF VARIATION	1.4	5.7	4.4	
OLIN MATHIESON CHEM CO HOUSTON				
13 13 13M				
0637	12.6*	14.5	12.7	102
MILLER CHEMICAL & FERTILIZER CORP				
6 25 15M				
7801	6.6	29.6	16.2	115
MONSANTO CHEMICAL COMPANY				
20 20 20M				
2635	20.0	19.9	21.2	101
NORTH AMERICAN FERTILIZER COMPANY				
0 20 20M				
2327 SEE NOTE 4		18.7*	17.5*	92*
6972		19.8	19.9	99
AVERAGE ANALYSIS		19.3	18.7	
COEFFICIENT OF VARIATION		4.0	9.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
NORTH AMERICAN FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
0 20 20M WITH 5 LBS BORAX				
1125 SEE NOTE 2 & 5		18.1*	19.2*	92*
2104 SEE NOTE 2 & 5		18.2*	20.0	94*
2395 SEE NOTE 2		20.5	20.1	102
2570 SEE NOTE 2		19.6	20.0	99
4017 SEE NOTE 2		20.1	21.2	102
AVERAGE ANALYSIS		19.3	20.1	
COEFFICIENT OF VARIATION		5.7	3.6	
3 9 6M				
2174	3.2	9.1	6.9	105
2571 SEE NOTE 9	4.6	11.9	11.7	149
7987	3.0	8.3*	7.5	100
9408 SEE NOTE 9	4.8	13.3	12.0	161
9832	2.7*	8.9	6.5	98
AVERAGE ANALYSIS	3.0	8.8	7.0	
COEFFICIENT OF VARIATION	8.5	4.7	7.2	
3 12 12M				
1112	3.0	11.8	12.6	100
1193	3.1	11.4*	12.1	98
1415	3.1	11.6*	12.2	99
1600	3.1	11.3*	13.7	101
2105	3.2	11.7	12.0	100
2331	3.2	11.0*	12.4	98
2569	3.1	12.0	12.0	101
9618	3.0	11.4*	12.0	97*
AVERAGE ANALYSIS	3.1	11.5	12.4	
COEFFICIENT OF VARIATION	2.4	2.7	4.7	
3 12 12M WITH 5 LBS BORAX				
1137 SEE NOTE 2	3.0	11.3*	12.0	97*
4 12 8M				
0166	4.1	11.1*	8.3	97*
0481	3.9	11.5*	8.0	97*
0679	4.1	11.0*	8.4	97*
1186	4.1	11.6*	8.7	100
1439	4.0	11.2*	8.4	97*
2107	4.2	11.2*	8.5	99
2173	4.1	10.9*	9.2	98
2520	4.3	11.6*	8.4	101
2572	4.1	11.1*	9.2	99
6997 SEE NOTE 5	4.0	10.7*	8.5	95*
8852 SEE NOTE 4	4.0	10.6*	8.9	96*
9617	4.2	11.3*	8.1	98
9831	4.1	12.1	7.3*	100
AVERAGE ANALYSIS	4.1	11.2	8.5	
COEFFICIENT OF VARIATION	2.5	3.6	6.0	
4 16 4S				
0231 SEE NOTE 1	4.2	15.3*	5.6	102
0897 SEE NOTE 1 & 9	5.0	16.2	8.4	116
8945	4.2	16.2	4.7	104
9615 SEE NOTE 1	4.2	14.8*	7.9	104
AVERAGE ANALYSIS	4.2	15.4	6.1	
COEFFICIENT OF VARIATION		4.6	27.2	
4 16 16M				
9912	4.2	15.8	16.6	101
4 16 16M WITH 5 LBS BORAX				
6974 SEE NOTE 2	3.8	15.5*	15.6*	97*
9914 SEE NOTE 2	4.1	15.5*	15.7	98
AVERAGE ANALYSIS	4.0	15.5	15.7	
COEFFICIENT OF VARIATION	5.4		.5	
5 10 10M				
0680	4.9	9.9	10.5	100
0898	5.0	10.1	11.0	103
1047	5.0	9.3*	10.4	98
1191	5.0	9.4*	10.6	99
2328	4.8	9.8	10.6	99
3089	5.0	9.7	10.6	100
7823	5.1	9.5*	10.2	99
9616	5.0	10.0	10.2	100
AVERAGE ANALYSIS	5.0	9.7	10.5	
COEFFICIENT OF VARIATION	1.8	3.0	2.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
NORTH AMERICAN FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 10M CONTINUED				
5 10 15S				
0167	5.0	10.0	15.7	101
0482	5.3	9.2*	15.7	100
0681	4.9	9.9	15.0	99
1046 SEE NOTE 1	5.0	10.1	15.7	102
1114	5.0	10.0	15.5	101
1126	5.0	9.9	16.6	103
1169	5.0	10.1	15.4	101
2106	5.1	10.0	15.5	102
2172	5.2	9.7	15.5	101
2519	5.1	9.8	15.3	100
6973	5.0	10.0	15.0	100
6999	5.2	9.5*	15.7	101
7824	5.0	10.2	16.0	103
7850	5.0	10.0	16.0	102
7974	4.9	9.9	15.4	100
9913 SEE NOTE 1	5.1	10.6	15.3	104
AVERAGE ANALYSIS	5.1	9.9	15.6	
COEFFICIENT OF VARIATION	2.2	3.1	2.5	
5 20 20M				
0682	5.2	20.0	20.5	101
1136	5.1	19.6	18.8*	98
1599	4.9	20.1	20.4	100
2332	4.9	19.1*	20.1	99
6975 SEE NOTE 5	4.2*	20.0	16.9*	93*
9911	4.9	20.0	20.0	100
AVERAGE ANALYSIS	4.9	19.8	19.5	
COEFFICIENT OF VARIATION	7.2	1.9	7.1	
6 6 18S				
0844	6.0	6.8	18.2	104
1135	6.0	6.7	18.2	103
1174	6.0	7.0	18.1	104
1192	6.0	6.5	18.7	104
1530	5.8	6.3	18.7	101
7988 SEE NOTE 1	5.9	6.3	18.2	101
AVERAGE ANALYSIS	6.0	6.6	18.4	
COEFFICIENT OF VARIATION	1.4	4.3	1.5	
6 8 6M				
0683	5.8	8.2	6.2	100
1156	6.0	8.6	8.0	108
2170	5.8	8.0	6.7	100
6955	6.1	8.0	10.0	111
8943	5.7*	8.4	6.7	102
AVERAGE ANALYSIS	5.9	8.2	7.5	
COEFFICIENT OF VARIATION	2.8	3.2	20.5	
6 8 6S				
0168	6.1	8.5	7.1	106
1115 SEE NOTE 1	5.8	8.5	6.7	103
2171	6.0	8.3	6.3	102
8942	5.8	8.3	7.0	103
AVERAGE ANALYSIS	5.9	8.4	6.8	
COEFFICIENT OF VARIATION	2.5	1.4	5.3	
6 12 12M				
2329	6.0	11.2*	12.1	97*
8941	5.7*	12.2	12.0	99
AVERAGE ANALYSIS	5.9	11.7	12.1	
COEFFICIENT OF VARIATION	3.6	6.0	.6	
10 10 10M				
0169	9.9	10.5	10.7	101
0483	9.8	9.9	10.4	99
0684	10.0	10.3	10.5	102
1113	10.1	10.0	10.4	101
1127	10.0	10.0	10.2	100
1138	10.0	10.5	10.2	102
1170	10.0	10.2	10.0	101

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
NORTH AMERICAN FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M CONTINUED				
2568	9.6*	10.5	10.4	100
6956	9.9	10.6	10.9	103
6998	10.4	10.0	10.7	103
8944	10.3	10.2	10.1	102
AVERAGE ANALYSIS	10.0	10.2	10.4	
COEFFICIENT OF VARIATION	2.2	2.4	2.7	
10 52 17M				
3094	10.0	52.5	17.1	101
12 12 12M				
0899	11.3*	13.9	12.0	102
OHIO VALLEY FERTILIZER INC				
0 10 20M				
7814		10.0	20.8	102
0 10 30M				
7722		9.2*	31.7	100
7986		10.1	30.0	100
AVERAGE ANALYSIS		9.7	30.9	
COEFFICIENT OF VARIATION		6.6	3.9	
3 9 6M				
0443	3.0	9.2	6.2	102
7770	3.0	9.6	6.3	105
7901	2.9	7.8*	6.6	94*
AVERAGE ANALYSIS	3.0	8.9	6.4	
COEFFICIENT OF VARIATION	1.9	10.7	3.3	
3 12 12M				
7947	3.1	12.0	12.0	101
4 12 8M				
7902	3.9	11.0*	9.4	98
4 16 4S WITH 0031 ALDRIN				
7538 SEE NOTE 3	3.9	15.2*	5.2	99
7581 SEE NOTE 3	4.1	15.0*	4.6	98
AVERAGE ANALYSIS	4.0	15.1	4.9	
COEFFICIENT OF VARIATION	3.5	.9	8.7	
5 10 10M				
0387	5.0	9.8	10.9	101
7724	5.0	10.3	10.0	101
7771	4.6*	9.9	9.8	96*
7775	5.0	10.0	10.2	100
7899	4.8	9.6*	10.0	97*
7949	4.8	9.9	10.0	98
AVERAGE ANALYSIS	4.9	9.9	10.2	
COEFFICIENT OF VARIATION	3.4	2.3	3.8	
5 10 15S				
0728	5.0	9.6*	15.0	98
7537	5.0	10.2	15.4	102
7582	4.6*	10.0	15.1	98
7651	4.9	10.2	15.0	100
7725	4.7*	10.0	15.1	98
7903	4.8	9.8	14.7	97*
7950	5.0	9.9	15.0	100
AVERAGE ANALYSIS	4.9	10.0	15.0	
COEFFICIENT OF VARIATION	3.3	2.2	1.4	
5 10 20S				
7822	4.6*	10.2	20.0	99
7952	4.6*	9.9	20.0	97*
AVERAGE ANALYSIS	4.6	10.1	20.0	
COEFFICIENT OF VARIATION		2.1		

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
OHIO VALLEY FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
7723	4.3*	19.7	20.5	97*
6 6 18S				
7953	5.6*	6.1	18.2	98
8 10 15S				
7951	7.6*	9.5*	15.5	97*
10 10 10M				
7721	10.0	10.1	10.1	101
7948	9.5*	10.3	10.4	99
AVERAGE ANALYSIS	9.8	10.2	10.3	
COEFFICIENT OF VARIATION	3.6	1.4	2.1	
12 12 12M				
0729	11.1*	12.3	12.4	98
7776	11.3*	12.6	12.1	99
7900 SEE NOTE 7	10.6*	12.1	11.4*	94*
AVERAGE ANALYSIS	11.0	12.3	12.0	
COEFFICIENT OF VARIATION	3.3	2.0	4.3	
PRICE CHEMICAL CO INC LOUISVILLE				
0 20 20M				
6965		20.8	18.2*	100
2 12 6M				
9961	2.3	10.7*	6.6	97*
3 12 12M				
9977	3.2	12.3	12.0	103
4 12 8M				
0192	4.0	12.8	8.4	105
0675	4.0	12.0	8.5	101
6966	4.2	11.5*	8.7	101
9979	4.2	10.7*	9.2	98
AVERAGE ANALYSIS	4.1	11.8	8.7	
COEFFICIENT OF VARIATION	2.8	7.5	4.1	
4 16 4S				
0193 SEE NOTE 1	4.1	16.0	5.6	104
4 16 16M				
6995	4.2	16.0	16.6	102
5 10 15S				
0194 SEE NOTE 1 & 4	5.5	11.8	11.3*	103
0676	5.2	10.0	15.4	102
9978	5.4	9.8	15.5	103
9981	5.2	10.0	15.7	103
AVERAGE ANALYSIS	5.3	10.4	14.5	
COEFFICIENT OF VARIATION	2.8	9.0	14.6	
5 20 20M				
0677	5.1	18.7*	20.1	97*
2466	5.2	19.9	20.8	102
6996	5.6	20.2	19.7	103
AVERAGE ANALYSIS	5.3	19.6	20.2	
COEFFICIENT OF VARIATION	5.0	4.0	2.8	
6 6 18S				
2465	6.3	7.0	17.1*	104

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
PRICE CHEMICAL COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
0195	10.1	10.2	11.1	103
9980	9.6 *	10.2	10.4	99
AVERAGE ANALYSIS	9.9	10.2	10.8	
COEFFICIENT OF VARIATION	3.6		4.6	
PRICE CHEMICAL CO INC NORFOLK				
0 20 20M				
0451		19.2 *	19.9	97 *
1421		19.9	20.5	101
1585 SEE NOTE 4		19.1 *	18.7 *	95 *
AVERAGE ANALYSIS		19.4	19.7	
COEFFICIENT OF VARIATION		2.2	4.7	
2 12 6M				
0840	2.5	11.6 *	6.1	102
3 12 12M				
1275	3.3	12.6	12.1	105
1418	3.2	12.1	12.1	102
1688 SEE NOTE 4	3.6	12.6	10.0 *	102
2189 SEE NOTE 9	3.6	13.6	13.2	114
2621	3.2	12.2	11.7	102
AVERAGE ANALYSIS	3.3	12.4	11.5	
COEFFICIENT OF VARIATION	5.7	2.1	8.7	
4 12 8M				
0366	4.1	12.0	8.5	102
0872	4.1	12.5	8.0	103
1285	3.9	12.6	8.1	102
1526	4.0	12.7	9.5	107
1588	4.4	12.5	8.0	105
2266	4.0	12.7	8.1	103
7694	4.3	12.2	8.0	103
AVERAGE ANALYSIS	4.1	12.5	8.3	
COEFFICIENT OF VARIATION	4.3	2.1	6.6	
4 16 4S				
0367	4.0	16.1	4.6	102
1093 SEE NOTE 1	4.0	16.5	4.7	104
1177	4.0	16.5	4.5	103
6967 SEE NOTE 1	4.0	16.7	5.1	105
6994 SEE NOTE 1	4.0	16.3	4.9	103
7689	4.0	16.5	4.6	103
8954 SEE NOTE 1	4.0	16.4	4.6	103
AVERAGE ANALYSIS	4.0	16.4	4.7	
COEFFICIENT OF VARIATION		1.2	4.5	
4 16 4S WITH 0031 ALDRIN				
7693 SEE NOTE 1 & 3	4.0	16.2	4.7	102
4 16 16M				
1286	4.0	16.3	16.6	102
1589	4.7	17.6	16.0	109
AVERAGE ANALYSIS	4.4	17.0	16.3	
COEFFICIENT OF VARIATION	11.4	5.4	2.6	
5 10 15S				
0368	5.1	10.0	15.0	101
0452	5.0	10.2	14.6 *	100
0752	5.3	10.0	15.0	102
0753	5.6	10.2	15.0	104
1094	4.9	9.5 *	15.7	99
1281	4.6 *	10.6	15.0	100
1419	5.3	9.6 *	15.4	101
1525	5.2	10.2	15.8	104
1587	5.2	10.3	15.2	103
1686	5.2	10.4	15.2	103
2048	5.3	10.9	13.4 *	102
2071 SEE NOTE 1	5.3	10.9	14.1 *	104

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
PRICE CHEMICAL COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
2191	5.5	10.9	14.2*	105
2623	5.0	10.1	15.0	100
7695	5.2	10.5	15.2	104
7696	4.9	10.0	15.5	100
9712	5.1	10.6	14.3*	102
9713	5.2	10.5	14.5*	102
AVERAGE ANALYSIS	5.2	10.3	14.9	
COEFFICIENT OF VARIATION	4.5	4.0	4.1	
5 20 20M				
0369	5.0	19.1*	20.7	99
0449	5.2	20.3	19.2*	101
0754 SEE NOTE 4	5.2	20.1	17.4*	98
1284	5.3	19.5*	18.2*	97*
1583	5.1	19.9	20.5	101
1687	5.3	19.5*	20.0	100
AVERAGE ANALYSIS	5.2	19.7	19.3	
COEFFICIENT OF VARIATION	2.3	2.3	6.8	
6 6 18S				
0755	6.4	7.1	16.9*	105
1591	6.5	7.0	18.1	108
AVERAGE ANALYSIS	6.5	7.1	17.5	
COEFFICIENT OF VARIATION	1.1	1.0	4.8	
6 8 6S				
0370	6.0	7.5*	9.0	105
0756	6.0	7.9	8.6	106
1420	6.0	8.0	9.6	109
1590	5.9	7.5*	9.6	106
6993	5.9	7.0*	9.7	104
7862	5.6*	7.9	8.1	102
AVERAGE ANALYSIS	5.9	7.6	9.1	
COEFFICIENT OF VARIATION	2.6	4.9	7.2	
6 12 12M				
1282	6.0	11.8	12.4	100
1527	6.1	11.6*	12.0	99
1586	6.0	11.4*	12.4	99
1684	6.0	11.5*	13.1	100
6992	6.1	12.5	12.0	102
9714	6.0	12.2	12.7	102
AVERAGE ANALYSIS	6.0	11.8	12.4	
COEFFICIENT OF VARIATION	.9	3.7	3.4	
10 10 10M				
0371	10.0	10.8	10.0	103
1280	9.6*	10.3	10.0	99
1584	9.7	10.8	10.1	101
1685 SEE NOTE 4	8.9*	11.0	11.2	100
2070	10.0	10.4	10.1	102
2190	10.1	10.9	10.4	104
2622	9.5*	11.1	10.2	102
AVERAGE ANALYSIS	9.7	10.8	10.3	
COEFFICIENT OF VARIATION	4.3	2.8	4.1	
12 12 12M				
0450	11.9	12.7	12.0	102
1283	11.5*	12.3	12.1	99
1582	11.8	12.6	12.1	101
AVERAGE ANALYSIS	11.7	12.5	12.1	
COEFFICIENT OF VARIATION	1.8	1.7	.5	
RA PID GRO CORPORATION				
23 21 17M				
1344	23.6	20.8	16.3*	101
1567	24.4	19.6*	16.6*	101
AVERAGE ANALYSIS	24.0	20.2	16.5	
COEFFICIENT OF VARIATION	2.4	4.2	1.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
E RAUH & SONS FERTILIZER CO	(Percent)	(Percent)	(Percent)	
4 16 16M				
1146	4.3	16.3	16.0	103
6991	4.3	16.1	16.0	102
AVERAGE ANALYSIS	4.3	16.2	16.0	
COEFFICIENT OF VARIATION		.9		
5 20 20M				
1145	5.4	20.3	18.8*	101
1560	5.0	19.9	20.5	100
6990	5.1	20.0	20.0	100
AVERAGE ANALYSIS	5.2	20.1	19.8	
COEFFICIENT OF VARIATION	4.0	1.0	4.4	
ROBIN JONES PHOSPHATE COMPANY				
0 15 10M				
3034		15.0	11.7	104
0 17 10 POTASSIUM PHOSPHATE				
3036		17.5	10.6	104
0 20 10M				
9853		20.2	10.7	102
0 20 20M				
3035		19.9	21.5	102
3039		21.7	20.0	106
AVERAGE ANALYSIS		20.8	20.8	
COEFFICIENT OF VARIATION		6.1	5.1	
0 25 25M				
3038		23.4*	25.2	96*
0 26 10 POTASSIUM PHOSPHATE				
3037 SEE NOTE 9		29.4	10.0	111
4 16 16M				
3102	3.6*	15.4*	17.2	98
5 10 10S				
3042	5.2	10.6	10.5	105
6 12 12M				
9747	5.8	12.3	11.6*	99
8 15 0				
3041	7.5*	14.5*		95*
O M SCOTT & SONS COMPANY				
20 10 5M				
0426	20.0	10.3	5.1	101
6948	20.6	10.7	5.0	104
AVERAGE ANALYSIS	20.3	10.5	5.1	
COEFFICIENT OF VARIATION	2.1	2.7	1.4	
SMITH DOUGLAS CO INC COLUMBUS				
8 8 4M				
0542	8.0	8.0	4.7	102

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
SMITH DOUGLAS CO INC NORFOLK	(Percent)	(Percent)	(Percent)	
8 8 4M				
4035	7.1*	9.2	5.1	102
8 8 8M WITH 0345 DIELDRIN				
0292 SEE NOTE 3	8.0	8.0	8.3	101
23 21 18M				
0293	22.3*	20.0*	20.1	98
1343	23.8	20.6	18.0	101
AVERAGE ANALYSIS	23.1	20.3	19.1	
COEFFICIENT OF VARIATION	4.6	2.1	7.8	
THE STADLER FERTILIZER COMPANY				
7 8 5M				
7509	6.1*	8.2	6.0	97*
SWIFT & COMPANY CHICAGO				
3 12 12M				
2196	3.5	12.2	12.4	105
5 20 20M				
2199	5.4	19.5*	19.6	100
8 12 6M				
0427	8.3	12.6	6.3	104
6910	8.1	14.1	6.6	110
AVERAGE ANALYSIS	8.2	13.4	6.5	
COEFFICIENT OF VARIATION	1.7	7.9	3.3	
10 10 10M				
2197	10.0	10.5	10.6	103
10 20 20M				
2198	10.0	20.4	17.9*	99
12 5 7M				
6911	12.2	5.6	9.5	108
20 10 15M				
0543	20.6	11.3	13.9*	103
SWIFT & COMPANY NATIONAL STOCK YDS				
0 25 25M				
0814		23.4*	25.0	96*
3 12 12M				
2413	3.6	11.7	12.6	104
2640	3.5	12.0	13.2	106
AVERAGE ANALYSIS	3.6	11.9	12.9	
COEFFICIENT OF VARIATION	2.0	1.8	3.3	
4 8 12S				
0827	4.1	8.8	12.4	106
1288	4.0	8.3	12.6	103
AVERAGE ANALYSIS	4.1	8.6	12.5	
COEFFICIENT OF VARIATION	1.7	4.1	1.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
SWIFT & COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
0815	5.2	20.0	20.2	101
6 24 24M				
2414	6.0	23.2*	24.5	99
10 10 10M				
0813	10.6	11.1	8.7*	105
2412	11.0	10.2	9.3*	105
AVERAGE ANALYSIS	10.8	10.7	9.0	
COEFFICIENT OF VARIATION	2.6	6.0	4.7	
10 20 20M				
2639	10.0	20.4	17.6*	98
15 15 15M				
0828	14.8	12.5*	16.0	95*
18 46 5M				
1669	18.0	46.6	5.9	101
STIM U PLANT LABORATORIES INC				
20 20 20M				
0439	20.4	20.0	20.7	102
TENNESSEE CHEMICAL COMPANY				
0 20 20M				
4012		17.8*	21.0	94*
3 12 12M				
4013	3.5	12.0	11.0*	101
4 12 8M				
7744	4.3	12.0	8.5	103
4 16 16M				
7743	4.3	16.5	17.4	106
5 10 15S				
4014	5.4	9.0*	13.8*	96*
6 8 6M				
7741	5.8	8.3	6.1	100
TENNESSEE CORPORATION CINCINNATI				
0 20 20M				
1061		18.8*	20.0	96*
1550		19.6	19.2*	97*
6939		19.9	21.1	102
AVERAGE ANALYSIS		19.4	20.1	
COEFFICIENT OF VARIATION		2.9	4.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
TENNESSEE CORPORATION CONTINUED	(Percent)	(Percent)	(Percent)	
3 12 12M				
1064 SEE NOTE 9	4.3	14.3	12.0	119
1375	3.2	12.5	10.8*	101
1555	3.7	13.2	11.8	110
6938	3.6	13.6	14.4	116
AVERAGE ANALYSIS	3.5	13.1	12.3	
COEFFICIENT OF VARIATION	7.6	4.3	15.1	
4 12 8M				
1554	4.1	11.7	8.1	100
4 16 4S				
1060 SEE NOTE 1	4.2	16.2	4.6	103
1082	4.4	16.2	5.2	106
AVERAGE ANALYSIS	4.3	16.2	4.9	
COEFFICIENT OF VARIATION	3.3		8.7	
5 10 5M				
1081	5.2	9.6*	5.1	100
7774	5.4	10.6	5.1	106
AVERAGE ANALYSIS	5.3	10.1	5.1	
COEFFICIENT OF VARIATION	2.7	7.0		
5 10 10M				
1549	5.5	10.3	10.1	105
7685	5.5	10.3	10.2	105
7773	5.6	10.6	10.6	108
AVERAGE ANALYSIS	5.5	10.4	10.3	
COEFFICIENT OF VARIATION	1.0	1.7	2.6	
5 10 15S				
0780	5.3	10.0	16.0	104
1062	5.4	10.2	15.0	103
1472	5.3	10.5	15.0	104
1552 SEE NOTE 1	5.4	11.1	16.6	110
1675	5.2	10.1	16.0	104
6936	5.1	10.4	15.0	102
7855	5.1	10.2	14.9	101
AVERAGE ANALYSIS	5.3	10.4	15.5	
COEFFICIENT OF VARIATION	2.4	3.6	4.4	
5 20 20M				
1473	5.1	21.0	19.0*	102
1551	5.3	20.3	18.6*	100
1676	5.1	20.0	17.5*	97*
6937	5.1	20.5	19.3*	101
AVERAGE ANALYSIS	5.2	20.5	18.6	
COEFFICIENT OF VARIATION	1.9	2.1	4.2	
6 6 18S				
7854 SEE NOTE 9	5.9	6.5	17.7	122
6 12 12M				
0781	6.5	12.0	11.0*	101
10 6 4M				
1163	10.0	6.7	4.1	103
10 10 10M				
0782	10.0	10.4	10.6	102
1063	10.6	10.3	9.5*	103
1083	10.5	10.9	10.0	106
1276	9.9	10.6	10.5	102
1373	10.8	10.7	8.9*	105
1475	10.0	10.6	9.8	102
1553	10.7	10.4	9.4*	104
7853	10.1	10.6	10.0	103
AVERAGE ANALYSIS	10.3	10.6	9.8	
COEFFICIENT OF VARIATION	3.5	1.8	5.8	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
TENNESSEE CORPORATION CONTINUED	(Percent)	(Percent)	(Percent)	
12 12 12M				
1084	12.1	12.4	10.7*	100
1374	12.6	12.0	11.4*	102
7772	12.4	12.5	11.8	103
AVERAGE ANALYSIS	12.4	12.3	11.3	
COEFFICIENT OF VARIATION	2.0	2.2	4.9	
TENNESSEE CORPORATION NEW ALBANY				
0 20 20M				
2343		20.2	20.5	102
9781		20.0	20.2	100
AVERAGE ANALYSIS		20.1	20.4	
COEFFICIENT OF VARIATION		.7	1.0	
3 12 12M				
1605	3.2	12.1	11.6*	101
1606	3.0	11.7	12.7	100
2095	3.2	12.1	12.1	102
9629	3.5	13.1	15.0	115
9903	3.2	12.1	11.3*	100
AVERAGE ANALYSIS	3.2	12.2	12.5	
COEFFICIENT OF VARIATION	5.6	4.3	11.8	
4 12 8M				
2334	3.9	12.3	8.5	102
2335	4.2	12.1	8.5	103
3006	4.0	11.9	10.2	105
9608	4.1	12.3	7.5*	101
9904	4.3	12.4	7.2*	102
AVERAGE ANALYSIS	4.1	12.2	8.4	
COEFFICIENT OF VARIATION	3.9	1.6	14.0	
4 16 4S				
2038 SEE NOTE 1	4.5	16.5	4.9	107
2096 SEE NOTE 1	4.3	16.8	4.6	106
9614	4.3	16.1	4.6	104
AVERAGE ANALYSIS	4.4	16.5	4.7	
COEFFICIENT OF VARIATION	2.6	2.1	3.7	
5 10 10M				
1604	5.0	10.3	9.8	101
3004	5.0	10.0	10.5	101
9627	5.3	10.0	10.0	102
AVERAGE ANALYSIS	5.1	10.1	10.1	
COEFFICIENT OF VARIATION	3.4	1.7	3.6	
5 10 15S				
0783	5.4	10.4	14.7	103
1608	5.4	10.4	14.5*	103
2345	5.2	10.3	15.0	122
2573	5.3	10.2	15.0	103
2625	5.0	10.6	15.0	102
3003	5.2	10.1	15.5	103
9610	5.2	10.0	15.2	102
9613	5.1	10.2	14.7	101
9642	5.2	10.5	15.0	103
9782	5.3	10.5	14.5*	103
9905	4.9	10.3	15.0	101
AVERAGE ANALYSIS	5.2	10.3	14.9	
COEFFICIENT OF VARIATION	3.0	1.8	2.0	
5 20 20M				
1607	5.3	20.8	18.0*	101
2346	4.7*	20.4	20.1	100
3002	5.2	20.3	18.7*	100
9646	5.1	20.3	19.1*	100
9783	4.5*	20.5	20.7	100
AVERAGE ANALYSIS	5.0	20.5	19.3	
COEFFICIENT OF VARIATION	6.9	1.0	5.6	
5 20 20M WITH 5 LBS ALDRIN				
3005 SEE NOTE 3	5.1	20.9	18.1*	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
TENNESSEE CORPORATION CONTINUED	(Percent)	(Percent)	(Percent)	
6 6 18S				
0784	6.2	6.4	18.0	103
9628	6.1	6.2	18.0	101
AVERAGE ANALYSIS	6.2	6.3	18.0	
COEFFICIENT OF VARIATION	1.1	2.2		
6 8 6S				
9630	6.3	8.7	6.2	106
9643	6.4	8.4	7.2	108
AVERAGE ANALYSIS	6.4	8.6	6.7	
COEFFICIENT OF VARIATION	1.1	2.5	10.6	
6 12 12M				
0785	6.3	12.0	13.2	104
9632	6.1	12.0	14.8	106
AVERAGE ANALYSIS	6.2	12.0	14.0	
COEFFICIENT OF VARIATION	2.3		8.1	
10 10 10M				
0786	9.0*	10.9	12.9	103
1161	9.8	10.7	10.9	103
1609	9.8	10.2	12.8	104
2094	10.0	11.2	10.0	104
2344	9.7	10.7	11.5	103
2624	9.2*	10.5	13.2	103
3007	10.0	10.3	11.0	103
9612	9.6*	10.8	10.5	102
9644	10.3	10.6	10.9	105
9779	10.0	10.6	9.9	102
9901	9.4*	10.7	12.8	104
AVERAGE ANALYSIS	9.7	10.7	11.5	
COEFFICIENT OF VARIATION	4.0	2.6	10.7	
12 12 12M				
1162	11.8	13.0	12.4	103
2037	12.0	12.7	11.7	102
2347	11.4*	12.9	13.0	101
9645	11.5*	12.9	12.3	101
9780	11.0*	13.0	12.6	99
AVERAGE ANALYSIS	11.5	12.9	12.4	
COEFFICIENT OF VARIATION	3.3	.9	3.8	
TRI STATE CHEMICAL COMPANY				
0 30 30M				
7868		28.0*	30.5	96*
3 12 12M				
1226 SEE NOTE 9	3.5	12.9	13.5	111
7760	3.2	12.1	12.7	103
7870	2.8	11.4*	12.1	96*
AVERAGE ANALYSIS	3.0	11.8	12.4	
COEFFICIENT OF VARIATION	9.4	4.2	3.4	
4 12 8M				
1227	4.0	12.8	9.8	108
7759	4.2	12.4	8.7	105
AVERAGE ANALYSIS	4.1	12.6	9.3	
COEFFICIENT OF VARIATION	3.4	2.2	8.4	
4 16 4S				
7757 SEE NOTE 1 & 4	3.2*	14.3*	5.2	90*
4 16 16M				
7758	4.6	16.0	16.6	104
7872	4.3	15.7	16.2	101
AVERAGE ANALYSIS	4.5	15.9	16.4	
COEFFICIENT OF VARIATION	4.8	1.3	1.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
TRI STATE CHEMICAL CO CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S				
1728 SEE NOTE 1	4.6*	10.2	14.6*	98
7754	4.1*	11.4	15.0	100
7869 SEE NOTE 1	4.2*	11.6	15.5	103
7882 SEE NOTE 1	4.7*	10.4	15.0	100
7998 SEE NOTE 9	4.8	18.0	13.5*	128
AVERAGE ANALYSIS	4.4	10.9	15.0	
COEFFICIENT OF VARIATION	6.7	6.4	2.5	
5 20 20M				
7753 SEE NOTE 4	4.9	17.6*	21.1	95*
7875	5.0	20.3	20.2	101
7883	5.0	19.8	19.6	99
AVERAGE ANALYSIS	5.0	19.2	20.3	
COEFFICIENT OF VARIATION	1.2	7.5	3.7	
6 8 6M				
1727	5.6*	8.7	7.6	107
6 12 12M				
7871	5.6*	13.7	13.0	106
8000	6.2	12.0	13.7	104
AVERAGE ANALYSIS	5.9	12.9	13.4	
COEFFICIENT OF VARIATION	7.2	9.4	3.7	
6 24 24M				
7996	6.8	26.8	20.2*	105
10 10 10M				
1228	8.7*	12.2	11.2	103
1729	9.6*	10.6	11.7	103
6915	9.8	10.0	10.1	99
7873	9.5*	10.8	10.0	100
7880	9.8	10.0	10.7	100
7997	9.2*	10.1	11.7	99
7999	9.0*	10.8	10.0	98
AVERAGE ANALYSIS	9.4	10.6	10.8	
COEFFICIENT OF VARIATION	4.5	7.3	7.1	
12 12 12M				
1730	11.5*	12.2	14.0	101
4001	11.1*	12.5	13.2	99
7874	11.6*	13.1	12.0	101
7881	11.7	11.7	12.1	98
AVERAGE ANALYSIS	11.5	12.4	12.8	
COEFFICIENT OF VARIATION	2.3	4.7	7.4	
VALLEY COUNTIES OF KY COOP INC				
10 30 20M				
1663 SEE NOTE 5	9.4*	26.8*	21.7	94*
30 10 0				
0539	30.4	10.3		102
VIRGINIA CAROLINA CINCINNATI				
0 19 19M WITH 5 LBS BORAX				
0772 SEE NOTE 2		19.0	19.6	101
8976 SEE NOTE 2		19.0	19.2	100
9449 SEE NOTE 2		19.8	19.2	103
AVERAGE ANALYSIS		19.3	19.3	
COEFFICIENT OF VARIATION		2.4	1.2	
0 20 20M				
0787		20.0	20.7	101
9778		20.6	19.6	101
AVERAGE ANALYSIS		20.3	20.2	
COEFFICIENT OF VARIATION		2.1	3.9	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
VIRGINIA CAROLINA CONTINUED	(Percent)	(Percent)	(Percent)	
3 12 12M				
1732	3.3	12.2	11.8	102
2228	3.4	13.1	12.0	108
2597	4.0	12.1	14.2	112
8974	3.1	12.3	12.6	103
9445	3.0	12.3	13.0	104
9775	3.3	12.4	12.0	104
9983	3.2	12.7	12.6	106
AVERAGE ANALYSIS	3.3	12.4	12.6	
COEFFICIENT OF VARIATION	9.8	2.8	6.5	
4 12 8M				
0773	4.6	12.1	8.4	105
1080	4.1	11.7	9.1	102
1388	4.1	12.1	8.5	102
2225	4.2	12.0	8.7	103
8853	4.1	12.7	8.9	106
9447	4.0	12.7	8.1	103
9776	4.2	12.0	8.5	103
AVERAGE ANALYSIS	4.2	12.2	8.6	
COEFFICIENT OF VARIATION	4.7	3.1	3.9	
5 10 10M				
1474	4.9	10.2	10.2	101
2229	5.2	9.8	10.9	102
2595	5.2	10.1	10.7	103
AVERAGE ANALYSIS	5.1	10.0	10.6	
COEFFICIENT OF VARIATION	3.4	2.1	3.4	
5 10 15S				
0774	5.0	10.8	14.9	103
1389	5.2	10.7	14.4*	105
1410	5.0	10.9	15.0	104
1612	5.2	10.6	15.0	104
2226	5.1	10.4	15.0	102
2556	5.0	10.1	15.2	101
6949	5.3	10.2	15.0	103
9446	5.5	10.4	14.4*	103
9777	5.0	10.7	14.3*	101
AVERAGE ANALYSIS	5.1	10.5	14.8	
COEFFICIENT OF VARIATION	3.4	2.6	2.3	
5 10 15S WITH 0016 ALDRIN 0770 SEE NOTE 3	5.1	10.5	14.8	102
5 20 20M				
0775	4.8	20.4	20.0	100
1079	5.1	20.0	20.0	100
2224	4.9	19.9	20.0	99
2313	5.0	19.9	18.7*	98
8855	4.8	20.2	20.2	100
8975	5.3	20.4	20.1	102
9448	5.2	20.0	19.9	101
9982	5.0	18.4*	22.7	99
AVERAGE ANALYSIS	5.0	19.9	20.2	
COEFFICIENT OF VARIATION	3.6	3.2	5.5	
5 6 18S WITH 0015 ALDRIN 0771 SEE NOTE 3	5.8	7.1	18.2	104
6 12 12M				
0776	6.4	11.4*	12.1	100
0788	6.1	12.0	12.0	101
8972	6.4	12.1	11.8	102
AVERAGE ANALYSIS	6.3	11.8	12.0	
COEFFICIENT OF VARIATION	2.7	3.2	1.3	
6 12 18S				
0777	6.7	12.0	17.3*	102
0789	6.0	12.4	18.2	102
2557	6.0	12.0	18.7	101
8854	6.0	12.7	18.1	103
8973	6.1	12.5	18.2	103
AVERAGE ANALYSIS	6.2	12.3	18.1	
COEFFICIENT OF VARIATION	5.0	2.5	2.8	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
VIRGINIA CAROLINA CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
0432	10.6	10.6	8.3*	102
1409	9.9	10.9	9.4*	102
1411	10.0	10.0	11.5	103
1731	10.0	9.9	11.9	103
2227 SEE NOTE 4	10.9	11.2	6.3*	102
2312	10.0	10.6	9.5*	101
2352	10.3	11.3	8.2*	103
2558	10.3	10.8	9.2*	103
6950	10.7	10.7	8.3*	103
8856	9.6*	10.7	10.7	102
8971	10.5	10.4	9.4*	103
9444	9.4*	10.1	12.6	102
AVERAGE ANALYSIS	10.2	10.6	9.6	
COEFFICIENT OF VARIATION	4.4	4.2	18.7	
12 12 12M				
0778	11.7	12.1	12.7	100
VIRGINIA CAROLINA HOPKINSVILLE				
0 20 20M				
3080		19.2*	22.0	101
9693		19.2*	23.0	102
9752		19.8	20.7	101
9676		19.0*	20.7	98
AVERAGE ANALYSIS		19.3	21.6	
COEFFICIENT OF VARIATION		1.8	5.2	
0 20 20M WITH 3 LBS BORAX				
3077 SEE NOTE 2		18.8*	22.5	100
3078 SEE NOTE 2		20.0	20.6	101
9442 SEE NOTE 2 & 4 & 9		19.7	12.4*	86*
9699 SEE NOTE 2		20.1	17.7*	97*
9875 SEE NOTE 2 & 4		17.9*	20.6	94*
AVERAGE ANALYSIS		19.2	20.4	
COEFFICIENT OF VARIATION		5.5	9.7	
3 12 12M				
9437	3.4	12.1	12.5	104
9887 SEE NOTE 9	6.2	12.0	12.6	123
4 12 8M				
0454	4.6	12.7	7.4*	106
0467	4.3	12.7	7.8	105
0851	4.4	12.7	7.8	105
1726	4.3	12.4	8.2	104
9436	4.2	12.2	8.5	103
9667	4.4	12.7	8.0	106
9731	4.3	12.5	8.4	105
9754	4.3	12.5	8.9	106
9761	4.5	12.0	8.9	105
9867	4.5	12.3	8.1	105
9878	4.4	12.2	8.4	105
9880	4.4	12.0	9.0	105
9890	4.3	12.1	9.2	105
AVERAGE ANALYSIS	4.4	12.4	8.4	
COEFFICIENT OF VARIATION	2.5	2.2	6.5	
5 10 10S				
3070 SEE NOTE 1	4.5*	11.6	10.4	105
9758 SEE NOTE 1	4.6*	11.3	10.1	103
AVERAGE ANALYSIS	4.6	11.5	10.3	
COEFFICIENT OF VARIATION	1.6	1.9	2.1	
5 10 15S				
0307	5.1	10.7	15.0	103
3068	5.1	10.5	15.2	103
9439	5.0	10.9	15.0	104
9674 SEE NOTE 1	5.0	11.4	15.0	106
9695	5.1	10.3	15.4	103
9753	5.1	10.5	15.0	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
VIRGINIA CAROLINA CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
9759	5.2	10.6	14.8	103
9864	5.2	10.7	15.0	104
9882	5.1	10.1	15.4	102
9966	5.2	10.3	15.0	102
AVERAGE ANALYSIS	5.1	10.6	15.1	
COEFFICIENT OF VARIATION	1.4	3.4	1.3	
5 20 20M				
0850	5.2	20.0	20.1	101
2444	5.2	20.0	20.9	102
9440	5.2	19.2	19.5*	98
9677	5.0	18.9*	20.2	97*
9694	5.1	20.0	20.1	101
9755	5.1	19.6	21.2	101
9877	4.9	20.0	21.2	101
9965	5.3	19.7	20.1	101
AVERAGE ANALYSIS	5.1	19.7	20.4	
COEFFICIENT OF VARIATION	2.5	2.2	3.0	
5 20 20M WITH 3 LBS BORAX 2657 SEE NOTE 2	5.0	18.5*	18.1*	93*
6 12 12M				
0869	5.9	12.4	11.9	101
2656	6.2	12.6	12.0	103
3069	6.1	12.6	12.0	103
3082	5.9	12.2	12.4	101
9441	6.0	12.1	12.1	101
9673	6.2	12.3	12.5	103
9698	6.1	12.5	12.0	102
9756	6.2	12.4	12.1	102
9866	6.0	12.3	12.4	102
9874	6.0	12.1	12.1	101
AVERAGE ANALYSIS	6.1	12.4	12.2	
COEFFICIENT OF VARIATION	1.9	1.5	1.7	
6 12 18S				
3067	6.2	12.3	17.9	102
3081	6.2	12.7	18.7	105
9676 SEE NOTE 1	6.4	12.2	18.0	103
9696	6.2	12.2	18.0	102
9879	6.1	12.1	18.2	101
AVERAGE ANALYSIS	6.2	12.3	18.2	
COEFFICIENT OF VARIATION	1.8	1.9	1.8	
6 12 18S WITH 0030 ALDRIN 3083 SEE NOTE 3	6.0	12.0	18.9	102
6 18 12M				
1498	6.3	17.0*	11.7	98
2216	6.9	16.9*	12.2	101
3079	6.4	17.7	12.6	102
9675	6.4	17.3*	13.0	101
9881	6.3	16.4*	13.9	99
9888	6.3	17.7	12.2	101
AVERAGE ANALYSIS	6.4	17.2	12.6	
COEFFICIENT OF VARIATION	3.6	2.9	6.1	
10 10 10M				
2215	9.8	10.3	10.0	100
2445	9.6*	10.5	10.0	100
9438	9.8	14.3	12.3	118
9672	9.9	11.4	10.4	105
9697	9.9	9.9	10.4	100
9757	10.0	10.4	10.4	102
9760	10.3	9.8	10.6	102
9865	10.0	10.3	10.5	102
9883	9.6*	10.5	10.4	100
9884	9.4*	11.0	9.8	100
9889	10.0	10.0	10.9	102
AVERAGE ANALYSIS	9.8	10.8	10.5	
COEFFICIENT OF VARIATION	2.5	11.7	6.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
VIRGINIA CAROLINA CONTINUED	(Percent)	(Percent)	(Percent)	
12 12 12M				
0641	12.1	12.0	12.4	101
2217	11.8	13.8	12.0	104
9443	12.5	12.9	13.0	106
9685	12.0	12.6	12.4	101
9886	11.0*	14.3	11.9	102
AVERAGE ANALYSIS	11.9	13.1	12.3	
COEFFICIENT OF VARIATION	4.7	7.1	3.5	
VIRGINIA CAROLINA MEMPHIS TENN				
5 20 20M				
2200	5.0	19.5*	20.2	99
6 12 12M				
0852	6.0	12.0	12.1	100
3072	6.1	12.1	12.5	102
AVERAGE ANALYSIS	6.1	12.1	12.3	
COEFFICIENT OF VARIATION	1.2	.6	2.3	
10 10 10M				
0455	10.0	10.4	10.2	102
1499	10.1	10.1	10.9	103
AVERAGE ANALYSIS	10.1	10.3	10.6	
COEFFICIENT OF VARIATION	.7	2.1	4.7	
12 12 12M				
3071	10.9*	13.1	12.0	98
VIRGINIA CAROLINA MT PLEASANT TENN				
0 20 20M				
2131		20.1	20.2	101
8951		20.0	19.5*	99
AVERAGE ANALYSIS		20.1	19.9	
COEFFICIENT OF VARIATION		.4	2.5	
2 12 6M				
2132 SEE NOTE 9	2.5	12.8	7.9	114
3 12 12M				
2130	3.6	11.7	12.1	103
3 12 12 3 MURIATE 9 SULFATE				
2494 SEE NOTE 1	3.2	12.5	11.4*	102
4 12 8M				
2007	4.1	11.5*	9.1	101
2321	4.3	12.4	7.6*	103
2496	4.0	12.0	9.6	104
9701	4.3	12.6	7.8	104
AVERAGE ANALYSIS	4.2	12.1	8.5	
COEFFICIENT OF VARIATION	3.6	4.0	11.5	
4 12 8 2 MURIATE 6 SULFATE				
2129	4.4	12.1	8.7	105
4 12 12M				
2279	4.0	12.4	11.8	101
5 10 10S				
2278	5.0	10.0	10.2	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
VIRGINIA CAROLINA CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S				
2010	5.0	9.9	15.5	101
2322	5.0	9.7	16.0	101
9703	4.8	10.1	15.3	100
9976	5.0	10.0	15.3	101
AVERAGE ANALYSIS	5.0	9.9	15.5	
COEFFICIENT OF VARIATION	2.0	1.7	2.1	
5 20 20M				
2008	5.0	19.6	19.9	99
2277 SEE NOTE 7	5.3	18.0*	16.3*	91*
2495	5.1	19.5*	20.0	99
9974	5.1	19.5*	19.9	99
AVERAGE ANALYSIS	5.1	19.2	19.0	
COEFFICIENT OF VARIATION	2.5	4.0	9.6	
6 8 6S				
2230	6.1	8.2	6.7	104
6 12 12M				
2006	6.1	12.3	11.2*	100
6 12 18S				
2009	6.0	12.0	18.2	100
9702	6.0	13.1	16.9*	102
AVERAGE ANALYSIS	6.0	12.6	17.6	
COEFFICIENT OF VARIATION		6.2	5.2	
10 10 10M				
2280	10.2	10.0	9.6*	100
9975	9.6*	10.0	11.0	100
AVERAGE ANALYSIS	9.9	10.0	10.3	
COEFFICIENT OF VARIATION	4.3		9.6	
VIRGINIA CAROLINA RICHMOND VA				
0 20 20M WITH 3 LBS BORAX				
8885 SEE NOTE 2		19.9	20.5	101
4 12 8M				
1721	4.4	12.3	8.0	104
8884	4.6	12.2	8.5	106
AVERAGE ANALYSIS	4.5	12.3	8.3	
COEFFICIENT OF VARIATION	3.1	.6	4.3	
5 10 10M				
8950 SEE NOTE 9	5.9	11.2	11.5	115
5 10 15S				
8886	5.2	10.6	15.0	104
5 20 0				
8887	5.6	19.0*		99
5 20 20M				
1496	5.1	19.6	20.6	100
6 12 12M				
1494	6.0	12.4	12.2	102
8953	6.1	12.0	11.9	100
AVERAGE ANALYSIS	6.1	12.2	12.1	
COEFFICIENT OF VARIATION	1.2	2.3	1.8	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1961

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
VIRGINIA CAROLINA CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 18S				
1387 SEE NOTE 1	6.0	12.4	18.2	102
1495	6.1	12.1	18.1	101
8883	6.3	12.1	17.1 *	100
AVERAGE ANALYSIS	6.1	12.2	17.8	
COEFFICIENT OF VARIATION	2.5	1.4	3.4	
10 10 10M				
1725	8.7 *	10.7	12.5	100

TABLE 2.— Analyses of Inspection Samples of Mixed Liquid Fertilizers, January-June, 1961

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
THE AMERICAN LIQUID FERT CO INC	(Percent)	(Percent)	(Percent)	
10 20 10M LIQUID				
0398	9.9	20.3	10.0	100
1429	10.2	20.4	10.1	102
3088	10.2	20.7	10.1	103
AVERAGE ANALYSIS	10.1	20.5	10.1	
COEFFICIENT OF VARIATION	1.7	1.0	.6	
CALIFORNIA SPRAY CHEMICAL CORP				
15 5 5M LIQUID				
7748	14.9	5.2	6.2	102
COMMONWEALTH FERT CO RUSSELLVILLE				
4 8 12M LIQUID				
2533	4.0	8.1	14.0	106
5 10 10 5M 5KOH LIQUID				
2532	4.1*	11.0	9.5*	97*
8 24 0 LIQUID				
2534	8.0	23.8		99
10 10 10 5M 5KOH LIQUID				
2530	10.2	10.3	9.2*	101
J H ERBRICH PRODUCTS COMPANY				
6 18 6M LIQUID				
0878	6.3	17.9	5.6*	101
2629	6.5	16.7*	6.1	98
AVERAGE ANALYSIS	6.4	17.3	5.9	
COEFFICIENT OF VARIATION	2.2	4.9	6.0	
FARMERS SUPPLY & PRODUCE COMPANY				
5 10 5M LIQUID				
9988	5.0	12.4	5.6	114
HUTSON CHEMICAL COMPANY				
5 10 10M LIQUID				
1625	4.3*	8.8*	9.8	90*
KENTUCKY SEED COMPANY				
7 14 7M LIQUID				
1234	7.2	14.0	7.5	102

TABLE 2.— Analyses of Inspection Samples of Mixed Liquid Fertilizers, January-June, 1961

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
LAND O NAN WAREHOUSE MORGANFIELD	(Percent)	(Percent)	(Percent)	
3 6 10M LIQUID				
2646	3.5	6.4	9.9	106
2648	3.1	6.3	10.1	102
2649	3.3	6.2	10.0	103
AVERAGE ANALYSIS	3.3	6.3	10.0	
COEFFICIENT OF VARIATION	6.1	1.6	1.0	
4 8 12M LIQUID				
2422	4.2	7.8	12.0	101
4 8 12M WITH 5 LBS BORAX LIQ				
2645	4.5	8.1	11.4*	103
8 6 12M LIQUID				
2421	7.9	6.2	11.9	100
9 9 9M LIQUID				
2195	9.1	9.0	9.2	101
10 8 4M LIQUID				
2642	12.5	4.2*	4.4	101
2643	9.9	9.1	4.4	105
AVERAGE ANALYSIS	11.2	6.7	4.4	
COEFFICIENT OF VARIATION	16.4	52.1		
12 4 4M LIQUID				
2644	11.2*	3.8	4.0	91*
12 4 8M LIQUID				
2641	12.0	4.2	8.9	103
LINCOLN FARM SERVICE				
5 10 5M LIQUID				
3087	4.5*	11.4	5.5	105
NA CHURS PLANT FOOD COMPANY				
15 5 5M LIQUID				
1408	13.8*	11.2	7.6	119
SEMO LIQUID FERTILIZER INC				
8 8 8M LIQUID				
0816	8.1	7.7*	8.0	99
9 9 9M LIQUID				
0817	8.5*	9.5	9.0	99
SOUTHERN STATES CLARK COUNTY COOP				
5 10 5M LIQUID				
0841	5.0	10.1	5.0	101

TABLE 2.— Analyses of Inspection Samples of Mixed Liquid Fertilizers, January-June, 1961

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
TOBACCO STATES CHEMICAL CO INC	(Percent)	(Percent)	(Percent)	
10 20 10 KOH LIQUID				
0877	10.2	19.5*	10.1	100
9774	10.0	19.9	10.1	100
AVERAGE ANALYSIS	10.1	19.7	10.1	
COEFFICIENT OF VARIATION	1.4	1.4		
WEIL ELLIOTT CHEMICAL CO INC				
6 18 6M LIQUID				
0268	5.9	17.2*	8.5	101
2574 SEE NOTE 7 & 9	4.1*	10.3*	8.0	68*
3096	6.0	17.4*	6.0	98
WEST KY LIQUID FERT BOWLING GREEN				
4 12 12M LIQUID				
2650	4.5	11.6*	10.3*	98
7 14 7M LIQUID				
2134	7.2	13.7	7.2	100
8 24 4M LIQUID				
2538	8.2	23.0*	4.0	98
10 20 0 LIQUID				
2133	9.9	20.0		100
2311	9.9	19.9		99
18 12 0 LIQUID				
2535	17.7	12.1		99
2537	18.2	12.0		101
AVERAGE ANALYSIS	18.0	12.1		
COEFFICIENT OF VARIATION	2.0	.6		
21 7 0 LIQUID				
2536	21.0	7.0		100
WEST KY LIQUID FERT HOPKINSVILLE				
4 12 8M LIQUID				
3051	3.9	11.9	8.5	100
3055	4.3	11.6*	8.3	101
AVERAGE ANALYSIS	4.1	11.8	8.4	
COEFFICIENT OF VARIATION	6.9	1.8	1.7	
4 12 12M LIQUID				
3052	4.3	12.2	12.0	103
5 15 10M LIQUID				
3054	5.1	14.5*	10.1	99
6 12 12M LIQUID				
3107	6.6	11.4*	11.6*	100
6 12 12 6M 6KOH LIQUID				
3046	6.2	11.8	12.2	101
3050	6.2	12.3	11.8	102
3053	6.1	11.6*	12.1	99
3108	6.0	11.7	12.0	99
3109	7.8	11.2*	10.6*	104
AVERAGE ANALYSIS	6.5	11.7	11.7	
COEFFICIENT OF VARIATION	11.7	3.4	5.6	

TABLE 2.— Analyses of Inspection Samples of Mixed Liquid Fertilizers, January-June, 1961

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
WEST KY LIQUID FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
6 18 8M LIQUID				
3061	6.3	17.4*	8.1	100
6 18 9M LIQUID				
3058	5.8	16.8*	9.2	96*
9895	6.5	18.0	8.2*	101
AVERAGE ANALYSIS	6.2	17.4	8.7	
COEFFICIENT OF VARIATION	8.0	4.9	8.1	
7 21 0 LIQUID				
9894	7.6	21.5		104
8 24 0 LIQUID				
3057	8.5	24.6		104
3059	8.5	23.9		102
9765 SEE NOTE 6	7.6*	22.1*		93*
AVERAGE ANALYSIS	8.2	23.5		
COEFFICIENT OF VARIATION	6.3	5.5		
10 10 10M LIQUID				
3056	9.7	10.8	10.0	101*
9891	9.4*	11.4	9.2*	100
9893	10.0	9.3*	10.0	98
AVERAGE ANALYSIS	9.7	10.5	9.7	
COEFFICIENT OF VARIATION	3.1	10.3	4.7	
10 10 10 5M 5KOH LIQUID				
3043	9.9	10.6	9.2*	100
9892	10.1	10.1	9.9	101
AVERAGE ANALYSIS	10.0	10.4	9.6	
COEFFICIENT OF VARIATION	1.4	3.4	5.2	
10 20 10M LIQUID				
9764 SEE NOTE 7	9.9	19.4*	9.8	99
12 8 4M LIQUID				
9766 SEE NOTE 9	13.1	9.2	4.4	111
12 8 8M LIQUID				
3045	12.1	8.0	7.5*	100
12 12 6M LIQUID				
3044	12.4	11.7	5.8	101
3047	11.8	11.6*	6.2	98
AVERAGE ANALYSIS	12.1	11.7	6.0	
COEFFICIENT OF VARIATION	3.5	.6	4.7	
14 7 7M LIQUID				
3049	13.5*	7.0	6.4*	97*
15 10 5M LIQUID				
3048	14.5*	8.2*	5.6	94*
WEST KY LIQUID FERT GUTHRIE				
6 12 12M LIQUID				
3021	6.8	11.5*	11.5*	102
6 12 12 6M 6KOH LIQUID				
3022	6.5	11.7	11.8	101
6 18 9M LIQUID				
3030	6.8	17.1*	9.0	101
10 10 10M LIQUID				
3031	10.0	9.9	8.5*	97*
3032	10.0	10.0	8.3*	97*
AVERAGE ANALYSIS	10.0	10.0	8.4	
COEFFICIENT OF VARIATION		.7	1.7	

TABLE 2.— Analyses of Inspection Samples of Mixed Liquid Fertilizers, January-June, 1961

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
WEST KY LIQUID FERTILIZER CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10 5M 5KOH LIQUID				
3029	9.6*	10.4	9.1*	98
3104	10.3	10.1	9.0*	100
3105	10.0	9.8	9.9	99
AVERAGE ANALYSIS	10.0	10.1	9.3	
COEFFICIENT OF VARIATION	3.5	3.0	5.3	
12 12 6M LIQUID				
3025	11.9	11.7	5.5*	98
15 10 5M LIQUID				
3020	15.0	9.1*	4.5*	97*
3027	15.0	10.0	4.5*	99
3028	15.2	9.9	4.6*	100
3103	15.0	9.8	5.1	100
3106	14.8	9.6*	5.1	98
AVERAGE ANALYSIS	15.0	9.7	4.8	
COEFFICIENT OF VARIATION	.9	3.7	6.6	
15 15 0 LIQUID				
3026	14.7	14.2*		97*
18 9 0 LIQUID				
3023	17.9	9.0		100
18 12 0 LIQUID				
3024	17.7	11.7		98

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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
ALLIED CHEM CORP NIT DIV HOPEWELL	(Percent)	(Percent)	(Percent)	
NITRATE OF SODA				
0904	16.2			101
AMMONIUM NITRATE				
0383	33.5			100
ALLIED CHEM NIT DIV MEMPHIS TENN				
NITROGEN SOLUTION LIQUID				
0818	30.0			100
ALLIED CHEM CORP NIT DIV NEW YORK				
NITROGEN SOLUTION				
1531	31.6			99
ALLIED CHEM NIT DIV SOUTH POINT				
NITROGEN SOLUTION LIQUID				
1300	30.2			101
AMERICAN AGRI CHEMICAL CO LONDON				
AMMONIUM NITRATE				
0148	34.2			102
0547	34.0			101
0563	34.0			101
SUPERPHOSPHATE				
0391		20.3		102
0572		20.7		103
1444		20.0		100
7993		20.0		100
9498		20.0		100
9516		20.1		100
46 TRIPLE SUPERPHOSPHATE				
0327		45.0*		98
0562 SEE NOTE 8		42.8*		93*
0915		43.8*		95*
54 TRIPLE SUPERPHOSPHATE				
2461		53.2		97*
50 SULFATE OF POTASH				
2463			50.5	101
MURIATE OF POTASH				
0564			60.6	101
0916			60.0	100
2462			60.2	100
AMERICAN AGRI CHEM CO NASHVILLE				
SUPERPHOSPHATE				
8985		20.0		100

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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
AMERICAN AGRI CHEM CO NEW YORK	(Percent)	(Percent)	(Percent)	
SUPERPHOSPHATE				
0660		20.6		103
1677		20.5		102
4024		20.2		101
7596		20.7		103
8901		18.2		101
8903		19.9		100
50 SULFATE OF POTASH				
1361			51.0	102
7866			50.5	101
MURIATE OF POTASH				
7867			60.0	100
ARMOUR AGRI CHEM CO ATLANTA GA				
50 SULFATE OF POTASH				
0740			50.5	101
ARMOUR AGRI CHEM CO BARTOW FLA				
45 TRIPLE SUPERPHOSPHATE				
1332		44.6		99
9683		45.4		101
ARMOUR AGRI CHEM CO CINN OHIO				
SUPERPHOSPHATE				
0417		20.0		100
1058		19.9		100
1390		20.0		100
7633		20.0		100
45 TRIPLE SUPERPHOSPHATE				
0890		44.0*		98
48 SULFATE OF POTASH				
0386			45.8*	95*
MURIATE OF POTASH				
1197			60.0	100
ARMOUR AGRI CHEM CO CRYSTAL CITY				
AMMONIUM NITRATE				
0412	33.5			100
0448	33.5			100
0888	33.7			101
ARMOUR AGRI CHEM CO JEFFERSONVILLE				
SUPERPHOSPHATE				
0261		19.8		99
0651		19.4*		97*
1190		20.2		101
1407		20.0		100

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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
ARMOUR AGRICULTURAL CHEM CONTINUED	(Percent)	(Percent)	(Percent)	
48 SULFATE OF POTASH				
1131			50.5	105
1189			49.0	102
1580			50.0	104
1613			50.0	104
1668			50.5	105
MURIATE OF POTASH				
1432			57.4*	96*
1451			60.0	100
ARMOUR AGRI CHEM CO NASHVILLE				
SUPERPHOSPHATE				
1203		20.0		100
1505		20.0		100
MURIATE OF POTASH				
9682			61.0	102
ASSOCIATED COOP INC				
AMMONIUM NITRATE				
0551	34.0			101
2003	33.9			101
7501	33.6			100
61 CALCIUM METAPHOSPHATE				
0233		61.0		100
9691		61.0		100
62 CALCIUM METAPHOSPHATE				
1089		62.8		101
9500		62.4		101
9553		62.8		101*
63 CALCIUM METAPHOSPHATE				
0519		632		100
BALE FERTILIZER COMPANY				
SUPERPHOSPHATE				
2023		193*		97*
2393		19.9		100
BLUEGRASS PLANT FOODS INC CYNTHIANA				
SULFATE OF POTASH WITH MAGNESIA				
1355			20.8*	95*
50 SULFATE OF POTASH				
1043			50.0	100
BLUEGRASS PLANT FOODS INC DANVILLE				
SUPERPHOSPHATE				
0291		192*		96*
2545		20.0		100
8929		19.0*		95*
MURIATE OF POTASH				
2232			59.6	99

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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
BURLEY BELT PLANT FOOD WORKS INC	(Percent)	(Percent)	(Percent)	
SUPERPHOSPHATE				
0707		20.0		100
45 TRIPLE SUPERPHOSPHATE				
7923		43.6*		97*
MURIATE OF POTASH				
7919			58.5*	98
CENTRAL FARMERS FERTILIZER CO				
46 TRIPLE SUPERPHOSPHATE				
9692		44.0*		96*
CHILEAN NITRATE SALES CORPORATION				
NITRATE OF SODA				
0503	16.1			101
0573	16.1			101
9830	16.0			100
COMMERCIAL SOLVENTS CORPORATION				
AMMONIUM NITRATE				
0602	33.7			101
COMMONWEALTH FERT CO RUSSELLVILLE				
NITROGEN SOLUTION LIQUID				
2125	28.1*			94*
2531	30.2			101
SUPERPHOSPHATE				
0465		19.5*		98
2112		21.0		105
2223		19.9		100
2453		19.4*		97*
2492		19.6		98
COOPERATIVE FERT SERV BRISTOL VA				
SUPERPHOSPHATE				
0907		20.3		102
COOPERATIVE FERT SERV LOUISVILLE				
SUPERPHOSPHATE				
0664		20.0		100
1180		20.0		100
1422		20.0		100
1438		19.9		100
1537		19.3*		97*
2348		53.7		101
6931		20.0		100
8957		19.4*		97*

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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
COOPERATIVE FERT SERV CONTINUED	(Percent)	(Percent)	(Percent)	
52 SULFATE OF POTASH				
0235			52.0	100
1111			52.0	100
1437			52.0	100
2239			51.3	99
6981			51.2	99
MURIATE OF POTASH				
6934			60.0	100
COOPERATIVE FERT INC MORGANFIELD				
NITROGEN SOLUTION LIQUID				
2411	30.0			100
COOPERATIVE FERT SERV RUSSELLVILLE				
SUPERPHOSPHATE				
0884		18.9*		95*
50 SULFATE OF POTASH				
0885			50.4	101
COOPERATIVE FERT SERV WINCHESTER				
SUPERPHOSPHATE				
0402		20.7		103
0604		20.4		102
1574		20.4		102
50 SULFATE OF POTASH				
0403			50.0	100
0696			50.0	100
1672			50.5	101
3093			51.0	102
7717			50.0	100
MURIATE OF POTASH				
0227			60.0	100
0554			60.0	100
7957			60.0	100
DARLING & COMPANY CAIRO ILLINOIS				
MURIATE OF POTASH				
0538			60.0	100
DAVISON CHEMICAL CO BALTIMORE				
AMMONIUM NITRATE				
0856	33.6			100
DAVISON CHEMICAL CO BARTOW FLORIDA				
46 TRIPLE SUPERPHOSPHATE				
2458		45.6		99

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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 CHEMICAL CO NASHVILLE	(Percent)	(Percent)	(Percent)	
SUPERPHOSPHATE		20.3		102
1704		16.8*		84*
1706 SEE NOTE 8		20.5		103
2002		19.9		100
2265		20.2		101
8889		19.7		98
9963				
50 SULFATE OF POTASH			50.0	100
9964				
DAVISON CHEMICAL COMPANY NEW ALBANY				
SUPERPHOSPHATE		18.2*		91*
0252		19.0*		95*
0459 SEE NOTE 5		19.3*		97*
1369 SEE NOTE 5		18.8*		94*
1435 SEE NOTE 5		17.9*		88*
1693 SEE NOTE 8		19.9		100
2339				
50 SULFATE OF POTASH			50.0	100
1050				
E I DU PONT DE NEMOURS & COMPANY				
UREA	45.2			100
7815				
E TOWN FERTILIZER COMPANY				
NITROGEN SOLUTION LIQUID	30.1			100
2390				
SUPERPHOSPHATE		19.7		98
2093		20.4		102
2305		19.4*		97*
2379				
FEDERAL CHEMICAL CO LOUISVILLE				
SUPERPHOSPHATE		18.5*		93*
7487		19.0*		95*
7712				
50 SULFATE OF POTASH			48.7*	97*
0875			50.5	101
1434			50.0	100
1450				
FEDERAL CHEMICAL CO NASHVILLE				
SUPERPHOSPHATE		20.1		100
0691		19.8		99
1487		20.2		101
2483				
MURIATE OF POTASH			59.0*	98
1486				

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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
GLASGOW FERTILIZER COMPANY	(Percent)	(Percent)	(Percent)	
SUPERPHOSPHATE				
9560		20.1		100
46 TRIPLE SUPERPHOSPHATE				
9561		45.5		99
50 SULFATE OF POTASH				
9709			51.0	102
MURIATE OF POTASH				
9708			60.0	100
W R GRACE & CO NIT PRODUCTS DIV				
ANHYDROUS AMMONIA				
7930	82.0			100
7932	82.0			100
7934	82.0			100
7938	82.0			100
7939	82.0			100
GRO GREEN CHEMICAL COMPANY				
SUPERPHOSPHATE				
6986		20.3		102
HUTSON CHEMICAL COMPANY				
SUPERPHOSPHATE				
1013		20.1		100
9762		20.0		100
50 SULFATE OF POTASH				
1662			50.5	101
INT MIN & CHEM CORP CINCINNATI				
SUPERPHOSPHATE				
7800		20.1		100
INT MIN & CHEM CORP CARLSBAD				
50 SULFATE OF POTASH				
1481			50.0	100
6935			52.0	104
MURIATE OF POTASH				
8878			60.5	101
9554			61.0	102
9681			60.5	101

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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)	
INT MIN & CHEM CORP SKOKIE ILL				
50 SULFATE OF POTASH			51.6	103
0621			50.5	101
7510				
MURIATE OF POTASH			60.0	100
7517				
INT MIN & CHEM CORP SOMERSET				
SUPERPHOSPHATE		20.1		100
9902				
KENTUCKY FERTILIZER WORKS INC				
SUPERPHOSPHATE		19.8		99
0221		19.6		98
0506				
46 TRIPLE SUPERPHOSPHATE		45.1*		98
0715				
50 SULFATE OF POTASH			50.5	101
0223 SEE NOTE 1				
MURIATE OF POTASH			60.0	100
0222				
LAND O NAN WAREHOUSE STURGIS				
MURIATE OF POTASH			60.5	101
2420				
OLIN MATHIESON CHEMICAL CORP				
NITRATE OF SODA	16.2			101
1639				
MID SOUTH CHEMICAL CORPORATION				
ANHYDROUS AMMONIA	82.0			100
7926	82.0			100
7931	82.0			100
7933	82.0			100
7935	82.0			100
7936	82.0			100
7937	82.0			100
7940	82.0			100
7941	82.0			100
7942				

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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
MISSISSIPPI CHEMICAL CORPORATION	(Percent)	(Percent)	(Percent)	
AMMONIUM NITRATE				
0595	33.5			100
0693	33.5			100
7493	33.9			101
MONSANTO CHEMICAL COMPANY				
AMMONIUM NITRATE				
0876	33.7			101
NORTH AMERICAN FERTILIZER CO				
SUPERPHOSPHATE				
1187		19.3*		97*
1459		19.6		98
2103		19.8		99
50 SULFATE OF POTASH				
1440			50.0	100
6905			52.0	104
MURIATE OF POTASH				
1529			57.5*	96*
6904			60.0	100
PRICE CHEMICAL COMPANY LOUISVILLE				
SUPERPHOSPHATE				
0372		19.8		99
50 SULFATE OF POTASH				
0678			50.5	101
ROBIN JONES PHOSPHATE COMPANY				
SUPERPHOSPHATE				
3040		20.4		102
SPENCER CHEMICAL CO HENDERSON				
NITROGEN SOLUTION LIQUID				
0669	29.7			99
3084	30.2			101
ANHYDROUS AMMONIA				
7927	82.0			100
7928	82.0			100
7929	82.0			100

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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
SPENCER CHEMICAL CO KANSAS CITY	(Percent)	(Percent)	(Percent)	
NITROGEN SOLUTION LIQUID				
0794	30.0			100
3086	28.0			100
AMMONIUM NITRATE				
0502	33.5			100
0640	33.7			101
0717	33.8			101
1076	33.6			100
1357	33.5			100
7726	33.6			100
TENNESSEE CORPORATION NEW ALBANY				
SUPERPHOSPHATE				
9609		19.9		98
9631		20.2		101
U S PHOSPHORIC DIV TENNESSEE CORP				
46 TRIPLE SUPERPHOSPHATE				
1100		46.7		102
UNITED STATES STEEL CORPORATION				
AMMONIUM SULFATE				
8917	21.0			100
VALLEY COUNTIES OF KY COOP INC				
54 TRIPLE SUPERPHOSPHATE				
0627		54.0		100
62 CALCIUM METAPHOSPHATE				
0540		62.9		101
63 CALCIUM METAPHOSPHATE				
0628		63.0		100
50 SULFATE OF POTASH				
0629			50.0	100
1482			50.5	101
MURIATE OF POTASH				
7848			60.0	100
VIRGINIA CAROLINA CINCINNATI				
SUPERPHOSPHATE				
0779		20.0		100
2596		19.4*		97*

TABLE 3.— Analyses of Straight Materials, January-June, 1961

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
VIRGINIA CAROLINA RICHMOND VA	(Percent)	(Percent)	(Percent)	
AMMONIUM NITRATE 0853	34.0			101
WEST KY LIQUID FERT BOWLING GREEN				
NITROGEN SOLUTION LIQUID 2310	293*			98
WEST KY LIQUID FERT HOPKINSVILLE				
NITROGEN SOLUTION LIQUID 3060	30.0			100
WEST KY LIQUID FERT GUTHRIE				
NITROGEN SOLUTION LIQUID 3033	295*			92*

TABLE 4 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, Fused Tricalcium Phosphate, January-June 1961

Sample Number	Manufacturer, Brand Name	Phosphoric Acid Available Guar.	Phosphoric Acid Available Found	Phosphoric Acid Total Guar.	Phosphoric Acid Total Found	Percent of Relative Value Found
		(percent)		(percent)		
	RUHM PHOSPHATE & CHEMICAL CO.					
0886	Rock Phosphate	3.0	3.6	30.0	29.5	98
	THOMPSON SALES COMPANY					
2024	Calphos	2.0	3.0	20.0	23.0	115

TABLE 5 - Analyses of Inspection Samples of Bone Meal, Dried Manures, etc. January-June 1961

Sample Number	Manufacturer, Brand	Nitrogen	Total Phosphoric Acid	Potash	Percent of Relative Value Found
		(percent)	(percent)	(percent)	
	A. H. HOFFMAN, INC.				
0470	3-13-0 Bone Meal	6.3	20.2	--	184
	AMERICAN AGRIC. CHEM. CO.				
0317	7-0-0 Agrinite	7.1	--	--	101
7682	7-0-0 Agrinite	7.0	--	--	100
8980	7-0-0 Agrinite	7.2	--	--	103

TABLE 6 - 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 Co. Cincinnati, Ohio	7616	5-10-15S	0.6
	7632	5-10-15S	1.5
	7647	6- 6-18S	0.3
	1108	6- 8- 6S	0.8
	6953	6- 8- 6S	1.9
	8904	6- 8- 6S	0.4
American Agricultural Chemical Co. Nashville, Tennessee	1518	3- 9- 6S	0.3
	8983	3- 9- 6S	0.9
	9565	3- 9- 6S	0.4
	2150	4- 9- 3S with 0.2 Aldrin	0.6
	1517	4-12- 8 3M 5S	1.0
	2292	4-12- 8 3M 5S	0.9
	2508	4-12- 8S	0.5
	1516	5-10-15S	4.0
Armour Agricultural Chemical Co. Atlanta, Georgia	2005	5-10- 5S	0.4
	7739	5-10- 5S	5.2
Armour Agricultural Chemical Co. Cincinnati, Ohio	1068	6- 6-18S	2.0
	2542	6- 6-18S	0.5
	0598	6- 8- 6S	1.0
	7805	6- 8- 6S	0.5
	7821	6- 8- 6S	0.8
Armour Agricultural Chemical Co. Jeffersonville, Indiana	2097	5-10- 5S with 0.18 Dieldrin	2.8
	0232	5-10-15S	0.6
	1045	5-10-15S	0.4
	1266	5-10-15S	0.9
	6978	5-10-15S	0.7
	9941	5-10-15S	0.6
	1184	5-10-15S with 0.15 Aldrin	0.4
	1441	5-10-15S with 0.15 Aldrin	0.3
	1427	6-12-12S	5.8
	2567	6-12-12S	2.3
	1132	6-12-18S	3.2
	6947	6-12-18S	0.7
	9844	10-10-20S	2.2
Armour Agricultural Chemical Co. Nashville, Tennessee	9733	5-10-10S	1.4
	1507	5-10-15S	0.3
Bartlett & O'Bryan Fertilizer Co. Owensboro, Kentucky	7749	5-10-15S	1.5
Bluegrass Plant Foods, Inc. Cynthiana, Kentucky	7898	6- 6-18S	1.3
Bluegrass Plant Foods, Inc. Danville, Kentucky	9915	6- 6-18S with 0.15 Aldrin	0.7
	2155	6- 8- 6S	0.3
	1349	6-12-18S	0.5
	2159	6-12-18S	1.4

(Continued)

TABLE 6 - (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
Burley Belt Plant Food Works, Inc. Lexington, Kentucky	7924	5-10-15S	0.4
Cooperative Fertilizer Service Louisville, Kentucky	9506	6- 8- 6S	0.4
Darling and Company Cairo, Illinois	0614	5-10-15S	1.3
	0617	5-10-15S	0.6
	1313	5-10-15S	8.3
Davison Division W. R. Grace & Co. Nashville, Tennessee	2127	5-10-15S	0.5
Davison Division W. R. Grace & Co. New Albany, Indiana	1367	5-10-15S	0.3
	1198	6- 6-18S	0.9
Farmers Fertilizer Company Smiths Grove, Kentucky	2514	5-10-15S	1.6
Federal Chemical Company Humboldt, Tennessee	0633	5-10-15S	2.2
	0796	5-10-15S	1.6
	0810	5-10-15S	1.1
	1302	5-10-15S	0.3
	1336	5-10-15S	3.3
	1665	5-10-15S	0.4
	0812	5-10-15S with 0.15 Aldrin	1.9
Federal Chemical Company Louisville, Kentucky	1030	5-10-15S	0.5
	1532	6- 6-18S	3.2
	1385	9-10-15S	0.5
Federal Chemical Company Nashville, Tennessee	1221	5-10-15S	0.4
	7502	5-10-15S	0.6
	9412	5-10-15S	0.9
	0689	6- 8- 6S	0.3
	7571	9-10-15S	0.6
	9656	9-10-15S	0.5
Hutson Chemical Company Murray, Kentucky	0820	5-10-15S	0.6
Int. Minerals & Chemical Corp. Cincinnati, Ohio	0163	4-16- 4S	1.0
	1090	4-16- 4S	1.0
	7700	4-16- 4S	1.6
	1092	5-10-15S	0.6
	9917	6- 6-18S with 0.57 Aldrin	0.7
	7825	6- 8- 6S	0.3
Int. Minerals & Chemical Corp. Clarksville, Tennessee	9749	5-10-15S	0.3
	9744	10-10-15S	0.4
Int. Minerals & Chemical Corp. Somerset, Kentucky	9546	5-10-15S	0.5
	9538	5-10-15S with 0.20 Aldrin	1.0

(Continued)

TABLE 6 - (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
Kentucky Fertilizer Works	0496	8-10-16S	1.2
Winchester, Kentucky	0223	50% Sul. of Potash	2.3
North American Fertilizer Co.	0231	4-16- 4S	0.7
Louisville, Kentucky	0897	4-16- 4S	2.7
	9615	4-16- 4S	3.0
	1046	5-10-15S	0.4
	9913	5-10-15S	0.3
	7988	6- 6-18S	0.3
	1115	6- 8- 6S	All Muriate
Price Chemical Company, Inc.	0193	4-16- 4S	0.7
Louisville, Kentucky	0194	5-10-15S	0.4
Price Chemical Company, Inc.	1093	4-16- 4S	0.3
Norfolk, Virginia	6967	4-16- 4S	0.6
	6994	4-16- 4S	0.5
	8954	4-16- 4S	0.3
	7693	4-16- 4S with 0.31 Aldrin	0.7
	2071	5-10-15S	0.7
Tennessee Corporation	1060	4-16- 4S	0.5
Cincinnati, Ohio	1552	5-10-15S	1.3
Tennessee Corporation	2038	4-16- 4S	0.3
New Albany, Indiana	2096	4-16- 4S	0.3
Tri-State Chemical Company	7757	4-16- 4S	1.8
Henderson, Kentucky	1728	5-10-15S	1.8
	7869	5-10-15S	0.3
	7882	5-10-15S	1.9
Virginia-Carolina Chemical Corp.	3070	5-10-10S	1.1
Hopkinsville, Kentucky	9758	5-10-10S	0.4
	9674	5-10-15S	1.3
	9676	6-12-18S	0.3
Virginia-Carolina Chemical Corp. Mt. Pleasant, Tennessee	2494	3-12-12 3M 9S	1.1
Virginia-Carolina Chemical Corp. Richmond, Virginia	1387	6-12-18S	0.5

TABLE 7 - Results of analyses of Boron in fertilizers reported in Tables 1 and 2

COMPANY	Sample Number	% Guaranteed	% Found
American Agricultural Chemical Co. Cincinnati, Ohio	7527	0.57	0.52
American Agricultural Chemical Co. London, Kentucky	1448	0.57	0.43
	2407	0.57	0.58
	9569	0.57	0.49
	9985	0.57	0.58
	9986	0.34	0.28
American Agricultural Chemical Co. Nashville, Tennessee	2016	0.34	0.26
	2154	0.34	0.26
	2523	0.34	0.29
	9573	0.57	0.22
Armour Agricultural Chemical Co. Cincinnati, Ohio	0736	0.57	0.63
	7674	0.57	0.48
Armour Agricultural Chemical Co. Jeffersonville, Indiana	0645	0.57	0.47
	1262	0.57	0.58
	1377	0.57	0.47
Armour Agricultural Chemical Co. Nashville, Tennessee	2301	0.36	0.57
	9687	0.34	0.42
	9727	0.57	0.64
L. D. Bale & Company Horse Cave, Kentucky	2303	0.56	0.65
Bluegrass Plant Foods, Inc. Cynthiana, Kentucky	1040	0.57	0.46
Bluegrass Plant Foods, Inc. Danville, Kentucky	1345	0.34	0.24
	2477	0.57	0.59
	2550	0.57	0.57
Cooperative Fertilizer Service Louisville, Kentucky	1035	0.45	0.41
	1696	0.45	0.51
	1733	0.45	0.54
	2401	0.45	0.48
	2604	0.45	0.48
	9508	0.45	0.48
Cooperative Fertilizer Service Winchester, Kentucky	0593	0.45	0.48
	0603	0.45	0.47
	4034	0.45	0.51
	7533	0.45	0.56
	9784	0.45	0.49
Davison Chem. Co. Div. W.R. Grace & Co. Nashville, Tennessee	2147	0.23	0.19
	8890	0.22	0.26
Davison Chem. Co. Div. W.R. Grace & Co. New Albany, Indiana	1368	0.57	0.43
	2108	0.57	0.74
Federal Chemical Company Humboldt, Tennessee	1649	0.56	0.63

(Continued)

TABLE 7 - (Cont'd.) Results of analyses of Boron in fertilizers reported in Tables 1 and 2

COMPANY	Sample Number	% Guaranteed	% Found
Federal Chemical Company	1699	0.56	0.40
Nashville, Tennessee	9655	0.56	0.41
Int. Minerals & Chemical Corp.	1463	0.57	0.49
Cincinnati, Ohio	7856	0.85	0.76
Int. Minerals & Chemical Corp.	2035	0.57	0.58
Somerset, Kentucky	3091	0.57	0.29
	9843	0.57	0.80
North American Fertilizer Co.	1125	0.56	0.45
Louisville, Kentucky	1137	0.56	0.48
	2104	0.56	0.47
	2395	0.56	0.52
	2570	0.56	0.45
	4017	0.56	0.51
	6974	0.56	0.55
	9914	0.57	0.31
Virginia-Carolina Chemical Corp.	0772	0.57	0.50
Cincinnati, Ohio	8976	0.57	0.38
	9449	0.57	0.44
Virginia-Carolina Chemical Corp.	2657	0.34	0.67
Hopkinsville, Kentucky	3077	0.34	0.27
	3078	0.34	0.31
	9442	0.34	0.20
	9699	0.34	0.30
	9875	0.34	0.32
Virginia-Carolina Chemical Corp.	8885	0.34	0.44
Richmond, Virginia			

TABLE 8 - Results of analyses of Insecticides contained in fertilizers shown in Table 1

COMPANY	Sample Number	Insecticide	% Guaranteed	% Found
American Agricultural Chemical Co. Cincinnati, Ohio	0240	Aldrin	0.15	0.11
	0241	Aldrin	0.40	0.51
	0283	Aldrin	0.30	0.25
	0732	Aldrin	0.15	0.18
American Agricultural Chemical Co. London, Kentucky	0284	Aldrin	0.30	0.30
	0285	Aldrin	0.30	0.22
	1052	Dieldrin	0.31	0.23
	1053	Aldrin	0.30	0.39
	1394	Aldrin	0.15	0.15
	1568	Aldrin	0.15	0.16
	8970	Aldrin	0.15	0.24
	9495	Dieldrin	0.37	0.37
	9523	Aldrin	0.15	0.17
	9568	Aldrin	0.30	0.36
	9639	Aldrin	0.15	0.14
	9640	Aldrin	0.15	0.15
American Agricultural Chemical Co. Nashville, Tennessee	2150	Aldrin	0.20	0.15
Armour Agricultural Chemical Co. Cincinnati, Ohio	0201	Dieldrin	0.18	0.03
	0230	Dieldrin	0.18	0.08
	7671	Aldrin	0.15	0.15
	8911	Dieldrin	0.18	0.15
Armour Agricultural Chemical Co. Jeffersonville, Indiana	1184	Aldrin	0.15 Aldrin	0.07 Heptachlor
	1441	Aldrin	0.15	None
	2039	Dieldrin	0.18	0.18
	2097	Dieldrin	0.18	0.02
	2457	Aldrin	0.50	0.45
Armour Agricultural Chemical Co. Nashville, Tennessee	1310	Aldrin	0.14	0.20
	1330	Aldrin	0.14	0.15
	1660	Aldrin	0.15	0.18
	2283	Aldrin	0.15	0.15
	2501	Aldrin	0.15	0.14
	9480	Dieldrin	0.37	0.08
	9537	Dieldrin	0.18	0.19
	9790	Aldrin	0.25	0.24
Bluegrass Plant Foods, Inc. Cynthiana, Kentucky	1250	Aldrin	0.30	0.31
	1251	Aldrin	0.30	0.32
	7542	Aldrin	0.35	0.25
Bluegrass Plant Foods, Inc. Danville, Kentucky	0286	Aldrin	0.31	0.28
	0713	Aldrin	0.50	0.50
	0714	Aldrin	0.50	0.52
	2060	Aldrin	0.18	0.18
	2245	Aldrin	0.20	0.16
	2250	Aldrin	0.20	0.22
	2588	Aldrin	0.20	0.19
	8931	Aldrin	0.31	0.25
	8932	Aldrin	0.15	0.12
	9915	Aldrin	0.15	0.17

(Continued)

TABLE 8 - (Cont'd.) Results of analyses of Insecticides contained in fertilizers shown in Table 1.

COMPANY	Sample Number	Insecticide	% Guaranteed	% Found
Burley Belt Plant Food Works, Inc. Lexington, Kentucky	0358	Aldrin	0.31	0.34
	7544	Aldrin	0.31	0.37
	7613	Aldrin	0.31	0.34
	7645	Aldrin	0.31	0.29
Commonwealth Fertilizer Company Russellville, Kentucky	2488	Aldrin	0.50	0.44
Cooperative Fertilizer Service Louisville, Kentucky	0175	Aldrin	0.31	0.31
	0228	Aldrin	0.31	0.27
	0399	Aldrin	0.15	0.15
	0722	Aldrin	0.50	0.47
	0731	Aldrin	0.15	0.15
	1033	Aldrin	0.31	0.30
	1056	Aldrin	0.31	0.33
	1139	Heptachlor	0.40	0.30
	7532	Aldrin	0.31	0.34
	7659	Aldrin	0.15	0.16
	8873	Aldrin	0.31	0.34
	9623	Aldrin	0.31	0.34
Federal Chemical Company Humboldt, Tennessee	0812	Aldrin	0.15	0.15
Federal Chemical Company Louisville, Kentucky	0589	Aldrin	0.50	0.49
	1029	Aldrin	0.18	0.13
	1072	Aldrin	0.18	0.18
	1175	Aldrin	0.50	0.24
	6962	Aldrin	0.18	0.16
Federal Chemical Company Nashville, Tennessee	9654	Aldrin	0.18	0.14
Hutson Chemical Company Murray, Kentucky	0625	Aldrin	1.00	0.87
	1664	Aldrin	1.00	1.00
Int. Minerals & Chemical Corp. Cincinnati, Ohio	7860	Aldrin	0.15	0.13
	9917	Aldrin	0.57	0.45
Int. Minerals & Chemical Corp. Somerset, Kentucky	2162	Aldrin	0.20	0.12
	2256	Aldrin	0.20	0.13
	2257	Aldrin	0.20	0.18
	7967	Aldrin	0.20	0.22
	9801	Aldrin	0.50	0.08
Kentucky Fertilizer Works Winchester, Kentucky	0212	Aldrin	0.31	0.21
	0276	Aldrin	0.31	0.23
	0741	Aldrin	0.18	0.18
Louisville Fertilizer Company Nashville, Tennessee	0826	Aldrin	0.25	0.10
Ohio Valley Fertilizer, Inc. Maysville, Kentucky	7538	Aldrin	0.31	0.28
	7581	Aldrin	0.31	0.44
Smith-Douglas Company, Inc. Norfolk, Virginia	0292	Dieldrin	0.34	0.38

(Continued)

TABLE 8 - (Cont'd.) Results of analyses of Insecticides contained in fertilizers shown in Table 1.

COMPANY	Sample Number	Insecticide	% Guaranteed	% Found
Tennessee Corporation New Albany, Indiana	3005	Aldrin	0.47	0.43
Virginia-Carolina Chemical Corp. Cincinnati, Ohio	0770	Aldrin	0.16	0.10
	0771	Aldrin	0.15	0.07
Virginia-Carolina Chemical Corp. Hopkinsville, Kentucky	3083	Aldrin	0.30	0.09