Regulatory Bulletin 175 **Part 1**

ANALYSES OF OFFICIAL FERTILIZER SAMPLES

by the

FEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT STATION

SEMI-ANNUAL REPORT
SPRING SEASON
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FEED AND FERTILIZER DEPARTMENT

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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 refund based upon this analysis.

Note 6. Product re-labeled and sold according to laboratory finding.

Note 7. Purchaser could not be determined; refund based upon the analysis, sent to charity.

Note 8. Returned to plant.

Note 9. This sample not included in average. See "Wild" samples on page 17.

This bulletin contains results of analyses of 3,855 official samples of commercial fertilizer made during the period January 1 through June 30, 1962. 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 18 through 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 or tag 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 overrun 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

American Cyanamid Company, Agr. Div.
P. O. Box 400
Princeton, New Jersey

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

Armour Agricultural Chemical Co.
350 Hurt Building
Atlanta, Georgia

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

Bale Fertilizer Company
Horse Cave, Kentucky

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

Blackstone Guano, Inc.
Blackstone, Virginia

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

Carlisle County Fertilizer Co.
Bardwell, Kentucky

Cecil Farm Supply
Star Route
Owensboro, Kentucky

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

Coastal Chemical Company
Yazoo City, Mississippi

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

Elanco Products Company
Division of Eli Lilly & Company
740 Alabama Street
Indianapolis 6, Indiana

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., Davison Chem. Div.
101 N. Charles Street
Baltimore, Maryland

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

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

Hillenmeyer Nurseries
Georgetown Pike
Lexington, Kentucky

Hutson Chemical Company
Railroad Avenue
Murray, Kentucky

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

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

Continued from previous page

Land-O-Nan Warehouse
Sturgis, Kentucky

Lofts Pedigreed Seed Company
Chimney Rock Road
Bound Brook, New Jersey

Mid-South Chemical Company
1222 Riverside Boulevard
Memphis, Tennessee

Mississippi Chemical Company
Yazoo, Mississippi

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

North American Fertilizer Company
Preston Street at Bergman
Louisville, Kentucky

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

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

Phillips Petroleum Company
Adams Building
Bortlesville, Oklahoma

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

F. S. Royster Guano Company
Price Chemical Division
P. O. Drawer 1940
Norfolk, Virginia

Sadler Fertilizer Company
Union City, Tennessee

Satterwhite, Inc.
Box 143
Paris, Kentucky

O. M. Scott & Sons Company
Marysville, Ohio

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

Sohio Chemical Company
P. O. Box 628
Lima, Ohio

Southern States Clark Co. Coop.
Winchester, Kentucky

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

The Stadler Fertilizer Company
1010 Dennison Avenue
Cleveland, Ohio

Swift and Company
Agricultural Chemical Division
National Stock Yards, Illinois

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

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

Tennessee Valley Authority
Sheffield, Alabama

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

U. S. Phosphoric Products Division
Tennessee Corporation
Tampa, Florida

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

Victor Chemical Company
155 North Wacker Drive
Chicago 6, Illinois

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

West Kentucky Liquid Fertilizer Co.
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 8 through 14. 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

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1962

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 Agri. Chemical Co.	394	226	57	1327	1227	92
Cincinnati, Ohio	148	92	62	503	466	93
Danville, Illinois	2	0	--	6	5	--
London, Kentucky	180	93	52	621	570	82
Nashville, Tennessee	21	11	52	70	64	91
Nat'l. Stock Yards, Illinois	3	2	--	8	7	--
New York, New York	11	8	73	33	30	91
Seymour, Indiana	29	20	69	86	85	99
Armour Agri. Chemical Co.	597	335	56	1987	1752	88
Atlanta, Georgia	17	10	59	60	54	90
Cincinnati, Ohio	196	119	61	653	604	92
E. St. Louis, Illinois	10	3	30	30	22	73
Jeffersonville, Indiana	173	101	58	595	521	88
Memphis, Tennessee	2	1	--	6	4	--
Nashville, Tennessee	187	94	50	606	514	85
Tennessee Chemical Co.	12	7	58	37	33	89
Associated Cooperatives, Inc.	2	2	--	4	4	--
Bale Fertilizer Company	37	10	27	118	84	71
Bartlett & O'Bryan Fertilizer Co.	17	6	35	54	43	80
Blackstone Guano Co., Inc. see: Va.-Carolina Chem. Co.						
Bluegrass Plant Foods, Inc.	152	66	43	523	458	88
Cynthiana, Kentucky	46	20	43	167	150	90
Danville, Kentucky	106	46	43	356	308	87
Bunton Seed Company	2	0	--	6	4	--
Burley Belt Plant Food Works	30	8	27	107	88	82
California Chemical Co.	8	6	75	23	22	96
Carlisle County Fertilizer Co.	4	1	--	12	10	--
Cecil Farm Supply Co.	12	3	25	38	23	61
Chemical Formulators, Inc.	1	0	--	3	2	--
Chilean Nitrate Sales Corp.	2	2	--	5	5	--
Coastal Chemical Corp.	1	0	--	3	3	--
Commonwealth Fertilizer Co.	54	23	43	168	137	82

(Continued)

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1962

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*
Cooperative Fertilizer Service	460	299	65	1496	1367	91
Baltimore, Maryland	1	1	--	2	2	--
Bristol, Virginia	11	11	100	32	32	100
Louisville, Kentucky	152	131	86	523	510	98
Russellville, Kentucky	158	63	40	490	413	84
Winchester, Kentucky	138	93	67	449	410	91
Darling and Company	32	12	38	99	82	83
Elanco Products Company	1	0	--	3	2	--
E'town Fertilizer Company	45	29	64	135	121	90
Farmers Fertilizer Company	8	0	0	31	22	71
Federal Chemical Company	470	156	33	1524	1189	78
Danville, Illinois	1	1	--	3	3	--
Humboldt, Tennessee	64	14	22	207	132	64
Louisville, Kentucky	277	95	34	926	748	81
Nashville, Tennessee	128	46	36	388	306	79
Glasgow Fertilizer Company	15	8	53	50	45	90
Gro-Green Chemical Company	43	13	30	154	119	77
W. R. Grace & Company Davison Chemical Division	205	72	35	653	520	80
Nashville, Tennessee	108	26	24	338	250	74
New Albany, Indiana	97	46	47	315	270	86
Hillenmeyer Nurseries	2	1	--	6	5	--
Hutson Chemical Company	31	6	19	94	68	72
International Min. & Chem. Corp.	162	46	28	539	426	79
Cincinnati, Ohio	70	25	36	247	201	81
Clarksville, Tennessee	36	8	22	116	91	78
Greenville, Tennessee	9	5	56	27	27	100
Skokie, Illinois	1	1	--	2	2	--
Somerset, Kentucky	46	7	15	147	105	71
Kentucky Fertilizer Works	92	40	43	318	273	86
Land-O-Nan Warehouse	23	7	30	60	41	68
Lofts Pedigreed Seed Co.	1	0	--	3	2	--

(Continued)

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1962

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*
North American Fertilizer Co.	90	34	38	309	265	86
Ohio Valley Fertilizer, Inc.	53	20	38	192	168	88
Olin Mathieson Chemical Corp.	6	1	17	18	12	67
Houston, Texas	3	1	--	9	8	--
Little Rock, Arkansas	3	0	--	9	4	--
Robin Jones Phosphate Co.	15	3	20	44	30	68
F. S. Royster Guano Company Price Chemical Division	131	52	40	446	384	86
Sadler Fertilizer Company	11	3	27	32	21	66
Satterwhite, Inc.	3	1	--	9	6	--
O. M. Scott & Sons Company	3	3	--	9	9	--
Smith Douglass Company	4	3	--	12	11	--
Spencer Chemical Company	1	0	--	2	1	--
Stadler Fertilizer Company	2	0	--	6	5	--
Swift & Company	22	6	27	64	50	78
Chicago, Illinois	2	0	--	5	3	--
Nat'l. Stock Yards, Illinois	19	5	26	56	44	79
South Norfolk, Virginia	1	1	--	3	3	--
Tennessee Chemical Company see: Armour Ag. Chem. Co.						
Tennessee Corporation	57	32	56	188	164	87
Cincinnati, Ohio	9	5	56	29	26	90
New Albany, Indiana	47	26	55	157	136	87
U. S. Phosphoric Division	1	1	--	2	2	--
Tri-State Chemical Company	27	6	22	85	66	78
Valley Counties of Ky. Coop.	2	0	--	6	3	--
Victor Chemical Works	2	1	--	6	5	--
Virginia-Carolina Chem. Corp.	183	94	51	595	520	87
Blackstone Guano Co.	1	0	--	3	2	--
Cincinnati, Ohio	71	34	48	238	209	88

(Continued)

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1962

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*
Virginia-Carolina Chem. Corp. (continued)						
Hopkinsville, Kentucky	61	39	64	195	175	90
Memphis, Tennessee	12	7	58	34	32	94
Mt. Pleasant, Tennessee	34	14	41	111	90	81
Richmond, Virginia	4	0	--	14	12	--
MIXED LIQUID FERTILIZER						
The American Liquid Fert. Co.	1	1	--	3	3	--
Bartlett & O'Bryan Fert. Co.	5	0	0	15	13	87
Commonwealth Fertilizer Co.	22	8	36	66	54	82
J. H. Erbrich Products Co.	1	0	--	4	1	--
Farmers Supply & Produce Co.	1	0	--	3	2	--
Land-O-Nan Warehouse	10	6	60	30	28	93
S. S. Clark Cooperative	1	0	--	3	2	--
West Ky. Liquid Fertilizer Co.	57	31	54	147	126	86
Bowling Green, Kentucky	16	5	31	34	23	68
Guthrie, Kentucky	15	7	47	39	33	85
Hopkinsville, Kentucky	26	19	73	74	70	95
STRAIGHT MATERIALS						
Allied Chem. Corp., Nit. Div.	3	1	--	3	3	--
Hopewell, Virginia	2	1	--	2	2	--
Memphis, Tennessee	1	0	--	1	1	--
American Agri. Chemical Co.	11	11	100	12	12	100
London, Kentucky	5	5	100	5	5	100
New York, New York	6	6	100	7	7	100
American Cyanamid Company	1	1	--	1	1	--
Armour Agri. Chemical Co.	44	36	82	51	44	86
Atlanta, Georgia	4	4	--	5	5	--
Bartow, Florida	3	2	--	3	3	--
Cherokee, Alabama	3	3	--	3	3	--
Cincinnati, Ohio	8	5	63	8	5	63
Crystal City, Missouri	2	2	--	2	2	--
Jeffersonville, Indiana	13	10	77	18	15	83
Nashville, Tennessee	10	9	90	11	10	91
Tennessee Chemical Co.	1	1	--	1	1	--

(Continued)

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1962

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*
Associated Cooperatives, Inc.	3	2	--	3	3	--
Bale Fertilizer Company	2	2	--	3	3	--
Bluegrass Plant Foods, Inc.	12	2	17	15	8	53
Cynthiana, Kentucky	4	1	--	4	2	--
Danville, Kentucky	8	1	13	11	6	55
Burley Belt Plant Food Works	2	2	--	2	2	--
California Chemical Company	2	2	--	2	2	--
Central Farmers Fertilizer Co.	1	0	--	1	0	--
Chilean Nitrate Sales Corp.	1	1	--	1	1	--
Commercial Solvents Corp.	1	0	--	1	1	--
Commonwealth Fertilizer Co.	5	2	40	6	6	100
Cooperative Fertilizer Service	30	28	93	38	38	100
Bristol, Virginia	1	1	--	1	1	--
Louisville, Kentucky	11	10	91	15	15	100
Russellville, Kentucky	5	4	80	5	5	100
Winchester, Kentucky	13	13	100	17	17	100
Darling and Company	1	1	--	1	1	--
E'town Fertilizer Company	2	1	--	2	1	--
Federal Chemical Company	14	6	43	16	11	69
Humboldt, Tennessee	1	0	--	1	0	--
Louisville, Kentucky	13	6	46	15	11	73
Gro-Green Chemical Company	2	2	--	4	4	--
W. R. Grace & Co., Nit. Prod. Div.	8	8	100	8	8	100
W. R. Grace & Company Davison Chemical Division	13	7	54	17	14	82
Bartow, Florida	2	0	--	2	1	--
Nashville, Tennessee	5	5	100	6	6	100
New Albany, Indiana	6	2	33	9	7	78
Hutson Chemical Company	7	4	57	10	9	90

(Continued)

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1962

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*
International Min. & Chem. Corp.	11	11	100	16	16	100
Cincinnati, Ohio	1	1	--	1	1	--
Skokie, Illinois	8	8	100	13	13	100
Somerset, Kentucky	2	2	--	2	2	--
Kentucky Fertilizer Works	3	2	--	5	4	--
Land-O-Nan Warehouse	2	2	--	2	2	--
Morganfield, Kentucky	1	1	--	1	1	--
Sturgis, Kentucky	1	1	--	1	1	--
Mid-South Chemical Company	11	11	100	11	11	100
Mississippi Chemical Corp.	1	1	--	1	1	100
Monsanto Chemical Company	3	2	--	3	3	--
North American Fertilizer Co.	6	4	67	6	5	83
Olin Mathieson Chemical Corp.	1	1	--	1	1	--
Phillips Petroleum Company	1	1	--	1	1	--
F. S. Royster Guano Company Price Chemical Division	1	0	--	1	1	--
Sohio Chemical Company	1	1	--	1	1	--
Spencer Chemical Company	9	9	100	9	9	100
Henderson, Kentucky	6	6	100	6	6	100
Kansas City, Missouri	3	3	--	3	3	--
Tennessee Chemical Company see: Armour Ag. Chem. Co.						
Tennessee Corporation	7	4	57	7	6	86
Cincinnati, Ohio	3	1	--	3	2	--
New Albany, Indiana	3	2	--	3	3	--
Tampa, Florida	1	1	--	1	1	--
Tri-State Chemical Company	2	2	--	2	2	--
Valley Counties of Ky. Coop.	8	8	100	8	8	100

(Continued)

Standing of Manufacturers, Based on Samples Equal to Guaranty in All Respects and Analyses within Tolerance - Spring Season 1962

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*
Virginia-Carolina Chemical Corp.	8	5	63	8	6	75
Cincinnati, Ohio	3	3	--	3	3	--
Hopkinsville, Kentucky	2	1	--	2	1	--
Memphis, Tennessee	1	0	--	1	0	--
Nichols, Florida	1	0	--	1	1	--
Richmond, Virginia	1	1	--	1	1	--
West Ky. Liquid Fertilizer Co.	2	2	--	2	2	--
TOTAL	3,855	1,867	48	12,118	10,344	85
Mixed Dry	3,515	1,636	47	11,566	9,864	84
Mixed Liquid	98	46	47	271	229	85
Straight Materials	242	185	76	281	251	89

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

**See "Tolerance Scale" on Page 7.

VARIATION IN FERTILIZER ANALYSES

Variation is a basic trait in the analysis of fertilizer. The guarantee as printed on fertilizer bags cannot be accepted as an exact statement of the chemical contents. Rather, it tells what the manufacturer was aiming for and what the purchaser hopes to buy. This is true of all fertilizer. There is 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 they 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.

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 Tables 1 and 2, 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	29.09
		55.3	306.49

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

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

$$\text{Coefficient of variation} = \frac{0.275 \times 100}{5.53} = 4.\ 7 - 5.0\%$$

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

"WILD" SAMPLES

No matter how much care is exerted in a fertilizer plant, an occasional "wild" sample may appear. Such samples are caused by unusual circumstances such as putting the wrong fertilizer in bags labeled for another grade or large errors in mixing or manipulation in the factory that cannot be said to represent usual procedure.

Computations that included such samples would only throw the coefficient of variation as well as the average analysis completely out of line. They are judged to be so abnormal they have not been included in these statistical determinations. There were only 57 such samples in the mixed fertilizer samples reported. Such samples are indicated in the table as "See Note 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 $\pm$ 10% of the average sample value.
   b. The variation of all the sample values is such that the samples more than $\pm$ 10% appear to fit a normal distribution pattern.
2. Throw out all of a small group of less than (5) samples if variability is so great that no clear pattern is apparent.
3. Throw out individual samples whose ratio of ingredients differs strongly from the balance of samples of the grade. These may include samples:
   a. Whose ratio strongly suggests an entirely different grade of fertilizer.
   b. Two or more of whose ingredients are 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 or 1620 computers at no charge.

INFORMATION GIVEN IN TABLES

The coefficients of variation for each grade from each plant are indicated in Tables 1 and 2. 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 18 and 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 Manufacturers, Kentucky, Spring Season, 1962*

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 Agr. Chemical Co.	100.8	101.0	100.7	3.4	2.3	3.2
Cincinnati, Ohio	102.0	101.4	100.9	4.2	2.6	2.9
London, Kentucky	100.0	100.1	99.8	2.3	2.4	3.5
Nashville, Tennessee	98.9	101.0	102.2	3.2	1.6	2.4
New York, New York	102.2	103.3	105.1	6.1	3.0	4.9
Seymour, Indiana	100.9	103.2	102.2	2.5	1.7	2.6
Armour Agr. Chemical Co.	101.3	102.5	102.0	4.4	3.9	5.5
Atlanta, Georgia	101.4	103.9	111.1	4.4	3.4	7.1
Cincinnati, Ohio	100.9	101.4	100.8	3.2	3.8	3.2
Jeffersonville, Indiana	102.3	104.1	102.0	4.5	4.2	6.0
Nashville, Tennessee	100.9	102.0	102.3	5.5	3.9	6.9
Bale Fertilizer Company	96.9	99.7	103.5	7.4	7.3	7.2
Bartlett & O'Bryan Fertilizer Co.	100.5	100.8	102.4	6.6	3.6	3.9
Bluegrass Plant Foods, Inc.	100.6	100.1	103.0	3.3	4.2	4.8
Cynthiana, Kentucky	99.8	98.9	104.8	3.1	4.3	3.7
Danville, Kentucky	101.0	100.7	102.2	3.5	4.2	5.6
Burley Belt Plant Food Works, Inc.	99.5	99.0	101.8	3.6	1.9	4.3
Commonwealth Fertilizer Co.	100.7	99.5	104.2	3.1	4.5	6.7
Cooperative Fertilizer Service, Inc.	101.9	101.1	101.8	3.0	2.7	3.4
Bristol, Virginia	101.3	103.4	101.9	2.3	1.1	1.9
Louisville, Kentucky	102.8	102.2	102.1	2.1	2.0	2.9
Russellville, Kentucky	101.0	100.1	101.5	4.5	3.1	4.6
Winchester, Kentucky	102.2	100.9	101.8	2.5	3.5	3.1
Darling & Company	102.6	102.7	101.6	4.6	2.9	2.4
E'town Fertilizer Company	108.3	101.6	104.8	4.0	4.2	7.0
Federal Chemical Company	98.1	101.5	102.4	6.3	4.2	6.5
Humboldt, Tennessee	95.4	99.4	99.7	8.8	4.5	6.2
Louisville, Kentucky	99.5	102.3	102.1	5.5	4.4	6.8
Nashville, Tennessee	96.3	100.9	104.5	5.8	3.7	6.2
Glasgow Fertilizer Company	103.8	101.2	102.4	2.6	3.4	6.0
W. R. Grace & Company Davison Chemical Division	98.3	100.2	101.7	5.7	3.3	4.6
Nashville, Tennessee	96.9	99.4	100.6	6.6	3.6	4.6
New Albany, Indiana	99.8	101.2	103.0	4.7	2.9	4.5

Average Percentage of Guarantee and Coefficients of Variation for all Samples by Fertilizer Manufacturers, Kentucky, Spring Season, 1962*

Mixed Dry Fertilizer

COMPANY AND NAME	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)
Gro-Green Chemical Co.	98.7	102.5	98.7	4.8	5.5	3.8
Hutson Chemical Company	97.2	105.4	97.5	5.4	3.2	4.9
International Mineral & Chem. Corp.	98.6	99.3	102.1	4.0	3.6	3.7
Cincinnati, Ohio	98.5	99.7	103.9	4.6	3.5	4.6
Clarksville, Tennessee	100.1	100.0	100.6	2.7	3.7	3.3
Somerset, Kentucky	97.6	98.3	100.6	4.3	3.7	3.0
Kentucky Fertilizer Works	100.1	100.3	100.6	2.6	3.9	4.1
Land-O-Nan Warehouse	92.4	102.3	97.6	10.9	9.7	6.6
North American Fertilizer Co.	100.2	98.6	102.2	3.7	3.8	4.8
Ohio Valley Fertilizer, Inc.	97.2	101.0	103.3	5.8	4.0	5.1
Robin Jones Phosphate Company	99.8	106.7	92.8	23.6	5.1	5.4
F. S. Royster Guano Company						
Price Chemical Company	99.7	101.9	102.2	2.6	4.1	5.3
Swift & Co., Nat'l. Stockyards, Ill.	100.4	100.0	100.0	3.6	3.7	3.9
Tennessee Chemical Company	100.9	100.3	106.2	4.0	1.5	3.0
Tennessee Corp., New Albany, Ind.	103.4	100.6	103.5	3.1	2.8	5.4
Tri-State Chemical Company	99.7	100.7	102.8	3.4	5.2	5.0
Virginia-Carolina Chemical Corp.	101.0	102.4	101.1	3.9	3.3	4.3
Cincinnati, Ohio	101.0	102.6	102.4	4.9	3.2	5.7
Hopkinsville, Kentucky	101.5	102.9	100.1	3.6	4.0	3.6
Memphis, Tennessee	98.4	105.9	101.0	3.0	5.0	5.3
Mt. Pleasant, Tennessee	101.0	99.9	100.3	3.2	1.4	2.5

Mixed Liquid Fertilizer

Commonwealth Fertilizer Co.	106.9	97.3	100.3	2.9	7.6	4.2
West Ky. Liquid Fertilizer Co.	102.2	99.3	100.7	2.9	2.4	2.9
Bowling Green, Kentucky	102.1	96.6	--	2.3	4.0	--
Guthrie, Kentucky	102.7	98.7	102.3	3.9	2.3	4.2
Hopkinsville, Kentucky	101.9	101.3	100.1	2.7	1.1	2.0
Grand Average, All Companies						
Dry	100.2	101.3	101.8	4.2	3.6	4.7
Liquid	103.2	98.5	101.0	3.0	3.5	3.2

*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, 1962

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 CINCINNATI OHIO	(Percent)	(Percent)	(Percent)	
20 20M				
2979		20.2	20.0	101
4378		20.1	20.1	101
4684 SEE NOTE 4		18.3*	19.5	94*
4735		20.0	20.7	101
5195		20.0	20.5	101
6429		20.0	20.5	101
6808		18.9*	21.0	98
7465		19.7	20.5	100
AVERAGE ANALYSIS		19.6	20.3	
COEFFICIENT OF VARIATION		3.4	2.2	
3 9 6 3 MURIATE 3 SULFATE				
4225	3.0	8.9	6.4	101
3 12 12M				
2932	3.2	13.0	12.4	107
2977	3.4	12.6	12.0	105
4184 SEE NOTE 9	11.9	12.1	12.5	161
4219	4.0	11.9	13.0	108
4646	3.4	11.7	13.5	105
4685	3.6	11.9	13.2	106
5596	3.4	12.4	12.2	105
AVERAGE ANALYSIS	3.5	12.2	12.7	
COEFFICIENT OF VARIATION	7.8	4.0	4.7	
4 12 8M				
1984	4.3	12.1	8.3	103
2937	4.3	12.4	8.6	105
2974	4.3	12.1	8.2	103
3332	4.1	12.4	7.5	101
3333	4.1	12.2	8.1	102
4183	4.2	12.0	8.2	102
4222	4.3	12.0	8.6	103
4393	4.4	12.0	8.4	104
4460	4.3	12.3	8.7	105
4469	4.3	12.3	8.1	104
4629	4.2	12.0	8.7	103
4679	4.0	12.0	8.2	100
5403	4.2	12.0	8.2	102
5762	4.4	12.1	8.5	104
6563	4.3	12.3	8.0	103
6809	4.2	12.0	8.3	102
AVERAGE ANALYSIS	4.2	12.1	8.2	
COEFFICIENT OF VARIATION	2.5	1.2	3.6	
4 12 8S				
2978	4.4	12.2	8.6	105
5705	4.2	11.9	8.1	101
AVERAGE ANALYSIS	4.3	12.0	8.3	
COEFFICIENT OF VARIATION	3.2	1.7	4.2	
4 16 4S				
4189	4.1	15.9	4.2	101
4 16 16M				
4754	4.0	16.2	16.2	101
6756	4.5	16.0	16.6	104
AVERAGE ANALYSIS	4.2	16.1	16.4	
COEFFICIENT OF VARIATION	8.3	.8	1.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S				
1969	5.1	10.2	15.0	101
1970	5.2	10.2	15.0	102
1986	5.4	10.0	15.0	102
2936	5.3	10.1	15.0	102
2938	5.2	10.1	14.8	101
2950	5.3	10.0	14.9	102
2975	5.4	10.1	14.9	103
2976	5.2	10.2	14.9	102
3497	5.0	10.0	14.6	99
3625	5.4	9.7	15.2	102
4186	5.0	10.1	15.0	100
4187	5.6	9.8	14.8	102
4220	5.2	10.2	15.0	102
4223	5.1	10.2	16.0	103
4241	5.0	10.0	14.9	100
4243	5.2	10.0	14.9	101
4291	5.1	10.3	14.6	101
4292	5.4	9.9	15.1	102
4381	5.2	9.9	15.0	101
4439	5.2	10.0	14.7	101
4471	5.4	10.2	14.5	102
4627	5.1	10.2	14.9	101
4628	5.4	10.1	14.9	103
4650	5.0	10.1	14.9	100
4677	4.9	10.1	14.7	99
5196	5.3	10.1	14.7	102
5763	5.4	10.1	15.0	103
5848	4.8	10.0	14.8	98
6052	5.0	10.1	14.8	100
6167	4.9	10.2	14.6	99
6277	5.0	10.3	14.9	101
6389	5.3	10.1	14.9	102
6648	5.0	10.1	14.9	100
6755	4.8	10.4	15.0	100
6807	5.3	10.0	14.8	101
7002	5.2	10.0	14.9	101
7166	5.0	10.3	14.8	101
7167	5.2	10.1	15.1	102
AVERAGE ANALYSIS	5.1	10.0	14.9	
COEFFICIENT OF VARIATION	3.6	1.3	1.5	
5 10 15S WITH 0015 LBS ALDRIN				
2931 SEE NOTE 3	5.0	10.0	15.0	100
4377 SEE NOTE 3	5.1	10.0	14.7	100
5764 SEE NOTE 3	5.1	10.0	15.0	101
AVERAGE ANALYSIS	5.0	10.0	14.9	
COEFFICIENT OF VARIATION	1.1		1.1	
5 20 20M				
1972	5.3	19.3*	21.0	101
1974	5.8	20.4	19.9	104
1985	5.4	20.2	18.9	101
2935	5.4	20.0	20.0	102
2980	5.5	20.2	19.7	102
3494	5.1	20.1	20.0	101
4244	5.2	20.3	19.2	101
4255 SEE NOTE 4 & 9	5.3	17.2*	17.6	91*
4465	5.2	20.1	19.5	100
4647	5.0	20.0	20.0	100
4676	5.3	19.2*	19.9	99
4683	5.0	18.9*	21.0	98
5253	5.1	20.2	20.5	102
5597	5.4	19.2*	20.5	100
6295	5.2	20.2	19.0	100
6430	4.9	19.5*	20.2	99
AVERAGE ANALYSIS	5.2	19.8	19.9	
COEFFICIENT OF VARIATION	4.3	2.4	3.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
6 6 18S				
2951	6.1	6.6	17.7	103
4182	5.8	7.1	17.2	103
4293	6.3	6.1	18.0	102
4379	6.1	7.0	17.3	103
6194	5.9	6.2	18.0	100
7411	6.1	6.5	18.2	103
AVERAGE ANALYSIS	6.0	6.5	17.7	
COEFFICIENT OF VARIATION	2.9	6.1	2.3	
6 8 6S				
1997	6.0	8.1	6.4	102
2939	6.0	8.2	6.2	102
4181	6.0	8.1	6.2	101
4221	6.2	8.3	6.4	104
4295	5.9	8.4	6.5	103
4645	6.3	8.6	6.2	106
AVERAGE ANALYSIS	6.0	8.2	6.3	
COEFFICIENT OF VARIATION	2.4	2.3	2.1	
6 12 12M				
1971	6.7	12.4	12.0	105
2940	6.6	12.4	12.0	105
3329	6.0	12.8	12.5	104
3334	6.9	12.0	11.9	105
3493	6.3	12.2	11.4	101
4254	6.1	12.0	13.0	102
4294	5.7*	12.4	11.9	100
4314	6.1	12.2	12.7	103
4394	5.9	13.0	12.4	104
4678	6.0	11.9	12.7	101
4686	5.6*	12.8	11.7	100
5404	5.6*	12.3	11.8	99
6195	6.2	12.1	11.9	101
6757	5.3*	13.0	12.1	100
6783	5.3*	12.5	11.9	98
7001	6.4	12.4	11.3	102
AVERAGE ANALYSIS	6.0	12.4	12.0	
COEFFICIENT OF VARIATION	7.8	2.7	3.9	
6 12 12M WITH 0040 LBS ALDRIN				
5405 SEE NOTE 3	5.1*	11.9	13.1	97*
6 12 18S				
2933	6.0	11.9	17.7	99
3495	6.2	12.0	18.1	101
4188	6.2	11.8	18.0	100
4224	6.4	12.0	19.0	104
6165	6.0	12.0	17.8	100
AVERAGE ANALYSIS	6.1	11.9	18.1	
COEFFICIENT OF VARIATION	2.7	.7	2.8	
6 24 12M				
3496	6.5	25.0	13.2	106
4256	6.2	24.2	12.7	102
5706	6.1	24.6	13.5	104
AVERAGE ANALYSIS	6.2	24.6	13.1	
COEFFICIENT OF VARIATION	3.3	1.6	3.0	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
12 12 12M				
1987	11.9	12.0	12.4	100
2934	12.1	12.5	12.0	100
2981	11.8	12.0	12.7	100
3328	11.6*	12.6	12.0	100
3626	11.1*	12.8	12.2	99
4185	12.0	12.0	12.5	101
4242	11.3*	13.2	12.1	101
4380	12.3	12.1	13.0	103
4470	12.0	12.2	12.2	101
4752	11.2*	13.1	11.3	99
5197	12.1	13.0	12.0	103
5406	12.3	12.9	12.2	104
5618	12.0	13.5	11.8	104
AVERAGE ANALYSIS	11.8	12.6	12.1	
COEFFICIENT OF VARIATION	3.4	4.1	3.4	
16 8 8M				
2954	15.9	8.2	8.1	100
6640	15.7	8.7	8.0	101
7238	16.0	8.1	8.6	101
7414	14.3*	9.3	7.9	96*
AVERAGE ANALYSIS	15.4	8.5	8.1	
COEFFICIENT OF VARIATION	5.1	6.4	3.8	
AMERICAN AGRI CHEM CO DANVILLE ILL				
6 24 12M				
6433	5.9	23.5	12.7	99
6649	6.1	23.0*	13.0	99
AVERAGE ANALYSIS	6.0	23.2	12.8	
COEFFICIENT OF VARIATION	2.3	1.5	1.6	
AMERICAN AGRI CHEM CO LONDON				
20 20M				
3435		19.3*	20.0	98
3528		20.3	20.0	101
3541		19.9	20.0	100
3627		20.4	19.6	101
5372		20.2	20.2	101
5391		19.7	20.0	99
5513		20.0	20.0	100
5531		19.7	20.7	100
5651		19.9	20.5	101
5829		19.6	20.2	99
7213		19.7	20.6	100
AVERAGE ANALYSIS		19.8	20.1	
COEFFICIENT OF VARIATION		1.6	1.6	
20 20M WITH 5 LBS BORAX				
3278 SEE NOTE 2		19.5*	20.0	98
3295 SEE NOTE 2		19.4*	19.8	98
5475 SEE NOTE 2		19.2*	20.5	98
6090 SEE NOTE 2		19.3*	20.9	99
6489 SEE NOTE 2		18.9*	20.5	97*
AVERAGE ANALYSIS		19.2	20.3	
COEFFICIENT OF VARIATION		1.1	2.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LONDON CONTINUED	(Percent)	(Percent)	(Percent)	
30 30M				
3437		31.4	30.0	103
5374		30.0	30.0	100
5476		31.3	28.4	101
AVERAGE ANALYSIS		30.9	29.4	
COEFFICIENT OF VARIATION		2.5	3.1	
3 9 6M				
3434	2.7*	8.8	6.0	96*
3640	3.0	9.1	6.2	101
4467	3.0	8.6*	6.2	98
5282	3.0	9.0	6.1	100
5323	3.5	9.1	6.7	107
5332	2.8	9.0	6.0	98
5371	3.0	8.7*	6.2	99
5529	3.0	9.0	6.0	100
5629	3.0	9.6	6.0	104
AVERAGE ANALYSIS	3.0	8.9	6.1	
COEFFICIENT OF VARIATION	7.2	3.2	3.6	
3 9 6S				
3270	3.2	8.5*	6.0	99
3273	3.1	8.7*	6.1	99
3297	3.0	9.0	6.2	101
3652	3.2	9.2	5.9	103
5479	3.3	9.3	6.0	105
7113	3.0	9.1	6.5	102
AVERAGE ANALYSIS	3.1	8.9	6.1	
COEFFICIENT OF VARIATION	3.8	3.4	3.4	
3 9 6S WITH 00.15 LBS ALDRIN				
3431 SEE NOTE 3	3.1	8.3*	6.0	97*
3 9 18M WITH 5 LBS BORAX				
3279 SEE NOTE 2	3.1	9.0	18.5	102
3 12 12M				
3271	3.0	12.1	12.4	101
3444	3.1	11.9	12.1	100
5333	3.0	12.3	12.2	102
5480	3.1	12.0	12.2	101
AVERAGE ANALYSIS	3.0	12.0	12.2	
COEFFICIENT OF VARIATION	1.8	1.4	1.0	
4 12 8M				
3277	4.0	11.8	8.2	100
3433	4.0	11.9	7.9	99
3543	4.2	11.9	8.2	101
3597	4.2	11.9	8.3	102
3641	4.1	12.1	7.9	101
3643	4.1	11.7	8.6	101
3658	4.0	11.9	8.5	100
5324	4.0	12.0	8.7	102
5481	4.0	12.0	8.4	101
5652	4.1	12.0	8.1	101
7109	4.1	11.7	8.4	100
7122	4.0	12.0	8.0	100
AVERAGE ANALYSIS	4.0	11.9	8.2	
COEFFICIENT OF VARIATION	1.9	1.0	3.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LONDON CONTINUED	(Percent)	(Percent)	(Percent)	
4 16 4S				
1968	4.1	15.8	4.9	102
1983	4.2	15.8	4.1	101
3542 SEE NOTE 3	4.1	15.5*	4.5	100
4193	4.1	15.9	4.0	100
4317	4.2	15.7	4.1	100
5370	4.1	15.5*	4.4	99
6156	4.1	15.2*	4.2	98
6296	4.0	15.9	4.4	100
AVERAGE ANALYSIS	4.1	15.6	4.3	
COEFFICIENT OF VARIATION	1.5	1.5	6.7	
4 16 4S WITH 0030 LBS ALDRIN				
1975 SEE NOTE 3	5.0	16.0	4.2	107
2907 SEE NOTE 3	4.2	15.6*	4.2	100
3275 SEE NOTE 3	4.2	15.2*	4.0	98
3430 SEE NOTE 3	4.1	16.0	4.0	101
3492 SEE NOTE 3 & 4	4.0	16.0	4.4	101
3538 SEE NOTE 3	4.1	15.6*	4.4	100
4218 SEE NOTE 3	4.0	16.1	4.0	100
4376 SEE NOTE 3	4.1	16.0	4.0	101
6051 SEE NOTE 3	4.0	15.6*	4.1	99
6159 SEE NOTE 3	4.1	15.2*	4.0	97*
AVERAGE ANALYSIS	4.1	15.7	4.1	
COEFFICIENT OF VARIATION	7.1	2.1	3.9	
5 10 5M				
5514	5.1	10.3	5.4	103
5528	5.0	10.0	5.5	101
AVERAGE ANALYSIS	5.0	10.1	5.4	
COEFFICIENT OF VARIATION	1.3	2.0	1.2	
5 10 10M				
3442	5.1	9.7	10.0	99
3598	5.0	9.9	10.1	100
4468	5.1	10.1	10.2	102
5283	5.1	10.0	10.0	101
5334	4.9	9.9	10.0	99
5373	5.0	9.9	9.9	99
5530	5.0	9.9	10.0	100
5534	5.0	10.0	10.0	100
5623	4.9	10.1	10.1	100
5917	5.0	10.1	10.1	101
AVERAGE ANALYSIS	5.0	9.9	10.0	
COEFFICIENT OF VARIATION	1.4	1.2	.8	
5 10 15M				
3443	5.0	10.0	14.9	100
5 10 15S				
2942	5.0	10.0	15.0	100
3267	5.0	10.4	14.7	101
3268	5.0	10.1	15.2	101
3272	5.1	10.0	14.9	100
3296	4.9	10.3	14.8	100
3440	5.0	10.0	14.9	100
3526	5.0	10.1	14.9	100
3544	5.0	10.2	14.4	100
3644	5.0	10.1	15.0	100
3648	5.0	10.1	14.8	100
3761	5.0	10.4	14.3	100
4316	5.0	10.1	15.0	100
5325	5.0	10.0	15.5	101
5482	5.0	10.0	15.0	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LONDON CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
5483	5.0	10.2	14.5	100
5624	5.0	10.2	14.6	100
5625	5.0	10.3	15.2	102
5630	5.0	10.3	14.8	101
5653	4.9	10.1	14.9	100
6488	5.0	10.1	15.1	101
6631	5.0	10.2	14.7	100
7003	5.0	10.1	15.0	100
7110	4.9	10.0	14.5	98
7114	5.0	10.1	15.4	101
AVERAGE ANALYSIS	4.9	10.1	14.8	
COEFFICIENT OF VARIATION	.8	1.2	1.9	
5 10 15S WITH 00.15 LBS ALDRIN				
3269 SEE NOTE 3	5.0	10.0	15.0	101
6445 SEE NOTE 3	4.9	10.1	14.6	99
AVERAGE ANALYSIS	4.9	10.0	14.8	
COEFFICIENT OF VARIATION	1.4	.7	1.9	
5 20 20M				
3276	5.0	19.5*	19.9	99
3294	5.0	19.4*	20.0	98
3436	4.9	20.0	19.6	99
3525	5.0	19.9	20.0	100
3539	5.0	19.3*	20.1	98
3624	5.0	19.9	19.2	99
5484	5.0	19.7	20.5	100
5532	5.0	19.4*	20.1	99
5654	5.0	20.0	19.3	99
5830	5.0	19.9	19.4	99
6629	5.1	19.7	20.7	101
AVERAGE ANALYSIS	5.0	19.7	19.8	
COEFFICIENT OF VARIATION	.8	1.3	2.4	
5 20 20M WITH 5 LBS BORAX				
7086 SEE NOTE 2	5.0	20.0	20.4	101
6 6 18S				
2948	6.0	6.2	17.7	100
3438	6.0	6.2	17.5	100
4179	6.0	6.2	18.0	101
6490	6.1	6.0	17.9	100
6634	6.0	6.1	17.9	100
7004	6.0	6.4	17.9	101
7237	5.9	6.7	17.7	102
7387	6.0	6.2	18.0	101
AVERAGE ANALYSIS	6.0	6.3	17.8	
COEFFICIENT OF VARIATION	.8	3.4	9.7	
6 6 18S WITH 00.15 LBS ALDRIN				
4195 SEE NOTE 3	6.0	6.1	17.7	100
6 8 6S				
2941	6.1	8.0	6.1	101
5485	6.0	8.0	6.2	101
5631	6.0	8.5	6.0	103
6157	6.0	8.0	6.1	100
6632	6.0	8.1	6.1	101
AVERAGE ANALYSIS	6.0	8.1	6.1	
COEFFICIENT OF VARIATION	.8	2.7	1.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LONDON CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M				
3274	5.8	11.9	12.5	99
3441	5.0	11.6*	12.0	99
5392	5.8	12.0	11.8	99
5486	6.0	12.1	12.5	101
5535	6.1	12.3	12.0	102
6091	6.0	12.2	12.5	102
6267	6.0	12.2	12.2	101
7084	5.8	12.2	12.0	100
7165	5.8	11.9	12.0	99
AVERAGE ANALYSIS	5.9	12.0	12.1	
COEFFICIENT OF VARIATION	2.0	1.8	2.2	
8 8 18S				
2946	8.0	8.0	17.8	100
2949	7.9	8.1	17.8	99
3529	7.7*	8.1	17.3	98
4196	8.1	8.0	18.0	101
6641	8.3	8.0	18.0	102
7006	7.8	8.2	18.0	100
7236	8.0	8.3	18.0	101
7412	7.5*	8.3	17.8	98
7415	8.1	8.5	17.7	102
7513	8.0	8.0	18.0	100
AVERAGE ANALYSIS	7.9	8.1	17.8	
COEFFICIENT OF VARIATION	2.8	2.1	1.2	
8 8 18S WITH 0015 LBS ALDRIN				
3432 SEE NOTE 3	8.0	8.0	17.8	100
7512 SEE NOTE 3	8.0	8.3	17.9	104
AVERAGE ANALYSIS	8.0	8.1	17.8	
COEFFICIENT OF VARIATION		2.6	.3	
10 6 4M WITH 0030 LBS ALDRIN				
5326 SEE NOTE 3	9.6*	7.0	4.4	105
10 10 10M				
3439	10.0	10.0	10.0	100
3527	9.7	10.3	10.0	100
3540	10.1	10.3	10.0	102
3596	10.2	10.1	9.8	101
3760	9.9	10.3	10.0	101
5284	9.8	10.0	10.1	99
5327	10.0	10.2	9.9	101
5393	10.0	10.1	10.1	101
5487	9.8	10.4	10.1	101
5655	9.8	10.3	10.0	100
6158	10.1	10.0	9.8	100
6268	9.3*	10.9	9.2	98
6487	9.5*	10.8	9.5	99
6633	9.7	10.5	10.0	100
7005	10.0	10.0	10.0	100
7123	9.9	10.0	10.0	100
AVERAGE ANALYSIS	9.8	10.2	9.9	
COEFFICIENT OF VARIATION	2.3	2.7	2.4	
12 12 12M				
3421	11.7	11.9	12.2	99
5394	11.9	11.9	12.0	99
5477	11.9	12.5	12.2	101
6646	11.6*	11.6*	12.0	97*
7085	11.9	12.2	11.9	100
7617	12.1	11.9	12.0	100
AVERAGE ANALYSIS	11.8	12.0	12.0	
COEFFICIENT OF VARIATION	1.4	2.5	1.0	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LONDON CONTINUED	(Percent)	(Percent)	(Percent)	
20 20 5M				
3422	19.9	20.6	5.4	101
AMERICAN AGRI CHEM CO NASHVILLE TENN				
20 20M				
7634		19.0*	21.0	98
3 9 6M				
3646	3.3	9.3	6.9	107
4 9 3S				
5251	4.0	9.3	3.2	102
4 12 8M				
5793	3.9	12.1	8.3	100
4 12 8 3 MURIATE 5 SULFATE				
7263 SEE NOTE 1	4.1	12.2	8.9	104
4 12 8S				
7075	4.0	12.4	8.5	103
5 10 15 5 MURIATE 10 SULFATE				
7262	4.9	10.5	16.2	104
7455	4.8	10.5	15.0	101
AVERAGE ANALYSIS	4.8	10.5	15.6	
COEFFICIENT OF VARIATION	1.4		5.4	
5 10 15S				
5794	5.0	10.4	15.3	102
7259	5.3	10.3	15.2	103
7457	4.8	10.5	16.0	103
AVERAGE ANALYSIS	5.0	10.4	15.5	
COEFFICIENT OF VARIATION	4.9	.9	2.8	
5 20 10M				
2893 SEE NOTE 4	4.9	18.3*	10.0	94*
5 20 20M				
7264 SEE NOTE 4	5.0	19.2*	18.1	95*
6 12 12M				
4438	6.1	12.3	12.1	102
6554	6.0	12.5	12.4	103
6561	5.9	12.5	12.2	102
7261	6.1	12.4	11.9	102
7456	5.8	12.1	12.0	99
7585	5.4*	12.1	12.1	97*
AVERAGE ANALYSIS	5.8	12.3	12.1	
COEFFICIENT OF VARIATION	4.4	1.4	1.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January - June, 1962

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 NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
7260	9.7	10.6	10.0	101
7586	9.8	10.0	10.1	99
AVERAGE ANALYSIS	9.7	10.3	10.0	
COEFFICIENT OF VARIATION	.7	4.1	.7	
AMERICAN AGRI CHEM CO NATIONAL STOCK YARDS				
20 20M				
6562		20.9	20.0	103
5 20 20M				
7076	5.1	19.2*	20.4	99
10 10 10M				
2848	10.3	10.1	10.1	102
AMERICAN AGRI CHEM CO NEW YORK N Y				
5 10 5M				
4473	5.5	11.1	5.6	111
5275	4.7*	10.5	6.2	103
6435	4.9	10.2	5.2	101
AVERAGE ANALYSIS	5.0	10.6	5.6	
COEFFICIENT OF VARIATION	8.2	4.3	8.8	
6 10 4M				
4472	6.4	10.2	4.6	105
5276	6.1	10.0	4.6	102
AVERAGE ANALYSIS	6.2	10.1	4.6	
COEFFICIENT OF VARIATION	3.3	1.3		
10 6 4M				
4180	10.0	6.4	4.2	102
10 10 10M				
4194	10.1	9.6*	10.2	100
10 40 10M				
6743	10.3	40.6	9.4	101
12 4 8M				
6434	12.3	4.5	8.3	104
17 17 17M				
3298	17.5	17.0	17.7	102
20 20 5M				
5120	20.5	21.8	4.9	105

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 SEYMOUR IND	(Percent)	(Percent)	(Percent)	
20 20M				
4633		20.0	20.2	100
5198		20.3	19.7	101
5934		20.2	20.2	101
AVERAGE ANALYSIS		20.1	20.0	
COEFFICIENT OF VARIATION		.7	1.4	
3 12 12M				
4631	3.2	12.5	12.0	104
5932	3.0	12.1	13.0	103
6650	3.3	12.6	12.1	105
AVERAGE ANALYSIS	3.1	12.4	12.3	
COEFFICIENT OF VARIATION	4.8	2.1	4.4	
4 16 16M				
4634	4.2	16.0	17.0	103
6647	4.2	15.8	16.1	101
AVERAGE ANALYSIS	4.2	15.9	16.5	
COEFFICIENT OF VARIATION		.8	3.8	
5 10 15S				
4315	5.1	10.8	14.8	103
5199	4.8	10.3	15.6	101
AVERAGE ANALYSIS	4.9	10.5	15.2	
COEFFICIENT OF VARIATION	4.2	3.3	3.7	
5 20 20M				
4632	5.1	20.5	20.0	102
4753	5.3	20.3	20.0	102
5732	5.1	20.1	20.2	101
6651	5.1	20.1	20.0	101
AVERAGE ANALYSIS	5.1	20.2	20.0	
COEFFICIENT OF VARIATION	1.9	.9	.4	
6 24 12M				
6432	6.1	23.7	12.5	100
10 10 10M				
1973	9.8	10.4	10.2	101
2945	9.9	10.2	10.8	102
4318	9.8	10.9	10.2	102
4626	10.2	10.6	10.8	104
6168	9.7	10.9	9.9	101
6294	10.2	10.3	10.6	103
6431	9.9	10.3	10.7	102
6510	10.0	10.9	10.5	104
6758	10.4	10.5	10.2	104
7413	9.9	10.8	10.7	103
AVERAGE ANALYSIS	9.9	10.5	10.4	
COEFFICIENT OF VARIATION	2.2	2.6	2.9	
12 12 12M				
4630	12.6	12.7	12.1	105
4635	12.1	12.7	12.5	103
5933	12.2	12.8	12.2	103
AVERAGE ANALYSIS	12.3	12.7	12.2	
COEFFICIENT OF VARIATION	2.1	.4	1.6	
16 8 8M				
5707	15.6*	9.2	8.0	102

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AGRI CHEM CO ATLANTA GA	(Percent)	(Percent)	(Percent)	
5 10 5M				
4258	5.3	10.3	5.4	105
5515	5.6	10.2	5.5	107
6321	5.0	10.3	6.6	106
6505	5.1	10.1	5.4	102
AVERAGE ANALYSIS	5.2	10.2	5.7	
COEFFICIENT OF VARIATION	5.0	.9	10.2	
5 10 5M WITH 00.15 LBS ALDRIN				
7043 SEE NOTE 3	5.0	9.5*	6.2	101
5 10 5S				
4259 SEE NOTE 1	5.1	10.4	5.2	103
5110	5.2	10.3	5.2	104
5140 SEE NOTE 1	5.0	10.5	6.1	105
6004	5.3	10.0	5.9	105
6030	5.3	9.2*	5.2	99
6096	4.7*	11.1	5.0	103
AVERAGE ANALYSIS	5.1	10.2	5.4	
COEFFICIENT OF VARIATION	1.4	6.1	8.2	
5 10 5S WITH 00.1875 LBS DIELDRIN				
5201 SEE NOTE 3	4.8	10.5	5.3	102
10 6 4M				
4322	9.6*	7.1	4.6	106
10 10 10M				
6180	10.0	10.9	10.0	103
6358	10.5	10.6	10.1	105
AVERAGE ANALYSIS	10.2	10.7	10.0	
COEFFICIENT OF VARIATION	3.4	1.9	.7	
10 55 10M				
6684	10.1	55.6	13.4	103
20 10 10M				
5387	20.1	12.6	10.4	107
ARMOUR AGRI CHEM CO CINCINNATI OHIO				
20 20M				
3519 SEE NOTE 4		18.2*	20.1	94*
3602		19.9	20.0	100
3782		20.0	19.4	99
4236 SEE NOTE 4		18.7*	19.5	95*
4458 SEE NOTE 4		17.0*	19.1	89*
4726		18.5*	20.0	95*
5296		19.4*	20.0	98
5602		22.9	18.4	107
5645		19.5*	19.6	98
AVERAGE ANALYSIS		19.3	19.5	
COEFFICIENT OF VARIATION		8.4	2.8	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AGRI CHEM CO CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
20 20M WITH 5 LBS BORAX				
3783 SEE NOTE 2		19.9	19.7	99
5503 SEE NOTE 2 & 4		19.3*	18.6	95*
AVERAGE ANALYSIS		19.6	19.1	
COEFFICIENT OF VARIATION		2.1	4.0	
3 9 6M				
5316	3.0	9.5	6.2	104
3 12 12M				
3315	4.3	12.0	12.5	110
3518	3.3	12.6	12.0	105
4161	3.0	12.5	12.4	103
4268	3.1	12.2	12.2	102
4492	3.5	13.5	12.6	111
4508	3.6	12.2	11.3	103
AVERAGE ANALYSIS	3.4	12.5	12.1	
COEFFICIENT OF VARIATION	13.4	4.2	3.9	
4 12 8M				
2912	4.2	12.3	8.1	103
3336	4.2	12.2	8.6	104
3356	4.3	12.1	8.1	103
3466	4.4	12.4	8.1	105
4163	4.2	12.4	8.6	105
4233 SEE NOTE 9	4.7	15.9	13.6	135
4263	4.1	11.9	8.0	100
4443	4.0	12.0	8.3	101
4451	4.3	12.6	9.0	107
5112	4.5	12.6	8.7	108
5138	4.3	12.0	8.8	104
5343	4.0	12.1	8.4	101
5375	4.3	12.2	8.7	105
5396	4.3	12.2	8.0	103
5526	4.4	12.4	8.1	105
5605	4.7	14.6	9.2	119
5831	4.2	12.0	9.0	104
6116	4.6	12.9	8.1	108
6274	4.0	12.1	8.1	101
AVERAGE ANALYSIS	4.2	12.3	8.4	
COEFFICIENT OF VARIATION	4.5	4.9	4.6	
5 10 5M WITH 00.1875 DIELDRIN				
2910 SEE NOTE 3	4.9	10.4	5.9	104
5 10 10M				
3265	5.0	9.8	11.0	101
3316	5.1	10.0	10.0	101
3320	5.2	9.8	10.1	101
3335	5.2	10.5	10.1	104
3354	5.2	10.1	9.9	102
3635	5.2	10.9	10.4	106
4234	5.0	10.6	10.1	103
4261	5.0	10.1	10.2	101
4267	5.0	10.9	9.9	104
4335	5.2	10.1	9.9	102
4388	5.3	10.6	9.8	104
4463	4.9	10.5	10.0	102
4510	5.3	10.5	10.2	105
5300	5.3	10.3	10.0	103
5314	5.3	10.2	10.0	103
5344	5.2	10.1	10.0	102
5386	5.2	10.6	10.1	104
5395	5.0	10.2	9.9	101

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AGRI CHEM CO CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 10M CONTINUED				
5397	5.2	10.7	10.0	104
5516	5.1	10.9	10.0	105
5527	5.2	10.1	10.3	102
5603	5.0	10.9	10.1	104
5606	5.0	10.5	9.9	103
5637	5.1	10.2	9.9	101
5646	5.0	10.1	9.8	100
5832	5.0	10.1	10.0	100
6113	5.0	10.1	10.0	100
AVERAGE ANALYSIS	5.1	10.3	10.0	
COEFFICIENT OF VARIATION	2.3	3.2	2.3	
5 10 10M WITH 00.15 LBS ALDRIN				
3342 SEE NOTE 3	5.1	9.7	10.2	100
5 10 15S				
1993	5.0	10.0	15.0	100
2911	5.0	10.1	15.0	100
2944	5.0	10.2	15.0	101
3263	5.0	10.0	15.0	100
3319	5.2	10.0	15.0	101
3465	5.1	10.0	14.6	100
3637	5.4	9.7	15.0	101
3781	5.2	10.4	14.8	102
4162	5.1	10.2	15.3	102
4235	5.2	10.2	15.0	102
4238	5.1	10.0	15.2	101
4252	5.2	9.6*	15.0	100
4265	5.0	9.8	14.9	99
4299	5.0	10.1	14.8	100
4336	5.1	10.2	15.2	102
4513	5.1	10.3	15.0	102
5150	5.0	10.1	15.0	100
5345	5.2	10.1	15.0	102
5504	5.2	10.1	15.0	102
5638 SEE NOTE 1	5.3	12.9	14.8	113
5851	5.0	10.2	14.8	100
6115	5.2	9.8	15.1	101
6276	5.2	10.7	15.0	102
7382	5.1	10.1	14.7	100
AVERAGE ANALYSIS	5.1	10.2	14.9	
COEFFICIENT OF VARIATION	2.1	6.0	1.0	
5 20 20M				
2913	5.1	19.4*	20.1	99
3516	5.0	19.3*	19.1	97*
4494	5.0	19.9	20.0	100
4496	5.1	20.3	19.9	101
4681	5.3	20.0	20.0	101
4721	5.0	19.2*	20.0	98
4727	5.2	19.2*	21.2	100
5767	4.9	19.9	20.0	99
5907	5.3	19.2*	19.8	99
AVERAGE ANALYSIS	5.1	19.6	20.0	
COEFFICIENT OF VARIATION	2.7	2.1	2.6	
6 6 18S				
2953	6.2	6.5	17.5	102
4374	6.1	6.7	17.9	103
5505	6.0	6.6	17.4	101
6114	6.1	6.6	17.5	102
6273	6.0	6.7	17.1	101
6627	6.1	6.8	17.7	103
7381	5.8	6.8	17.8	102
AVERAGE ANALYSIS	6.0	6.6	17.5	
COEFFICIENT OF VARIATION	2.1	1.6	1.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AGRI CHEM CO CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
6 8 6S				
3264	6.1	9.1	7.0	109
4264	6.0	8.0	6.2	101
4271	6.0	8.5	6.3	103
4444	6.0	8.1	6.1	101
4450	5.7*	8.5	7.1	103
4478	5.8	8.0	6.0	99
4493	6.0	8.5	6.4	104
4512 SEE NOTE 1	6.0	8.1	6.7	102
4514	6.0	8.0	6.0	100
5151	6.3	8.2	6.2	104
5301	6.1	8.2	6.2	102
5496	6.1	8.2	6.1	102
5506	6.0	8.3	6.0	102
5748	6.1	8.5	7.9	108
6119	6.3	8.1	6.5	104
6272	5.9	8.1	6.4	101
AVERAGE ANALYSIS	6.0	8.2	6.4	
COEFFICIENT OF VARIATION	2.5	3.4	7.9	
6 12 8S				
5153	5.8	12.5	17.9	101
6 12 12M				
3317	6.1	12.0	12.5	101
3337	6.1	12.0	12.1	101
3355	6.0	11.8	11.9	99
3468	6.0	12.1	11.6	100
3522	6.0	12.0	12.7	101
3563	6.0	12.0	12.2	100
3630	6.0	12.2	11.5	100
3633	6.0	12.0	11.7	99
4260	6.0	11.6*	12.1	99
4270	6.0	12.0	12.2	100
4385	5.8	12.0	11.8	99
4459	5.8	12.3	11.8	100
4479	5.9	12.1	12.5	101
5141	5.9	12.0	12.2	100
5152	6.0	12.3	12.1	101
5297	6.0	12.0	11.7	99
5298	5.9	12.1	12.1	100
5315	6.1	13.4	12.1	106
5346	6.2	12.0	11.6	100
5376	6.1	11.7	12.1	100
5607	5.9	12.2	11.9	100
5749	5.9	12.3	12.2	101
6118	6.0	12.2	11.9	101
AVERAGE ANALYSIS	5.9	12.1	12.0	
COEFFICIENT OF VARIATION	1.6	2.7	2.5	
6 12 18S				
2929	6.2	10.9*	18.0	97*
3318 SEE NOTE 1 & 4	5.6*	11.7	16.0	94*
3338	5.8	12.4	18.0	100
3784	6.1	11.8	18.2	100
4262	6.0	11.9	18.2	100
4269	5.8	12.0	18.0	99
4337	5.6*	12.4	18.2	100
4396	5.6*	12.4	18.1	100
4452	5.9	12.7	17.5	101
4480	6.0	11.7	18.1	99
4511	5.9	12.3	18.0	101
4680	6.1	12.0	18.0	101
4689	6.0	12.0	18.0	100
4722	5.3*	12.0	18.0	97*

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January - June, 1962

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 AGRI CHEM CO CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 18S CONTINUED				
5121	5.8	12.6	18.3	102
5299	5.9	12.0	18.2	100
5347	6.1	12.3	18.0	102
5650	6.1	12.0	18.0	101
5837	5.9	12.9	17.3	101
6120	6.0	11.7	18.5	100
7383	5.5*	11.9	18.1	97*
AVERAGE ANALYSIS	5.8	12.0	17.9	
COEFFICIENT OF VARIATION	3.9	3.5	2.8	
6 12 18S WITH 00.15 LBS ALDRIN				
4117 SEE NOTE 3	6.0	12.3	17.7	101
4357 SEE NOTE 3	6.0	12.5	17.7	101
AVERAGE ANALYSIS	6.0	12.4	17.7	
COEFFICIENT OF VARIATION		1.1		
6 24 12M				
3339	6.0	22.7*	12.0	97*
6 24 24M				
4477 SEE NOTE 4	5.9	21.1*	23.3	92*
10 10 10M				
2914	10.1	10.2	10.2	102
3266	10.0	10.1	10.3	101
3467	10.1	10.1	10.1	101
3634	10.2	10.5	10.0	103
4164	9.6*	10.7	10.8	102
4237	10.1	10.3	10.2	102
4253	9.9	10.3	10.0	101
4373	9.9	10.3	9.9	100
4386	10.1	10.2	10.4	102
4387	10.3	10.8	9.9	104
4682	9.3*	11.2	10.1	101
4690	10.0	10.4	10.2	102
5154	10.2	10.3	10.2	102
5497	10.0	10.4	10.0	101
5507	10.3	10.3	10.0	103
5639	9.6*	10.1	11.4	101
7180	9.7	10.6	10.0	101
AVERAGE ANALYSIS	9.9	10.4	10.2	
COEFFICIENT OF VARIATION	2.7	2.7	3.6	
12 12 12M				
3341	11.7	12.5	12.1	100
4384	11.9	12.6	12.0	101
4703	12.1	12.5	12.1	102
5302	11.7	12.6	12.0	100
5604	11.6*	12.7	12.1	100
5612	12.0	12.8	12.4	103
5833	12.1	12.1	12.1	101
5852	11.6*	12.1	12.7	100
AVERAGE ANALYSIS	11.8	12.4	12.1	
COEFFICIENT OF VARIATION	1.8	2.0	1.9	
ARMOUR AGRI CHEM CO E ST LOUIS ILL				
4 12 4M				
7584	4.0	12.5	4.6	104

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AGRI CHEM CO E ST LOUIS CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
6569	5.1	19.9	19.9	100
6 24 24M				
6566 SEE NOTE 4 & 9	7.4	31.0	17.5	113
10 10 10M				
7136	9.5*	11.6	10.1	103
12 12 12M				
4749	11.9	12.8	12.0	102
5888	11.8	12.0	12.2	99
7135	11.4*	12.8	13.4	102
7583	11.0*	13.0	11.6	98
AVERAGE ANALYSIS	11.5	12.6	12.3	
COEFFICIENT OF VARIATION	3.5	3.5	6.2	
14 14 14M				
5889	13.9	12.8*	14.4	97*
6541	13.6*	13.0*	14.7	97*
AVERAGE ANALYSIS	13.7	12.9	14.5	
COEFFICIENT OF VARIATION	1.5	1.0	1.4	
ARMOUR AGRI CHEM CO JEFFERSONVILLE IND				
10 30M				
6527		10.9	29.0	102
10 30M WITH 3 LBS BORAX				
6080 SEE NOTE 2		9.7	33.5	106
20 20M				
3498		20.0	20.5	101
5864 SEE NOTE 4 & 5		24.6	13.0	104
6381		19.8	20.9	101
6405		19.9	21.6	102
7400		19.2*	20.2	98
AVERAGE ANALYSIS		20.7	19.2	
COEFFICIENT OF VARIATION		10.6	18.3	
20 20M WITH 5 LBS BORAX				
6500 SEE NOTE 2		20.0	20.0	100
7622 SEE NOTE 2		19.7	21.2	101
AVERAGE ANALYSIS		19.8	20.6	
COEFFICIENT OF VARIATION		1.0	4.1	
3 9 27M				
4750	3.2	11.8	22.4	103
3 12 6M				
3490	3.1	12.4	6.5	104
3 12 12M				
5431	3.3	12.3	13.0	106
6003	3.3	11.3*	14.0	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AG CHEM CO JEFFERSONVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
3 12 12M CONTINUED				
6179	3.6	12.4	12.5	107
6612	3.3	12.2	11.5	102
6660	3.5	11.7	13.7	106
6785	3.4	11.5*	12.2	101
7397	3.8	12.4	12.2	108
AVERAGE ANALYSIS	3.4	11.9	12.7	
COEFFICIENT OF VARIATION	5.5	3.8	6.9	
4 12 8M				
2852	4.2	12.6	8.0	104
3408	4.2	12.6	9.5	108
3491	4.4	12.1	8.7	105
3500	4.4	12.4	8.2	105
3642	4.4	12.1	8.9	105
5180	4.4	12.6	8.2	106
5433	4.1	12.5	8.9	105
5434	4.3	12.1	8.8	104
5943	4.2	12.4	8.3	104
6094	4.6	12.7	8.1	108
6409	4.2	12.2	8.0	102
6499	4.2	12.7	8.5	106
6686	4.4	12.2	9.7	108
6770	4.0	12.3	9.0	104
6773	4.4	12.5	9.5	108
6833	4.3	12.3	9.0	106
7035	4.3	12.2	9.4	106
7080	4.4	12.4	8.6	106
7117	4.4	12.2	8.0	104
7312	4.2	12.5	8.7	105
AVERAGE ANALYSIS	4.3	12.3	8.7	
COEFFICIENT OF VARIATION	3.2	1.6	6.2	
5 10 5S WITH 00.1875 LBS DIELDRIN				
2990 SEE NOTE 1 & 3	5.3	10.1	5.9	105
5 10 10M				
5104	5.3	11.8	11.8	114
5106	6.3	12.6	11.9	124
AVERAGE ANALYSIS	5.8	12.2	11.8	
COEFFICIENT OF VARIATION	12.1	4.6	.5	
5 10 15S				
1909 SEE NOTE 1	5.0	11.0	14.2	102
1924	5.3	10.2	15.0	103
1937	5.3	10.0	14.9	102
2853	5.1	10.4	15.0	102
3410	5.2	10.5	15.1	103
3488	5.0	10.5	14.1	100
3501	5.1	10.4	15.0	102
5202	5.0	10.3	15.0	101
5432	5.2	9.9	15.4	102
5435	5.0	10.4	15.4	102
5498	5.2	10.3	14.9	102
5620 SEE NOTE 1	5.3	11.1	14.8	106
6005	5.2	10.4	14.9	103
6055	5.3	10.7	15.0	105
6056	5.2	10.6	15.4	104
6221	5.1	10.1	15.0	101
6266	5.4	9.7	15.7	103
6403	5.1	10.3	15.5	103
6453	4.9	10.8	14.5	102
6458	5.2	10.4	15.0	103
6501	5.0	10.0	15.2	100
6528	5.2	10.3	15.5	103
6772	5.4	11.7	18.5	116

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AG CHEM CO JEFFERSONVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
7033	4.9	11.0	14.8	103
7081	5.3	10.1	15.1	102
7183	5.2	9.9	15.3	101
7313	5.2	10.0	15.0	101
7315	5.3	10.0	15.3	102
7395	5.2	10.0	15.0	101
7408	5.0	10.3	15.0	101
AVERAGE ANALYSIS	5.1	10.3	15.1	
COEFFICIENT OF VARIATION	2.6	4.1	4.7	
5 10 15S WITH 00.15 LBS ALDRIN				
6786 SEE NOTE 1 & 3	5.1	10.6	15.2	103
5 10 15S WITH 00.1875 DIELDRIN				
6050 SEE NOTE 3	4.8	10.6	5.4	103
5 20 20M				
3484	5.5	19.8	19.3	101
3489	5.2	20.0	20.6	102
5182	4.9	21.4	17.5	100
5865	4.7*	19.9	20.0	99
5945	5.7	18.8*	20.0	100
6183	5.1	20.2	20.2	101
6239	5.2	19.8	20.0	100
6410	5.4	19.4*	19.3	99
6417	5.3	20.6	20.0	103
6449	5.1	20.1	19.4	100
6472	5.6	19.0*	19.1	99
6531	5.4	19.7	20.7	102
7181	5.1	20.2	20.1	101
7186	5.8	19.2*	19.7	101
7314	5.4	19.6*	20.2	101
7398	6.0	18.1*	20.5	100
AVERAGE ANALYSIS	5.3	19.7	19.7	
COEFFICIENT OF VARIATION	6.3	3.8	3.9	
6 6 18M				
2993	6.4	6.8	17.5	105
6 6 18S				
6061	6.2	7.5	16.9	105
6388	5.9	7.0	18.0	104
6639 SEE NOTE 1	5.9	7.5	17.4	104
6661 SEE NOTE 1	6.5	7.2	16.7	105
AVERAGE ANALYSIS	6.1	7.3	17.2	
COEFFICIENT OF VARIATION	4.6	3.3	3.3	
6 8 6S				
4611	6.4	8.9	7.0	110
6095	5.8	9.3	5.5	104
6782 SEE NOTE 1	6.6	9.6	7.2	116
7032	6.2	9.3	6.5	109
7116	6.1	9.4	6.9	110
AVERAGE ANALYSIS	6.2	9.3	6.6	
COEFFICIENT OF VARIATION	4.8	2.7	10.2	
6 12 12M				
3485	5.7*	12.2	13.4	102
3502	5.6*	12.9	13.0	103
5203	6.7	12.4	12.5	106
5464	6.9	12.2	12.9	107
5621	6.5	12.4	13.0	106

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AG CHEM CO JEFFERSONVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M CONTINUED				
5640	5.3*	13.1	14.0	104
6064	6.1	12.6	12.5	104
6265	6.5	11.9	12.2	103
7104	7.6	11.3*	12.6	107
AVERAGE ANALYSIS	6.3	12.3	12.9	
COEFFICIENT OF VARIATION	11.4	4.3	4.2	
6 12 12S				
2991	5.7*	13.1	12.0	102
5204	5.8	12.6	12.4	102
5465	6.0	12.5	12.2	102
6408	5.9	12.0	13.1	101
6611	5.3*	11.6*	20.3	110
7103	5.6*	12.9	12.5	102
AVERAGE ANALYSIS	5.7	12.4	13.7	
COEFFICIENT OF VARIATION	4.3	4.5	23.4	
6 12 12S WITH 00.15 LBS ALDRIN				
5463 SEE NOTE 3	6.0	12.0	12.4	101
6 12 18S				
1925	5.3*	12.9	18.0	100
1936	5.7*	11.6*	19.2	99
2830	5.4*	12.6	18.3	100
2992	5.6*	13.0	18.0	101
3409	5.5*	13.0	18.4	102
3483 SEE NOTE 1	6.0	12.2	18.7	102
3499	6.1	12.2	18.1	101
5711	5.7*	12.5	18.0	100
6054	5.6*	12.5	18.2	100
6150	5.6*	12.6	18.4	101
6222	5.7*	12.6	18.7	102
6238	5.9	12.3	19.0	102
6406	5.7*	12.3	18.2	100
6451	5.5*	16.2	16.5	109
6529	5.7*	11.5*	19.2	99
6671 SEE NOTE 1	5.9	12.6	18.2	102
7082	5.9	12.0	18.5	100
7091 SEE NOTE 1	6.2	12.2	18.7	103
7184	6.0	12.2	18.1	101
AVERAGE ANALYSIS	5.7	12.5	18.3	
COEFFICIENT OF VARIATION	4.1	7.6	3.2	
6 18 12M				
5946	5.9	17.9	12.2	100
10 10 10M				
2854	10.2	10.3	10.1	102
3487	10.0	10.7	10.9	104
3503	10.0	10.6	10.6	103
4372	10.4	10.8	10.0	105
5105	9.7	10.9	10.6	103
5466	10.3	10.6	10.4	104
5499	10.4	10.7	10.6	105
5712	10.3	11.2	10.0	106
6063	10.8	10.4	11.0	107
6149	10.4	10.9	10.6	106
6182	10.6	11.3	10.5	108
6387	10.0	10.8	10.9	104
6424	9.7	11.6	10.1	104
6459	10.2	10.3	10.2	102
6497	10.4	10.5	10.9	105
6530	10.7	10.7	11.2	108
7034	10.3	10.8	10.9	106

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AG CHEM CO JEFFERSONVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M CONTINUED				
7118	10.5	10.1	10.6	104
7182	10.7	10.7	10.6	107
7308	10.8	10.3	10.5	106
7394	10.8	11.0	10.7	109
7611	10.0	10.2	11.1	103
AVERAGE ANALYSIS	10.3	10.7	10.5	
COEFFICIENT OF VARIATION	3.2	3.4	3.3	
10 10 20S				
4192 SEE NOTE 1	9.5*	10.9	19.9	100
4371 SEE NOTE 1	9.8	11.1	19.9	102
4509 SEE NOTE 1	9.7	10.7	20.0	101
5500	9.6*	12.5	18.5	103
6452 SEE NOTE 1	9.5*	11.4	19.8	102
AVERAGE ANALYSIS	9.6	11.3	19.6	
COEFFICIENT OF VARIATION	1.3	6.2	3.2	
10 10 20S WITH 0015 LBS ALDRIN				
4375 SEE NOTE 3	9.7	11.3	19.2	101
6498 SEE NOTE 1 & 3	9.5*	11.2	19.2	100
AVERAGE ANALYSIS	9.6	11.2	19.2	
COEFFICIENT OF VARIATION	1.4	.6		
10 20 20M				
5944	10.4	21.5	20.1	105
12 12 12M				
4599	12.0	12.6	12.2	102
5622	11.7	12.4	12.5	101
5947	11.9	12.2	12.5	101
6196	12.0	12.4	12.1	101
6237	12.1	12.6	13.0	103
6309	11.4*	13.5	12.1	102
7185	12.0	12.4	12.1	101
7399	11.7	12.5	12.5	101
AVERAGE ANALYSIS	11.8	12.5	12.3	
COEFFICIENT OF VARIATION	1.9	3.1	2.5	
ARMOUR AGRI CHEM CO MEMPHIS TENN				
5 20 20M				
6739	5.2	19.1*	19.5	98
6 12 12M				
6724	6.1	11.9	12.5	101
ARMOUR AGRI CHEM CO NASHVILLE TENN				
20 20M				
3732		20.7	18.7	100
4308		19.2*	19.9	97*
5884		19.9	20.2	100
6325		20.2	17.9	97*

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AGRI CHEM CO NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
20 20M CONTINUED				
6333		19.0*	20.0	97*
7242		20.4	19.4	100
AVERAGE ANALYSIS		19.9	19.3	
COEFFICIENT OF VARIATION		3.3	4.6	
20 20M WITH 5 LBS BORAX				
3524 SEE NOTE 2		19.2*	20.0	97*
3606 SEE NOTE 2		19.8	20.1	100
AVERAGE ANALYSIS		19.5	20.0	
COEFFICIENT OF VARIATION		2.1	.3	
3 9 6M				
3340	2.8	10.3	6.5	108
3413	3.5	10.3	6.9	115
5303	2.9	10.2	5.6	105
5518	3.0	10.1	6.2	107
5536	2.8	9.4	6.6	102
AVERAGE ANALYSIS	3.0	10.0	6.3	
COEFFICIENT OF VARIATION	9.7	3.7	7.7	
3 9 18M				
6584	3.2	10.5	17.4	107
3 12 6M				
3651	3.5	12.4	6.5	107
6036	3.0	12.4	6.4	103
6319	3.4	12.8	6.7	109
6336	3.1	12.5	7.1	106
7078	3.0	12.3	6.1	102
AVERAGE ANALYSIS	3.2	12.4	6.5	
COEFFICIENT OF VARIATION	7.3	1.5	5.6	
3 12 12M WITH 0.25 LBS ALDRIN				
5885 SEE NOTE 3	3.3	12.7	11.1	103
3 12 24M				
3521 SEE NOTE 4	3.4	12.7	23.4	104
3601	3.1	12.3	24.0	102
AVERAGE ANALYSIS	3.2	12.5	23.7	
COEFFICIENT OF VARIATION	6.5	2.2	1.7	
3 12 24M WITH 3 LBS BORAX				
3770 SEE NOTE 2 & 4	2.9	13.8	19.2	97*
5245 SEE NOTE 2 & 6	3.3	13.0	24.0	105
AVERAGE ANALYSIS	3.1	13.4	21.6	
COEFFICIENT OF VARIATION	9.1	4.2	15.7	
4 12 8M				
1946	4.1	12.8	8.7	106
3374	4.5	12.3	10.2	110
3389	4.4	12.2	10.0	108
3414	4.5	12.4	8.1	106
3515	4.5	12.7	7.9	106

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AGRI CHEM CO NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M CONTINUED				
3562	4.3	12.9	9.0	108
3636	4.5	12.8	8.9	109
3730	4.5	12.1	8.9	106
4602	4.3	12.5	8.1	105
4641	4.4	12.2	8.7	105
5103	4.1	13.3	8.3	107
5517	4.5	12.3	8.2	105
5519	4.6	12.1	8.7	106
5808	4.8	12.2	10.2	111
6236	4.3	13.0	8.6	108
6298	4.5	12.7	8.3	107
6322	4.6	12.3	9.3	108
6836	4.0	12.5	9.7	106
7454	4.0	12.3	8.9	103
7480	4.2	12.4	8.4	104
7587	4.0	12.1	13.1	112
AVERAGE ANALYSIS	4.3	12.4	9.0	
COEFFICIENT OF VARIATION	5.1	2.6	12.7	
4 16 16M				
4748	3.8	16.2	17.1	102
5 10 5S				
3387	5.4	9.6*	5.2	102
5 10 10M				
1956	5.1	10.1	10.4	102
4594	5.0	10.1	11.1	103
4612	5.3	10.6	9.5	104
4743	5.6	11.4	11.5	114
5234	5.3	10.1	10.0	102
5537 SEE NOTE 5 & 9	4.3*	8.3*	8.7	85*
5559	3.0	10.0	10.1	100
5802	5.1	10.1	10.7	103
5803	5.1	10.7	11.2	106
5809	5.3	11.0	11.5	110
6038 SEE NOTE 9	9.4	10.3	10.5	132
6320	5.1	11.2	10.2	106
6335	5.3	10.5	10.1	104
6544	5.4	10.1	9.1	101
7138	5.1	10.3	10.1	102
7590	5.0	10.6	10.5	104
AVERAGE ANALYSIS	5.1	10.4	10.4	
COEFFICIENT OF VARIATION	3.4	4.3	6.8	
5 10 10S				
1958	5.1	10.0	13.6	109
5 10 15S				
2902	5.1	10.1	15.0	101
3400	4.8	10.8	14.7	101
3514	5.1	10.4	14.8	102
3523 SEE NOTE 1	5.2	10.2	12.3	97*
3561	5.1	10.4	15.0	102
3609	5.0	10.1	14.6	100
3733 SEE NOTE 1	5.5	10.5	14.5	104
4309 SEE NOTE 1	5.1	10.1	14.0	99
4598	5.1	10.1	15.0	101
4601	5.0	10.7	15.2	103
4607	4.7*	10.9	14.9	102
4640	5.0	10.6	15.7	104
5229	5.0	10.2	15.0	101
5574	5.3	10.1	15.3	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AGRI CHEM CO NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
5727	5.2	10.6	16.2	106
5804	5.2	10.4	15.4	104
7041	5.1	10.0	14.9	100
7079	5.0	10.6	14.8	102
7452	5.1	10.6	15.7	104
7453	4.9	10.3	15.0	101
7478 SEE NOTE 1	5.6	10.1	14.0	102
AVERAGE ANALYSIS	5.1	10.3	14.8	
COEFFICIENT OF VARIATION	3.9	2.5	5.2	
5 20 20M				
3398	5.7	19.3*	20.6	102
3607	5.4	20.3	19.9	102
3731 SEE NOTE 5	5.3	17.9*	20.0	96*
3734	5.3	19.6	18.6	98
3789	5.0	20.8	20.1	102
3818	4.7*	18.8*	20.1	96*
4312	5.1	19.0*	21.0	99
4595 SEE NOTE 5	5.5	17.4*	19.2	94*
4608 SEE NOTE 4 & 5 & 9	4.6*	18.5*	14.7	87*
4637	6.0	18.5*	17.2	96*
4742 SEE NOTE 9	4.8	24.1	21.7	112
5230	5.3	18.4*	19.7	97*
5246	5.5	19.1*	19.4	99
5887	5.5	20.2	20.2	103
6328	5.2	20.8	17.8	100
6550	5.1	20.8	20.0	103
7588	5.2	19.2*	20.8	100
AVERAGE ANALYSIS	5.3	19.3	19.6	
COEFFICIENT OF VARIATION	5.7	5.5	5.4	
5 20 20M WITH 0.50 LBS ALDRIN				
5886 SEE NOTE 3	5.2	21.0	17.6	100
6 8 6M				
4600	5.7*	8.9	6.5	104
4639	5.7*	8.6	6.5	102
7241	7.5	9.1	9.3	125
AVERAGE ANALYSIS	6.3	8.8	7.4	
COEFFICIENT OF VARIATION	16.4	2.8	21.7	
6 12 12M				
1957	6.0	12.8	11.0	101
2901	6.2	12.0	12.4	102
3608	6.0	12.2	12.6	102
3735	6.1	12.5	12.1	103
3736	6.2	12.4	12.5	104
4310	6.1	12.6	13.0	105
4311	6.4	12.2	12.2	103
4596	5.8	12.1	12.1	99
4609	6.1	13.0	12.4	105
4610	5.7*	12.0	12.1	99
4638	6.1	12.8	11.5	103
5231	6.1	12.0	12.0	101
5247	6.1	12.4	11.9	102
5520	6.0	13.3	12.7	106
5560	5.9	12.1	11.9	100
5575	6.0	12.1	12.5	101
5810	5.8	12.2	12.7	101
5866	5.6*	12.6	11.9	100
6037	6.2	12.3	13.0	104
6223	5.7*	12.3	12.2	100
6297	6.5	11.3*	12.6	101

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AGRI CHEM CO NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M CONTINUED				
6543	6.1	12.2	12.0	101
6551	6.2	12.5	12.0	103
7449	6.6	12.1	11.6	103
AVERAGE ANALYSIS	6.0	12.3	12.2	
COEFFICIENT OF VARIATION	3.9	3.2	3.8	
6 12 18S				
1955	5.9	11.0*	20.8	101
2884	5.8	12.0	19.0	101
3388	6.0	11.7	19.1	101
3520	6.3	11.8	17.7	100
3564	6.0	11.6*	19.0	100
3701	6.0	12.1	18.0	100
3728	5.8	12.2	18.4	102
3819 SEE NOTE 4	5.8	9.7*	19.5	94*
4313	5.9	11.9	18.6	100
4437	6.0	11.9	18.0	100
4636	5.9	11.9	18.2	100
5248	5.9	12.0	18.5	100
5414	6.0	11.2*	18.4	98
5423	5.9	11.8	18.6	100
5728	6.0	11.6*	19.0	100
5800	6.2	13.1	18.5	106
6323	6.0	11.2*	20.0	101
6326	5.9	11.4*	18.7	99
6542 SEE NOTE 1	6.2	11.7	17.6	99
6583	5.9	11.1*	20.3	100
6723	5.9	11.7	18.1	99
7042	5.9	11.2*	18.7	98
AVERAGE ANALYSIS	5.9	11.6	18.7	
COEFFICIENT OF VARIATION	2.1	5.4	4.3	
6 12 18S WITH 00.15 LBS ALDRIN				
3396 SEE NOTE 3	5.8	11.3*	19.7	100
6 18 12M				
6327	5.7*	19.0	10.5	99
10 10 10M				
2903	9.9	10.4	10.0	101
3283 SEE NOTE 4	3.6*	10.8	9.4	95*
3397	10.2	10.2	10.4	102
3517	9.8	10.0	10.2	99
3565	9.8	10.2	10.4	100
3729	9.7	11.3	9.5	102
3737	10.0	10.2	10.6	102
3820	9.5*	10.4	10.4	100
4597	10.2	10.5	10.2	103
4613	9.5*	10.3	10.0	99
4741	8.8*	11.5	11.4	101
5232	9.9	10.3	10.4	101
5249	10.3	10.3	10.0	103
5250	10.0	10.8	9.8	102
5424	9.7	10.7	10.0	101
5561	9.6*	9.9	10.1	98
5562	10.2	10.3	10.2	102
5576	9.7	10.3	10.6	101
5801	10.3	10.4	10.6	104
5805	9.4*	10.9	11.1	102
6034	10.1	10.6	9.5	102
6039	10.3	10.1	10.0	102
6834	8.8*	11.0	11.5	100
7137	9.3*	10.6	10.6	100
7446	10.1	10.1	10.1	101
7466	9.6*	11.1	9.6	101

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 AGRI CHEM CO NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M CONTINUED				
7479	10.3	10.5	10.4	104
7589	9.0*	10.5	12.0	100
AVERAGE ANALYSIS	9.7	10.5	10.3	
COEFFICIENT OF VARIATION	5.0	3.6	5.8	
10 20 20M				
5729 SEE NOTE 5	8.7*	17.0*	20.2	89*
12 12 12M				
4614	12.0	12.8	12.6	103
5270	10.9*	14.0	12.7	102
6324 SEE NOTE 4	10.6*	10.8*	14.6	94*
AVERAGE ANALYSIS	11.1	12.5	13.3	
COEFFICIENT OF VARIATION	6.6	12.8	8.4	
14 14 14M				
5425	13.6*	15.0	15.0	102
ASSOCIATED COOPERATIVES INC				
30 10 0				
4141	30.0	10.0		100
4300	30.0	10.5		101
AVERAGE ANALYSIS	30.0	10.2		
COEFFICIENT OF VARIATION		3.4		
BALE FERTILIZER COMPANY				
20 20M				
7038		20.0	18.9	98
7319		21.9	18.6	104
7418 SEE NOTE 5 & 9		14.9*	20.0	83*
AVERAGE ANALYSIS		20.9	18.7	
COEFFICIENT OF VARIATION		6.4	1.1	
20 20M WITH 5 LBS BORAX				
7223 SEE NOTE 2 & 5		18.3*	20.6	95*
4 12 8M				
7215	4.0	11.9	9.1	102
7317	3.4*	10.3*	10.3	93*
7388	3.7*	12.1	9.2	101
7417	3.7*	11.4*	8.5	96*
7421 SEE NOTE 5	3.3*	10.4*	9.1	90*
7482 SEE NOTE 5	3.3*	10.3*	8.1	88*
AVERAGE ANALYSIS	3.5	11.0	9.0	
COEFFICIENT OF VARIATION	7.8	7.5	8.2	
5 10 15S				
7271	5.2	10.1	14.9	101
7320	4.9	10.0	16.7	103
7416	5.5	10.9	14.9	106
7486 SEE NOTE 5	4.2*	9.1*	13.5	89*
7602	4.1*	8.9*	17.5	95*
AVERAGE ANALYSIS	4.7	9.8	15.5	
COEFFICIENT OF VARIATION	12.8	8.2	10.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
BALE FERTILIZER COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 20S				
7422	4.9	9.8	20.0	99
5 20 20M				
7037	4.8	20.0	20.0	99
7224	5.5	22.3	17.7	105
7321	4.8	19.3*	21.5	99
7419 SEE NOTE 6	3.7*	17.5*	20.0	88*
7484	5.5	21.9	20.1	107
7603 SEE NOTE 5 & 9	8.7	5.3*	21.0	77*
AVERAGE ANALYSIS	4.8	20.2	19.8	
COEFFICIENT OF VARIATION	15.1	9.7	6.8	
6 8 6S				
7389	6.0	8.5	6.9	105
7390	5.9	8.7	6.4	104
AVERAGE ANALYSIS	5.9	8.6	6.6	
COEFFICIENT OF VARIATION	1.1	1.6	5.3	
6 12 12M				
7040	6.3	13.9	11.1	107
7214	5.9	12.1	13.0	102
7423 SEE NOTE 6 & 9	4.8*	10.4*	12.0	87*
AVERAGE ANALYSIS	6.1	13.0	12.0	
COEFFICIENT OF VARIATION	4.6	9.7	11.1	
6 12 18S				
7225	5.0*	12.0	24.2	105
8 24 16M				
7216	8.2	24.5	15.8	102
7483	8.0	25.4	14.4	101
AVERAGE ANALYSIS	8.1	24.9	15.1	
COEFFICIENT OF VARIATION	1.7	2.5	6.5	
10 10 10M				
7039	10.2	9.7	11.0	102
7318	10.3	8.6*	11.1	99
7420	10.0	10.4	10.0	101
7485 SEE NOTE 5 & 9	7.5*	6.2*	11.0	77*
AVERAGE ANALYSIS	10.1	9.5	10.7	
COEFFICIENT OF VARIATION	1.5	9.4	5.6	
10 30 20M				
7217	9.9	29.9	21.0	100
12 15 23S				
7604 SEE NOTE 6	10.9*	13.2*	27.2	97*
15 15 15M				
7481	14.9	17.4	12.3	102
BARTLETT & O BRYAN FERTILIZER COMPANY				
20 20M				
5227 SEE NOTE 4		19.2*	16.1	91*

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CONTINUED	(Percent)	(Percent)	(Percent)	
3 12 12M				
4590	3.1	10.7*	12.7	96*
4 12 8M				
4432	5.0	12.0	9.1	109
4589	4.3	11.6*	9.4	103
5437	4.0	12.8	8.5	105
5708	4.3	11.2*	9.2	101
AVERAGE ANALYSIS	4.4	11.9	9.0	
COEFFICIENT OF VARIATION	9.6	5.7	4.2	
5 10 15S				
4436	5.2	10.2	15.7	103
4588 SEE NOTE 1	5.0	10.8	16.0	105
5709 SEE NOTE 1	5.3	10.0	15.7	103
AVERAGE ANALYSIS	5.1	10.3	15.8	
COEFFICIENT OF VARIATION	2.9	4.0	1.0	
5 20 20M				
4434	5.7	19.0*	19.3	101
4586	5.1	19.8	20.2	100
AVERAGE ANALYSIS	5.4	19.4	19.7	
COEFFICIENT OF VARIATION	7.8	2.9	3.2	
6 12 12M				
4435	6.1	13.1	10.3	101
4587	6.0	12.2	12.0	101
AVERAGE ANALYSIS	6.0	12.6	11.1	
COEFFICIENT OF VARIATION	1.1	5.0	10.7	
10 10 10M				
4433	10.0	10.4	11.4	104
4584	10.2	10.1	10.9	103
AVERAGE ANALYSIS	10.1	10.2	11.1	
COEFFICIENT OF VARIATION	1.3	2.0	3.1	
12 12 12M				
4585	11.8	13.4	13.0	104
5228 SEE NOTE 4	9.4*	13.2	12.7	93*
AVERAGE ANALYSIS	10.6	13.3	12.8	
COEFFICIENT OF VARIATION	16.0	1.0	1.6	
BLACKSTONE GUANO COMPANY INC				
10 10 10M				
7633	9.6*	10.2	10.2	99
BLUEGRASS PLANT FOODS INC CYNTHIANA				
20 20M				
6110 SEE NOTE 5		18.3*	20.4	95*

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CYNTHIANA CONTINUED	(Percent)	(Percent)	(Percent)	
3 9 6M				
4215	3.0	8.0*	6.0	94*
4542	3.3	8.9	6.6	104
AVERAGE ANALYSIS	3.1	8.4	6.3	
COEFFICIENT OF VARIATION	6.7	7.5	6.7	
4 8 12S				
4216	4.5	8.6	12.2	107
4 12 8M				
4507	4.3	11.9	8.5	103
5765	4.2	11.4*	8.6	100
AVERAGE ANALYSIS	4.2	11.6	8.5	
COEFFICIENT OF VARIATION	1.6	3.0	.8	
5 10 5S WITH 00.15 LBS ALDRIN				
6281 SEE NOTE 3	5.1	10.0	16.5	104
5 10 10M				
5741	5.1	9.4*	10.6	99
5754	5.0	9.9	10.1	100
AVERAGE ANALYSIS	5.0	9.6	10.3	
COEFFICIENT OF VARIATION	1.3	3.6	3.4	
5 10 10S WITH 00.20 LBS ALDRIN				
4248 SEE NOTE 3	5.2	9.8	10.9	102
5 10 15S				
2930	5.1	10.1	14.9	101
4250	5.0	9.8	15.1	99
4251	5.1	10.1	15.0	101
4535	5.3	9.8	15.2	101
5142	5.3	10.1	15.0	102
5553	5.1	10.0	14.7	100
5742	5.0	10.0	15.0	100
5755	5.1	10.2	14.5	100
6111	5.1	10.1	15.2	101
6197	5.0	9.7	15.1	99
6201	5.1	9.7	15.0	99
6204	5.1	9.6*	14.9	99
7626	5.2	8.8*	17.8	102
AVERAGE ANALYSIS	5.1	9.8	15.1	
COEFFICIENT OF VARIATION	1.9	3.7	5.3	
5 15 0M WITH 00.31 LBS ALDRIN				
6443 SEE NOTE 3	5.3	14.2*		98
5 20 20M				
5554	4.8	20.7	19.9	101
5766 SEE NOTE 5	5.1	17.1*	19.9	93*
AVERAGE ANALYSIS	4.9	18.9	19.9	
COEFFICIENT OF VARIATION	4.2	13.4		
6 6 18S				
4247	6.3	6.4	17.7	103
4249	5.0	6.8	17.9	103
6394	6.1	6.1	18.0	101
6628	6.1	6.3	18.0	102
AVERAGE ANALYSIS	6.1	6.4	17.9	
COEFFICIENT OF VARIATION	2.0	4.5	.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 FOOD CYNTHIANA CONTINUED	(Percent)	(Percent)	(Percent)	
6 8 6S				
4543	5.9	7.7*	8.8	105
5555	5.9	7.9	6.6	100
5743	5.7*	8.2	7.5	103
5756	5.8	8.1	6.9	101
AVERAGE ANALYSIS	5.8	7.9	7.4	
COEFFICIENT OF VARIATION	1.6	2.7	13.0	
6 12 12M				
4213	6.0	11.3*	12.7	99
6202	5.9	12.0	12.4	100
AVERAGE ANALYSIS	5.9	11.6	12.5	
COEFFICIENT OF VARIATION	1.1	4.2	1.6	
8 10 15S				
4246	8.0	10.3	15.2	101
4534	7.7*	10.5	15.4	101
4545	8.0	10.6	15.3	103
6060	8.0	10.4	15.0	101
AVERAGE ANALYSIS	7.9	10.4	15.2	
COEFFICIENT OF VARIATION	1.8	1.2	1.1	
10 6 4M				
6790	10.0	6.0	5.3	103
10 10 10M				
4245	10.0	10.3	10.1	101
4544	9.6*	10.0	10.2	98
6203	8.6*	10.3	10.2	94*
6493 SEE NOTE 4	8.5*	10.4	10.2	94*
7625	10.2	9.9	10.5	102
AVERAGE ANALYSIS	9.3	10.1	10.2	
COEFFICIENT OF VARIATION	8.4	2.1	1.4	
BLUEGRASS PLANT FOODS INC DANVILLE				
10 20M WITH 2 LBS BORAX				
6378 SEE NOTE 2		11.1	20.4	107
10 30M WITH 5 LBS BORAX				
2957 SEE NOTE 2 & 4		11.3	27.1	99
7286 SEE NOTE 2		10.3	30.0	101
AVERAGE ANALYSIS		10.8	28.5	
COEFFICIENT OF VARIATION		6.5	7.1	
20 20M				
2961		21.7	18.1	103
5472 SEE NOTE 4		19.8	17.6	95*
5510 SEE NOTE 4		20.5	17.8	98
7288		21.8	18.2	103
AVERAGE ANALYSIS		20.9	17.9	
COEFFICIENT OF VARIATION		4.6	1.5	
20 20M WITH 5 LBS BORAX				
3560 SEE NOTE 2		20.4	20.0	101
7156 SEE NOTE 2 & 4		17.4*	20.1	92*
7615 SEE NOTE 2		23.0	18.6	108
AVERAGE ANALYSIS		20.2	19.5	
COEFFICIENT OF VARIATION		13.8	4.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 DANVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
3 9 6M				
5511	3.3	9.2	7.1	107
5820	3.9	9.3	8.1	116
AVERAGE ANALYSIS	3.6	9.2	7.6	
COEFFICIENT OF VARIATION	11.7	.7	9.3	
3 12 12M				
2842	3.1	12.1	11.7	100
6428	3.5	11.3*	12.7	102
7159	3.2	11.6*	13.4	103
7291	3.4	12.0	12.1	103
AVERAGE ANALYSIS	3.3	11.7	12.4	
COEFFICIENT OF VARIATION	5.5	3.1	5.9	
4 12 8M				
2837	3.9	13.5	8.2	107
2841	4.0	12.1	9.0	103
2867	4.1	11.4*	8.6	99
2959 SEE NOTE 9	4.3	13.6	10.7	115
2964	4.2	11.3*	8.7	100
3558	4.1	12.0	8.6	102
7287	4.1	11.6*	8.9	101
7371	4.1	12.0	8.6	102
7524	4.2	11.7	9.4	103
AVERAGE ANALYSIS	4.0	11.9	8.7	
COEFFICIENT OF VARIATION	2.4	5.7	4.0	
4 12 8M WITH 0035 LBS ALDRIN				
7173 SEE NOTE 3	4.1	11.7	8.9	101
4 16 4S WITH 0031 LBS ALDRIN				
2864 SEE NOTE 3	4.2	15.3*	5.0	100
2963 SEE NOTE 3	4.2	15.7	5.4	103
AVERAGE ANALYSIS	4.2	15.5	5.2	
COEFFICIENT OF VARIATION		1.8	5.4	
5 10 10M				
2873	5.2	9.6*	10.8	101
5512	5.0	9.9	10.4	100
5821	5.0	10.0	10.1	100
7172	5.2	9.4*	11.1	101
7526	5.1	9.7	10.5	100
AVERAGE ANALYSIS	5.1	9.7	10.5	
COEFFICIENT OF VARIATION	1.9	2.4	3.6	
5 10 10M WITH 0050 LBS ALDRIN				
5509 SEE NOTE 3	4.9	9.5*	10.6	98
5 10 15S				
2836	5.0	10.1	15.5	101
2866	5.2	9.8	15.0	100
2960	5.2	9.8	15.0	100
3423	5.1	10.0	16.0	103
3655	5.3	9.9	15.7	103
5822	5.0	9.9	15.0	100
6362	5.0	10.5	14.9	102
6372	5.1	9.5*	16.0	101
6379	5.0	9.6*	15.4	99
6526	5.1	9.9	15.0	100
7160	5.0	9.7	15.3	99
7175	5.1	10.0	15.6	102
7293	5.3	10.0	15.7	103
7366	5.2	10.0	14.9	101

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 DANVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
7523	5.1	10.0	14.9	100
7553	5.1	10.0	15.5	102
7616	5.1	9.9	15.3	101
AVERAGE ANALYSIS	5.1	9.9	15.3	
COEFFICIENT OF VARIATION	1.9	2.2	2.4	
5 10 15S WITH 00.5 LBS ALDRIN				
7517	5.2	9.5*	15.0	99
5 15 0				
5473 SEE NOTE 4	5.3	12.9*		93*
5 15 0 WITH 00.31 LBS ALDRIN				
2863 SEE NOTE 3	5.2	14.0*		97*
2962 SEE NOTE 3	5.0	15.0		100
AVERAGE ANALYSIS	5.1	14.5		
COEFFICIENT OF VARIATION	2.7	4.8		
5 20 20M				
2838	5.1	18.6*	21.5	99
4651	5.0	19.2*	20.3	98
7157	5.3	18.3*	20.3	97*
7178	5.3	19.4*	19.9	99
7285	5.2	20.0	20.5	101
7290	5.0	20.8	20.1	102
7373 SEE NOTE 7	5.5	15.6*	19.6	90*
AVERAGE ANALYSIS	5.2	18.8	20.3	
COEFFICIENT OF VARIATION	3.5	8.7	2.9	
6 6 18M				
2966	6.2	7.7	18.1	109
6 6 18S				
7284	6.2	6.8	17.8	104
6 8 6M				
6426	5.4*	9.1	7.3	104
7292	5.3*	8.6	9.3	106
7518	5.9	9.3	7.2	109
AVERAGE ANALYSIS	5.5	9.0	7.9	
COEFFICIENT OF VARIATION	5.8	4.0	14.9	
6 8 6S				
2868	6.1	8.2	6.1	102
3425	5.8	8.2	6.6	101
5823 SEE NOTE 1	5.8	8.9	10.0	113
7177	6.1	8.6	7.0	106
7368	6.0	8.3	7.4	105
AVERAGE ANALYSIS	5.9	8.4	7.4	
COEFFICIENT OF VARIATION	2.5	3.6	20.4	
6 8 6S WITH 1. LB ALDRIN				
6377 SEE NOTE 3	5.6*	9.3	7.0	106
6 12 12M				
2870	6.1	12.0	12.2	101
2871	6.2	11.5*	12.0	99
2965	5.8	12.2	12.2	100
AVERAGE ANALYSIS	6.0	11.9	12.1	
COEFFICIENT OF VARIATION	3.4	3.0	.9	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January - June, 1962

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 DANVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 18S				
2967	6.0	11.6*	18.5	100
7179	5.7*	12.3	18.0	100
AVERAGE ANALYSIS	5.8	11.9	18.2	
COEFFICIENT OF VARIATION	3.6	4.1	1.9	
8 10 15S				
2839	7.8	10.9	15.3	103
2872	8.0	10.6	15.0	102
6360	7.7*	10.6	15.0	101
7174	7.6*	10.5	15.4	100
7369	8.4	11.3	13.5	104
7519	7.9	10.1	15.0	100
AVERAGE ANALYSIS	7.9	10.6	14.8	
COEFFICIENT OF VARIATION	3.5	3.7	4.6	
8 10 15S WITH 00.15 LBS ALDRIN				
7520 SEE NOTE 3	8.0	10.8	14.1	101
10 0 20S				
7370	10.5		18.8	101
10 10 10M				
2840	10.0	10.2	10.3	101
2869	10.2	10.0	10.2	101
2958	9.3*	11.1	10.0	100
3426	9.5*	10.3	10.5	99
3559	10.0	10.6	10.0	102
3647	10.1	10.7	9.3	102
3749	9.6*	10.2	9.9	97*
5824	10.4	10.2	10.0	103
6361	10.3	10.0	10.0	102
6371	9.5*	10.0	11.5	100
6427	10.3	10.3	9.8	102
7158	9.8	10.5	11.8	104
7176	10.4	10.0	10.4	103
7367	10.3	10.3	10.6	104
7372	10.2	10.4	10.0	102
7516	10.4	10.3	9.1	102
7521	10.0	10.0	10.0	100
7525	10.1	10.1	10.1	101
AVERAGE ANALYSIS	10.0	10.2	10.1	
COEFFICIENT OF VARIATION	3.4	2.8	6.3	
12 12 12M				
4214	11.3*	12.0	12.2	97*
6514	11.9	12.1	12.0	100
AVERAGE ANALYSIS	11.6	12.0	12.1	
COEFFICIENT OF VARIATION	3.6	.5	1.1	
BUNTON SEED COMPANY				
6 12 6M				
6131	6.0	11.4*	7.5	101
6504	5.7*	11.9	7.6	101
AVERAGE ANALYSIS	5.8	11.6	7.5	
COEFFICIENT OF VARIATION	3.6	3.0	.9	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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)	
20 20M				
5918		22.8	18.1	106
3 12 12M				
4201	3.3	12.0	12.5	103
4 12 8M				
4200	3.8	11.8	8.0	98
4464	4.5	10.8*	8.0	98
4484	4.2	10.8*	8.1	96*
4719	4.2	11.1*	8.4	98
5758	4.3	11.1*	9.0	100
AVERAGE ANALYSIS	4.2	11.1	8.3	
COEFFICIENT OF VARIATION	6.0	3.6	5.1	
4 16 4S				
5329	4.6	15.1*	5.1	102
6160	4.5	14.6*	5.4	100
AVERAGE ANALYSIS	4.5	14.8	5.2	
COEFFICIENT OF VARIATION	1.5	2.3	4.0	
4 16 4S WITH 0030 LBS ALDRIN				
5330 SEE NOTE 3	4.3	15.1*	4.5	99
5 10 10M				
4528	5.2	9.7	10.0	100
5750	4.8	9.6*	10.9	99
AVERAGE ANALYSIS	5.0	9.6	10.4	
COEFFICIENT OF VARIATION	5.6	.7	6.0	
5 10 15S				
4198	5.0	10.0	15.0	100
4485	4.9	10.0	14.9	99
4720	4.7*	10.0	15.5	99
5751	4.7*	9.9	15.0	98
5759	4.8	10.0	15.0	99
6623	4.7*	9.8	15.4	98
AVERAGE ANALYSIS	4.8	9.9	15.1	
COEFFICIENT OF VARIATION	2.6	.8	1.6	
6 6 18S				
4204	6.0	6.4	17.8	101
6625	5.9	6.5	17.4	100
AVERAGE ANALYSIS	5.9	6.4	17.6	
COEFFICIENT OF VARIATION	1.1	1.0	1.6	
6 8 6S				
4203	6.0	8.0	6.4	101
5331	6.0	8.2	6.6	103
5919	5.4*	8.4	5.9	97*
6624	6.3	8.0	7.2	105
AVERAGE ANALYSIS	5.9	8.1	6.5	
COEFFICIENT OF VARIATION	6.3	2.3	8.2	
8 10 15S				
4199	7.5*	10.0	15.2	98

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
4197	8.9*	10.2	10.0	95*
5760 SEE NOTE 5	8.9*	10.0	9.6	94*
AVERAGE ANALYSIS	8.9	10.1	9.8	
COEFFICIENT OF VARIATION		1.3	2.8	
10 10 20S				
4202	9.7	9.3*	20.1	97*
11 0 20S				
4518	11.1		20.1	101
12 12 12M				
5752	12.9	13.7	12.0	108
CALIFORNIA CHEMICAL COMPANY				
10 20 20M				
5890	10.3	21.0	20.2	103
6287	10.3	21.8	20.0	105
AVERAGE ANALYSIS	10.3	21.4	20.1	
COEFFICIENT OF VARIATION		2.6	.7	
14 14 14M				
5891	14.5	14.9	13.9	104
6130	14.9	13.0*	14.0	101
6485	14.9	14.7	14.7	106
AVERAGE ANALYSIS	14.7	14.2	14.2	
COEFFICIENT OF VARIATION	1.5	7.3	3.0	
20 10 10M				
6486	20.2	10.1	10.1	101
6509	20.0	10.0	10.1	100
AVERAGE ANALYSIS	20.1	10.0	10.1	
COEFFICIENT OF VARIATION	.7	.7		
20 20 0				
6759	19.6	20.0		99
CARLISLE COUNTY FERTILIZER CO				
5 20 20M				
5814	4.7*	19.9	21.8	101
6 12 12M				
5815	6.0	12.2	12.2	101
6 24 24M				
5817 SEE NOTE 5	6.9	24.2	21.0	100
10 10 10M				
5816	10.7	9.8	10.2	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
CECIL FARM SUPPLY COMPANY	(Percent)	(Percent)	(Percent)	
20 20M				
4575		22.6	20.0	109
5 10 15S				
4416	5.2	8.8*	16.2	99
4573	5.8	10.1	15.5	106
AVERAGE ANALYSIS	5.5	9.4	15.8	
COEFFICIENT OF VARIATION	7.7	9.7	3.1	
5 20 20M				
4417 SEE NOTE 4	7.6	16.5*	18.8	99
4571 SEE NOTE 4 & 5	4.0*	17.5*	25.1	96*
AVERAGE ANALYSIS	5.8	17.0	21.9	
COEFFICIENT OF VARIATION	43.8	4.1	20.2	
6 12 12M				
4577 SEE NOTE 4	5.4*	10.1*	12.2	90*
6 24 24M				
4414 SEE NOTE 4 & 9	4.4*	23.3*	27.4	97*
4570 SEE NOTE 4 & 9	4.3*	20.3*	32.0	95*
8 24 16M				
4576 SEE NOTE 4	7.2*	31.2	11.8	109
9 18 27S				
4574	9.3	17.6*	27.0	100
10 10 10M				
4415 SEE NOTE 4	10.0	12.0	6.8	101
4572 SEE NOTE 9	12.3	13.2	18.6	137
CHEMICAL FORMULATORS INC				
5 10 5M				
5912 SEE NOTE 8	6.1	10.2		97*
CHILEAN NITRATE SALES CORPORATION				
15 0 14M				
5892	15.0		14.4	101
7218	15.0		14.6	101
AVERAGE ANALYSIS	15.0		14.5	
COEFFICIENT OF VARIATION			.9	
COASTAL CHEMICAL CORPORATION				
14 14 14M				
6722	13.8	14.1	15.2	101

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 COMPANY INC	(Percent)	(Percent)	(Percent)	
9 27M WITH 3 LBS BORAX				
7514 SEE NOTE 2		9.2	29.5	106
20 20M				
2844		21.2	18.6	102
5449		20.5	21.6	104
7071		20.0	23.6	106
7428		20.0	22.8	105
7601		19.4*	25.1	107
AVERAGE ANALYSIS		20.2	22.3	
COEFFICIENT OF VARIATION		3.3	10.9	
3 9 6M				
7430	3.2	9.6	6.4	107
3 12 12M				
7049	3.2	12.4	11.9	103
7256	3.2	12.9	11.3	104
AVERAGE ANALYSIS	3.2	12.6	11.6	
COEFFICIENT OF VARIATION		2.7	3.6	
4 12 8M				
2846	4.3	12.5	7.9	104
7424	4.2	11.3*	8.7	100
7429	4.2	11.3*	9.6	102
7435	4.2	11.5*	8.7	101
7437	4.3	11.8	8.9	103
5450	4.4	11.4*	8.6	101
7051	4.3	12.0	8.4	103
7254	4.4	11.7	8.6	103
AVERAGE ANALYSIS	4.2	11.6	8.6	
COEFFICIENT OF VARIATION	1.9	3.5	5.5	
4 12 8M WITH 0050 LBS ALDRIN				
7050 SEE NOTE 3	4.0	12.0	9.1	103
5 10 15S				
5451	5.0	10.3	15.0	101
7052	4.8	10.7	14.5	101
7249	5.4	10.0	14.9	102
7255	5.0	10.5	14.1	100
7425	4.9	10.1	15.2	100
7431	5.0	9.9	15.5	101
7440	5.0	10.0	15.0	100
7445	5.0	10.4	15.5	103
AVERAGE ANALYSIS	5.0	10.2	14.9	
COEFFICIENT OF VARIATION	3.4	2.7	3.1	
5 10 15S WITH 0030 LBS ALDRIN				
7426 SEE NOTE 3	5.0	10.4	13.9	99
5 20 20M				
2843	5.0	20.0	20.5	101
2899	4.7*	21.3	17.6	99
7046	4.5*	20.2	19.0	97*
7048	4.6*	20.8	19.3	100
7257	4.8	20.0	20.2	99
7427 SEE NOTE 5	5.0	18.2*	21.5	97*

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CO INC CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M CONTINUED				
7441 SEE NOTE 5	5.0	18.2*	23.0	99
7443 SEE NOTE 5	4.7*	16.8*	24.8	97*
7628	5.0	20.0	19.9	100
AVERAGE ANALYSIS	4.8	19.5	20.6	
COEFFICIENT OF VARIATION	4.0	7.4	10.5	
6 12 12M				
2845	6.0	10.6*	12.1	95*
5458	6.3	11.0*	12.9	100
7044	6.1	10.8*	13.2	98
7252	6.0	11.4*	12.0	98
7253	5.9	12.0	11.2	98
7433	6.3	11.2*	12.7	100
7436	6.0	12.3	12.2	101
7442	6.4	11.4*	12.0	100
7629	6.2	12.1	12.1	102
AVERAGE ANALYSIS	6.1	11.4	12.2	
COEFFICIENT OF VARIATION	2.8	5.2	4.8	
10 10 10M				
2900	9.7	10.5	10.0	100
5452	9.8	10.0	10.8	100
7047	9.9	9.6*	10.9	100
7250	9.2*	11.2	9.4	99
7251	10.0	10.1	10.2	101
7432	9.9	9.9	11.4	102
7439	10.3	10.6	10.6	105
7444	10.0	10.9	10.7	104
7600	10.9	9.8	9.1	102
AVERAGE ANALYSIS	9.9	10.2	10.3	
COEFFICIENT OF VARIATION	4.5	5.2	7.1	
COOPERATIVE FERTILIZER SERV BALTIMORE				
20 20M				
5608		20.0	20.1	100
COOPERATIVE FERTILIZER SERV BRISTOL VA				
25 25M				
5825		25.3	25.2	101
2 12 12M				
5289	2.2	12.2	12.2	103
5522	2.1	12.1	13.0	104
AVERAGE ANALYSIS	2.1	12.1	12.6	
COEFFICIENT OF VARIATION	3.2	.5	4.4	
5 10 5M				
5521	5.0	10.7	5.5	105
5 10 10M				
5290	5.2	10.6	10.0	104
5523	5.1	10.5	10.2	103
5826	5.0	10.3	10.0	101
AVERAGE ANALYSIS	5.1	10.4	10.0	
COEFFICIENT OF VARIATION	1.9	1.4	1.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 BRISTOL CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
5291	10.3	10.5	10.0	103
5524	10.0	10.7	10.1	103
5827	10.0	10.5	10.0	102
AVERAGE ANALYSIS	10.1	10.5	10.0	
COEFFICIENT OF VARIATION	1.7	1.0	.5	
10 20 20M				
5828	9.9	20.3	20.4	101
COOPERATIVE FERTILIZER SERV LOUISVILLE				
19 38M WITH 4 LBS BORAX				
1934 SEE NOTE 2		20.8	38.5	105
3301 SEE NOTE 2		20.9	38.0	105
3621 SEE NOTE 2		19.2	40.0	103
3790 SEE NOTE 2		19.3	40.0	103
3794 SEE NOTE 2		20.7	38.0	104
6384 SEE NOTE 2		19.5	39.0	103
6666 SEE NOTE 2		20.5	39.0	105
6850 SEE NOTE 2		19.7	39.5	104
AVERAGE ANALYSIS		20.0	39.0	
COEFFICIENT OF VARIATION		3.5	2.0	
30 30M				
3610		30.1	30.2	100
5206		31.1	28.8	101
5925		29.2*	30.5	99
5931		29.7	30.7	100
6495		30.1	30.0	100
6668		30.5	30.0	101
7106		29.9	30.0	100
7198		30.8	30.1	102
AVERAGE ANALYSIS		30.1	30.0	
COEFFICIENT OF VARIATION		2.0	1.8	
3 12 12M				
1933	3.2	11.6*	13.0	102
3204	3.4	12.0	12.1	103
3290	3.2	12.0	13.0	104
3429	3.2	11.7	12.7	102
4540	3.1	12.1	11.9	101
6774	3.2	12.0	12.5	102
7105	3.2	11.9	12.4	102
7200	3.2	11.4*	13.9	103
AVERAGE ANALYSIS	3.2	11.8	12.6	
COEFFICIENT OF VARIATION	2.5	2.0	4.9	
4 12 8M				
2851	4.0	12.5	8.4	103
3205	4.2	12.0	8.6	103
3293	4.3	11.5*	8.5	101
3449	4.2	12.0	8.9	103
5100	4.1	12.3	8.7	104
6279	4.1	11.9	9.3	103
6383	4.2	11.5*	8.6	100
6481	4.2	12.1	8.0	102
6614	4.1	12.3	8.5	103
6767	4.1	12.2	8.5	103
AVERAGE ANALYSIS	4.1	12.0	8.6	
COEFFICIENT OF VARIATION	2.0	2.7	3.9	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
4 16 4S				
1942	4.2	16.3	4.7	105
3212	4.2	15.9	5.6	104
3231	4.2	16.0	4.6	103
4226	4.1	16.1	4.5	102
4426	4.1	16.2	4.4	102
5254	4.1	16.2	4.4	102
5280	4.3	16.2	5.0	105
5340	4.3	16.4	4.4	104
6280	4.2	16.0	5.3	104
AVERAGE ANALYSIS	4.1	16.1	4.7	
COEFFICIENT OF VARIATION	1.8	.9	9.2	
4 16 4S WITH 0031 LBS ALDRIN				
2886 SEE NOTE 1 & 3	4.5	15.8	5.0	104
2894 SEE NOTE 3	4.1	16.1	4.6	102
3213 SEE NOTE 3	4.2	16.1	5.0	104
4296 SEE NOTE 3	4.2	16.0	4.6	103
5188 SEE NOTE 3	4.2	15.8	4.9	102
AVERAGE ANALYSIS	4.2	15.9	4.8	
COEFFICIENT OF VARIATION	3.5	.9	4.2	
5 10 15S				
1910	5.0	10.5	15.2	102
1917	5.0	10.3	15.0	101
2972	5.1	10.3	15.2	102
3206	5.1	10.4	15.5	103
3280	5.0	10.3	15.0	101
3288	5.0	10.9	14.5	103
3530	5.1	10.3	14.9	102
3582	5.0	10.3	15.0	101
3793	5.1	10.7	15.0	103
4155	5.1	10.4	15.3	103
4297	5.2	10.0	15.0	101
4532	5.0	10.3	14.9	101
5860	5.0	10.5	15.0	102
6001	5.0	10.2	15.1	101
6007	5.1	10.2	15.0	101
6192	5.0	10.5	15.0	102
6282	5.2	10.1	16.5	105
6683	5.0	10.4	15.0	102
6766	5.0	10.5	15.8	104
6776	5.0	10.2	15.0	101
7162	5.1	10.5	14.4	101
7199	5.1	10.1	15.2	101
7550	5.1	10.2	15.7	103
7612	5.0	10.5	15.2	102
AVERAGE ANALYSIS	5.0	10.3	15.1	
COEFFICIENT OF VARIATION	1.3	1.9	2.7	
5 10 15S WITH 0015 LBS ALDRIN				
3260 SEE NOTE 3	5.1	10.5	15.0	103
4307 SEE NOTE 3	5.0	10.3	15.0	101
5399 SEE NOTE 3	5.2	10.4	15.0	103
5544 SEE NOTE 3	5.0	10.4	15.0	102
6053 SEE NOTE 3	5.2	10.8	14.9	104
6444 SEE NOTE 3	5.0	10.5	15.2	102
AVERAGE ANALYSIS	5.0	10.4	15.0	
COEFFICIENT OF VARIATION	1.9	1.6	.6	
5 10 20S				
3667	5.0	10.3	20.0	101
4304	5.1	10.3	20.2	102
4488	5.0	10.1	20.0	100
AVERAGE ANALYSIS	5.0	10.2	20.0	
COEFFICIENT OF VARIATION	1.1	1.1	.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
1931	5.2	20.6	20.0	102
2984	5.0	20.9	20.0	102
3250	5.0	20.8	19.9	102
3282	5.3	19.6	20.0	100
3289	5.2	20.3	20.1	102
3428	5.1	20.5	20.0	102
3447	5.2	20.3	20.2	102
3533	5.3	20.7	20.1	103
3611	5.0	20.4	20.3	101
3618	5.1	20.2	20.0	101
4298	5.4	19.2*	19.8	99
4533	5.2	20.2	20.2	102
4725	5.1	20.1	20.2	101
6155	5.5	20.4	20.1	103
6186	5.2	20.3	20.1	102
6469	5.4	19.8	20.1	101
6669	5.2	19.9	20.4	101
6769	5.1	19.6	21.0	101
7024	5.3	20.3	20.0	102
7549	5.2	19.4*	20.7	100
AVERAGE ANALYSIS	5.2	20.1	20.1	
COEFFICIENT OF VARIATION	2.6	2.2	1.3	
5 20 20M WITH 2 LBS BORAX				
3775 SEE NOTE 2	5.3	20.0	20.0	101
4495 SEE NOTE 2	5.4	20.3	19.8	102
4723 SEE NOTE 2	5.1	20.2	19.2	100
7272 SEE NOTE 2	5.2	20.1	20.0	101
AVERAGE ANALYSIS	5.2	20.1	19.7	
COEFFICIENT OF VARIATION	2.4	.6	1.9	
6 8 6S				
1913	6.3	8.6	6.3	106
2983	6.2	8.5	6.0	104
3446	6.2	8.0	6.1	102
5189	6.0	8.3	6.5	103
5438	6.0	8.4	6.3	103
6058	6.2	8.9	6.5	107
6637	6.2	8.1	6.4	103
6768	6.0	8.3	6.7	104
AVERAGE ANALYSIS	6.1	8.3	6.3	
COEFFICIENT OF VARIATION	1.9	3.3	3.5	
6 12 12M				
3252	6.4	12.4	12.1	104
3292	6.1	12.4	12.2	102
3445	6.3	12.1	12.1	102
3620	6.3	12.1	12.2	102
3792	6.0	12.5	12.0	102
5926	5.9	12.4	12.2	101
6187	6.2	12.0	12.5	102
6193	6.1	12.3	11.9	101
6278	6.3	12.3	12.7	104
6482	6.0	13.2	12.7	106
6636	6.3	12.4	12.5	104
6667	6.0	12.2	12.5	102
6682	6.2	12.1	12.5	102
6775	6.2	12.2	12.2	102
AVERAGE ANALYSIS	6.1	12.3	12.3	
COEFFICIENT OF VARIATION	2.4	2.3	2.0	
8 10 15S				
3748	8.0	10.4	15.0	101
4531	8.1	10.9	15.0	104
6258	8.2	10.6	15.1	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
8 10 15S CONTINUED				
6483	8.1	10.7	15.0	103
6638	8.0	10.6	15.0	102
AVERAGE ANALYSIS	8.0	10.6	15.0	
COEFFICIENT OF VARIATION	1.0	1.7	.2	
10 10 10M				
1911	10.3	10.1	10.3	102
1932	10.0	10.5	10.2	102
2850	10.0	10.3	10.3	102
3281	10.2	10.4	10.0	102
3291	10.2	10.6	10.2	103
3427	10.5	10.6	10.4	105
3532	10.5	10.6	10.1	105
3619	10.2	10.4	10.4	103
3791	10.5	10.3	10.6	105
4345	10.1	10.4	10.1	103
4724	10.1	10.4	10.1	102
6257	10.5	10.5	10.0	104
6386	10.6	10.3	10.6	105
6496	10.2	10.5	10.2	103
6849	10.6	10.3	10.4	105
7008	10.5	10.5	9.9	104
7163	9.9	10.6	10.4	102
7613	10.2	10.3	10.0	102
AVERAGE ANALYSIS	10.2	10.4	10.2	
COEFFICIENT OF VARIATION	2.1	1.3	2.0	
10 10 10M WITH 0.50 LBS ALDRIN				
5400 SEE NOTE 3	10.2	11.0	9.4	103
6484 SEE NOTE 3	9.8	10.7	10.0	101
AVERAGE ANALYSIS	10.0	10.8	9.7	
COEFFICIENT OF VARIATION	2.8	1.9	4.3	
COOPERATIVE FERTILIZER SERV RUSSELLVILLE				
19 38M WITH 4 LBS BORAX				
7222 SEE NOTE 2		19.0	38.2	100
7592 SEE NOTE 2		17.9*	38.0	97*
AVERAGE ANALYSIS		18.4	38.1	
COEFFICIENT OF VARIATION		4.2	.3	
30 30M				
3306		30.6	28.6	100
4622		29.6	32.0	101
6329		28.1*	30.7	97*
7147		30.2	30.0	100
AVERAGE ANALYSIS		29.6	30.3	
COEFFICIENT OF VARIATION		3.7	4.6	
4 12 8M				
1947	4.5	11.7	8.7	104
2857	4.5	11.2*	9.8	104
3222	4.6	12.0	9.0	106
3233	4.4	11.5*	8.8	102
3305	4.3	11.5*	8.6	101
3385	4.5	11.9	8.4	104
3395	4.8	11.7	9.5	108

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
COOP FERT SERV RUSSELLVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M CONTINUED				
3512	4.6	12.0	8.6	105
4138	3.8	11.7	8.0	97*
4152	4.3	11.6*	8.3	101
4427	4.6	12.1	9.4	108
5101	4.2	11.6*	8.8	101
5102	4.0	11.6*	8.4	99
5191	4.0	12.1	9.0	103
5207	3.9	11.5*	8.0	97*
5581	4.6	12.0	8.6	105
6825	4.2	12.1	9.7	106
7107	4.3	12.0	8.3	103
AVERAGE ANALYSIS	4.3	11.7	8.7	
COEFFICIENT OF VARIATION	6.4	2.2	6.1	
5 10 15S				
1941	4.9	10.4	14.4	100
1950	5.1	10.0	15.5	102
2858	5.5	10.0	15.2	103
2985	5.1	10.0	14.9	100
3216	4.9	11.1	13.0	100
3223	5.3	9.9	14.8	101
3253	5.1	10.1	14.3	100
3303	4.9	11.0	13.2	100
3391	5.5	9.9	15.2	103
3511	5.3	10.5	15.5	105
4144	5.0	10.3	15.0	101
4154	5.1	10.0	15.0	101
4325	5.1	10.2	16.0	103
4429	5.4	10.0	14.9	103
5192	5.2	10.0	15.2	102
5208	5.1	9.9	15.2	101
5255	5.3	10.0	15.0	102
5582	5.4	9.9	15.5	103
6330	5.4	10.0	14.7	102
7011	5.3	10.3	15.0	103
7031	5.1	10.5	15.0	103
AVERAGE ANALYSIS	5.1	10.1	14.8	
COEFFICIENT OF VARIATION	3.6	3.3	4.7	
5 20 20M				
1939	5.1	20.3	18.9	100
1948	4.9	19.7	20.7	100
2832	5.0	19.9	20.0	100
2877	5.3	19.4*	19.4	99
2986	5.3	20.1	19.9	101
3215	5.2	20.1	19.9	101
3224	4.9	20.0	19.0	98
3232	5.3	19.8	20.2	101
3300	6.1	21.0	17.7	104
3384	5.1	20.5	19.7	101
3394	5.6	18.4*	20.4	99
3773	5.1	19.2*	20.5	99
4131	5.1	19.6*	21.4	101
4140	5.1	20.1	19.8	100
4323	5.2	20.0	20.9	102
4413	5.0	19.8	20.4	100
4525	4.8	20.0	20.0	99
4615	5.7	19.4*	19.4	100
5193	5.1	20.3	19.1	100
5209	5.2	19.4*	20.0	101
5440	5.1	19.2*	21.5	100
5583	5.1	20.0	20.1	101
5929	5.8	20.3	20.0	104
5941	6.0	20.2	19.4	104

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
COOP FERT SERV RUSSELLVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M CONTINUED				
7029	5.2	20.1	21.1	103
7133	5.7	20.0	19.6	102
7220	4.9	20.5	19.0	100
7240	5.0	19.9	19.8	99
7560	5.0	19.1*	21.2	99
AVERAGE ANALYSIS	5.2	19.8	19.9	
COEFFICIENT OF VARIATION	6.3	2.5	4.1	
6 12 12M				
1940	5.7*	12.1	12.2	99
1949	6.0	11.3*	13.2	100
2859	6.1	11.8	12.0	100
2879	6.0	11.5*	12.8	100
3214	5.7*	12.0	12.2	99
3234	6.2	10.9*	14.6	102
3251	6.3	11.3*	14.1	103
3304	6.2	12.4	12.5	104
3393	6.1	12.0	12.0	101
3776	5.9	11.9	12.7	100
4128	6.0	12.0	13.2	102
4139	5.6*	12.0	12.3	98
4326	6.3	12.1	12.4	103
4428	5.8	11.6*	12.4	98
5194	6.0	11.6*	12.5	99
5210	6.0	11.4*	12.5	99
5584	6.0	12.0	12.0	100
6823	6.0	12.1	11.3	99
6847	6.4	11.7	12.9	103
7028	5.8	11.9	13.0	100
7561	6.2	11.9	13.2	103
7576	6.3	12.1	12.7	103
AVERAGE ANALYSIS	6.0	11.8	12.6	
COEFFICIENT OF VARIATION	3.5	2.9	5.6	
6 18 12M				
5211	6.6	18.4	11.8	104
5585	6.5	18.4	13.0	105
5928	6.0	18.2	11.2	99
5930	6.4	18.3	12.7	104
6567	6.5	18.0	12.7	103
6846	6.1	18.8	10.8	101
7108	6.4	18.5	13.0	105
7139	6.2	18.5	12.0	102
7239	6.6	18.4	11.8	104
7459	5.9	18.7	11.4	101
AVERAGE ANALYSIS	6.3	18.4	12.0	
COEFFICIENT OF VARIATION	4.0	1.2	6.4	
10 10 10M				
2880	10.3	9.5*	10.4	101
3217	9.6*	10.5	9.5	99
3221	9.9	10.0	10.0	100
3302	9.6*	10.8	10.0	101
3392	9.2*	10.8	9.8	98
3513	9.5*	10.9	9.6	100
4130	10.2	10.0	10.2	101
4137	10.5	10.0	10.2	103
4327	9.4*	11.1	9.7	100
4430	10.4	9.4*	10.7	101
5212	10.1	10.0	9.9	100
5441	9.5*	10.8	9.3	99
6027	10.0	10.1	10.2	101
6028	9.9	10.0	10.6	101
6824	9.9	11.7	12.0	109
7221	9.5*	10.3	10.0	99
AVERAGE ANALYSIS	9.8	10.3	10.1	
COEFFICIENT OF VARIATION	3.9	5.9	6.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
COOP FERT SERV RUSSELLVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
10 20 20M				
3666	10.1	20.0	20.0	100
4702	10.0	18.7*	20.5	98
5213 SEE NOTE 6	9.3*	19.3*	19.1	95*
5317 SEE NOTE 5 & 7	8.9*	19.3*	19.7	94*
5586 SEE NOTE 4 & 7	9.1*	19.1*	19.6	96*
7023 SEE NOTE 4	9.2*	18.8*	19.3	94*
7204	9.9	20.0	19.5	99
7219	9.4*	20.0	20.0	98
7270	10.3	20.0	19.6	101
AVERAGE ANALYSIS	9.5	19.4	19.7	
COEFFICIENT OF VARIATION	3.2	2.7	2.1	
12 12 12M				
2878	11.7	12.2	12.7	100
2927	11.8	12.3	12.2	100
2973	12.0	12.4	12.1	101
3220	11.3*	12.5	12.2	99
3327	11.6*	12.2	11.9	99
3348	11.7	12.1	12.0	99
3386	12.1	12.0	12.0	100
4129	11.5*	12.8	12.2	100
4324	11.6*	12.9	11.8	101
4454	12.2	11.8	12.1	100
4462	11.9	12.1	12.1	100
4527	12.3	12.3	13.0	103
5113	11.4*	12.7	13.0	101
5137	11.9	12.2	12.1	100
5281	12.0	11.9	13.0	101
5308	11.6*	12.9	12.0	101
5377	11.8	12.5	12.7	102
5442	12.1	12.0	12.5	101
5538	12.2	12.0	11.8	101
5587	12.0	12.1	12.2	101
5740	12.4	12.0	12.2	102
5861	11.8	12.1	12.1	100
5920	11.1*	12.6	11.9	98
6331	11.7	12.2	12.5	100
6382	12.4	12.3	12.9	104
7010	11.8	12.6	12.7	102
7030	12.1	12.4	12.5	102
AVERAGE ANALYSIS	11.8	12.3	12.3	
COEFFICIENT OF VARIATION	2.7	2.4	3.0	
COOPERATIVE FERTILIZER SERV WINCHESTER				
19 38M WITH 4 LBS BORAX				
4227 SEE NOTE 2		20.1	39.5	105
4347 SEE NOTE 2		20.3	39.0	105
4498 SEE NOTE 2		20.4	38.7	105
5845 SEE NOTE 2		19.3	39.0	102
5862 SEE NOTE 2		21.7	38.0	107
5913 SEE NOTE 2		19.6	39.5	104
6795 SEE NOTE 2		18.5*	38.5	99
AVERAGE ANALYSIS		19.9	38.8	
COEFFICIENT OF VARIATION		5.0	1.3	
30 30M				
3451		31.0	30.5	103
3774		30.5	30.0	101
4228		30.0	30.0	100
4344		30.1	30.5	101
4497		31.7	30.0	104
4515		31.8	30.0	104

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 WINCHESTER CONTINUED	(Percent)	(Percent)	(Percent)	
30 30M CONTINUED				
4687		28.9*	30.5	98
5133 SEE NOTE 4		28.5*	30.0	97*
5309		30.9	30.5	103
5378		30.0	30.5	101
5401		30.1	32.5	103
5545		32.0	29.4	104
5641		31.4	30.0	103
5648		31.1	29.8	102
6374		31.6	29.2	103
7386		31.7	30.2	104
AVERAGE ANALYSIS		30.7	30.2	
COEFFICIENT OF VARIATION		3.3	2.3	
4 12 8M				
2943	4.1	12.1	8.1	101
3326	4.1	11.2*	8.4	98
3350	3.9	11.4*	10.0	101
3639	4.1	12.3	7.9	102
4142	4.1	11.4*	8.3	99
4455	4.1	11.0*	8.5	97*
4487	4.1	11.9	8.2	101
4500	4.2	12.2	8.4	103
5114	3.9	11.2*	9.7	100
5134	4.1	11.5*	8.5	100
5143	4.0	11.4*	8.5	98
5336	4.0	11.2*	8.6	98
5341	4.1	10.9*	9.0	98
5379	4.1	11.5*	9.0	101
5546	4.1	11.1*	8.9	99
5738	4.0	12.1	8.1	101
6806	4.5	11.4*	8.7	102
AVERAGE ANALYSIS	4.0	11.5	8.6	
COEFFICIENT OF VARIATION	3.2	3.8	6.4	
5 10 10M				
5609	5.3	10.3	10.6	105
5 10 15S				
1928	5.1	9.9	15.0	100
2909	5.1	10.1	15.0	101
3325	5.3	10.2	15.0	103
3448	5.1	9.6*	15.2	99
3638	5.3	9.7	15.0	101
3653	5.1	10.0	14.8	100
4153	5.0	9.9	15.2	100
4176	5.2	9.9	15.5	102
4230	5.1	9.9	15.4	101
4305	5.2	10.1	15.0	102
4346	5.1	10.4	15.0	102
5108	5.2	10.0	15.5	102
5115	5.2	10.0	15.4	102
5139	5.2	10.4	16.0	105
5144	5.2	10.0	15.4	102
5163	5.0	10.0	15.0	100
5171	5.1	10.1	15.0	101
5178	5.3	10.2	15.0	103
5318	5.3	10.5	15.2	104
5470	5.1	10.2	15.0	101
5547	5.2	10.1	15.0	102
AVERAGE ANALYSIS	5.1	10.0	15.1	
COEFFICIENT OF VARIATION	1.7	2.1	1.8	
5 10 20S				
7385	5.0	10.1	20.2	101

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 WINCHESTER CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
1912	5.0	20.0	20.1	100
2908	5.2	19.0*	20.0	98
2925	5.0	19.2*	20.2	98
3349	5.0	19.7	19.9	99
3450	5.2	19.2*	20.1	99
4229	5.1	20.0	20.5	101
4461	5.0	20.9	19.3	101
4486	5.0	19.7	20.2	99
4499	5.2	20.4	20.0	102
4517	5.2	20.1	20.1	101
4688	5.1	19.9	20.5	101
5319	5.2	18.6*	21.0	98
5548	5.0	20.0	20.2	100
5772	5.0	19.9	20.0	100
5846	5.0	19.0*	19.2	96*
6059	5.2	20.2	20.2	102
AVERAGE ANALYSIS	5.0	19.7	20.0	
COEFFICIENT OF VARIATION	1.8	3.0	2.1	
6 6 18S				
1914	6.3	6.2	17.9	103
1927	6.4	6.3	18.1	104
3261	6.1	6.1	18.0	101
4175	6.3	6.5	18.0	104
4302	6.0	6.4	17.8	101
4539	6.0	6.7	17.2	101
4558	6.2	6.2	17.5	101
4718	6.3	6.0	17.3	100
5164	6.4	6.7	18.1	106
5320	6.0	6.4	17.6	101
5471	6.2	6.9	18.0	105
5774	6.5	5.8	18.1	103
6057	6.0	6.4	17.9	101
6385	6.4	6.3	18.0	104
6635	6.2	6.4	18.1	103
7009	6.2	6.5	18.0	103
7161	6.3	6.4	18.0	104
AVERAGE ANALYSIS	6.2	6.3	17.8	
COEFFICIENT OF VARIATION	2.5	4.1	1.5	
6 8 6S				
1926	6.1	8.2	6.4	103
3324	6.4	8.1	6.4	105
4177	6.3	8.0	6.4	103
5109	6.0	8.2	6.7	103
5321	6.2	8.4	6.5	105
5337	6.4	7.8	6.1	102
5402	6.4	8.4	6.5	106
5549	6.1	8.2	6.4	103
5642	6.3	8.3	6.3	105
5757	6.2	8.1	6.1	102
5773	6.0	9.0	6.5	106
5834	6.0	7.9	6.1	100
AVERAGE ANALYSIS	6.2	8.2	6.3	
COEFFICIENT OF VARIATION	3.5	3.7	2.9	
6 12 12M				
3262	5.9	11.5*	12.1	98
3347	5.7*	11.7	11.2	96*
3654	6.2	11.6*	12.2	100
4143	6.0	11.9	12.4	100
4232	6.0	12.3	12.0	101
4303	6.1	11.3*	12.0	98
4456	6.0	11.7	12.5	100
4541	5.9	12.2	13.5	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 WINCHESTER CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M CONTINUED				
5135	6.0	11.2*	12.2	97*
5172	6.2	11.2*	12.5	98
5179	6.2	12.2	13.0	104
5310	6.2	12.0	12.2	101
5342	6.2	12.0	12.2	101
5380	6.2	12.0	12.4	102
5610	6.2	12.0	12.0	101
5643	6.0	12.1	12.1	101
5739	6.0	11.9	12.2	100
5835	5.9	11.5*	13.5	100
AVERAGE ANALYSIS	6.0	11.7	12.3	
COEFFICIENT OF VARIATION	2.4	2.9	4.4	
10 10 10M				
2926	9.5*	11.3	10.2	102
4178	10.3	10.0	10.2	102
4231	10.0	10.0	9.9	100
4301	10.6	10.1	10.2	104
4516	10.2	10.0	10.0	101
5322	10.1	10.3	11.0	103
5381	10.0	10.6	11.1	104
5539	10.3	10.2	10.5	103
5611	9.9	10.5	10.0	101
5649	10.1	10.3	10.1	102
5836	9.6*	10.5	11.2	102
5916	10.1	9.9	10.5	101
AVERAGE ANALYSIS	10.0	10.3	10.4	
COEFFICIENT OF VARIATION	2.9	3.7	4.3	
DARLING & COMPANY CAIRO ILLINOIS				
20 20M				
6231		19.7	22.9	104
3 9 27M				
6227	3.7	10.7	25.6	108
4 12 8M				
5259 SEE NOTE 9	3.7*	12.0	14.9	114
5418	4.0	12.7	9.6	107
5795	4.5	11.9	9.3	106
AVERAGE ANALYSIS	4.2	12.3	9.4	
COEFFICIENT OF VARIATION	8.3	4.5	2.2	
5 10 15S				
5261 SEE NOTE 1	6.8	10.2	14.2	110
5419 SEE NOTE 1	6.7	10.2	14.3	110
6230 SEE NOTE 1	6.7	10.4	14.3	110
6712	6.6	10.0	14.5	109
AVERAGE ANALYSIS	6.7	10.2	14.3	
COEFFICIENT OF VARIATION	1.2	1.6	.8	
5 20 20M				
5796	5.9	20.0	18.8	102
6228	5.0	20.0	20.2	100
6742	6.5	18.4*	19.9	102
AVERAGE ANALYSIS	5.8	19.4	19.6	
COEFFICIENT OF VARIATION	13.0	4.7	3.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CAIRO CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M				
5260	6.3	12.5	12.4	104
5277	5.8	12.2	12.6	101
5420	5.7*	12.1	12.9	100
5898	6.2	12.0	12.0	101
6570 SEE NOTE 9	12.0	12.4	12.2	135
6582	6.4	12.6	12.4	105
6744	6.0	12.5	11.9	102
AVERAGE ANALYSIS	6.0	12.3	12.3	
COEFFICIENT OF VARIATION	4.6	2.0	3.0	
10 10 10M				
5262	9.8	10.3	10.9	102
5278	9.7	10.4	11.2	102
5421	9.4*	10.7	10.4	102
6232	9.7	10.6	10.5	101
6740	9.6*	11.1	10.7	103
AVERAGE ANALYSIS	9.6	10.6	10.7	
COEFFICIENT OF VARIATION	1.5	2.9	2.9	
12 12 12M				
5256	12.0	12.4	12.0	101
5279	11.7	12.1	12.2	99
5797	11.8	12.6	11.6	100
5903	12.0	12.9	12.0	103
6229	11.8	12.2	12.0	100
AVERAGE ANALYSIS	11.8	12.4	11.9	
COEFFICIENT OF VARIATION	1.1	2.5	1.8	
15 15 15M				
5257 SEE NOTE 6	13.8*	15.4	15.0	97*
5422	13.8*	16.1	15.5	99
6571	15.2	16.0	14.9	102
AVERAGE ANALYSIS	14.2	15.8	15.1	
COEFFICIENT OF VARIATION	5.6	2.3	2.1	
ELANCO PRODUCTS COMPANY				
10 5 5M				
7384	9.4*	5.8	6.6	103
E TOWN FERTILIZER COMPANY				
10 30M				
7152		10.7	29.2	101
19 38M WITH 3 LBS BORAX				
1915 SEE NOTE 2		19.1	38.8	101
20 20M				
7155		20.6	20.2	102
7234		19.9	19.9	100
7298		19.9	19.5	99
7530		18.2*	22.0	97*
7532		19.7	22.5	103
7534		18.2*	23.0	99
AVERAGE ANALYSIS		19.4	21.1	
COEFFICIENT OF VARIATION		5.1	7.0	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January - June, 1962

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 COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
3 12 12M				
2862	3.5	12.0	12.3	104
7018	3.9	12.1	12.1	107
7019	3.9	12.2	12.2	107
7226	3.5	11.3*	12.5	101
7235	3.5	11.0*	12.7	100
7533 SEE NOTE 9	3.8	14.3	13.0	118
7539	3.7	12.7	13.7	112
7542	3.6	12.8	13.8	112
AVERAGE ANALYSIS	3.6	12.0	12.7	
COEFFICIENT OF VARIATION	4.9	5.5	5.5	
4 12 8M				
7016	4.5	12.3	8.1	105
7227	4.2	12.3	8.3	103
7295	4.5	11.9	7.8	103
7301	4.5	12.8	9.0	109
7535	4.7	12.8	8.6	110
AVERAGE ANALYSIS	4.4	12.4	8.3	
COEFFICIENT OF VARIATION	3.9	3.0	5.5	
4 24 12M				
7232 SEE NOTE 4	4.5	20.9*	15.6	98
7297 SEE NOTE 5	5.1	20.8*	13.5	98
AVERAGE ANALYSIS	4.8	20.8	14.5	
COEFFICIENT OF VARIATION	8.8	.3	10.2	
5 10 15S				
2861	5.4	10.0	15.8	104
7012	5.5	10.2	16.0	106
7153	5.5	10.2	16.1	106
7229	5.4	10.0	16.0	104
7299	5.5	10.7	15.2	106
7537	5.6	11.1	13.0	104
7538	5.8	10.9	14.0	106
AVERAGE ANALYSIS	5.5	10.4	15.1	
COEFFICIENT OF VARIATION	2.4	4.3	7.9	
5 20 20M				
7013	5.5	21.4	18.3	103
7228	5.3	21.8	19.3	105
7296	5.3	20.8	20.5	104
7303	5.3	20.0	21.5	103
AVERAGE ANALYSIS	5.3	21.0	19.9	
COEFFICIENT OF VARIATION	1.8	3.7	7.0	
6 12 12M				
7015	6.3	12.3	12.0	103
7300	6.3	13.0	12.7	107
7540	6.1	12.2	11.4	100
7541	6.5	12.3	13.7	107
AVERAGE ANALYSIS	6.3	12.4	12.4	
COEFFICIENT OF VARIATION	2.5	2.9	7.9	
10 10 10M				
7017	10.5	10.5	11.7	107
7154	10.5	11.3	10.5	108
7231	10.5	11.5	10.6	109
7233	10.0	10.5	11.2	104
7302	11.1	10.2	10.5	107
7531	10.7	10.7	10.5	107
7543	9.6*	12.0	12.2	108
AVERAGE ANALYSIS	10.4	10.9	11.0	
COEFFICIENT OF VARIATION	4.6	5.9	6.2	

(Table 1 continued in Part 2)

Regulatory Bulletin 175 **Part 2**

ANALYSES OF OFFICIAL FERTILIZER SAMPLES

by the

FEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT STATION

SEMI-ANNUAL REPORT
SPRING SEASON
JANUARY-JUNE, 1962

UNIVERSITY OF KENTUCKY, LEXINGTON

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This report compiled and prepared by Bruce Poundstone and W. J. Huffman
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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 refund based upon this analysis.

Note 6. Product re-labeled and sold according to laboratory finding.

Note 7. Purchaser could not be determined; refund based upon the analysis, sent to charity.

Note 8. Returned to plant.

Note 9. This sample not included in average. See "Wild" samples on page 17.

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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)	
12 20S WITH 0017 LBS ALDRIN 7599 SEE NOTE 3		12.2	17.6	95*
4 12 8M 7477	4.2	11.2*	7.9	98
5 10 15S 7635	3.9*	9.5*	16.0	93*
8 10 12S WITH 0012 LBS ALDRIN 7606 SEE NOTE 3 & 5	6.8*	10.0	13.7	97*
10 8 12S 7598 SEE NOTE 5 & 9	8.3*	9.7	18.1	108
10 10 10M 7476	9.8	10.6	10.1	101
11 7 11S 7605 SEE NOTE 5	8.7*	10.2	13.5	103
18 6 6S 7515 SEE NOTE 9	13.3*	7.1	9.1	88*
FEDERAL CHEMICAL COMPANY DANVILLE ILL				
4 16 16M 4119	3.9	16.6	18.8	106
FEDERAL CHEMICAL COMPANY HUMBOLDT TENN				
20 20M 5811		18.9*	20.0	96*
4 12 8M				
5407	4.0	12.7	8.2	104
5427	3.9	12.0	7.3	98
5788	4.1	11.9	8.5	101
6225	4.4	12.0	8.2	103
6241 SEE NOTE 9	4.3	11.0*	12.7	108
6243 SEE NOTE 9	6.0	11.6*	8.6	113
6548 SEE NOTE 9	6.3	12.4	12.0	127
6558 SEE NOTE 9	5.8	11.9	12.0	121
AVERAGE ANALYSIS	4.1	12.1	8.0	
COEFFICIENT OF VARIATION	5.2	3.0	6.4	
5 10 15S				
1954 SEE NOTE 1	4.6*	10.8	14.2	99
5408 SEE NOTE 1	5.0	10.4	14.2	100
5428 SEE NOTE 1	5.4	10.7	13.8	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 COMPANY HUMBOLDT CONTINUE	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
5806 SEE NOTE 1	4.8	10.8	13.8	100
6210 SEE NOTE 1	5.0	10.4	13.4	98
6226 SEE NOTE 1	4.3*	11.7	13.8	100
6244 SEE NOTE 1	5.0	10.2	14.0	99
6536 SEE NOTE 1	5.2	10.1	14.5	101
6547 SEE NOTE 1	5.3	10.0	15.0	102
6709 SEE NOTE 1	5.2	10.7	14.5	103
6716 SEE NOTE 1	5.1	10.8	15.6	105
6717 SEE NOTE 1	4.9	11.0	14.9	103
6719 SEE NOTE 1	5.0	11.3	14.2	104
AVERAGE ANALYSIS	4.9	10.6	14.3	
COEFFICIENT OF VARIATION	5.8	4.4	4.1	
5 10 15S WITH 00.15 LBS ALDRIN				
5790 SEE NOTE 1, 3 & 5	4.8	10.7	15.0	102
5 20 10M				
5792 SEE NOTE 7	5.2	17.7*	10.6	95*
5798	6.4	17.5*	10.0	99
6574 SEE NOTE 5	6.4	17.1*	10.2	98
AVERAGE ANALYSIS	6.0	17.4	10.2	
COEFFICIENT OF VARIATION	11.5	1.7	2.9	
5 20 20M				
5409	5.8	21.7	18.8	106
5799 SEE NOTE 5 & 9	5.0	15.2*	18.2	85*
6535 SEE NOTE 7	4.1*	18.5*	19.4	92*
6559	5.1	20.1	17.8	98
6575 SEE NOTE 5	4.1*	18.9*	19.0	92*
6711 SEE NOTE 4 & 5	4.7*	18.0*	20.2	94*
6714 SEE NOTE 5	4.3*	18.1*	19.9	92*
6741 SEE NOTE 5	5.0	16.6*	19.0	90*
AVERAGE ANALYSIS	4.7	18.8	19.1	
COEFFICIENT OF VARIATION	13.1	8.7	4.1	
6 12 12M				
1953	6.2	12.6	13.5	106
5410	6.2	12.3	12.2	103
5429	5.9	12.3	11.4	99
5807	6.1	12.0	12.7	102
6211	6.0	11.9	11.6	99
6224	5.7*	12.0	12.9	100
6242	5.9	11.7	12.0	98
6246	6.1	12.0	12.0	101
6546	5.9	12.0	12.2	100
6710	5.8	12.1	10.9	97*
6718	6.0	11.7	11.9	99
6720	5.9	11.1*	10.9	94*
AVERAGE ANALYSIS	5.9	11.9	12.0	
COEFFICIENT OF VARIATION	2.5	3.1	6.4	
6 12 12M WITH 00.50 LBS BORAX				
6545 SEE NOTE 3 & 6	5.9	12.0	12.5	100
10 10 10M				
1952 SEE NOTE 4	8.2*	10.1	10.7	93*
5411	10.0	10.6	10.3	103
5430	9.6*	10.9	10.0	101
5789	8.3*	10.7	10.4	95*
6212	10.0	10.9	11.6	106
6247	10.5	10.2	10.6	104
6708 SEE NOTE 4	7.4*	10.8	11.1	92*
AVERAGE ANALYSIS	9.1	10.6	10.6	
COEFFICIENT OF VARIATION	12.7	3.0	5.0	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 COMPANY HUMBOLDT CONTINUE	(Percent)	(Percent)	(Percent)	
12 12 12M				
5412	12.5	12.2	10.6	101
5812	11.6*	11.4*	13.0	98
5906	11.7	12.0	12.5	99
6245	11.3*	12.0	13.7	99
6576	10.5*	12.5	12.1	95*
AVERAGE ANALYSIS	11.5	12.0	12.3	
COEFFICIENT OF VARIATION	6.2	3.3	9.3	
15 10 10M				
6534	14.6*	11.2	11.0	103
15 15 15M				
5813 SEE NOTE 5	9.8*	13.2*	14.4	78*
6537	14.9	15.7	17.7	104
6549 SEE NOTE 5	11.5*	13.4*	13.0	83*
6560 SEE NOTE 5	12.5*	14.3*	15.0	90*
AVERAGE ANALYSIS	12.1	14.1	15.0	
COEFFICIENT OF VARIATION	17.5	8.0	13.1	
FEDERAL CHEMICAL COMPANY LOUISVILLE				
9 27M WITH 5 LBS BORAX				
4290 SEE NOTE 2		9.5	27.0	102
5155 SEE NOTE 2		9.5	27.2	103
AVERAGE ANALYSIS		9.5	27.1	
COEFFICIENT OF VARIATION			.5	
10 30M WITH 5 LBS BORAX				
4708 SEE NOTE 2		10.0	29.3	99
6478 SEE NOTE 2		13.1	25.0	102
6618 SEE NOTE 2		11.0	29.5	103
AVERAGE ANALYSIS		11.3	27.9	
COEFFICIENT OF VARIATION		13.9	9.1	
20 20M				
3286		20.0	20.5	101
3623		20.6	21.2	104
4151 SEE NOTE 6		17.8*	21.6	95*
4279		20.0	20.5	101
6073		18.5*	19.9	95*
6076		18.8*	19.9	96*
6109 SEE NOTE 5		17.6*	18.5	90*
6171		18.4*	20.7	96*
6425		18.8*	20.1	96*
6475		20.0	20.1	100
6620 SEE NOTE 4 & 9		24.0	13.7	103
7094		20.5	19.0	100
7190 SEE NOTE 5 & 6		17.9*	19.1	92*
AVERAGE ANALYSIS		19.0	20.0	
COEFFICIENT OF VARIATION		5.7	4.4	
20 20M WITH 5 LBS BORAX				
7328 SEE NOTE 2		19.9	20.0	100
3 9 6M				
5304	3.2	10.2	6.7	111

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
3 9 27M				
4734	3.7	11.2	24.6	108
5223	3.8	9.8	24.8	103
6010	4.8	9.4	23.5	105
6619	3.6	10.0	26.3	106
7344	3.5	10.2	26.3	106
AVERAGE ANALYSIS	3.8	10.1	25.1	
COEFFICIENT OF VARIATION	13.5	6.6	4.7	
3 12 12M				
4285	3.7	12.2	12.1	106
4715	3.9	12.5	11.7	108
5385	3.8	12.0	11.9	105
5842	4.3	13.7	11.5	115
5847	3.3	12.0	12.0	102
6009	3.3	12.2	12.0	103
6169	3.9	11.7	12.2	105
6284 SEE NOTE 9	5.0	12.2	13.7	118
6754	3.1	12.0	12.7	102
7189	3.6	12.4	12.9	108
7333	3.3	12.0	13.7	106
AVERAGE ANALYSIS	3.6	12.2	12.2	
COEFFICIENT OF VARIATION	10.2	4.4	5.3	
4 12 8M				
1989	4.2	12.0	9.2	104
3452	3.8	12.2	8.1	100
3557	4.2	12.5	9.4	107
4148	4.3	12.0	8.1	102
4257	3.6*	12.9	8.1	99
4266	3.9	12.9	8.2	104
4289	3.8	12.1	9.1	102
4604	4.0	11.9	8.6	101
4717	4.0	13.5	10.0	111
5148	4.3	12.4	8.0	104
5388	4.0	12.1	8.3	101
5446	4.4	12.0	10.8	109
5563	4.2	12.2	10.2	107
5570	4.0	11.2*	8.5	98
5593	3.8	12.1	8.1	99
6100	4.1	12.1	8.2	102
6148	4.0	11.4*	9.0	100
6586	3.9	11.9	8.6	100
6589	4.6	12.1	9.0	107
6797	4.2	11.6*	9.1	102
7095	3.7*	11.9	8.9	100
7192	3.9	12.2	8.2	101
7277	4.0	12.5	8.1	103
7334	4.3	11.4*	9.5	103
AVERAGE ANALYSIS	4.0	12.1	8.8	
COEFFICIENT OF VARIATION	5.8	4.1	8.6	
4 16 4S				
1988 SEE NOTE 1	4.9	16.1	5.6	109
4146 SEE NOTE 1	4.8	16.1	5.1	108
4284 SEE NOTE 1	4.5	16.2	4.9	106
5149	4.7	16.4	4.4	107
6041 SEE NOTE 1 & 4	4.5	13.8*	9.8	106
6271 SEE NOTE 1	4.1	15.4*	6.5	103
AVERAGE ANALYSIS	4.5	15.6	6.0	
COEFFICIENT OF VARIATION	6.2	6.2	32.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
4 16 4S WITH 00.1875 LBS ALDRIN				
2000 SEE NOTE 1 & 3	4.2	14.8*	8.1	105
3248 SEE NOTE 1, 3 & 9	3.7*	14.1*	10.3	103
5146 SEE NOTE 3	4.4	16.2	4.6	105
AVERAGE ANALYSIS	4.3	15.5	6.3	
COEFFICIENT OF VARIATION	3.2	6.3	38.9	
5 10 10M				
5311	5.0	10.3	9.1	99
5389	4.6*	9.9	9.5	96*
5613 SEE NOTE 5	4.0*	9.2*	9.6	89*
5745	4.6*	9.5*	10.0	95*
5838	4.7*	9.9	10.0	98
AVERAGE ANALYSIS	4.5	9.7	9.6	
COEFFICIENT OF VARIATION	7.9	4.3	3.9	
5 10 15S				
1935	4.9	10.5	14.1	100
1990	5.0	10.4	14.4	100
3285	4.7*	10.1	15.0	99
3454	5.0	9.9	15.0	100
4145	4.9	10.4	14.5	100
4287	5.0	9.9	15.0	100
4402	5.1	9.9	15.0	100
4562 SEE NOTE 1	4.7*	10.0	15.2	99
4605	4.9	10.2	15.0	100
5156	5.0	10.3	15.0	101
5493	4.8	10.4	15.2	101
5564 SEE NOTE 1	5.0	10.6	14.4	101
5571 SEE NOTE 1	4.9	10.0	14.4	98
5594	5.1	10.4	13.9	100
5702	5.4	10.4	13.8	102
5710	4.7*	10.5	14.7	100
5716	4.7*	10.2	15.0	99
5746	4.7*	10.2	15.2	99
6108	5.0	10.0	15.5	101
6269	5.1	9.9	14.9	100
6423	4.9	10.0	15.0	99
6479	5.2	10.5	14.4	102
6588	5.1	10.2	15.2	102
6598	4.8	10.0	15.0	99
6752	4.5*	9.7	17.2	100
6815	4.7*	9.7	16.2	99
7188	4.7*	10.1	15.1	99
7276	5.6	10.2	14.7	104
7330	5.1	10.5	14.5	102
7556	5.0	9.5*	15.4	99
AVERAGE ANALYSIS	4.9	10.1	14.9	
COEFFICIENT OF VARIATION	4.6	2.7	4.3	
5 10 15S WITH 00.15 LBS ALDRIN				
4288 SEE NOTE 3	4.8	10.1	15.0	99
5147 SEE NOTE 3	5.0	10.4	14.9	101
5240 SEE NOTE 3	4.7*	10.2	15.0	99
5595 SEE NOTE 3	5.0	10.3	14.5	100
6255 SEE NOTE 3 & 5	4.7*	10.2	14.8	99
6399 SEE NOTE 3 & 5	5.1	10.2	14.3	100
6480 SEE NOTE 3 & 5	5.0	10.5	13.9	100
AVERAGE ANALYSIS	4.9	10.2	14.6	
COEFFICIENT OF VARIATION	3.3	1.3	2.8	
5 20 20M				
3242	5.2	20.0	20.7	102
3246	4.6*	20.0	19.4	98
3287	5.4	20.0	20.1	102

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M CONTINUED				
3453	4.8	19.8	20.0	99
4158	4.7*	20.3	22.4	103
4281	4.2*	18.8*	23.8	99
4403	5.1	18.9*	20.0	97*
4564 SEE NOTE 7	4.7*	17.5*	21.5	94*
4712	4.7*	18.7*	21.5	97*
5704	4.9	20.0	19.3	99
5730	4.3*	19.7	21.2	98
6008	5.1	20.0	19.3	99
6144	4.8	20.8	20.7	102
6473	4.7*	20.8	17.8	98
6532	5.0	19.8	20.0	99
6622	4.7*	19.6	20.1	98
6814	4.9	20.7	16.2	96*
7093	4.8	20.3	20.2	100
7129 SEE NOTE 4	4.8	20.0	16.7	95*
7191	4.8	19.7	18.9	97*
7275	4.2*	19.3*	21.0	96*
7406	4.7*	19.2*	20.9	98
7623 SEE NOTE 5	5.1	20.2	16.7	97*
AVERAGE ANALYSIS	4.7	19.7	19.9	
COEFFICIENT OF VARIATION	6.1	3.8	9.1	
5 20 20M WITH 5 LBS BORAX				
3249 SEE NOTE 2	5.5	19.7	21.2	103
6 6 18S				
1930	5.1*	8.0	18.0	103
1938	6.0	6.5	18.0	102
4149	6.3	6.5	18.2	104
4273	5.7*	6.7	17.9	101
4709	5.8	6.5	18.5	102
6072 SEE NOTE 1	6.0	8.2	16.8	107
6143 SEE NOTE 1	5.9	7.6	17.8	106
6439	5.9	6.8	18.0	103
6441	5.7*	6.6	18.1	101
6617	6.0	7.3	17.0	103
6791	5.8	6.5	18.5	102
AVERAGE ANALYSIS	5.8	7.0	17.8	
COEFFICIENT OF VARIATION	5.0	9.2	3.0	
6 6 18S WITH 00.15 LBS ALDRIN				
4274 SEE NOTE 3 & 6	6.2	6.6	17.9	104
6442 SEE NOTE 3	6.1	6.5	18.1	103
AVERAGE ANALYSIS	6.1	6.5	18.0	
COEFFICIENT OF VARIATION	1.1	1.0	.7	
6 8 6M				
4272	5.6*	8.0	6.2	98
4710	5.8	8.2	6.7	101
5157	6.0	9.0	6.5	106
5305	5.8	8.1	6.5	100
5312	5.7*	8.6	6.2	101
5382	5.7*	8.9	7.0	105
5494 SEE NOTE 9	4.9*	9.9	11.9	116
5703	6.1	9.6	7.8	113
6170	5.7*	9.3	6.2	105
6283	5.8	9.3	7.3	108
6357	6.6	9.2	7.2	114
6465	5.8	9.5	8.4	112
6468	5.8	9.6	8.1	112
6644	4.8*	9.1	8.7	103
6680	5.6*	8.8	7.5	105
6753	5.4*	8.2	7.3	100
6796	5.6*	9.2	8.8	110
AVERAGE ANALYSIS	5.6	8.8	7.2	
COEFFICIENT OF VARIATION	5.2	6.2	12.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
6 8 6S				
1999	5.8	8.2	6.9	102
4150	4.5*	10.0	7.2	102
4280	6.2	8.3	6.9	105
4563	5.5*	7.7*	7.1	98
5158	5.9	8.9	7.0	106
5244	5.5*	8.7	6.7	102
5761	5.7*	9.1	6.7	105
5843	6.4	8.5	8.5	112
6398	5.7*	8.4	6.6	101
7112	6.2	8.7	6.7	107
AVERAGE ANALYSIS	5.8	8.7	7.0	
COEFFICIENT OF VARIATION	9.7	6.9	7.4	
6 12 12M				
1991	5.8	12.2	12.1	100
3247	5.8	12.5	12.0	101
3659	6.0	12.2	12.2	101
4156	6.0	12.4	11.5	101
4278	6.1	12.1	11.6	100
4405	6.1	12.1	12.4	102
4606	6.4	12.4	11.7	103
4711	6.0	12.1	12.5	101
5159	5.9	12.5	11.8	101
5383	6.0	12.3	12.0	101
5390	5.5*	12.0	11.9	97*
5565	6.6	12.4	11.6	104
5572	6.0	12.0	12.1	100
6107 SEE NOTE 9	9.4	11.0*	11.5	114
6464	6.1	11.9	12.6	101
6645	6.1	12.3	12.0	102
6679	5.8	12.1	13.6	102
6813	6.1	12.0	12.2	101
7274	6.0	12.0	12.9	110
AVERAGE ANALYSIS	6.0	12.1	12.1	
COEFFICIENT OF VARIATION	3.9	1.5	4.2	
6 12 18S				
2968	5.5*	13.4	17.5	101
6 24 12M				
4286	6.7	24.5	12.1	104
4736	5.9	23.2*	12.7	98
7332	5.9	24.4	12.2	101
AVERAGE ANALYSIS	6.1	24.0	12.3	
COEFFICIENT OF VARIATION	7.4	3.0	2.6	
6 24 24M				
4735	6.2	23.1*	22.6	97*
5867 SEE NOTE 5 & 9	5.8	19.1*	21.3	85*
9 10 15S				
2831	9.0	10.3	14.9	101
4147 SEE NOTE 1	9.2	10.7	15.1	103
4282	9.1	10.4	15.0	102
4404 SEE NOTE 1	8.9	10.5	15.0	101
4453	9.1	10.3	15.0	101
5731	9.0	10.8	13.7	100
6075 SEE NOTE 1	8.6*	10.0	15.2	98
6099	9.2	10.6	14.8	103
6166	9.4	10.2	14.7	102
6391	9.1	10.5	15.2	102
6397	9.0	10.3	14.6	100
6446 SEE NOTE 1	9.0	11.0	14.9	108

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January - June, 1962

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 LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
9 10 15S CONTINUED				
6597 SEE NOTE 1	8.8	10.4	15.2	101
6670	8.6*	10.0	15.9	100
6787	8.2*	11.5	14.0	99
6812	8.2*	10.6	15.7	99
7092	9.0	10.7	14.8	102
7111	9.0	10.2	14.9	100
AVERAGE ANALYSIS	8.9	10.5	14.9	
COEFFICIENT OF VARIATION	3.6	3.4	3.3	
9 10 15S WITH 0.50 LBS ALDRIN				
4283 SEE NOTE 3	9.0	10.2	14.9	100
6079 SEE NOTE 3	8.7*	10.4	14.3	99
6450 SEE NOTE 3	8.2*	10.8	14.7	98
AVERAGE ANALYSIS	8.6	10.4	14.6	
COEFFICIENT OF VARIATION	4.6	2.9	2.0	
10 10 10M				
1992	10.6	10.1	10.0	103
1998	10.8	10.2	10.0	105
2970	9.6*	10.7	10.5	100
3284	9.6*	10.5	10.7	101
3660	9.8	10.5	10.0	101
4160	10.5	10.2	10.0	103
4275	10.3	10.7	9.8	104
4603	10.3	10.9	10.6	106
4701	9.8	10.8	9.4	101
4716	10.6	10.2	11.0	105
5160	10.4	10.4	10.1	104
5306	10.6	10.3	10.1	104
5313	10.0	10.5	10.1	102
5495	10.0	10.7	10.2	103
5566	10.2	10.7	9.8	103
5573	9.8	10.3	9.7	100
5844	10.4	10.4	10.5	104
6011	10.1	10.3	10.6	103
6040	10.2	10.5	10.2	103
6077	10.1	10.8	10.5	104
6078	10.4	10.5	10.3	104
6270	10.0	10.9	10.2	103
6396	9.9	10.6	10.4	102
6440	10.3	10.6	10.1	104
6585	10.1	10.6	10.8	104
6590	9.6*	10.5	10.6	101
6616	10.0	10.9	10.1	103
6788	10.1	9.6*	11.0	101
7099	10.4	11.0	10.2	106
7193	10.5	10.8	10.0	105
7278	10.0	10.3	10.4	102
7329	9.6*	10.3	10.6	100
7405	10.0	10.9	9.7	103
7555	9.9	10.6	10.1	102
AVERAGE ANALYSIS	10.1	10.5	10.2	
COEFFICIENT OF VARIATION	3.1	2.8	3.6	
10 10 10M WITH 0.50 LBS ALDRIN				
3622 SEE NOTE 3 & 7	10.0	10.2	10.6	102
12 12 12M				
2969	11.7	12.3	12.5	100
4159	12.0	12.3	12.4	101
4276	11.6*	12.7	12.0	100
4561	11.8	12.0	13.1	101
4623	11.8	11.7	14.0	101
4713	11.5*	11.7	13.0	98
5307	11.7	12.3	12.7	101

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
12 12 12M CONTINUED				
5384	11.6*	11.9	12.5	99
5614	10.7*	13.3	13.2	100
5747	12.0	11.9	13.7	102
5911	11.6*	12.1	12.5	99
6074	11.3*	12.3	13.2	100
6474	11.1*	12.9	12.5	99
6506	12.0	12.4	12.2	101
6681	12.4	11.9	12.7	102
7331	11.8	12.7	12.7	102
7554	12.2	11.4*	13.1	101
AVERAGE ANALYSIS	11.6	12.2	12.8	
COEFFICIENT OF VARIATION	3.4	3.9	4.0	
16 8 8M				
2971	15.4*	9.2	9.1	104
4277	14.8*	8.6	9.4	99
4714	15.6*	8.5	9.3	102
5868	14.8*	8.7	9.6	99
AVERAGE ANALYSIS	15.1	8.7	9.3	
COEFFICIENT OF VARIATION	2.7	3.5	2.2	
FEDERAL CHEMICAL COMPANY NASHVILLE TENN				
9 27M WITH 5 LBS BORAX				
4568 SEE NOTE 2		9.0	28.0	102
7451 SEE NOTE 2		10.5	29.0	111
AVERAGE ANALYSIS		9.7	28.5	
COEFFICIENT OF VARIATION		10.8	2.4	
20 20M				
3373 SEE NOTE 4 & 9		18.9*	15.5	89*
3688		20.3	19.2	100
3722 SEE NOTE 4		23.0	16.6	104
4118		20.2	20.5	102
4321		20.3	20.7	102
4423		19.2*	21.0	101
4731		19.7	21.7	102
5241		20.7	20.0	102
6338		19.5*	20.4	99
6706		19.6	19.6	98
6842		20.6	17.7	98
7345		20.0	21.2	102
7593		18.9*	20.7	98
7646		20.1	21.1	102
AVERAGE ANALYSIS		20.1	20.0	
COEFFICIENT OF VARIATION		4.9	7.2	
3 12 12M				
4120	3.0	11.6*	11.9	98
4566	3.5	11.7	13.2	105
4728	3.8	12.0	12.5	106
6702	3.4	12.1	11.7	102
AVERAGE ANALYSIS	3.4	11.8	12.3	
COEFFICIENT OF VARIATION	9.6	2.0	5.4	
4 12 8M				
3209	4.2	12.3	8.7	104
3365 SEE NOTE 9	5.6	12.0	10.5	117
3371	4.3	12.0	9.2	105
3476	4.9	12.0	9.6	110
3686	4.3	11.9	8.7	103
4319	4.2	12.4	10.6	109

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M CONTINUED				
4617	4.1	12.0	8.6	102
6703	4.0	12.2	9.2	104
7061	3.7*	12.2	8.6	100
7267	4.1	11.9	9.3	103
7346	4.4	12.1	8.6	105
AVERAGE ANALYSIS	4.2	12.1	9.1	
COEFFICIENT OF VARIATION	7.3	1.4	6.9	
4 16 4S				
2883	4.1	15.9	3.9	100
6018	4.5	14.1*	6.7	101
AVERAGE ANALYSIS	4.3	15.0	5.3	
COEFFICIENT OF VARIATION	6.5	8.4	37.3	
5 10 15S				
3361	4.7*	10.2	15.0	99
3478	4.6*	10.4	15.5	100
3772	4.4*	9.8	14.7	95*
4320	5.0	10.2	15.0	101
4422	5.1	10.1	15.1	101
6017	4.8	10.7	14.6	101
7056	5.0	10.0	14.8	100
7070	4.6*	10.2	15.0	98
7562 SEE NOTE 1	4.7*	10.8	14.8	101
AVERAGE ANALYSIS	4.7	10.2	14.9	
COEFFICIENT OF VARIATION	3.8	3.1	1.7	
5 20 20M				
3360	5.0	20.2	19.8	100
3372	5.5	19.2*	19.3	99
3477	5.2	19.9	20.5	101
3687	5.2	20.0	20.6	102
3720	5.0	20.8	20.0	102
4121	5.2	20.4	20.8	103
4567	4.6*	19.9	22.0	101
4625	5.4	19.0*	20.2	99
4732 SEE NOTE 4	4.7*	17.7*	22.0	95*
5224	5.2	19.4*	21.5	101
5242	5.4	20.8	19.6	103
6016	5.2	19.9	20.5	101
6707	5.2	20.4	20.7	103
6841	4.0*	19.5*	23.5	99
7143	4.9	20.1	20.7	101
7340	5.3	20.4	19.1	101
7572	4.6*	19.1*	23.0	100
AVERAGE ANALYSIS	5.0	19.8	20.8	
COEFFICIENT OF VARIATION	7.5	3.8	5.9	
6 8 6M				
4560	5.7*	8.0	7.0	100
5243	5.9	10.1	8.5	116
6705	5.8	9.1	7.7	108
AVERAGE ANALYSIS	5.8	9.0	7.7	
COEFFICIENT OF VARIATION	1.7	11.5	9.7	
6 12 12M				
3208	6.1	11.7	12.2	100
3363	6.3	11.9	12.7	103
3370	5.9	12.3	11.4	99
3475	6.0	12.1	12.4	101
3685	6.1	12.4	12.5	103
4123	5.6*	11.9	11.2	96*
4729	6.2	11.9	12.2	101
6026	6.3	12.2	12.5	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M CONTINUED				
6704	6.0	11.3*	12.0	97*
6840	6.0	11.9	13.0	101
7057	5.7*	12.0	12.5	99
7148	6.8	11.6*	12.0	103
7343	5.9	12.4	12.2	101
7577	6.1	12.2	12.0	102
AVERAGE ANALYSIS	6.0	11.9	12.2	
COEFFICIENT OF VARIATION	4.7	2.6	3.9	
6 18 12M				
3369	6.2	17.3*	11.5	98
3684	5.9	17.7	12.7	100
6032	5.5*	17.0*	12.7	96*
7342	5.8	17.9	12.2	99
AVERAGE ANALYSIS	5.8	17.4	12.2	
COEFFICIENT OF VARIATION	4.9	2.3	4.6	
6 24 12M				
7060	6.7	24.0	13.5	105
6 24 24M				
2882	5.4*	22.3*	25.7	96*
3359	5.6*	22.6*	24.7	96*
7341	5.5*	23.2*	25.0	98
7450 SEE NOTE 5 & 9	5.2*	20.4*	21.9	87*
7594 SEE NOTE 5	5.1*	20.7*	24.4	90*
AVERAGE ANALYSIS	5.4	22.2	24.9	
COEFFICIENT OF VARIATION	4.0	4.8	2.2	
9 10 15S				
3207	8.5*	10.3	15.0	99
3362	8.7*	10.3	15.7	101
3367	8.9	10.3	14.7	100
3719	8.7*	10.8	14.8	101
4559	9.2	10.4	16.0	104
4738 SEE NOTE 4	7.4*	10.3	16.2	95*
6015	8.4*	10.2	15.0	98
6033	8.7*	10.5	14.7	100
6701	7.7*	10.8	15.0	96*
7058	9.2	10.5	14.9	102
AVERAGE ANALYSIS	8.5	10.4	15.2	
COEFFICIENT OF VARIATION	6.8	2.0	3.6	
10 10 10M				
3364	10.1	10.2	10.7	102
3368	10.0	10.3	10.2	101
3683	9.4*	10.6	10.5	100
4122	9.8	10.7	10.5	102
4616	9.2*	10.9	11.1	101
4737	8.9*	10.1	11.7	98
6025	9.7	10.4	10.2	100
7150	9.7	10.5	10.3	101
7268	9.9	10.4	10.6	102
7347	9.6*	11.1	10.6	103
7578	9.1*	10.8	10.1	98
AVERAGE ANALYSIS	9.5	10.5	10.5	
COEFFICIENT OF VARIATION	4.0	2.9	4.3	
12 12 12M				
2874	10.9*	12.1	13.7	98
3210	11.6*	12.1	14.2	102
3366	10.2*	12.4	13.5	96*
3721 SEE NOTE 4 & 5	10.0*	12.6	13.0	95*
4124	11.5*	12.1	14.0	101

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
12 12 12M CONTINUED				
4569	11.4*	12.5	13.2	101
4624 SEE NOTE 5	9.8*	12.4	13.7	94*
4730 SEE NOTE 4	9.8*	12.2	13.5	93*
5225	10.9*	12.5	13.2	98
6337	11.2*	12.5	12.9	99
7059	11.9	12.0	12.6	100
7149	11.4*	12.7	13.5	102
7339	11.5*	12.9	12.2	101
7359	11.1*	12.7	12.0	98
AVERAGE ANALYSIS	10.9	12.4	13.2	
COEFFICIENT OF VARIATION	6.4	2.2	4.8	
16 8 8M				
3358 SEE NOTE 4	13.8*	9.3	9.1	96*
4565	15.1*	9.0	8.5	100
4733 SEE NOTE 4	12.1*	9.3	10.0	90*
5226 SEE NOTE 4	14.0*	9.9	9.7	99
AVERAGE ANALYSIS	13.7	9.3	9.3	
COEFFICIENT OF VARIATION	9.0	4.0	7.1	
18 46 0				
2881	18.2	46.3		101
3357	18.7	46.1		102
7258	18.6	46.0		101
AVERAGE ANALYSIS	18.5	46.1		
COEFFICIENT OF VARIATION	1.4	.3		
GLASGOW FERTILIZER COMPANY				
4 12 8M				
3219	4.3	12.4	8.5	105
3506	4.6	12.5	9.0	109
3762	4.8	11.2*	10.1	107
AVERAGE ANALYSIS	4.5	12.0	9.2	
COEFFICIENT OF VARIATION	5.5	6.0	8.8	
5 10 15S				
3504	5.0	9.7	16.0	101
3764	5.0	10.3	14.1	99
3766	5.1	10.0	15.5	102
3768	5.0	10.2	14.5	100
AVERAGE ANALYSIS	5.0	10.0	15.0	
COEFFICIENT OF VARIATION	.9	2.6	5.8	
5 20 20M				
3218	5.2	19.6	20.2	100
3505	5.0	20.8	19.3	101
AVERAGE ANALYSIS	5.1	20.2	19.7	
COEFFICIENT OF VARIATION	2.7	4.2	3.2	
6 8 6S				
3767	6.1	8.1	6.6	103
6 12 12M				
3507	6.1	12.8	11.9	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
3508	10.5	10.0	10.9	104
3763	10.4	10.0	9.9	102
3765	10.2	10.3	9.6	101
3769	10.2	10.0	10.1	101
AVERAGE ANALYSIS	10.3	10.0	10.1	
COEFFICIENT OF VARIATION	1.4	1.4	5.4	
GRO GREEN CHEMICAL COMPANY				
20 20M				
6261		20.1	18.9	99
6602 SEE NOTE 5 & 9		17.7*	16.7	87*
3 12 12M				
6254 SEE NOTE 9	3.7	14.8	11.5	116
6601	3.8	11.3*	12.5	103
4 12 8M				
6524 SEE NOTE 5	3.9	10.8*	7.2	92*
6600 SEE NOTE 9	11.9	10.5*	7.8	147
4 16 4S WITH 0031 LBS ALDRIN				
1980 SEE NOTE 3	4.2	15.8	5.0	103
6346 SEE NOTE 3	4.3	16.0	4.8	104
AVERAGE ANALYSIS	4.2	15.9	4.9	
COEFFICIENT OF VARIATION	1.6	.8	2.8	
5 10 5M				
6513 SEE NOTE 9	5.0	11.6	6.0	111
5 10 15S				
1982	5.1	10.5	15.0	103
6084	5.3	10.2	16.2	105
6189	5.4	10.1	15.0	103
6200	5.0	10.6	15.5	103
6253	5.0	10.1	15.9	102
6263	5.4	10.2	15.5	104
6603	5.4	10.2	15.2	104
6658	5.2	10.6	14.9	103
AVERAGE ANALYSIS	5.2	10.3	15.4	
COEFFICIENT OF VARIATION	3.3	2.1	3.0	
5 10 15S WITH 0015 LBS ALDRIN				
6199 SEE NOTE 3	5.0	10.6	15.0	102
5 20 20M				
6066	4.6*	20.4	20.0	99
6083	5.1	21.0	18.0	100
6142	5.1	19.0*	20.4	98
6260	5.0	19.2*	19.5	97*

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M CONTINUED				
6512	4.8	21.8	19.2	103
6604	5.9	18.3*	18.5	97*
AVERAGE ANALYSIS	5.0	19.9	19.2	
COEFFICIENT OF VARIATION	8.7	6.6	4.6	
6 6 18S				
6081	6.0	6.3	17.8	101
6605 SEE NOTE 1	5.7*	8.4	17.0	106
6607	5.5*	7.1	19.1	104
AVERAGE ANALYSIS	5.7	7.2	17.9	
COEFFICIENT OF VARIATION	1.3	14.5	5.8	
8 10 15S				
1981	7.3*	10.8	14.7	99
6065	8.0	9.3*	15.0	98
6085	8.1	9.9	15.6	101
6141	7.5*	10.7	15.0	100
6188	7.4*	12.2	13.8	102
6262	7.3*	11.0	15.2	100
6438	7.7*	10.2	14.0	97*
6477	8.0	9.9	15.2	100
6523	7.3*	10.8	14.8	99
6525	7.4*	11.0	14.9	100
AVERAGE ANALYSIS	7.6	10.5	14.8	
COEFFICIENT OF VARIATION	4.2	7.5	3.6	
10 10 10M				
6511	10.8	8.7*	10.0	100
12 12 12M				
6082	11.3*	12.9	12.2	100
6606	10.8*	12.5	12.5	97*
6608	10.8*	12.5	12.5	97*
6659	12.1	13.4	11.6	104
AVERAGE ANALYSIS	11.2	12.8	12.2	
COEFFICIENT OF VARIATION	5.4	3.3	3.4	
14 7 7M				
6392	14.0	7.7	7.2	103
W R GRACE & CO DAVISON CHEM DIV NASHVILLE				
20 20M				
3228		19.6	17.9	95*
4618 SEE NOTE 4		18.9*	19.2	95*
6207		18.8*	20.0	96*
6308 SEE NOTE 5		19.5*	18.8	96*
6700 SEE NOTE 5		18.1*	20.0	94*
6746		21.5	18.8	103
6818		20.1	18.0	97*
AVERAGE ANALYSIS		19.5	18.9	
COEFFICIENT OF VARIATION		5.6	4.4	
20 20M WITH 3 LBS BORAX				
7069 SEE NOTE 2, 5 & 9		18.5*	15.2	87*
7265 SEE NOTE 2		20.0	20.1	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CHEM DIV NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
3 12 6M				
5695	3.6	12.7	9.0	116
7464	3.0	12.0	9.3	108
AVERAGE ANALYSIS	3.3	12.3	9.1	
COEFFICIENT OF VARIATION	12.8	4.0	2.3	
3 12 12M				
5221	3.3	11.7	13.2	103
7067	4.1	12.6	11.0	108
7120	3.9	12.2	11.2	105
7244	3.0	12.3	12.4	102
AVERAGE ANALYSIS	3.5	12.2	11.9	
COEFFICIENT OF VARIATION	14.3	3.0	8.6	
4 12 8M				
3226	4.5	12.0	8.8	105
3235	4.4	11.9	8.5	103
3473	4.5	12.1	9.1	106
5263 SEE NOTE 9	5.4	12.0	10.4	115
5415	3.7*	12.4	8.8	102
5940	4.3	11.5*	10.0	104
6206	4.9	11.7	8.9	107
6822	4.2	11.9	8.5	102
6826	4.0	12.5	8.7	104
7065	3.4*	12.3	9.2	100
7349	4.6	12.3	10.7	112
7463	4.0	11.7	9.4	102
AVERAGE ANALYSIS	4.2	12.0	9.1	
COEFFICIENT OF VARIATION	10.1	2.6	7.3	
4 16 4S				
5220	4.6	15.2*	5.5	104
5268	3.9	15.3*	5.7	100
7066	4.2	15.2*	5.3	101
AVERAGE ANALYSIS	4.2	15.2	5.5	
COEFFICIENT OF VARIATION	8.2	.3	3.6	
5 10 15S				
1943	5.0	10.3	14.7	101
3229	5.1	10.2	14.9	101
3472	5.1	10.2	14.6	101
4620	5.0	10.1	14.9	100
5184	5.0	10.1	14.9	100
5217 SEE NOTE 1	5.1	10.3	14.8	101
5222 SEE NOTE 5	4.6*	10.0	15.0	98
5264	5.3	10.1	14.8	102
5416	5.0	10.4	15.0	102
5720	4.9	10.0	15.0	99
6209 SEE NOTE 1	5.7	10.3	14.6	105
6565	4.9	10.3	14.9	100
6699	4.9	10.3	15.0	101
7062	4.8	10.6	14.6	100
7121	5.1	10.0	15.0	101
7460	4.8	10.1	15.0	99
AVERAGE ANALYSIS	5.0	10.2	14.8	
COEFFICIENT OF VARIATION	4.8	1.6	1.0	
5 10 15S WITH 0050 LBS ALDRIN				
4621 SEE NOTE 1 & 3	4.8	11.1	15.0	103
5791 SEE NOTE 3	4.7*	10.0	15.0	98
AVERAGE ANALYSIS	4.7	10.5	15.0	
COEFFICIENT OF VARIATION	1.4	7.3		

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CHEM DIV NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
1944	5.5	20.0	19.4	101
3230	5.2	19.8	19.7	100
4419 SEE NOTE 4	5.0	17.7*	19.6	93*
4619	5.9	19.6	20.1	103
4740	4.7*	20.9	18.6	99
5218	5.3	19.7	19.9	100
5265	5.3	19.8	18.8	99
5417 SEE NOTE 4	5.5	16.6*	17.3	89*
5785	5.0	20.1	17.5	97*
5904 SEE NOTE 5 & 6	5.0	19.3*	17.6	95*
6697	5.1	19.3*	19.4	98
6745 SEE NOTE 4	5.4	18.7*	17.5	95*
6819	4.9	20.7	19.2	100
7068	6.2	18.4*	20.7	101
7144	5.9	18.9*	20.0	101
7348	5.1	20.0	19.9	100
7364	5.0	20.2	19.5	100
7461	5.0	19.5*	20.0	99
7595	5.1	19.7	18.7	98
AVERAGE ANALYSIS	5.2	19.4	19.1	
COEFFICIENT OF VARIATION	7.3	5.2	5.3	
5 20 20M WITH 5 LBS BORAX				
7266 SEE NOTE 2	5.2	20.5	20.0	102
6 8 6M				
5459	5.9	8.3	6.3	102
6 12 12M				
3227	6.0	12.0	12.6	101
3236	5.6*	12.2	12.0	99
3474	5.9	12.0	13.0	101
5185	5.6*	12.6	12.4	101
5266	5.8	12.0	12.7	100
5569	5.6*	12.2	12.1	99
5901	6.0	12.1	12.0	100
6012	5.7*	12.3	12.2	100
6233	6.1	12.4	11.5	101
6580	5.4*	12.0	13.5	99
6715	5.6*	12.3	11.9	99
6821	5.3*	12.1	12.4	97*
7064	6.0	12.0	12.2	100
7351	6.0	11.7	13.7	102
7365	6.2	12.1	11.9	101
AVERAGE ANALYSIS	5.7	12.1	12.4	
COEFFICIENT OF VARIATION	4.6	1.7	4.9	
6 18 12M				
6306	6.0	16.9*	12.5	97*
6827 SEE NOTE 4	6.5	15.0*	11.7	93*
AVERAGE ANALYSIS	6.2	15.9	12.1	
COEFFICIENT OF VARIATION	5.6	8.4	4.6	
10 10 10M				
3510 SEE NOTE 4 & 7	8.4*	11.0	10.4	96*
4739	8.6*	10.8	10.0	96*
5187	8.6*	10.8	10.0	96*
5219	9.2*	10.3	10.2	97*
5267	8.7*	11.0	10.5	98
5902 SEE NOTE 7	8.1*	10.9	11.0	95*
6208	8.8*	10.4	10.0	95*
6235	8.6*	11.1	10.5	98
6579	9.0*	11.0	10.2	99

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CHEM DIV NASHVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M CONTINUED				
6698	8.2*	10.5	11.1	95*
6820	8.8*	10.8	10.0	97*
6828	9.2*	10.5	10.5	99
7063	8.5*	10.8	10.4	96*
7119	9.0*	10.5	10.2	97*
7145 SEE NOTE 4 & 5	8.4*	10.8	10.2	95*
7350	9.3*	10.9	10.6	101
7358	9.4*	10.9	10.0	100
7462 SEE NOTE 5	8.3*	11.0	10.6	96*
AVERAGE ANALYSIS	8.7	10.7	10.3	
COEFFICIENT OF VARIATION	4.4	2.1	3.2	
10 20 20M				
7146 SEE NOTE 4 & 5	8.4*	16.9*	17.6	85*
7596 SEE NOTE 7	8.9*	18.9*	21.0	95*
AVERAGE ANALYSIS	8.6	17.9	19.3	
COEFFICIENT OF VARIATION	4.0	7.9	12.4	
16 48 0				
6564 SEE NOTE 4 & 5	15.3*	45.1*		95*
6747 SEE NOTE 4	14.9*	43.8*		92*
AVERAGE ANALYSIS	15.1	44.4		
COEFFICIENT OF VARIATION	1.8	2.0		
W R GRACE & CO DAVISON CHEM DIV NEW ALBANY				
13 39M				
6105 SEE NOTE 5		11.8*	39.5	97*
13 39M WITH 5 LBS BORAX				
7130 SEE NOTE 2 & 6		15.7	36.5	104
25 25M				
3580		25.6	25.0	102
6456 SEE NOTE 6		28.7	19.8	103
6802		26.4	24.4	103
AVERAGE ANALYSIS		26.9	23.0	
COEFFICIENT OF VARIATION		5.9	12.3	
25 25M WITH 5 LBS BORAX				
3570 SEE NOTE 2		25.3	25.1	101
3 12 12M				
1921	3.5	12.0	12.4	104
4125 SEE NOTE 9	3.4	13.9	13.5	114
4420	3.6	12.1	12.2	105
6133	3.5	10.9*	14.0	103
6146	3.3	12.2	12.5	104
6286	3.6	12.0	12.2	104
6454	3.6	12.0	12.7	106
6467	3.4	12.2	12.2	104
6642	3.1	12.1	12.0	101
6780 SEE NOTE 7	2.9	11.5*	12.5	98
AVERAGE ANALYSIS	3.3	11.8	12.5	
COEFFICIENT OF VARIATION	7.2	3.5	4.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CHEM DIV NEW ALBANY CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M				
2982	4.0	12.5	8.7	104
3202	4.3	11.9	9.9	106
3578	4.3	12.0	9.7	106
3592	4.2	12.0	10.3	107
3605	4.0	12.3	9.0	104
5460	4.3	12.2	9.1	105
5721	4.6	12.1	9.4	108
6347	4.2	12.1	9.4	105
6457	4.0	12.5	9.5	106
7401	3.9	12.3	9.6	103
7552	3.9	11.9	9.7	103
AVERAGE ANALYSIS	4.1	12.1	9.4	
COEFFICIENT OF VARIATION	5.2	1.7	4.6	
4 16 4S				
3200	4.3	15.3*	5.8	103
5183	4.0	15.2*	5.5	100
6013	3.7*	14.9*	5.2	96*
6104 SEE NOTE 5	3.9	15.4*	5.0	99
6178 SEE NOTE 5	4.1	15.2*	5.0	99
6185 SEE NOTE 1	4.1	16.1	5.7	105
6300	4.2	15.2*	5.8	102
AVERAGE ANALYSIS	4.0	15.3	5.4	
COEFFICIENT OF VARIATION	4.9	2.4	6.6	
5 10 15S				
1923	4.6*	10.2	16.0	100
2987	5.0	10.0	15.5	101
3203	4.6*	10.5	15.2	100
3566	4.8	10.0	15.7	100
3581	4.7*	10.0	16.1	100
3591	5.0	10.1	15.5	101
3604	4.8	10.2	15.0	100
4424	4.9	10.4	15.0	101
4579	4.6*	10.2	15.2	101
5461	4.8	11.7	13.2	102
6093 SEE NOTE 5	4.5*	10.0	16.0	99
6103	5.0	9.8	15.5	100
6147	4.5*	10.1	16.1	100
6205	5.3	9.9	14.9	101
6285	5.1	10.0	15.1	101
6455	5.0	10.0	15.2	100
7187	5.0	10.1	15.2	101
7402 SEE NOTE 5	4.5*	10.6	13.6	97*
AVERAGE ANALYSIS	4.8	10.2	15.2	
COEFFICIENT OF VARIATION	4.8	4.1	5.0	
5 20 20M				
3568	4.9	19.2*	20.2	98
3595	5.3	20.1	19.1	100
4127	5.0	19.8	20.2	100
4425	5.2	19.9	19.4	100
4578	5.1	19.5*	20.1	99
5717	5.0	20.2	20.1	101
5725	5.0	19.9	20.2	100
6102	5.0	20.3	19.5	100
6476	5.2	20.1	19.3	100
6662 SEE NOTE 5	4.7*	19.4*	19.9	97*
6803	5.0	20.0	20.0	100
AVERAGE ANALYSIS	5.0	19.8	19.8	
COEFFICIENT OF VARIATION	3.2	1.7	2.0	
6 6 18S				
6626 SEE NOTE 5	4.3*	11.2	12.8	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CHEM DIV NEW ALBANY CONTINUED	(Percent)	(Percent)	(Percent)	
6 6 18S WITH 0015 LBS ALDRIN				
6106 SEE NOTE 3 & 9	6.6	10.9	17.4	123
6 8 6M				
4126 SEE NOTE 9	5.6*	9.7	9.0	113
6 12 12M				
3590	6.0	12.7	11.9	102
5718	6.0	12.2	12.2	101
6466	6.0	12.1	12.1	101
6643	6.5	11.9	13.5	105
AVERAGE ANALYSIS	6.1	12.2	12.4	
COEFFICIENT OF VARIATION	4.0	2.7	5.8	
6 18 12M				
5467 SEE NOTE 6	5.8	16.3*	12.7	95*
6 24 12M				
6779 SEE NOTE 7	5.6*	22.9*	12.2	96*
10 10 10M				
1916	10.0	10.2	10.9	102
1922	9.9	10.3	10.9	102
2988	9.7	10.0	11.5	101
3201	9.8	10.8	11.3	104
3569	9.9	10.4	11.1	103
3579	10.5	10.0	10.9	104
3632	10.4	10.1	10.5	103
4421	10.5	10.0	10.4	103
5468	9.7	10.0	10.6	100
5726	10.7	10.2	11.0	106
6014	8.8*	10.9	10.6	98
6135	9.6*	11.0	10.5	102
6145	10.1	10.2	10.6	102
6177	9.5*	11.2	10.6	103
6348	10.4	10.2	10.7	104
7036	9.8	10.1	10.9	101
AVERAGE ANALYSIS	9.9	10.3	10.8	
COEFFICIENT OF VARIATION	4.7	3.8	2.8	
12 12 12M				
3567	12.0	12.1	12.5	101
3589	12.0	12.3	12.5	102
3631	11.8	12.3	12.5	101
6134 SEE NOTE 5	10.9*	11.7	11.8	94*
6307	12.2	12.3	12.5	102
6801 SEE NOTE 7	11.6*	12.1	12.0	99
AVERAGE ANALYSIS	11.7	12.1	12.3	
COEFFICIENT OF VARIATION	3.9	1.9	2.5	
15 15 15M				
3603	15.5	14.7	15.0	101
6234	15.2	14.8	15.1	100
6304 SEE NOTE 5	14.8	14.6*	15.4	99
AVERAGE ANALYSIS	15.1	14.7	15.1	
COEFFICIENT OF VARIATION	2.3	.6	1.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
HILLENMEYER NURSERIES	(Percent)	(Percent)	(Percent)	
10 6 4M				
4556	10.3	6.3	4.6	105
20 10 5M				
4555	19.5*	10.8	7.7	103
HUTSON CHEMICAL COMPANY				
19 38M WITH 4 LBS BORAX				
6248 SEE NOTE 2 & 5		22.6	32.5	102
30 30M				
6088 SEE NOTE 5		35.3	25.8	107
6218 SEE NOTE 4		34.3	25.2	104
6313		32.8	26.8	103
6401		32.2	29.0	104
AVERAGE ANALYSIS		33.6	26.7	
COEFFICIENT OF VARIATION		4.1	6.2	
4 12 8M				
5577	4.1	13.1	8.7	107
6538	3.6*	12.1	8.5	99
6555	4.1	12.8	8.7	106
AVERAGE ANALYSIS	3.9	12.6	8.6	
COEFFICIENT OF VARIATION	7.3	4.0	1.3	
4 12 8M WITH 1. LB ALDRIN				
6213 SEE NOTE 3 & 9	4.3	13.6	12.9	120
5 10 15S				
5578	4.4*	10.1	16.0	99
6539	4.5*	10.5	15.0	99
6556	4.3*	10.0	16.5	99
6748 SEE NOTE 1	5.0	10.7	15.0	103
AVERAGE ANALYSIS	4.5	10.3	15.6	
COEFFICIENT OF VARIATION	6.8	3.2	4.8	
5 20 20M				
6217	4.9	21.8	17.2	101
6713	4.7*	21.3	19.0	101
AVERAGE ANALYSIS	4.8	21.5	18.1	
COEFFICIENT OF VARIATION	2.9	1.6	7.0	
6 12 12M				
5426	5.5*	12.8	11.9	100
5579	5.6*	12.7	12.2	101
6220	5.6*	12.4	12.0	99
6557	5.7*	12.2	13.7	102
6749	6.5	13.6	11.1	107
AVERAGE ANALYSIS	5.7	12.7	12.1	
COEFFICIENT OF VARIATION	7.0	4.2	7.7	
8 24 24M				
6312	6.7*	21.4*	25.7	92*

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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)	
12 24 24M				
6089	12.4	24.9	24.0	103
6311	12.6	25.3	23.2	103
6402	11.7	24.7	24.0	100
AVERAGE ANALYSIS	12.2	24.9	23.7	
COEFFICIENT OF VARIATION	3.8	1.2	1.9	
14 14 14M				
1951	13.4*	14.0	14.0	98
5899	15.1	14.8	13.3	105
6219	13.7	14.0	15.5	101
6750	14.0	14.0	14.2	100
7575	13.9	14.1	15.0	101
AVERAGE ANALYSIS	14.0	14.1	14.4	
COEFFICIENT OF VARIATION	4.6	2.4	5.9	
17 17 17M				
6314	16.4*	16.8	17.1	98
6400 SEE NOTE 5	15.5*	15.7*	17.7	94*
AVERAGE ANALYSIS	15.9	16.2	17.4	
COEFFICIENT OF VARIATION	3.9	4.7	2.4	
INTERNATIONAL MIN & CHEM CORP CINN OHIO				
20 20M				
4552		18.3*	26.0	104
3 12 12M				
4389	3.1	11.6*	15.4	106
4 12 8M				
4173	3.9	11.9	8.5	100
4351	4.1	11.3*	8.5	99
4391	4.4	12.2	8.9	106
4547	4.2	11.9	8.5	102
5128	4.1	12.4	9.0	105
AVERAGE ANALYSIS	4.1	11.9	8.6	
COEFFICIENT OF VARIATION	4.3	3.4	2.8	
4 12 8S				
4382	3.7*	12.9	8.3	103
4 16 4S				
4348	4.1	14.8*	4.9	98
4367	4.4	14.9*	5.4	101
4383	4.3	14.3*	5.0	97*
5129	4.6	15.6*	4.7	104
6048	4.4	15.1*	4.6	100
AVERAGE ANALYSIS	4.3	14.9	4.9	
COEFFICIENT OF VARIATION	4.1	3.1	6.3	
5 10 10M				
1995	5.0	10.5	11.0	104
3323	5.3	10.6	10.5	106
4366	5.5	10.3	10.2	105
4548	5.4	10.3	9.8	104
4707	5.2	11.3	10.6	108
AVERAGE ANALYSIS	5.2	10.6	10.4	
COEFFICIENT OF VARIATION	3.6	3.8	4.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15 3 MURIATE 12 SULFATE				
3322	5.0	9.8	15.0	99
4169	4.8	9.9	15.0	98
4350	4.7*	10.0	15.2	99
4522	4.9	9.9	15.2	99
4704	4.8	10.5	14.9	101
5131	5.0	10.1	15.5	101
6049	5.0	10.0	15.5	101
7294	5.1	10.2	15.5	102
AVERAGE ANALYSIS	4.9	10.0	15.2	
COEFFICIENT OF VARIATION	2.7	2.1	1.6	
5 10 15S				
1994	5.0	10.3	15.0	101
2989	5.0	11.0	13.6	101
4166	5.0	10.3	15.2	102
4390	4.9	9.9	16.1	101
4523	5.0	10.2	15.5	102
4649	4.7*	10.0	16.0	100
5130	5.1	10.2	15.0	101
5910	4.9	9.6*	18.0	104
6047	5.0	10.4	15.0	102
6811	4.1*	10.1	16.7	98
AVERAGE ANALYSIS	4.8	10.2	15.6	
COEFFICIENT OF VARIATION	5.9	3.5	7.5	
5 10 15S WITH 00.15 LBS ALDRIN				
4392 SEE NOTE 3	4.9	9.8	16.2	101
5 20 20M				
2994 SEE NOTE 6	4.7*	18.2*	21.1	96*
3321	4.8	18.5*	23.5	100
4365	4.6*	18.8*	19.6	95*
4524 SEE NOTE 4	4.7*	18.1*	20.2	94*
4546 SEE NOTE 4	4.6*	18.2*	20.7	95*
4705 SEE NOTE 4	4.6*	17.6*	23.5	97*
7471 SEE NOTE 4	5.1	18.3*	20.8	97*
AVERAGE ANALYSIS	4.7	18.2	21.3	
COEFFICIENT OF VARIATION	3.8	2.0	7.2	
6 6 18S				
3671	5.9	7.2	16.7	102
4168	5.6*	5.9	19.2	100
4171	6.0	6.7	17.1	101
4519	6.0	6.8	17.6	103
4520	6.0	6.9	19.0	106
4549	5.8	7.3	17.6	103
AVERAGE ANALYSIS	5.8	6.8	17.8	
COEFFICIENT OF VARIATION	2.7	7.3	5.6	
6 12 18S				
1996	6.3	11.4*	17.8	99
4170	6.4	12.0	18.0	102
4356	6.0	11.4*	18.1	98
4521	6.2	11.4*	17.6	98
5132	6.3	12.4	17.0	101
6046	6.0	12.6	17.1	101
AVERAGE ANALYSIS	6.2	11.8	17.6	
COEFFICIENT OF VARIATION	2.6	4.6	2.6	
10 10 10M				
2847	10.1	10.1	10.2	101
3672	9.9	10.3	10.1	101
4167	9.4*	10.7	10.0	99

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M CONTINUED				
4174	10.1	10.0	10.1	101
4526	9.2*	10.6	10.0	98
4550	9.6*	10.6	10.1	100
4553	10.0	10.4	10.0	101
4648	9.3*	10.0	9.9	96*
4706	9.2*	10.1	10.2	97*
6672	9.3*	9.9	10.2	97*
AVERAGE ANALYSIS	9.6	10.2	10.0	
COEFFICIENT OF VARIATION	3.9	2.8	1.0	
12 12 12M				
2995	11.8	13.4	11.8	103
4363	11.4*	13.0	13.7	103
AVERAGE ANALYSIS	11.6	13.2	12.7	
COEFFICIENT OF VARIATION	2.4	2.1	10.5	
14 14 14M				
4364 SEE NOTE 4	11.3*	15.4	13.5	93*
4551	14.7	14.7	14.0	104
AVERAGE ANALYSIS	13.0	15.0	13.7	
COEFFICIENT OF VARIATION	18.4	3.2	2.5	
INTERNATIONAL MIN & CHEM CORP CLARKSVILLE				
20 10M				
3724		18.6*	11.5	97*
4 12 8M				
3726	4.1	11.3*	8.2	98
6316	4.0	12.1	7.9	100
6838	4.4	12.0	8.4	104
7473	4.3	12.0	7.7	101
7580	4.2	11.9	7.9	101
AVERAGE ANALYSIS	4.2	11.8	8.0	
COEFFICIENT OF VARIATION	3.7	2.7	3.4	
4 12 8 1 MURIATE 7 SULFATE				
7474 SEE NOTE 1	4.1	12.3	7.8	102
4 16 4S				
5567 SEE NOTE 1	4.1	16.6	6.1	108
5 10 10M				
5872	5.0	11.2	9.8	105
6317	5.2	10.2	10.0	102
AVERAGE ANALYSIS	5.1	10.7	9.9	
COEFFICIENT OF VARIATION	2.7	6.6	1.4	
5 10 15S				
3725	5.1	10.0	15.0	101
4408 SEE NOTE 1	5.0	11.2	15.0	105
5556	5.0	10.0	14.8	100
5557	5.2	10.0	14.8	101
6315 SEE NOTE 1	5.1	10.5	14.4	101
6318	4.9	10.7	14.6	101
6692	5.0	10.4	14.5	101
7472	4.9	9.4*	16.5	100
AVERAGE ANALYSIS	5.0	10.2	14.9	
COEFFICIENT OF VARIATION	2.0	5.3	4.4	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
4406	5.0	19.5*	19.3	98
5873	5.2	18.3*	20.1	96*
7582	5.0	19.4*	20.0	98
AVERAGE ANALYSIS	5.0	19.0	19.8	
COEFFICIENT OF VARIATION	2.2	3.4	2.2	
6 8 6M				
4407 SEE NOTE 9	5.6*	12.4	7.6	123
7581	5.7*	10.0	7.2	111
6 12 12M				
3727	6.1	11.3*	11.4	97*
5568	5.9	12.0	12.1	100
6693	5.8	11.6*	12.0	97*
6839	6.0	11.7	12.5	100
AVERAGE ANALYSIS	5.9	11.6	12.0	
COEFFICIENT OF VARIATION	2.1	2.4	3.7	
6 18 12M				
7269	6.2	16.9*	12.0	98
8 32 0				
3723	8.0	31.2*		98
10 10 10M				
5558	10.1	10.2	10.1	101
5874	9.3*	10.0	10.2	97*
5875	10.2	9.9	10.1	101
5935	9.8	10.6	9.8	101
6837	9.6*	10.4	9.7	99
7475	9.7	10.4	9.8	100
7579	10.1	10.4	9.3	101
AVERAGE ANALYSIS	9.8	10.2	9.8	
COEFFICIENT OF VARIATION	3.3	2.4	3.1	
INTERNATIONAL MIN & CHEM CORP GREENEVILLE				
20 20M				
5292		19.7	20.0	99
5 10 5M				
5286	5.0	9.7	5.1	99
5293	5.0	10.0	5.4	101
5616	4.8	10.6	5.8	104
5619	5.1	10.0	5.2	101
AVERAGE ANALYSIS	4.9	10.0	5.3	
COEFFICIENT OF VARIATION	2.5	3.7	5.7	
5 10 10M				
5294	5.0	10.4	10.7	103
5617	5.1	10.1	10.1	101
AVERAGE ANALYSIS	5.0	10.2	10.4	
COEFFICIENT OF VARIATION	1.3	2.0	4.0	
5 10 10 4 MURIATE 6 SULFATE				
5287	5.1	10.0	10.0	101

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 GREENVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
5295	9.8	10.5	9.9	101
INTERNATIONAL MIN & CHEM CORP SKOKIE ILL				
5876	5.0	5.0		100
INTERNATIONAL MIN & CHEM CORP SOMERSET				
20 20M				
3406		19.0*	20.2	97*
3612		21.3	18.1	101
3649		19.4*	20.0	98
3785		19.1*	20.2	97*
7128		19.5*	19.7	98
AVERAGE ANALYSIS		19.6	19.6	
COEFFICIENT OF VARIATION		4.7	4.5	
20 20M WITH 5 LBS BORAX				
3455 SEE NOTE 2		18.9*	20.0	96*
3 12 12M				
3459	3.7	11.7	13.0	106
3537	3.1	11.7	13.4	102
AVERAGE ANALYSIS	3.4	11.7	13.2	
COEFFICIENT OF VARIATION	12.4		2.1	
4 12 8M				
2833	4.2	11.6*	8.7	101
3404	4.0	11.5*	8.0	98
3456	3.5*	12.1	8.7	99
3617	4.0	11.3*	8.4	98
3747	4.1	11.7	8.5	100
7127	3.7*	12.0	8.1	98
AVERAGE ANALYSIS	3.9	11.7	8.4	
COEFFICIENT OF VARIATION	6.7	2.5	3.5	
5 10 10M				
3628	4.4*	10.1	10.1	97*
3650	4.9	9.1*	10.1	95*
7197	4.8	9.6*	10.2	97*
AVERAGE ANALYSIS	4.7	9.6	10.1	
COEFFICIENT OF VARIATION	5.6	5.2	.5	
5 10 15 3 MURIATE 12 SULFATE				
3458	5.0	9.8	15.0	99
3536 SEE NOTE 1	5.0	10.0	15.7	101
7090	5.1	9.9	15.0	100
AVERAGE ANALYSIS	5.0	9.9	15.2	
COEFFICIENT OF VARIATION	1.1	1.0	2.6	
5 10 15S				
3457	5.3	10.1	14.9	102
3593	5.0	10.2	14.4	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 SOMERSET CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
3755	5.1	12.1	15.2	109
3757	5.1	10.0	15.0	101
3786	4.9	10.6	14.3	100
6404	5.0	10.2	15.5	102
7211	5.0	10.0	14.6	99
AVERAGE ANALYSIS	5.0	10.4	14.8	
COEFFICIENT OF VARIATION	2.5	7.1	2.9	
5 20 20M				
3407	5.0	19.0*	20.7	98
3614 SEE NOTE 5	5.1	17.9*	19.2	94*
3788	4.9	19.2*	19.3	97*
7096	4.8	19.0*	19.5	96*
AVERAGE ANALYSIS	4.9	18.7	19.6	
COEFFICIENT OF VARIATION	2.6	3.1	3.5	
5 20 20M WITH 5 LBS BORAX				
3588 SEE NOTE 2 & 5	4.7*	18.1*	19.3	93*
6 8 6S				
3460	5.4*	8.8	6.6	101
4172	5.7*	8.2	6.2	99
AVERAGE ANALYSIS	5.5	8.5	6.4	
COEFFICIENT OF VARIATION	3.8	4.9	4.4	
6 12 12M				
3405	6.0	11.0*	12.2	97*
3594	5.8	10.8*	11.9	94*
3629	5.9	11.4*	12.0	97*
AVERAGE ANALYSIS	5.9	11.0	12.0	
COEFFICIENT OF VARIATION	1.6	2.7	1.2	
6 12 12M WITH 00.33 LBS ALDRIN				
3615 SEE NOTE 3 & 5	5.7*	10.7*	12.0	94*
10 10 10M				
3411	10.0	10.3	10.1	101
3535	9.7	10.9	10.2	102
3613	9.5*	10.5	9.8	99
3616	9.5*	10.6	9.8	99
3756	9.6*	10.1	10.6	99
3787	9.3*	10.2	10.2	98
7088	9.9	10.0	10.2	100
7089	8.9*	10.8	10.9	99
AVERAGE ANALYSIS	9.5	10.4	10.2	
COEFFICIENT OF VARIATION	3.6	3.1	3.6	
KENTUCKY FERTILIZER WORKS INC				
20 20M				
5173		19.7	20.0	99
5354		19.2*	19.1	96*
5489		19.4*	20.5	99
5674		19.5*	20.5	99
5682		19.5*	20.0	98
5840		18.8*	20.2	96*
AVERAGE ANALYSIS		19.3	20.0	
COEFFICIENT OF VARIATION		1.6	2.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 INC CONTINUED	(Percent)	(Percent)	(Percent)	
3 9 6M				
4442	3.3	8.5*	6.4	101
5355 SEE NOTE 9	3.5	9.3	11.8	124
5775	3.4	8.9	7.2	107
AVERAGE ANALYSIS	3.3	8.7	6.8	
COEFFICIENT OF VARIATION	2.1	3.2	8.3	
3 12 12M				
5350	3.4	11.6*	12.0	101
4 12 8M				
4440	4.3	13.0	8.0	107
5123	4.2	11.2*	9.5	101
5356	4.2	11.9	8.5	102
5367	4.1	11.1*	8.6	98
5626	4.2	11.6*	8.0	100
5673	4.0	11.4*	8.6	99
5683	4.1	11.4*	8.4	99
5768	4.3	11.5*	8.5	101
5776	4.2	11.9	8.6	102
AVERAGE ANALYSIS	4.1	11.6	8.5	
COEFFICIENT OF VARIATION	2.3	4.8	5.1	
4 16 4S WITH 00.31 LBS ALDRIN				
5338 SEE NOTE 3	4.4	15.3*	4.2	100
5351 SEE NOTE 3	4.1	16.0	4.1	101
AVERAGE ANALYSIS	4.2	15.6	4.1	
COEFFICIENT OF VARIATION	4.9	3.1	1.7	
5 10 10M				
5124	5.1	10.4	10.2	103
5348	5.1	9.9	10.4	101
5357	5.0	10.8	10.0	104
5632	5.0	10.5	10.0	102
5684	5.0	10.8	10.4	104
5777	4.9	10.2	10.6	102
AVERAGE ANALYSIS	5.0	10.4	10.2	
COEFFICIENT OF VARIATION	1.5	3.3	2.3	
5 10 15S				
5125	5.3	10.2	14.5	102
5174	5.0	10.0	15.4	101
5339	5.1	10.0	14.9	100
5352	5.3	10.5	15.5	103
5358	5.0	10.2	14.5	100
5368	4.9	10.0	14.8	99
5490	4.9	10.3	14.6	100
5633	4.8	9.9	15.5	99
5675	5.0	10.5	14.2	100
5685	4.9	9.8	14.8	98
5769	5.2	9.9	15.1	101
5779	5.0	9.3*	16.0	99
5781	4.7*	9.7	14.9	97*
5854	5.1	9.9	15.0	100
7132	5.1	10.0	15.4	101
AVERAGE ANALYSIS	5.0	10.0	15.0	
COEFFICIENT OF VARIATION	3.3	3.0	3.2	
5 10 15S WITH 00.15 LBS ALDRIN				
5359 SEE NOTE 3	4.7*	10.1	14.9	98

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 INC CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
5360	4.9	20.0	19.9	99
5491 SEE NOTE 4	5.0	18.5*	19.7	96*
5634	5.0	19.7	20.0	99
5676	5.0	19.3*	20.0	98
5686	5.0	19.5*	19.6	98
5770	5.0	19.5*	18.9	97*
5778 SEE NOTE 4	5.1	16.8*	19.4	91*
5855	4.9	20.0	19.3	99
5921	4.9	19.8	20.0	99
AVERAGE ANALYSIS	4.9	19.2	19.6	
COEFFICIENT OF VARIATION	1.3	5.3	1.9	
6 6 18S				
2952	6.1	6.4	17.7	102
5126	5.9	6.5	17.8	101
5175	5.9	6.9	17.2	101
5361	6.0	6.5	17.3	101
5627	6.0	6.5	17.8	102
5677	6.1	8.0	15.4	104
5687	6.0	7.6	15.8	102
5689	5.7*	6.0	18.6	99
7410	6.4	6.6	17.9	105
AVERAGE ANALYSIS	6.0	6.7	17.2	
COEFFICIENT OF VARIATION	3.1	9.3	5.9	
6 6 18S WITH 00.15 LBS ALDRIN				
5688 SEE NOTE 3 & 4	6.0	6.3	18.0	101
5782 SEE NOTE 3	6.0	6.0	18.2	100
AVERAGE ANALYSIS	6.0	6.1	18.1	
COEFFICIENT OF VARIATION		3.4	.7	
6 8 6M				
5362	5.4*	9.2	7.1	104
5678	6.0	8.3	6.5	103
5690	6.0	8.2	6.5	102
AVERAGE ANALYSIS	5.8	8.5	6.7	
COEFFICIENT OF VARIATION	5.9	6.4	5.1	
6 8 6S				
4441	6.0	8.0	5.9	100
4697	6.1	8.1	6.5	103
5127	6.0	8.5	6.5	104
5176	6.2	8.5	6.5	105
5353	6.2	8.7	6.4	106
5363	6.0	8.2	6.1	101
5369	6.0	8.4	6.2	103
5628	6.2	8.5	6.0	104
5635	6.0	8.5	6.0	103
5679	5.9	8.3	6.1	101
5691	5.9	8.3	7.0	103
5771	6.1	8.3	6.8	104
5863	6.4	8.7	6.1	107
AVERAGE ANALYSIS	6.0	8.3	6.3	
COEFFICIENT OF VARIATION	2.3	2.5	5.2	
8 10 15S				
5364	8.1	10.3	13.2	99
5692	7.9	10.2	15.0	100
AVERAGE ANALYSIS	8.0	10.2	14.1	
COEFFICIENT OF VARIATION	1.7	.6	9.0	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 INC CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
5177	10.3	10.0	10.1	102
5365	10.0	10.4	9.5	101
5680	9.8	10.0	10.4	100
5693	9.6*	9.9	10.4	100
5780	9.2*	9.6*	11.1	97*
5841	10.1	10.0	10.4	101
5856	10.1	10.0	10.9	102
7409	9.8	9.6*	10.9	99
AVERAGE ANALYSIS	9.8	9.9	10.4	
COEFFICIENT OF VARIATION	3.5	2.5	4.9	
12 12 12M				
5366	11.3*	12.6	11.8	98
5636	11.3*	12.8	11.7	99
7131	11.2*	12.2	11.9	97*
AVERAGE ANALYSIS	11.2	12.5	11.8	
COEFFICIENT OF VARIATION	.5	2.4	.8	
LAND O NAN WAREHOUSE STURGIS				
20 20M				
7569		20.2	20.2	101
7643		22.0	20.0	107
AVERAGE ANALYSIS		21.1	20.1	
COEFFICIENT OF VARIATION		6.0	.7	
20 40M				
7644 SEE NOTE 7		20.4	33.0	92*
25 25M				
7357		27.2	25.0	106
7362		23.7*	25.0	97*
AVERAGE ANALYSIS		25.4	25.0	
COEFFICIENT OF VARIATION		9.7		
30 30M				
7338 SEE NOTE 5		36.7	23.4	108
7363 SEE NOTE 5		38.8	21.5	110
7563		30.2	30.5	101
AVERAGE ANALYSIS		35.2	25.1	
COEFFICIENT OF VARIATION		12.7	18.8	
4 12 8M				
7567	4.3	12.0	8.3	103
5 20 20M				
7335 SEE NOTE 5	3.7*	17.1*	24.0	92*
7336 SEE NOTE 5	3.6*	16.6*	20.5	91*
7337	4.9	21.0	18.8	101
7566	5.6	21.0	19.1	104
7645 SEE NOTE 7	3.5*	17.2*	23.5	91*
AVERAGE ANALYSIS	4.2	18.5	21.1	
COEFFICIENT OF VARIATION	22.0	11.9	11.5	
6 12 12M				
7571	5.9	13.1	13.0	105

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 STURGIS CONTINUED	(Percent)	(Percent)	(Percent)	
6 24 24M				
7360 SEE NOTE 5	7.3	30.7	19.3	114
9 46 0				
7570	8.7*	45.5		98
10 20 20M				
7361 SEE NOTE 7	10.0	17.3*	20.0	94*
7568	9.6*	21.2	20.0	101
AVERAGE ANALYSIS	9.8	19.2	20.0	
COEFFICIENT OF VARIATION	2.8	14.3		
10 20 30M				
7564	9.8	19.0*	31.0	98
10 30 20M				
7565	10.0	30.0	20.2	100
12 12 12M				
7559 SEE NOTE 5 & 7	10.0*	12.3	13.2	94*
7642 SEE NOTE 5 & 7	10.2*	12.5	12.7	95*
AVERAGE ANALYSIS	10.1	12.4	12.9	
COEFFICIENT OF VARIATION	1.3	1.1	2.7	
LOFTS PEDIGREED SEED COMPANY				
7 11 5M				
5859	8.0	10.5*	5.5	105
NORTH AMERICAN FERTILIZER COMPANY				
20 20M				
6367		20.0	19.8	100
6420		20.0	19.8	100
7205		18.6*	20.3	96*
AVERAGE ANALYSIS		19.5	19.9	
COEFFICIENT OF VARIATION		4.1	1.4	
20 20M WITH 5 LBS BORAX				
2856 SEE NOTE 2		19.7	20.0	99
7620 SEE NOTE 2		18.8*	19.5	95*
AVERAGE ANALYSIS		19.2	19.7	
COEFFICIENT OF VARIATION		3.3	1.7	
3 9 6M				
3420	2.7*	8.5*	6.6	96*
3656 SEE NOTE 9	3.1	9.9	14.9	133
7208 SEE NOTE 9	4.2	11.0	7.7	128
3 12 12M				
3419	4.1	11.0*	13.7	107
6067	3.2	11.3*	12.5	99
6471	3.1	11.1*	14.0	101
AVERAGE ANALYSIS	3.4	11.1	13.4	
COEFFICIENT OF VARIATION	15.8	1.3	5.9	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 COMPANY CONTINUE	(Percent)	(Percent)	(Percent)	
3 12 12M WITH 5 LBS BORAX				
6416 SEE NOTE 2	3.2	10.7*	13.2	98
4 12 8M				
2834	4.2	11.6*	8.1	100
2855	4.1	11.3*	8.0	98
3417	4.2	10.4*	8.4	95*
3469	4.0	11.8	7.9	99
3657	4.1	11.3*	8.0	98
5116	4.5	10.5*	9.3	100
5469	4.3	11.9	8.4	103
5696	4.0	11.2*	8.2	97*
5722	4.3	12.0	8.4	103
5923	4.0	12.0	8.5	101
6191	4.1	11.3*	8.6	99
6762	4.1	12.1	8.5	102
7392	4.0	11.0*	8.1	96*
AVERAGE ANALYSIS	4.1	11.4	8.3	
COEFFICIENT OF VARIATION	3.6	4.8	4.3	
4 16 4S				
3245 SEE NOTE 1	4.5	14.9*	6.8	105
4191 SEE NOTE 1	4.3	14.8*	5.0	99
5697	4.1	16.6	4.9	105
AVERAGE ANALYSIS	4.3	15.4	5.5	
COEFFICIENT OF VARIATION	4.6	6.5	19.2	
5 10 10M				
3418	5.0	9.9	10.1	100
6069	4.9	9.6*	11.0	100
AVERAGE ANALYSIS	4.9	9.7	10.5	
COEFFICIENT OF VARIATION	1.4	2.1	6.0	
5 10 15S				
3243	4.9	10.8	13.6	100
3416	5.0	9.9	15.0	100
3471	4.9	10.3	14.8	100
4339	5.0	10.4	15.0	102
4341	5.0	10.1	14.8	100
4343	5.0	10.1	14.8	100
4395	5.0	10.1	15.6	102
4491	5.0	10.1	15.0	100
4537	5.0	10.0	14.8	100
5117	5.0	10.0	15.1	101
6002	5.1	9.8	15.7	101
6070	5.0	10.4	14.5	101
6097	5.3	9.9	15.0	101
6151	4.9	10.0	15.0	99
6163	5.1	10.0	15.0	101
6190	5.2	10.0	14.8	101
6363	4.9	10.0	14.9	99
6422	5.0	10.1	15.1	101
6448	5.0	10.2	14.9	101
6595	5.1	10.0	15.1	101
7087	5.0	10.1	15.5	101
7207	5.0	10.2	15.0	101
7621	5.0	10.1	15.6	102
AVERAGE ANALYSIS	5.0	10.1	14.9	
COEFFICIENT OF VARIATION	1.8	2.0	2.8	
5 10 15S WITH 0015 LBS ALDRIN				
6412	5.0	10.1	14.8	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 COMPANY CONTINUE	(Percent)	(Percent)	(Percent)	
5 20 20M				
3241	5.0	19.2*	19.5	97*
6152 SEE NOTE 5	5.1	18.1*	19.9	95*
6415	5.2	18.6*	20.0	97*
6805	5.2	19.4*	20.0	99
AVERAGE ANALYSIS	5.1	18.8	19.8	
COEFFICIENT OF VARIATION	1.8	3.1	1.1	
5 20 20M WITH 5 LBS BORAX				
3577 SEE NOTE 2 & 7	5.0	18.2*	19.6	95*
6 6 18S				
4338	5.9	6.6	18.0	102
4538	5.9	6.2	17.7	100
6164	6.1	6.7	17.4	102
6413 SEE NOTE 1	6.0	6.2	18.1	101
AVERAGE ANALYSIS	5.9	6.4	17.8	
COEFFICIENT OF VARIATION	1.6	4.0	1.7	
6 6 18S WITH 00.15 LBS ALDRIN				
6411 SEE NOTE 3	5.8	6.9	16.8	100
6 8 6M				
6137	5.9	7.6*	6.5	99
6763	5.8	8.5	7.1	104
AVERAGE ANALYSIS	5.8	8.0	6.8	
COEFFICIENT OF VARIATION	1.2	7.9	6.2	
6 8 6S				
3415	6.0	8.0	6.4	101
5118 SEE NOTE 1	5.7*	9.0	7.8	107
5723	5.9	8.0	7.0	102
6068	5.9	7.8	6.2	99
6365	6.1	8.2	6.6	103
7206	5.8	8.0	6.7	100
AVERAGE ANALYSIS	5.9	8.1	6.7	
COEFFICIENT OF VARIATION	2.3	5.2	8.3	
6 12 12M				
3240	6.5	11.2*	12.4	101
3470	6.0	12.2	11.8	100
6071	5.9	11.8	12.9	100
AVERAGE ANALYSIS	6.1	11.7	12.3	
COEFFICIENT OF VARIATION	5.2	4.2	4.4	
10 10 10M				
4340	9.9	10.7	10.0	102
4506 SEE NOTE 7	8.7*	9.6*	9.3	91*
5119	9.8	10.1	10.4	100
6098	10.2	10.3	10.2	102
6132	9.8	10.3	10.4	101
6136	10.0	10.3	10.0	101
6364	10.0	10.3	10.2	101
6414	9.8	10.7	10.0	101
6421	9.8	10.4	10.1	101
6503	10.0	10.6	10.5	103
6596	9.0*	10.2	10.4	96*
6599	9.4*	10.5	11.0	100
6804	9.8	10.3	10.6	101
7210	10.0	10.0	10.3	101
7393	9.9	10.4	10.0	101
AVERAGE ANALYSIS	9.7	10.3	10.2	
COEFFICIENT OF VARIATION	4.1	2.7	3.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 INC	(Percent)	(Percent)	(Percent)	
3 9 6M				
3314 SEE NOTE 4 & 9	2.7*	6.8*	5.8	83*
4445	3.0	8.9	6.2	100
4475	3.5	9.3	6.9	109
AVERAGE ANALYSIS	3.2	9.1	6.5	
COEFFICIENT OF VARIATION	10.8	3.1	7.5	
3 12 12M				
4360	3.1	11.9	12.6	102
4 12 8M				
2924	4.3	11.6*	8.1	100
3313	4.2	12.1	8.0	102
4504	4.0	12.1	8.1	101
4699	4.0	12.0	8.1	100
AVERAGE ANALYSIS	4.1	11.9	8.0	
COEFFICIENT OF VARIATION	3.6	1.9	.6	
4 16 4S WITH 00.31 LBS ALDRIN				
2915 SEE NOTE 3	4.4	15.7	5.0	103
3311 SEE NOTE 3	4.0	15.7	4.4	100
4212 SEE NOTE 3	4.2	15.5*	4.7	101
AVERAGE ANALYSIS	4.2	15.6	4.7	
COEFFICIENT OF VARIATION	4.7	.7	6.3	
5 10 10M				
2923	5.2	10.5	11.1	106
3330	5.1	10.2	11.6	105
3331	5.2	10.6	10.7	106
3351	5.4	10.5	10.2	105
3352	5.1	10.2	10.7	103
4359	5.1	10.0	10.5	102
4448	5.0	10.1	10.0	100
4457	5.0	10.0	10.6	101
4474	5.1	10.0	10.4	102
AVERAGE ANALYSIS	5.1	10.2	10.6	
COEFFICIENT OF VARIATION	2.3	2.3	4.4	
5 10 15S				
2920	5.0	10.2	14.8	100
3312	4.6*	9.8	16.0	99
4207	5.1	10.0	15.4	101
4447	5.0	9.5*	15.0	98
4698	4.3*	9.9	17.9	101
AVERAGE ANALYSIS	4.8	9.8	15.8	
COEFFICIENT OF VARIATION	7.0	2.6	7.9	
5 10 15S WITH 00.15 LBS ALDRIN				
4401 SEE NOTE 3	4.8	10.0	15.0	99
5 10 20S				
2918	5.0	10.1	20.0	100
4211	4.8	10.0	20.5	100
AVERAGE ANALYSIS	4.9	10.0	20.2	
COEFFICIENT OF VARIATION	2.8	.7	1.7	
5 10 20S WITH 00.15 LBS ALDRIN				
4398 SEE NOTE 3	5.0	10.3	19.5	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January - June, 1962

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 INC CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
4206	4.8	20.5	19.6	100
6 6 18S				
2917	5.4*	6.6	18.0	99
4209	5.8	6.2	18.2	100
4503	5.4*	7.1	18.5	102
AVERAGE ANALYSIS	5.5	6.6	18.2	
COEFFICIENT OF VARIATION	4.1	6.7	1.3	
6 6 18S WITH 00,15 LBS ALDRIN				
4400 SEE NOTE 3	5.4*	6.3	18.1	98
6 8 6S				
4361	5.6*	8.0	7.0	100
4446	5.8	8.3	7.0	103
4502	6.0	8.2	7.1	104
AVERAGE ANALYSIS	5.8	8.1	7.0	
COEFFICIENT OF VARIATION	3.4	1.8	.8	
6 24 12M				
2922	5.5*	24.6	12.0	100
4205 SEE NOTE 4	5.9	21.7*	12.1	94*
AVERAGE ANALYSIS	5.7	23.1	12.0	
COEFFICIENT OF VARIATION	4.9	8.8	.5	
8 10 15S				
2916	3.3	10.2	15.0	102
4210	7.9	10.5	14.7	101
4501	7.7*	10.4	14.8	99
AVERAGE ANALYSIS	7.9	10.3	14.8	
COEFFICIENT OF VARIATION	3.8	1.4	1.0	
8 10 15S WITH 00,15 LBS ALDRIN				
4399 SEE NOTE 3	7.9	10.4	14.7	100
10 10 10M				
2921	8.9*	10.0	11.5	97*
4358	9.7	11.3	9.6	102
AVERAGE ANALYSIS	9.3	10.6	10.5	
COEFFICIENT OF VARIATION	6.0	8.6	12.7	
10 10 20S				
4208 SEE NOTE 4	10.8	10.0	15.5	97*
4505 SEE NOTE 4	7.4*	11.3	21.8	95*
AVERAGE ANALYSIS	9.1	10.6	18.6	
COEFFICIENT OF VARIATION	26.4	8.6	23.8	
10 10 20S WITH 00,15 LBS ALDRIN				
4397 SEE NOTE 3 & 4	8.0*	6.9*	25.1	90*
12 12 12M				
2919	11.2*	14.0	12.0	102
3353	11.7	12.1	12.6	100
4449	11.5*	12.2	12.2	99
4476	11.6*	12.1	12.2	99
4700	12.0	11.9	12.2	100
AVERAGE ANALYSIS	11.6	12.4	12.2	
COEFFICIENT OF VARIATION	2.5	6.9	1.7	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
OLIN MATHIESON CHEM CORP HOUSTON TEXAS	(Percent)	(Percent)	(Percent)	
6 24 24M				
6578	6.0	23.5*	25.0	100
10 20 20M				
6577	10.0	20.5	19.9	101
6736	9.8	20.4	19.9	100
AVERAGE ANALYSIS	9.9	20.4	19.9	
COEFFICIENT OF VARIATION	1.4	.3		
OLIN MATHIESON CHEM CORP LITTLE ROCK ARK				
6 24 24M				
5878 SEE NOTE 4	5.5*	19.0*	27.3	91*
10 20 20M				
5879	10.0	17.4*	22.0	96*
13 13 13M				
5880 SEE NOTE 4	11.4*	11.3*	15.5	93*
ROBIN JONES PHOSPHATE COMPANY				
10 30M				
3714 SEE NOTE 5		9.2*	28.1	93*
3815		11.1	28.6	102
AVERAGE ANALYSIS		10.1	28.3	
COEFFICIENT OF VARIATION		13.2	1.2	
20 10M				
3713 SEE NOTE 9		24.6	14.8	128
24 12M				
3716		25.0	10.5	101
24 24M				
3715 SEE NOTE 5 & 9		29.2	17.3	105
30 15M				
3718		31.2	16.1	105
3816		31.6	13.5	102
AVERAGE ANALYSIS		31.4	14.8	
COEFFICIENT OF VARIATION		.9	12.4	
3 23 5S				
3810	3.4	23.1	4.7	102
5 10 15S				
3817	5.3	11.3	13.0	103

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
ROBIN JONES PHOSPHATE COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
8 10 15S				
3811	9.1	11.6	13.0	108
3814 SEE NOTE 5	6.5*	11.4	13.5	95*
AVERAGE ANALYSIS	7.8	11.5	13.2	
COEFFICIENT OF VARIATION	23.5	1.2	2.6	
8 12 15S				
3712 SEE NOTE 9	9.2	13.4	18.2	115
10 3 10S				
3812	10.1	4.7	8.1	104
15 10 10M				
3813	15.6	11.8	9.5	107
16 10 8M				
3717	14.9*	10.1	8.5	97*
F S ROYSTER GUANO CO PRICE CHEM DIV LOUIS				
20 20M				
1964		19.6	19.5	98
3258		20.0	19.6	99
3586		20.4	21.2	103
5849		19.6	20.1	99
6349		20.4	19.5	101
6516		20.1	20.0	100
6676		19.6	19.2	97*
AVERAGE ANALYSIS		19.9	19.8	
COEFFICIENT OF VARIATION		1.8	3.3	
20 20M WITH 5 LBS BORAX				
3576 SEE NOTE 2		19.9	20.4	100
3758 SEE NOTE 2		20.2	20.0	101
4529 SEE NOTE 2		18.6*	20.2	96*
5733 SEE NOTE 2		19.4*	20.7	99
6799 SEE NOTE 2 & 4		19.3*	20.0	98
AVERAGE ANALYSIS		19.4	20.2	
COEFFICIENT OF VARIATION		3.1	1.4	
3 12 12M				
6172	3.2	12.3	12.0	103
6350	3.2	12.3	11.8	102
6518	3.2	12.0	12.0	101
7022	3.2	12.4	12.4	104
7309	3.1	12.0	12.0	101
AVERAGE ANALYSIS	3.1	12.2	12.0	
COEFFICIENT OF VARIATION	1.4	1.5	1.8	
4 12 8M				
1963	4.0	10.5*	8.5	94*
3299	4.1	10.3*	8.6	94*
3482	4.2	11.2*	8.4	99
3573	4.1	14.0	7.0	108
4353	4.1	11.3*	8.0	98
4530	4.0	11.4*	8.1	98
5598	4.1	11.3*	8.4	98
5698	4.0	11.1*	8.4	97*
5924	4.3	12.4	8.5	105

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
F S ROYSTER GUANO CO LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M CONTINUED				
6140	4.1	11.4*	8.1	98
6175	4.1	11.4*	8.2	98
6355	4.1	11.4*	8.6	99
6517	4.2	13.1	7.6	105
6677	4.0	12.2	8.4	102
7115	4.0	11.9	8.4	100
7125	4.2	14.0	6.7	108
AVERAGE ANALYSIS	4.1	11.8	8.1	
COEFFICIENT OF VARIATION	2.1	9.2	6.8	
4 16 4S				
2835	4.1	18.0	4.4	110
2999	4.3	16.4	4.4	104
5436	4.4	16.0	5.6	106
6139	4.2	16.0	5.2	104
6176	4.1	16.7	4.1	104
6251	4.2	16.2	5.1	104
AVERAGE ANALYSIS	4.2	16.5	4.8	
COEFFICIENT OF VARIATION	2.7	4.5	12.1	
4 16 4S WITH 00.31 LBS ALDRIN				
3255 SEE NOTE 3 & 4	4.2	16.9	4.3	106
3402 SEE NOTE 3 & 4	4.1	16.1	4.9	103
4352 SEE NOTE 3	4.3	16.2	4.6	104
5165 SEE NOTE 3 & 4	4.4	16.4	4.3	105
7164 SEE NOTE 3	4.0	16.0	4.7	101
AVERAGE ANALYSIS	4.2	16.3	4.5	
COEFFICIENT OF VARIATION	3.7	2.1	5.7	
5 10 15S				
1966	5.0	10.6	15.0	102
2996	4.9	10.0	15.4	100
2997	4.8	10.2	15.0	100
3257	4.6*	10.0	15.0	98
3481	4.7*	11.1	14.0	101
3574	5.0	10.1	15.0	100
3584	4.7*	10.6	15.2	101
3585	4.6*	10.2	15.7	100
3751	5.2	10.6	14.7	103
3753	5.0	10.5	15.0	102
4354	4.7*	10.1	15.7	100
4355	5.0	10.0	15.7	101
4489	5.1	10.2	14.9	101
4490	5.0	10.5	14.6	101
5168	5.2	10.0	15.0	101
5169	5.0	10.2	14.9	101
5445	4.9	10.1	15.1	100
5599	5.1	10.6	15.0	103
5699	5.0	10.4	14.6	101
5734	5.0	10.0	15.5	101
5850	4.9	10.0	15.2	100
6252	5.0	10.1	15.0	100
6354	5.0	10.2	15.0	101
6463	4.9	10.3	15.0	101
6520	4.8	10.6	15.0	101
6673	5.0	10.8	14.7	103
7020	5.1	9.8	15.2	100
7124	5.0	9.8	15.2	100
7311	4.9	10.3	14.7	100
7548	5.0	10.5	14.8	102
7614	5.1	10.2	14.6	101
AVERAGE ANALYSIS	4.9	10.2	15.0	
COEFFICIENT OF VARIATION	3.1	2.9	2.3	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
F S ROYSTER GUANO CO LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
1967	4.9	19.6	20.0	99
3259	4.9	19.2*	20.0	97*
3583	4.9	20.0	21.2	101
3752	5.1	19.7	20.0	100
6174	4.8	19.4*	19.9	98
6352	5.2	20.3	19.0	100
6461	5.2	19.9	19.4	100
6519	5.1	20.0	19.4	100
6675	4.9	18.9*	21.0	98
7619	5.2	20.7	19.3	102
AVERAGE ANALYSIS	5.0	19.7	19.9	
COEFFICIENT OF VARIATION	3.0	2.6	3.5	
6 6 18S				
3000	6.7	7.1	17.2	107
3403	6.4	6.4	18.0	104
3572	6.6	7.0	17.2	106
3759	6.3	7.1	17.8	106
5166 SEE NOTE 1	6.4	7.7	17.0	108
7396	6.3	7.1	18.2	107
AVERAGE ANALYSIS	6.4	7.0	17.5	
COEFFICIENT OF VARIATION	2.5	5.8	2.8	
6 8 6S				
3256	6.0	7.6*	9.2	109
3575	6.0	8.1	7.9	105
5170	5.9	7.7*	9.2	106
5600	6.1	9.9	7.1	113
5700	5.9	7.9	6.4	100
6173	5.8	7.7*	9.1	105
6353	5.9	8.2	6.6	102
7126	5.8	7.6*	8.4	103
AVERAGE ANALYSIS	5.9	8.0	7.9	
COEFFICIENT OF VARIATION	1.7	9.4	14.6	
6 12 12M				
6462	5.8	12.0	12.0	99
6515	6.1	12.1	12.5	102
6678	6.1	11.6*	13.0	101
6798	6.2	11.9	13.0	103
7618	6.0	11.5*	12.0	98
AVERAGE ANALYSIS	6.0	11.8	12.5	
COEFFICIENT OF VARIATION	2.5	2.1	3.9	
6 24 12M				
5444	6.2	24.0	12.7	102
10 10 10M				
1962	9.8	10.6	10.5	102
2998	10.2	10.7	10.1	104
3254	10.0	11.1	10.0	104
3571	9.6*	10.3	10.0	99
3587	9.9	11.0	10.3	103
3754	10.0	11.0	10.1	104
5167	10.1	10.6	10.2	103
5601	9.9	11.0	10.0	103
5701	10.0	10.7	10.0	102
6138	10.5	10.5	10.0	104
6351	9.8	10.6	10.0	101
6460	9.8	11.2	10.4	104
6521	9.6*	11.3	10.1	103
6674	9.9	10.4	9.7	99
6687	9.4*	10.8	10.4	100

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
F S ROYSTER GUANO CO LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M CONTINUED				
6800	9.8	10.7	9.9	101
7021	10.2	10.7	10.0	103
7310	9.9	10.7	9.5	101
7631	9.5*	10.3	10.1	99
7632	9.9	10.2	10.0	100
AVERAGE ANALYSIS	9.8	10.7	10.0	
COEFFICIENT OF VARIATION	2.5	2.8	2.2	
12 6 10M				
6688	10.8*	6.7	13.0	101
6689	11.2*	5.9	10.6	97*
6690	11.1*	6.1	10.6	97*
6691	10.5*	6.6	13.9	101
AVERAGE ANALYSIS	10.9	6.3	12.0	
COEFFICIENT OF VARIATION	2.9	6.1	14.0	
12 12 12M				
1965	11.6*	12.9	12.0	101
6356	11.2*	13.1	12.4	100
AVERAGE ANALYSIS	11.4	13.0	12.2	
COEFFICIENT OF VARIATION	2.4	1.0	2.3	
SADLER FERTILIZER COMPANY				
25 25M				
6734		26.5	24.4	103
3 9 18M				
6733	2.9	9.3	18.7	102
3 9 27M				
6726	3.3	10.9	27.0	109
5 15 30M				
6731	5.4	15.1	30.0	102
6 12 12M				
6735 SEE NOTE 4	5.7*	11.3*	11.2	94*
6 24 24M				
6732	5.9	23.4*	24.2	99
7 7 35M				
6728	6.5*	11.1	34.8	109
10 10 10M				
6730	9.0*	11.2	11.4	101
10 20 20M				
6725	10.2	23.5	16.5	105
12 24 24M				
6727 SEE NOTE 4	11.6*	21.3*	25.6	95*

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
SADLER FERTILIZER COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
15 15 15M				
6729	13.7*	15.0	19.3	100
SATTERWHITE INCORPORATED				
4 7 5M				
7273	4.4	7.4	5.2	107
7 4 5M				
5853 SEE NOTE 7	5.3*	4.3	5.1	87*
7279	6.7*	4.4	4.7	99
AVERAGE ANALYSIS	6.0	4.3	4.9	
COEFFICIENT OF VARIATION	16.4	1.6	5.7	
O M SCOTT & SONS COMPANY				
20 10 5M				
3645	20.8	10.6	5.6	105
5615	20.4	10.8	5.2	104
6359	20.0	10.5	5.1	101
AVERAGE ANALYSIS	20.4	10.6	5.3	
COEFFICIENT OF VARIATION	1.9	1.4	4.9	
SMITH DOUGLASS COMPANY INC				
4 12 4M				
5870	3.9	12.0	4.1	100
7 9 5M				
5871 SEE NOTE 9	6.9	12.2	6.1	116
8 8 4M				
5869	7.7*	8.3	4.0	99
10 6 4M				
4554	10.2	6.3	4.4	103
SPENCER CHEMICAL COMPANY KANSAS CITY MO				
30 10 0				
4217	30.8	9.3*		101
STADLER FERTILIZER COMPANY				
4 12 4M				
6764	3.3*	12.7	4.2	99

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
STADLER FERTILIZER COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
7 8 5M				
6765	6.8	8.4	5.0	100
SWIFT & COMPANY CHICAGO ILLINOIS				
25 25M				
7558 SEE NOTE 6		30.6	18.8	107
5 20 20M				
7557	5.1	22.1	17.8	103
SWIFT & COMPANY NATIONAL STOCK YARDS ILL				
25 25M				
7141		24.3*	25.0	98
7355		24.5*	24.6	98
AVERAGE ANALYSIS		24.4	24.8	
COEFFICIENT OF VARIATION		.5	1.1	
4 12 8S				
5881	4.0	12.3	8.2	102
5 20 20M				
2875 SEE NOTE 4	5.0	17.1*	19.1	91*
7142	5.4	18.9*	20.1	99
7354	5.4	19.0*	20.0	99
AVERAGE ANALYSIS	5.2	18.3	19.7	
COEFFICIENT OF VARIATION	4.3	5.8	2.7	
6 10 4M				
5882 SEE NOTE 9	5.7*	12.0	6.3	113
6 12 12M				
5883	6.5	13.2	11.6	106
6 24 24M				
6738 SEE NOTE 4	6.1	22.2*	23.2	95*
7352	5.9	23.6	24.0	99
AVERAGE ANALYSIS	6.0	22.9	23.6	
COEFFICIENT OF VARIATION	2.3	4.3	2.3	
8 12 6M				
3412	8.2	13.1	7.3	108
5288	8.4	13.2	6.4	107
AVERAGE ANALYSIS	8.3	13.1	6.8	
COEFFICIENT OF VARIATION	1.7	.5	9.2	
10 10 10M				
2876	10.0	10.2	10.4	101
7140	9.1*	10.4	10.4	98
7356	10.0	11.4	9.7	104
AVERAGE ANALYSIS	9.7	10.6	10.1	
COEFFICIENT OF VARIATION	5.3	6.0	3.9	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January - June, 1962

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 & CO NATIONAL STOCK YARDS CONTINUED	(Percent)	(Percent)	(Percent)	
10 20 20M				
7353	9.4*	19.7	20.4	98
15 15 15M				
6737	15.0	15.8	14.9	102
16 8 4M				
1929	15.9	8.4	3.8	100
18 46 5M				
6751	18.3	47.6	4.8	103
SWIFT & COMPANY NORFOLK VIRGINIA				
6 10 4M				
3345	6.1	10.0	4.1	101
TENNESSEE CHEMICAL COMPANY				
20 20M				
4134		19.3*	21.3	100
4 12 8M				
5235	4.3	12.6	9.0	107
4 16 16M				
4747	3.3*	15.5*	19.7	101
5 10 15S				
5236	4.8	10.0	15.0	99
6198	5.1	10.0	15.0	101
AVERAGE ANALYSIS	4.9	10.0	15.0	
COEFFICIENT OF VARIATION	4.2			
5 20 20M				
4133	5.1	20.1	21.0	102
5237	5.7	19.2*	20.0	101
AVERAGE ANALYSIS	5.4	19.6	20.5	
COEFFICIENT OF VARIATION	7.8	3.2	3.4	
6 12 12M				
4136	6.1	12.4	12.5	103
5238	6.2	12.2	13.0	104
AVERAGE ANALYSIS	6.1	12.3	12.7	
COEFFICIENT OF VARIATION	1.1	1.1	2.7	
10 10 10M				
4135	10.0	10.3	11.3	103
4642	9.7	10.4	10.6	101
5239	10.3	10.6	10.2	104
AVERAGE ANALYSIS	10.0	10.4	10.7	
COEFFICIENT OF VARIATION	2.9	1.4	5.2	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CINCINNATI OHIO	(Percent)	(Percent)	(Percent)	
10 30M				
6126		10.2	30.2	101
4 12 8M				
6591	4.1	11.7	9.5	103
5 10 10M				
3343	5.6	10.1	10.0	104
6124	5.5	10.1	9.5	103
AVERAGE ANALYSIS	5.5	10.1	9.7	
COEFFICIENT OF VARIATION	1.2		3.6	
5 10 15S				
6123	5.5	9.9	15.0	103
6593	5.4	10.0	15.8	104
AVERAGE ANALYSIS	5.4	9.9	15.4	
COEFFICIENT OF VARIATION	1.2	.7	3.6	
5 20 20M				
6125	5.4	18.3*	21.5	99
6 6 18S				
6592	6.5	6.4	17.5	104
12 12 12M				
3344	12.3	11.9	12.1	101
TENNESSEE CORPORATION NEW ALBANY IND				
20 20M				
3665		19.7	21.0	101
6369		19.4*	21.0	100
AVERAGE ANALYSIS		19.5	21.0	
COEFFICIENT OF VARIATION		1.0		
20 20M WITH 5 LBS BORAX				
3600 SEE NOTE 2		19.0*	19.9	97*
3777 SEE NOTE 2 & 4		19.1*	15.9	90*
AVERAGE ANALYSIS		19.0	17.9	
COEFFICIENT OF VARIATION		.3	15.8	
3 12 12M				
1919	3.2	11.2*	12.4	99
3310	3.3	10.4*	13.0	97*
3462	3.3	12.0	11.7	101
6664	3.3	12.1	11.5	101
7027	3.2	10.6*	13.7	99
7403	3.1	11.7	13.2	102
AVERAGE ANALYSIS	3.2	11.3	12.5	
COEFFICIENT OF VARIATION	2.5	6.3	6.9	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CORP NEW ALBANY CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M				
3463	4.2	12.0	7.7	101
3554	4.2	12.3	8.4	104
3664	4.3	12.0	9.0	104
AVERAGE ANALYSIS	4.2	12.1	8.3	
COEFFICIENT OF VARIATION	1.3	1.4	7.7	
4 16 4S				
1920 SEE NOTE 1	4.4	15.2*	5.8	103
7025	4.5	15.6*	4.6	103
AVERAGE ANALYSIS	4.4	15.4	5.2	
COEFFICIENT OF VARIATION	1.5	1.8	16.3	
5 10 10M				
7547	5.4	10.4	11.4	108
5 10 15S				
3308	5.3	10.0	15.1	102
3464	5.2	10.1	15.0	102
3555	5.2	10.3	15.4	103
3661	5.3	10.2	15.0	103
3750	5.3	10.2	15.0	103
3778 SEE NOTE 1	5.6	10.1	15.4	105
6043	5.3	10.2	15.0	103
6665	5.2	10.5	15.0	103
7202	5.0	10.4	15.5	103
7305	5.2	10.4	15.2	103
7545	5.2	10.1	16.2	104
AVERAGE ANALYSIS	5.2	10.2	15.2	
COEFFICIENT OF VARIATION	2.7	1.5	2.4	
5 10 15S WITH 0033 LBS ALDRIN				
3599 SEE NOTE 3	5.4	9.9	15.2	102
5 20 20M				
3307	4.9	20.7	20.0	101
3662	4.9	20.3	20.4	101
3779	4.8	20.7	19.8	101
6042	4.8	19.5*	20.0	98
7546	5.1	20.0	20.2	101
7647	5.0	19.1*	20.0	98
AVERAGE ANALYSIS	4.9	20.0	20.0	
COEFFICIENT OF VARIATION	2.3	3.2	1.0	
6 8 6S				
6045 SEE NOTE 1	6.7	9.1	8.2	116
7304 SEE NOTE 1	6.1	9.2	7.9	112
AVERAGE ANALYSIS	6.4	9.1	8.0	
COEFFICIENT OF VARIATION	6.6	.7	2.6	
6 12 12M				
3309	6.3	12.0	13.7	105
10 10 10M				
1918	10.3	10.0	10.3	102
3556	10.4	10.3	10.1	103
3663	10.2	10.3	10.3	103
3780	8.9*	10.5	11.5	99

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CORP NEW ALBANY CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M CONTINUED				
7026	10.7	10.1	10.0	106
7203	10.4	10.6	10.1	104
7307	10.4	10.6	11.0	106
7544	10.0	11.4	11.2	107
AVERAGE ANALYSIS	10.1	10.4	10.5	
COEFFICIENT OF VARIATION	5.3	4.1	5.4	
12 12 12M				
7201	12.2	13.5	12.9	106
7404	12.0	12.6	12.7	103
AVERAGE ANALYSIS	12.1	13.0	12.8	
COEFFICIENT OF VARIATION	1.1	4.8	1.1	
TENNESSEE VALLEY AUTHORITY				
30 10 0				
6214	30.2	9.9		100
6240	29.9	10.4		100
6250	30.1	10.4		101
AVERAGE ANALYSIS	30.0	10.2		
COEFFICIENT OF VARIATION	.5	2.8		
TRI STATE CHEMICAL COMPANY				
20 20M				
6344		18.7*	20.0	96*
4 12 8M				
4582	4.2	12.2	9.7	106
4 16 4S				
5216 SEE NOTE 1	4.4	16.0	6.4	108
4 16 16M				
4581	4.0	16.8	15.6	102
5 10 15S				
4329	5.1	10.5	14.6	102
4409	4.9	11.2	13.5	101
4746	5.5	11.0	14.6	106
6339	5.2	10.2	16.0	104
AVERAGE ANALYSIS	5.1	10.7	14.6	
COEFFICIENT OF VARIATION	4.8	4.2	6.9	
5 20 20M				
4330 SEE NOTE 4	5.1	18.0*	21.2	97*
4412 SEE NOTE 4	5.4	17.1*	21.7	96*
4580	5.0	19.7	20.0	99
4744	4.8	20.1	20.0	99
6340	5.3	18.3*	21.2	98
6843	5.1	20.0	18.0	98
AVERAGE ANALYSIS	5.1	18.8	20.3	
COEFFICIENT OF VARIATION	4.1	6.5	6.6	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 COMPANY CONTINUED	(Percent)	(Percent)	(Percent)	
6 12 12M				
4332	6.1	11.9	14.3	104
6343	6.4	12.0	13.4	105
AVERAGE ANALYSIS	6.2	11.9	13.8	
COEFFICIENT OF VARIATION	3.3	.5	4.5	
6 18 12M				
4583	6.1	18.2	12.2	101
6 24 24M				
4418	6.5	24.5	22.5	101
10 10 10M				
4410	9.9	10.3	10.2	101
4745	9.5*	10.9	10.4	101
6341	9.3*	11.6	10.1	102
6345	9.5*	11.2	10.7	103
6844	9.9	11.3	10.6	105
AVERAGE ANALYSIS	9.6	11.0	10.4	
COEFFICIENT OF VARIATION	2.7	4.4	2.4	
12 12 12M				
4331	11.5*	12.3	13.0	100
4411	11.8	10.8*	11.8	96*
6342	11.6*	12.9	12.6	102
6845	11.3*	13.1	12.6	101
AVERAGE ANALYSIS	11.5	12.2	12.5	
COEFFICIENT OF VARIATION	1.8	8.4	4.0	
U S PHOSPHORIC DIV TENNESSEE CORP				
18 46 0				
7574	18.1	46.7		101
VALLEY COUNTIES OF KENTUCKY COOPERATIVE				
6 24 24M				
6695 SEE NOTE 6	5.0*	22.0*	27.0	96*
9 23 30M				
6696	6.7*	23.0	32.0	95*
VICTOR CHEMICAL WORKS				
10 52 17M				
3673	9.3*	53.1	17.2	100
6663	10.0	52.5	19.0	102
AVERAGE ANALYSIS	9.6	52.8	18.1	
COEFFICIENT OF VARIATION	5.1	.8	7.0	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CHEM CORP CINN OHIO	(Percent)	(Percent)	(Percent)	
19 19M WITH 5 LBS BORAX				
5657 SEE NOTE 2		19.7	19.0	102
6127 SEE NOTE 2		19.0	21.0	104
6293 SEE NOTE 2		18.8	19.5	100
7527 SEE NOTE 2		21.0	16.5	103
AVERAGE ANALYSIS		19.6	19.0	
COEFFICIENT OF VARIATION		5.0	9.8	
20 20M				
1959		20.5	20.5	103
5658 SEE NOTE 4		22.8	16.3	103
6654		19.2*	22.0	101
7195		19.1*	24.0	104
AVERAGE ANALYSIS		20.4	20.7	
COEFFICIENT OF VARIATION		8.4	15.7	
3 12 12M				
1976	3.7	12.6	11.1	105
2890	2.9	12.7	12.0	102
3669	3.0	11.9	13.7	103
4482	2.9	12.8	11.3	101
6652	2.9	11.0*	15.3	102
AVERAGE ANALYSIS	3.0	12.2	12.6	
COEFFICIENT OF VARIATION	11.3	6.2	14.0	
4 12 8M				
1979	4.3	12.2	8.1	102
2889	4.4	12.3	8.1	104
6121	4.3	12.3	8.6	105
6653 SEE NOTE 9	2.6*	15.1	13.9	118
7528	4.2	12.0	8.7	103
AVERAGE ANALYSIS	4.3	12.2	8.3	
COEFFICIENT OF VARIATION	1.8	1.1	3.8	
4 16 4S				
2892 SEE NOTE 1	4.3	16.8	6.1	110
3551 SEE NOTE 1 & 3	4.9	17.1	5.9	114
AVERAGE ANALYSIS	4.6	16.9	6.0	
COEFFICIENT OF VARIATION	9.2	1.2	2.3	
4 16 4S WITH 00.31 LBS ALDRIN				
7168 SEE NOTE 1 & 3	4.6	17.2	6.5	114
4 16 16M				
6128	4.5	16.9	15.4	105
6655	4.0	16.1	15.8	100
AVERAGE ANALYSIS	4.2	16.5	15.6	
COEFFICIENT OF VARIATION	8.3	3.4	1.8	
5 10 10M				
5659	4.9	10.5	10.5	103
5 10 15S				
1977	5.0	10.5	15.0	102
2888	5.1	10.4	15.0	102
4481	4.9	10.7	15.0	102
5591	5.1	10.2	15.0	101
5660	4.9	10.3	15.5	102

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
VA. CAR. CHEM CORP CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
5 10 15S CONTINUED				
6087	5.0	10.2	15.0	101
6122	5.0	10.0	14.9	100
6292 SEE NOTE 1	5.2	10.3	15.0	102
6419	5.0	10.1	14.6	100
6508	4.7*	10.6	14.6	100
6761	5.0	10.1	16.0	102
6781	4.7*	10.3	16.5	102
7170	4.8	10.3	14.9	100
7194	5.0	10.0	15.4	101
7529	5.1	10.1	16.0	103
AVERAGE ANALYSIS	4.9	10.2	15.2	
COEFFICIENT OF VARIATION	2.9	2.0	3.6	
5 10 15S WITH 00.15 LBS ALDRIN				
5661 SEE NOTE 3	4.9	10.1	14.9	100
5 20 20M				
1960	5.0	19.6	21.0	100
2887	5.0	19.7	21.0	101
3670	5.1	20.0	20.0	100
5662	5.4	19.5*	19.6	100
6291	5.1	19.9	20.4	101
6656	5.2	19.9	20.1	101
AVERAGE ANALYSIS	5.1	19.7	20.3	
COEFFICIENT OF VARIATION	2.9	.9	2.7	
6 6 18S				
5663	6.0	6.8	18.0	103
6418	5.5*	6.5	18.1	99
AVERAGE ANALYSIS	5.7	6.6	18.0	
COEFFICIENT OF VARIATION	6.1	3.1	.3	
6 6 18S WITH 00.15 LBS ALDRIN				
5664 SEE NOTE 3 & 5	5.9	6.5	18.1	102
6 12 12M				
2891	6.4	12.6	11.7	104
5592	6.1	12.1	11.1	99
5665	5.9	12.1	12.5	101
5666	6.6	11.7	12.5	103
AVERAGE ANALYSIS	6.2	12.1	11.9	
COEFFICIENT OF VARIATION	4.9	3.0	5.6	
6 12 18S				
4483	6.4	12.5	17.4	103
5667	6.0	12.7	17.9	102
7171	6.0	12.2	17.8	100
AVERAGE ANALYSIS	6.1	12.4	17.7	
COEFFICIENT OF VARIATION	3.7	2.0	1.4	
10 10 10M				
3668	10.3	10.3	9.4	102
5668	9.7	10.7	10.9	102
5839	10.3	10.1	10.1	102
6086	10.0	10.1	10.2	101
6129	10.0	10.1	10.6	101
6289	10.0	10.5	10.4	102
6436	10.0	10.1	10.0	100
6657	9.9	10.5	11.4	104

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
VA CAR CHEM CORP CINCINNATI CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M CONTINUED				
7169	9.8	10.6	10.0	101
7196	9.2*	11.5	9.7	101
7407	9.7	11.0	9.3	101
7624	9.2*	10.5	11.4	100
AVERAGE ANALYSIS	9.8	10.5	10.2	
COEFFICIENT OF VARIATION	3.6	4.0	6.7	
12 12 12M				
5669	12.2	12.2	12.1	102
5670	12.0	12.1	12.6	101
6288	12.7	12.0	12.7	109
AVERAGE ANALYSIS	12.3	12.1	12.4	
COEFFICIENT OF VARIATION	2.9	.8	2.5	
VIRGINIA CAROLINA CHEM CORP HOPKINSVILLE				
20 20M				
3376		20.7	18.3	100
6301		21.4	20.0	105
AVERAGE ANALYSIS		21.0	19.1	
COEFFICIENT OF VARIATION		2.3	6.2	
20 20M WITH 3 LBS BORAX				
6832 SEE NOTE 2		19.4*	19.1	97*
7074 SEE NOTE 2		18.8*	20.0	96*
7469 SEE NOTE 2 & 7		17.6*	20.0	92*
7630 SEE NOTE 2		19.4*	19.7	98
AVERAGE ANALYSIS		18.8	19.7	
COEFFICIENT OF VARIATION		4.5	2.1	
4 12 8M				
2904	4.3	12.2	8.1	103
3238	4.2	12.0	9.5	105
3382	4.3	12.3	8.4	104
5455	4.3	13.9	8.2	111
5713	4.2	12.6	8.0	104
5936	4.4	12.4	8.7	106
6553	4.4	12.3	8.5	105
6830	4.5	12.0	9.4	107
6835	4.1	12.0	9.1	103
7470	4.1	12.4	8.1	103
AVERAGE ANALYSIS	4.2	12.4	8.6	
COEFFICIENT OF VARIATION	3.0	4.5	6.4	
4 16 4S WITH 0015 LBS ALDRIN				
2905 SEE NOTE 3	4.3	16.1	5.0	104
5 10 10S				
3694	5.0	10.1	10.0	100
5 10 15S				
2906	5.1	11.3	15.1	106
3377 SEE NOTE 1	5.0	11.6	15.0	106
3380	5.0	10.7	15.2	103
3691	5.0	10.3	15.1	101
5456	4.8	10.4	14.4	99
5714	4.9	10.1	15.2	100
AVERAGE ANALYSIS	4.9	10.7	15.0	
COEFFICIENT OF VARIATION	2.0	5.5	2.0	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
VA CAR CHEM CORP HOPKINSVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
5 20 20M				
3237	4.9	20.0	21.2	101
3375	5.2	22.5	18.0	105
3695	5.4	21.9	19.3	106
3771	5.6	19.4*	19.9	101
6552	5.2	20.8	20.2	103
7467 SEE NOTE 7	6.2	18.8*	17.1	98
7597 SEE NOTE 7	4.3*	18.2*	19.2	91*
AVERAGE ANALYSIS	5.2	20.2	19.2	
COEFFICIENT OF VARIATION	11.1	7.8	7.1	
6 12 12M				
3378	5.9	12.8	11.3	101
3692	6.1	12.1	12.0	101
5937	6.4	12.3	12.2	104
6302	5.9	12.4	12.0	101
6817	5.9	12.8	11.2	101
6829	6.0	12.2	12.0	101
AVERAGE ANALYSIS	6.0	12.4	11.7	
COEFFICIENT OF VARIATION	3.2	2.4	3.5	
6 12 18S				
3379	6.2	12.4	17.7	102
3696	6.2	12.5	17.5	102
3698	6.2	12.4	17.8	102
4431	6.2	12.0	17.8	101
7072	6.3	12.5	17.7	103
AVERAGE ANALYSIS	6.2	12.3	17.7	
COEFFICIENT OF VARIATION	.7	1.6	.6	
6 18 12M				
3383	6.1	19.0	12.0	103
3693	6.1	18.4	12.5	102
3699	6.1	18.3	13.2	103
6816	6.1	18.0	12.7	102
AVERAGE ANALYSIS	6.1	18.4	12.6	
COEFFICIENT OF VARIATION		2.2	3.9	
10 10 10M				
3381	10.0	11.3	10.0	104
3690	9.9	10.7	10.2	102
3697	10.0	10.4	10.0	101
3700	10.2	10.8	10.1	104
5715	9.8	11.1	10.0	103
5938	10.2	10.9	10.6	105
6029	10.1	10.1	10.0	101
6303	10.0	10.4	10.2	102
6831	9.9	10.0	10.7	101
7073	9.8	10.7	10.0	101
7151	10.1	10.7	10.3	103
7468	10.3	10.4	10.0	103
7591	10.0	10.4	10.1	102
AVERAGE ANALYSIS	10.0	10.6	10.1	
COEFFICIENT OF VARIATION	1.5	3.5	2.3	
12 12 12M				
3689	12.0	13.3	12.0	104
5413 SEE NOTE 5	10.7*	12.6	11.9	96*
AVERAGE ANALYSIS	11.3	12.9	11.9	
COEFFICIENT OF VARIATION	8.0	3.8	.5	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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 CHEM CORP MEMPHIS TENN	(Percent)	(Percent)	(Percent)	
20 20M				
5893		20.6	19.6	101
6020		21.4	18.4	102
AVERAGE ANALYSIS		21.0	19.0	
COEFFICIENT OF VARIATION		2.6	4.4	
4 12 8M				
5894	4.1	13.5	9.2	110
6024	4.2	11.9	8.1	101
AVERAGE ANALYSIS	4.1	12.7	8.6	
COEFFICIENT OF VARIATION	1.7	8.9	8.9	
5 20 20M				
5271	4.9	20.5	20.0	101
6 12 12M				
1945	6.2	12.2	11.7	101
5272	5.9	12.6	12.0	102
AVERAGE ANALYSIS	6.0	12.4	11.8	
COEFFICIENT OF VARIATION	3.5	2.2	1.7	
10 10 10M				
5273	9.8	10.3	10.2	100
5895	10.3	11.4	11.5	109
6021	10.5	10.3	10.9	105
AVERAGE ANALYSIS	10.2	10.6	10.8	
COEFFICIENT OF VARIATION	3.5	5.9	5.9	
12 12 12M				
5896	12.2	13.6	11.9	105
15 15 15M				
5897 SEE NOTE 7	12.6*	16.5	15.0	95*
VIRGINIA CAROLINA CHEM CORP MT PLEASANT				
20 20M				
3546		19.9	19.6	99
7053		19.7	19.3	98
7248		19.3*	20.0	98
AVERAGE ANALYSIS		19.6	19.6	
COEFFICIENT OF VARIATION		1.5	1.7	
20 20M WITH 5 LBS BORAX				
7627 SEE NOTE 2		19.6	19.1	97*
3 12 12M				
7098	3.9	11.9	12.5	107
7323	3.5	12.0	12.7	105
AVERAGE ANALYSIS	3.7	11.9	12.6	
COEFFICIENT OF VARIATION	7.6	.5	1.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
VA CAR CHEM CORP MT PLEASANT CONTINUED	(Percent)	(Percent)	(Percent)	
4 12 8M				
2897	4.2	12.2	8.0	102
3545	4.1	12.1	9.2	104
7100	4.1	12.2	9.2	104
7322	4.0	12.4	8.1	102
AVERAGE ANALYSIS	4.1	12.2	8.6	
COEFFICIENT OF VARIATION	1.9	1.0	7.7	
4 12 8 2 MURIATE 6 SULFATE				
2895 SEE NOTE 1	4.3	12.0	8.3	103
7246 SEE NOTE 1	4.3	12.0	8.5	103
7447 SEE NOTE 1	4.5	12.1	7.9	104
AVERAGE ANALYSIS	4.3	12.0	8.2	
COEFFICIENT OF VARIATION	2.6	.4	3.7	
4 12 12M				
7245	4.0	12.8	12.5	104
5 10 10M				
3549	5.3	11.0	8.6	103
5 10 15S				
3552	4.9	10.2	15.5	101
7101	5.2	10.5	15.2	104
7326	4.9	10.5	15.0	101
7448	5.0	10.2	15.0	101
AVERAGE ANALYSIS	5.0	10.3	15.1	
COEFFICIENT OF VARIATION	2.8	1.6	1.5	
5 20 20M				
3547	5.0	18.8*	20.0	97*
6019	4.7*	19.9	20.0	99
7054	5.0	18.8*	20.3	97*
7325	5.2	19.2*	19.4	98
AVERAGE ANALYSIS	4.9	19.1	19.9	
COEFFICIENT OF VARIATION	4.1	2.7	1.8	
5 20 20M WITH 5 LBS BORAX				
2898 SEE NOTE 2 & 4	4.9	17.4*	20.4	93*
6 8 6S				
5672	6.0	8.8	6.4	105
6 12 12M				
7097	6.4	12.5	11.9	104
7247	6.0	12.1	12.2	101
AVERAGE ANALYSIS	6.2	12.3	12.0	
COEFFICIENT OF VARIATION	4.5	2.2	1.7	
6 12 18S				
3550	6.2	12.3	17.3	101
7055	6.2	12.0	17.6	100
7327	6.1	12.1	17.7	100
AVERAGE ANALYSIS	6.1	12.1	17.5	
COEFFICIENT OF VARIATION	.9	1.2	1.1	

TABLE 1.— Analyses of Inspection Samples of Mixed Dry Fertilizers, January-June, 1962

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
VA CAR CHEM CORP MT PLEASANT CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M				
2896	9.2*	10.3	10.0	97*
3548	9.6*	10.3	10.0	99
7102	9.5*	10.2	10.2	99
7324	9.5*	10.1	10.0	98
AVERAGE ANALYSIS	9.4	10.2	10.0	
COEFFICIENT OF VARIATION	1.8	.9	.9	
VIRGINIA CAROLINA CHEM CORP RICHMOND VA				
5 20 20M				
6760	5.3	19.6	20.0	100
6 12 12M				
6023	6.2	12.4	11.6	102
6 12 18S				
1978	6.4	12.4	17.6	103
6437	6.0	12.3	17.8	101
AVERAGE ANALYSIS	6.2	12.3	17.7	
COEFFICIENT OF VARIATION	4.5	.5	.7	
12 12 12M				
6022	12.2	11.5*	12.7	100

TABLE 2.— Analyses of Inspection Samples of Mixed Liquid Fertilizers, January-June, 1962

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 FERTILIZER CO INC	(Percent)	(Percent)	(Percent)	
10 20 10M LIQUID				
5857	10.1	20.4	10.0	101
BARTLETT & O BRYAN FERTILIZER CO				
4 12 12M LIQUID				
4591	4.2	12.4	11.8	103
4592	4.1	12.4	11.7	102
4593	4.3	12.4	11.9	103
4643	4.2	12.2	11.4	101
4644	3.9	12.1	11.6	99
AVERAGE ANALYSIS	4.1	12.3	11.6	
COEFFICIENT OF VARIATION	3.6	1.1	1.6	
COMMONWEALTH FERTILIZER COMPANY INC				
4 12 8M LIQUID				
2826	4.1	11.2*	8.3	98
2827	4.2	12.1	6.2	98
7491	4.1	10.8*	8.1	95*
7492	4.2	10.5*	8.2	95*
7493	4.2	11.8	8.1	101
AVERAGE ANALYSIS	4.1	11.2	7.7	
COEFFICIENT OF VARIATION	1.3	5.9	11.4	
5 10 10M LIQUID				
2829	5.5	11.1	10.6	110
7494	5.6	10.5	10.0	120
AVERAGE ANALYSIS	5.5	10.8	10.3	
COEFFICIENT OF VARIATION	1.2	3.9	4.1	
5 10 10 5 MURIATE 5 KOH LIQUID				
7495	5.3	10.5	9.4	103
7610	5.1	10.2	9.5	100
AVERAGE ANALYSIS	5.2	10.3	9.4	
COEFFICIENT OF VARIATION	2.7	2.0	.7	
6 12 12M LIQUID				
7496	6.2	11.3*	11.7	98
6 18 6M LIQUID				
2828	6.4	18.0	6.2	102
7 14 7M LIQUID				
7497	9.3	12.0*	8.0	107
7609	8.0	15.3	7.5	111
7637	8.2	15.1	7.7	112
AVERAGE ANALYSIS	8.5	14.1	7.7	
COEFFICIENT OF VARIATION	8.2	13.0	3.2	

TABLE 2.— Analyses of Inspection Samples of Mixed Liquid Fertilizers, January-June, 1962

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 CO INC CONTINUED	(Percent)	(Percent)	(Percent)	
10 10 10M LIQUID				
7489	10.1	8.6*	10.1	96*
7490	10.5	10.1	10.0	103
7498	10.6	10.2	10.0	104
7499	10.5	9.3*	10.0	100
7500	10.2	9.4*	10.0	99
7501	10.4	9.3*	10.0	100
7502	10.4	7.5*	10.1	94*
7636	10.5	10.3	9.8	103
AVERAGE ANALYSIS	10.4	9.3	10.0	
COEFFICIENT OF VARIATION	1.6	10.0	.9	
J H ERBRICH PRODUCTS CO				
6 18 6S LIQUID				
7487 SEE NOTE 1	5.4*	16.7*	6.0	93*
FARMERS SUPPLY & PRODUCE COMPANY				
5 10 5M LIQUID				
3795	4.0*	9.8	6.2	95*
LAND O NAN WAREHOUSE MORGANFIELD				
3 9 9M LIQUID				
7380	5.5	3.5*	10.0	93*
4 8 6M LIQUID				
7375	4.2	7.8	6.6	102
6 8 12M LIQUID				
2885	6.2	8.0	12.4	102
6 18 6M LIQUID				
7649	6.3	18.2	6.3	103
10 5 5M LIQUID				
7376	11.3	2.2*	4.8	96*
10 5 10M LIQUID				
7378	10.0	5.4	10.1	102
10 7 7M LIQUID				
7379	10.1	7.1	7.4	102
12 4 8M LIQUID				
7648	11.8	4.2	9.2	102

TABLE 2.— Analyses of Inspection Samples of Mixed Liquid Fertilizers, January - June, 1962

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 CONTINUED	(Percent)	(Percent)	(Percent)	
12 5 5M LIQUID				
7374	12.4	5.2	5.0	100
12 6 6M LIQUID				
7608	12.0	6.0	6.0	100
SOUTHERN STATES CLARK COUNTY COOP				
5 10 5M LIQUID				
5858	4.4*	10.6	6.4	102
WEST KENTUCKY LIQUID FERT CO BOWLING GREEN				
5 15 8M LIQUID				
7281	5.1	15.4	8.0	102
6 20 0 LIQUID				
7282	6.1	19.5*		99
8 8 8M LIQUID				
7503	8.8	8.3	7.6	105
15 15 0 LIQUID				
7280	15.1	15.3		101
7504	15.3	14.4*		100
AVERAGE ANALYSIS	15.2	14.8		
COEFFICIENT OF VARIATION	.9	4.2		
18 9 0 LIQUID				
7506	18.1	9.0		100
18 12 0 LIQUID				
7283	13.1	11.5*		99
7507	19.0	10.4*		100
7508	18.2	11.8		100
7509	18.3	11.6*		100
7510	18.3	11.4*		100
7511	19.6	10.6*		103
7639 SEE NOTE 5	19.1	10.2*		100
7640 SEE NOTE 5	18.1	11.2*		98
AVERAGE ANALYSIS	18.5	11.0		
COEFFICIENT OF VARIATION	3.0	5.4		
21 7 0 LIQUID				
7505 SEE NOTE 5	20.6	6.9		98
7641	21.2	7.0		101
AVERAGE ANALYSIS	20.9	6.9		
COEFFICIENT OF VARIATION	2.0	1.0		

TABLE 2.— Analyses of Inspection Samples of Mixed Liquid Fertilizers, January-June, 1962

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 KENTUCKY LIQUID FERT CO GUTHRIE	(Percent)	(Percent)	(Percent)	
4 11 11M LIQUID				
3703	4.4	11.1	10.9	103
3803	4.3	11.2	11.1	103
AVERAGE ANALYSIS	4.3	11.1	11.0	
COEFFICIENT OF VARIATION	1.6	.6	1.2	
5 15 5M LIQUID				
3804	5.1	14.1*	5.9	99
6 18 3M LIQUID				
3704	6.1	17.6*	3.2	99
8 8 8M LIQUID				
3705	8.1	8.4	7.7	102
3707	8.1	8.1	8.2	101
3709	8.3	8.2	7.9	103
AVERAGE ANALYSIS	8.1	8.2	7.9	
COEFFICIENT OF VARIATION	1.4	1.8	3.1	
8 24 0 LIQUID				
3702	7.9	24.0		100
3706	8.3	22.1*		96*
3802	8.0	23.5*		99
3809	9.7	23.9		107
AVERAGE ANALYSIS	8.4	23.3		
COEFFICIENT OF VARIATION	9.8	3.7		
10 20 0 LIQUID				
3710	10.1	19.6		99
12 8 4M LIQUID				
3711	12.1	8.0	4.0	101
3805	12.0	8.3	4.5	102
AVERAGE ANALYSIS	12.0	8.1	4.2	
COEFFICIENT OF VARIATION	.5	2.6	8.3	
18 9 0 LIQUID				
3807	17.9	9.0		100
WEST KENTUCKY LIQUID FERT CO HOPKINSVILLE				
4 12 8M LIQUID				
3675	4.1	11.9	8.4	101
4 12 12M LIQUID				
3681	4.4	12.2	11.5	102
3740	4.1	12.4	11.9	102
3745	4.3	12.5	11.9	104
3801	4.2	12.6	11.9	104
AVERAGE ANALYSIS	4.2	12.4	11.8	
COEFFICIENT OF VARIATION	3.0	1.3	1.6	
5 10 10M LIQUID				
3677	5.1	10.2	10.0	102

TABLE 2.— Analyses of Inspection Samples of Mixed Liquid Fertilizers, January - June, 1962

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 LIQ FERT CO HOPKINSVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
5 15 10M LIQUID				
3739	5.1	15.0	10.0	101
3742	5.6	15.0	9.9	103
3743	5.1	15.2	10.0	101
AVERAGE ANALYSIS	5.2	15.0	9.9	
COEFFICIENT OF VARIATION	5.4	.7	.5	
6 12 12 6 MURIATE 6 KOH LIQUID				
3746	6.1	12.0	12.0	101
3797	6.1	12.2	12.0	101
3798	6.1	12.3	12.0	102
AVERAGE ANALYSIS	6.1	12.1	12.0	
COEFFICIENT OF VARIATION		1.2		
6 18 6M LIQUID				
3674	6.1	18.0	6.1	101
3799	6.1	18.1	6.2	101
3800	6.3	17.8	6.2	101
AVERAGE ANALYSIS	6.1	17.9	6.1	
COEFFICIENT OF VARIATION	1.8	.8	.9	
6 18 9M LIQUID				
3682	6.0	18.2	9.0	101
6 20 0 LIQUID				
3806	6.8	19.7		103
8 24 0 LIQUID				
3676	8.0	24.2		101
3678	8.0	24.2		101
AVERAGE ANALYSIS	8.0	24.2		
COEFFICIENT OF VARIATION				
10 10 10 5 MURIATE 5 KOH LIQUID				
3738	9.8	10.3	9.8	100
3796	10.6	10.4	9.3	103
AVERAGE ANALYSIS	10.2	10.3	9.5	
COEFFICIENT OF VARIATION	5.5	.6	3.7	
10 20 10M LIQUID				
3401	10.2	20.5	10.2	102
12 12 6M LIQUID				
3679	12.2	11.9	6.2	101
3741	11.5*	12.3	6.7	100
3744	12.1	12.4	6.0	102
AVERAGE ANALYSIS	11.9	12.2	6.3	
COEFFICIENT OF VARIATION	3.1	2.1	5.7	
15 15 0 LIQUID				
3680	14.5*	15.6		100

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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 CHEMICAL CORP NIT DIV HOPEWELL VA	(Percent)	(Percent)	(Percent)	
NITRATE OF SODA				
5818	16.0			100
AMMONIUM NITRATE				
5819	33.3			99
ALLIED CHEMICAL CORP NIT DIV MEMPHIS TENN				
30 NITROGEN SOLUTION				
5784	29.8			99
AMERICAN AGRI CHEMICAL CO LONDON				
AMMONIUM NITRATE				
4165	34.1			102
5335	33.9			101
SUPERPHOSPHATE				
5285		21.0		105
6491		20.1		100
6630		20.7		103
AMERICAN AGRI CHEMICAL CO NEW YORK				
SUPERPHOSPHATE				
4239 18 PERCENT		19.0		106
4466		20.5		103
5488		21.1		105
6810		19.9		100
46 TRIPLE SUPERPHOSPHATE				
5533		46.7		102
50 SULFATE OF POTASH				
6492			50.5	101
AMERICAN CYANAMID COMPANY				
AMMONIUM NITRATE				
5552	33.5			100

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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 GA	(Percent)	(Percent)	(Percent)	
AMMONIUM NITRATE				
4334	33.5			100
5111	33.7			101
50 SULFATE OF POTASH				
5502			51.0	102
MURIATE OF POTASH				
5501			60.0	100
ARMOUR AGRICULTURAL CHEM CO BARTOW FLORIDA				
45 TRIPLE SUPERPHOSPHATE				
3399		45.0		100
3486		44.3		98
5900		45.0		100
ARMOUR AGRICULTURAL CHEM CO CHEROKEE ALA				
ANHYDROUS AMMONIA				
4659	82.0			100
4675	82.0			100
4695	82.0			100
ARMOUR AGRICULTURAL CHEM CO CINCINNATI OHI				
SUPERPHOSPHATE				
4691		20.2		101
5508		20.0		100
6112		20.0		100
6117		19.4*		97*
6275		20.6		103
6771		20.9		105
45 TRIPLE SUPERPHOSPHATE				
5909		44.2*		98
MURIATE OF POTASH				
5908 SEE NOTE 4			56.1	94*
ARMOUR AGRICULTURAL CHEM CO CRYSTAL CITY M				
AMMONIUM NITRATE				
1908	33.6			100
5122	33.5			100

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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 JEFFERSONVILLE	(Percent)	(Percent)	(Percent)	
AMMONIUM SULFATE				
6407	19.4*			95*
AMMONIUM NITRATE				
3480	33.9			101
SUPERPHOSPHATE				
5736		19.3*		97*
6062		21.0		105
6181		19.5*		98
6264		20.0		100
7316		20.0		100
48 SULFATE OF POTASH				
5205			50.0	104
6502			50.0	104
6613			49.0	102
6685			48.5	101
6784			49.0	102
MURIATE OF POTASH				
5107			60.3	101
ARMOUR AGRICULTURAL CHEM CO NASHVILLE TENN				
30 NITROGEN SOLUTION				
7638	30.1			100
ANHYDROUS AMMONIA				
4669	82.0			100
SUPERPHOSPHATE				
5233		20.4		102
6031		20.8		104
6035		21.9		110
6332		20.0		100
7077		20.3		102
7243		20.6		103
45 TRIPLE SUPERPHOSPHATE				
3821		45.1		100
MURIATE OF POTASH WITH 3 LBS BORAX				
6334			58.4	97*
ASSOCIATED COOPERATIVES INC				
AMMONIUM NITRATE				
4306	34.1			102

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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 CONTINUED	(Percent)	(Percent)	(Percent)	
61 CALCIUM METAPHOSPHATE				
5647		63.0		103
62 CALCIUM METAPHOSPHATE				
5737		62.9		101
BALE FERTILIZER COMPANY				
SUPERPHOSPHATE				
7083		20.2		101
50 SULFATE OF POTASH				
7391			50.5	101
BLUEGRASS PLANT FOODS INC CYNTHIANA				
AMMONIUM SULFATE				
4536	19.7*			96*
6395	20.8			101
SUPERPHOSPHATE				
6393		19.6		98
6494		19.0*		95*
BLUEGRASS PLANT FOODS INC DANVILLE				
SUPERPHOSPHATE				
2865		19.7		98
3424		19.6		98
5474		19.1*		95*
6373		19.0*		95*
7522		19.3*		97*
50 SULFATE OF POTASH				
6370			49.0	98
6380			51.0	102
7289			49.1	98
BURLEY BELT PLANT FOOD WORKS INC				
SUPERPHOSPHATE				
5753		20.0		100
45 TRIPLE SUPERPHOSPHATE				
5542		46.8		104

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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
CALIFORNIA CHEMICAL COMPANY	(Percent)	(Percent)	(Percent)	
AMMONIUM NITRATE				
1961	33.8			101
5681	33.7			101
CENTRAL FARMERS FERTILIZER COMPANY				
46 TRIPLE SUPERPHOSPHATE				
5398		44.7*		97*
CHILEAN NITRATE SALES CORPORATION				
NITRATE OF SODA				
5543	16.0			100
COMMERICAL SOLVENTS CORPORATION				
AMMONIUM NITRATE				
5744	33.3			99
COMMONWEALTH FERTILIZER COMPANY INC				
SUPERPHOSPHATE				
5454		19.8		99
7045		19.6		98
7434		19.9		100
7438		19.6		98
50 SULFATE OF POTASH				
5453			50.0	100
COOPERATIVE FERTILIZER SERVICE BRISTOL VA				
SUPERPHOSPHATE				
5525		20.0		100
COOPERATIVE FERTILIZER SERVICE LOUISVILLE				
SUPERPHOSPHATE				
2849		20.0		100
5190		20.4		102
6154		19.8		99
6470		19.9		100

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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 LOUISVILLE CONTINUED	(Percent)	(Percent)	(Percent)	
63 CALCIUM METAPHOSPHATE				
3534		63.1		100
50 SULFATE OF POTASH				
6376			50.0	100
6615			50.0	100
51 SULFATE OF POTASH				
6006			51.2	100
6153			50.9	100
MURIATE OF POTASH				
3531			60.3	101
5927			60.0	100
COOPERATIVE FERTILIZER SERVICE RUSSELLVILL				
SUPERPHOSPHATE				
5214		19.8		99
56 TRIPLE SUPERPHOSPHATE				
5215		57.7		103
5439		56.9		102
7458		57.2		102
MURIATE OF POTASH				
4328			60.0	100
COOPERATIVE FERTILIZER SERVICE WINCHESTER				
SUPERPHOSPHATE				
2928		20.6		103
5550		20.1		100
6161		19.9		100
6375		20.4		102
6794		20.4		102
50 SULFATE OF POTASH				
4557			50.0	100
5145			50.0	100
5551			50.0	100
6792			51.0	102
MURIATE OF POTASH				
5136			60.0	100
5540			60.0	100
5914			60.0	100
6793			60.5	101

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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 CAIRO ILLINOIS	(Percent)	(Percent)	(Percent)	
MURIATE OF POTASH				
5258			60.0	100
E TOWN FERTILIZER COMPANY				
SUPERPHOSPHATE				
7230		19.2*		96*
7536		19.9		100
FEDERAL CHEMICAL COMPANY HUMBOLDT TENN				
SUPERPHOSPHATE				
6533		19.3*		97*
FEDERAL CHEMICAL COMPANY LOUISVILLE				
ANHYDROUS AMMONIA				
4694	82.0			100
4696	82.0			100
SUPERPHOSPHATE				
4157		20.0		100
5448		19.5*		98
6092		19.8		99
6256 SEE NOTE 5		16.7*		83*
6587		19.1*		95*
6621		19.8		99
47 TRIPLE SUPERPHOSPHATE				
5447 SEE NOTE 5		40.5*		86*
50 SULFATE OF POTASH				
5735			49.3	99
6610			50.0	100
MURIATE OF POTASH				
5161			60.0	100
6609			60.0	100
GRO GREEN CHEMICAL COMPANY				
50 SULFATE OF POTASH				
6390			50.0	100
6789			50.5	101

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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
W R GRACE & CO DAVISON CHEM DIV BARTOW FLA	(Percent)	(Percent)	(Percent)	
46 TRIPLE SUPERPHOSPHATE				
5541		45.3		98
5915		44.8*		97*
W R GRACE & CO DAVISON CHEM DIV NASHVILLE				
30 NITROGEN SOLUTION				
6581	29.9			100
SUPERPHOSPHATE				
3509		20.1		100
6299		19.9		100
6305		20.0		100
50 SULFATE OF POTASH				
5186			50.0	100
W R GRACE & CO DAVISON CHEM DIV NEW ALBANY				
SUPERPHOSPHATE				
5181		19.6		98
5462		22.3		112
7551		20.6		103
50 SULFATE OF POTASH				
5719 SEE NOTE 5			48.0	96*
6101 SEE NOTE 5			49.0	98
6184			49.7	99
W R GRACE & CO NITROGEN PRODUCTS DIV				
ANHYDROUS AMMONIA				
4656	82.0			100
4660	82.0			100
4663	82.0			100
4664	82.0			100
4665	82.0			100
4673	82.0			100
4674	82.0			100
UREA				
3225	45.1			100

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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	(Percent)	(Percent)	(Percent)	
56 TRIPLE SUPERPHOSPHATE				
5786		55.5		99
6573 SEE NOTE 5		48.6*		87*
50 SULFATE OF POTASH				
5580			50.5	101
6216			50.2	100
6568			50.0	100
MURIATE OF POTASH				
5269			60.0	100
7134			59.8	100
INTERNATIONAL MIN & CHEM CORP CINCINNATI				
SUPERPHOSPHATE				
4349		20.5		103
INTERNATIONAL MIN & CHEM CORP SKOKIE ILL				
AMMONIUM NITRATE				
4368	33.5			100
SULFATE OF POTASH WITH MAGNESIA				
2947			21.5	103
50 SULFATE OF POTASH				
3239			50.5	101
4369			50.0	100
5162			50.5	101
6162			50.0	100
MURIATE OF POTASH				
4370			60.6	101
5588			60.5	101
INTERNATIONAL MIN & CHEM CORP SOMERSET				
SUPERPHOSPHATE				
3461		20.0		100
7212		20.0		100
KENTUCKY FERTILIZER WORKS INC				
46 TRIPLE SUPERPHOSPHATE				
5694		44.8*		97*

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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 INC CONTINUED	(Percent)	(Percent)	(Percent)	
50 SULFATE OF POTASH				
5492			50.5	101
5922			50.0	100
LAND O NAN WAREHOUSE MORGANFIELD				
30 NITROGEN SOLUTION				
7377	30.0			100
LAND O NAN WAREHOUSE STURGIS				
30 NITROGEN SOLUTION				
7607	30.0			100
MID SOUTH CHEMICAL CORPORATION				
ANHYDROUS AMMONIA				
4653	82.0			100
4655	82.0			100
4658	82.0			100
4661	82.0			100
4666	82.0			100
4670	82.0			100
4671	82.0			100
4672	82.0			100
4692	82.0			100
4693	82.0			100
4751	82.0			100
MISSISSIPPI CHEMICAL CORPORATION				
AMMONIUM NITRATE				
5644	33.5			100
MONSANTO CHEMICAL COMPANY				
AMMONIUM NITRATE				
3479	34.0			101
5328	34.1			102
5478	33.8			101

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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 COMPANY	(Percent)	(Percent)	(Percent)	
SUPERPHOSPHATE				
3244		20.0		100
4342		20.1		100
5724		20.0		100
6366		20.0		100
7209		18.8*		94*
MURIATE OF POTASH				
6447			59.3	99
OLIN MATHIESON CHEM CORP LAKE CHARLES LA				
ANHYDROUS AMMONIA				
4667	82.0			100
PHILLIPS PETROLEUM COMPANY				
ANHYDROUS AMMONIA				
4668	82.0			100
F S ROYSTER GUANO CO PRICE CHEMICAL DIV				
46 TRIPLE SUPERPHOSPHATE				
6522		45.3		98
SOHIO CHEMICAL COMPANY				
UREA				
6259	45.2			100
SPENCER CHEMICAL COMPANY HENDERSON				
30 NITROGEN SOLUTION				
5443	30.0			100
6310	30.2			101
ANHYDROUS AMMONIA				
4652	82.0			100
4654	82.0			100
4657	82.0			100
4662	82.0			100

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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 COMPANY KANSAS CITY MO	(Percent)	(Percent)	(Percent)	
AMMONIUM NITRATE				
3211	33.8			101
5200	33.8			101
5349	33.5			100
TENNESSEE CHEMICAL COMPANY				
SUPERPHOSPHATE				
4132		21.5		107
TENNESSEE CORPORATION CINCINNATI OHIO				
SUPERPHOSPHATE				
3346		19.3*		97*
5590		19.6		98
6594		20.1		100
TENNESSEE CORPORATION NEW ALBANY IND				
SUPERPHOSPHATE				
6044		19.6		98
6368		20.5		103
7306		20.3		102
TENNESSEE CORPORATION TAMPA FLA				
46 TRIPLE SUPERPHOSPHATE				
6721		46.2		101
TRI STATE CHEMICAL COMPANY				
45 TRIPLE SUPERPHOSPHATE				
2956		45.5		101
MURIATE OF POTASH				
2955			60.0	100
VALLEY COUNTIES OF KENTUCKY COOPERATIVE				
56 TRIPLE SUPERPHOSPHATE				
5905		55.6		99
6540		56.9		102

TABLE 3.— Analyses of Straight Materials, January-June, 1962

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
VALLEY COUNTIES OF KENTUCKY COOP CONTINUED	(Percent)	(Percent)	(Percent)	
62 CALCIUM METAPHOSPHATE				
5589		63.5		102
MURIATE OF POTASH				
5787			60.0	100
6215			60.0	100
6249			60.0	100
6572			60.0	100
6694			60.0	100
VIRGINIA CAROLINA CHEM CORP CINN OHIO				
SUPERPHOSPHATE				
5671		20.4		102
6290		20.0		100
6507		20.7		103
VIRGINIA CAROLINA CHEM CORP HOPKINSVILLE				
SUPERPHOSPHATE				
5457		19.5*		98
5939		20.0		100
VIRGINIA CAROLINA CHEM CORP MEMPHIS TENN				
SUPERPHOSPHATE				
5274		18.5*		92*
VIRGINIA CAROLINA CHEM CORP NICHOLS FLA				
46 TRIPLE SUPERPHOSPHATE				
3553		45.3		98
VIRGINIA CAROLINA CHEM CORP RICHMOND VA				
46 TRIPLE SUPERPHOSPHATE				
7573		46.8		102
WEST KENTUCKY LIQUID FERT CO GUTHRIE				
30 NITROGEN SOLUTION				
3708	30.0			100
3808	30.3			101

TABLE 4 - Analyses of Inspection Samples of Rock Phosphate, Soft Phosphate with Colloidal Clay

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
	Eaton-Mann Phosphate Co.					
5877	Rock Phosphate	3.0	3.0	30.0	30.1	101
	Ruhm Phosphate & Chem. Co.					
5942	Rock Phosphate	3.0	3.0	30.0	30.6	102
	Thompson Sales Co.					
2860	Calphos	2.0	4.3	20.0	20.3	102

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

Sample Number	Manufacturer, Brand	Nitrogen	Total Phosphoric Acid	Potash	Percent of Relative Value Found
	American Agri. Chem. Co.				
4190	7-0-0 Agrinite	7.1	--	--	101
4240	7-0-0 Agrinite	7.1	--	--	101
5252	7-0-0 Agrinite	7.1	--	--	101
5656	7-0-0 Agrinite	7.2	--	--	103
7007	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 Company Nashville, Tennessee	7263	4-12-8 (3M-5S)	0.7
Armour Agricultural Chemical Company Atlanta, Georgia	4259	5-10-5S	0.4
	5140	5-10-5S	0.5
Armour Agricultural Chemical Company Cincinnati, Ohio	5638	5-10-15S	2.3
	4512	6-8-6S	0.5
	3318	6-12-18S	0.3
Armour Agricultural Chemical Company Jeffersonville, Indiana	2990	5-10-5S with 0.18 Dieldrin	0.22
	1909	5-10-15S	1.0
	5620	5-10-15S	0.3
	6786	5-10-15S with 0.15 Aldrin	0.3
	6639	6-6-18S	0.7
	6661	6-6-18S	0.5
	6782	6-8-6S	0.4
	3483	6-12-18S	0.8
	6671	6-12-18S	1.0
	7091	6-12-18S	1.1
	4192	10-10-20S	0.4
	4371	10-10-20S	0.5
	4509	10-10-20S	0.4
	6452	10-10-20S	0.3
	6498	10-10-20S with 0.15 Aldrin	0.4
Armour Agricultural Chemical Company Nashville, Tennessee	3523	5-10-15S	0.3
	3733	5-10-15S	0.9
	4309	5-10-15S	0.3
	7478	5-10-15S	0.6
	6542	6-12-18S	0.4
Bartlett & O'Bryan Fertilizer Company Owensboro, Kentucky	4588	5-10-15S	4.4
	5709	5-10-15S	0.3
Bluegrass Plant Foods, Inc. Danville, Kentucky	5823	6-8-6S	1.2
Cooperative Fertilizer Service Louisville, Kentucky	2886	4-16-4S with 0.31 Aldrin	0.3
Darling & Company Cairo, Illinois	5261	5-10-15S	0.5
	5419	5-10-15S	0.4
	6230	5-10-15S	0.8
J. H. Erbich Products Company Indianapolis, Indiana	7387	6-18-6S (liquid)	6.4
Federal Chemical Company Humboldt, Tennessee	1954	5-10-15S	4.2
	5408	5-10-15S	0.8
	5428	5-10-15S	0.5
	5806	5-10-15S	1.7
	6210	5-10-15S	0.7
	6226	5-10-15S	3.1

(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
	6244	5-10-15S	1.9
	6536	5-10-15S	0.9
	6547	5-10-15S	3.4
	6709	5-10-15S	3.0
	6716	5-10-15S	0.7
	6717	5-10-15S	0.9
	6719	5-10-15S	2.5
	5790	5-10-15S with 0.15 Aldrin	2.6
Federal Chemical Company Louisville, Kentucky	1988	4-16-4S	0.8
	4146	4-16-4S	0.7
	4284	4-16-4S	0.4
	6041	4-16-4S	2.0
	6271	4-16-4S	1.3
	2000	4-16-4S with 0.18 Aldrin	2.3
	3248	4-16-4S with 0.18 Aldrin	1.5
	4562	5-10-15S	0.4
	5564	5-10-15S	1.6
	5571	5-10-15S	4.9
	6072	6-6-18S	2.6
	6143	6-6-18S	0.9
	4147	9-10-15S	0.5
	4404	9-10-15S	0.7
	6075	9-10-15S	0.3
	6446	9-10-15S	0.4
	6597	9-10-15S	0.3
Federal Chemical Company Nashville, Tennessee	7562	5-10-15S	0.6
W. R. Grace & Co., Davison Chem. Div. Nashville, Tennessee	6185	4-16-4S	0.7
	5217	5-10-15S	1.1
	6209	5-10-15S	0.5
	4621	5-10-15S with 0.50 Aldrin	1.3
Gro-Green Chemical Company, Inc. Shelbyville, Kentucky	6605	6-6-18S	1.0
Hutson Chemical Company Murray, Kentucky	6748	5-10-15S	1.0
International Mineral & Chemical Corp. Clarksville, Tennessee	7474	4-12-8 (1M-7S)	0.5
	5567	4-16-4S	1.7
	4408	5-10-15S	0.3
	6315	5-10-15S	1.2
International Mineral & Chemical Corp. Somerset, Kentucky	3536	5-10-15 (3M-12S)	0.4
North American Fertilizer Company Louisville, Kentucky	3245	4-16-4S	2.3
	4191	4-16-4S	1.0
	6413	6-6-18S	0.5
	5118	6-8-6S	0.4
F. S. Royster Guano Co., Price Chem. Div. Louisville, Kentucky	5166	6-6-18S	0.3

(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
Tennessee Corporation	1920	4-16-4S	0.7
New Albany, Indiana	3778	5-10-15S	0.3
	6045	6-8-6S	2.0
	7304	6-8-6S	0.6
Tri-State Chemical Company	5216	4-16-4S	2.5
Henderson, Kentucky			
Virginia-Carolina Chemical Corp.	2892	4-16-4S	0.3
Cincinnati, Ohio	3551	4-16-4S with 0.31 Aldrin	0.7
	7168	4-16-4S with 0.31 Aldrin	1.2
	6292	5-10-15S	0.3
Virginia-Carolina Chemical Corp.	3377	5-10-15S	0.5
Hopkinsville, Kentucky			
Virginia-Carolina Chemical Corp.	2895	4-12-8 (2M-6S)	0.5
Mt. Pleasant, Tennessee	7246	4-12-8 (2M-6S)	0.5
	7447	4-12-8 (2M-6S)	0.3

TABLE 7 - Results of analyses of Boron in fertilizers reported in Tables 1 and 2. Analyses deficient are underlined.

COMPANY	Sample Number	Guarantee	Found
American Agricultural Chemical Company	3278	0.57	0.57
London, Kentucky	3279	0.57	0.66
	3295	0.57	0.47
	5475	0.57	0.52
	6090	0.57	0.57
	6489	0.57	0.54
	7086	0.57	0.68
Armour Agricultural Chemical Company	3783	0.57	0.59
Cincinnati, Ohio	5503	0.57	0.82
Armour Agricultrual Chemical Company	6080	0.34	0.39
Jeffersonville, Indiana	6500	0.57	0.71
	7622	0.57	0.52
Armour Agricultural Chemical Company	3524	0.57	0.27
Nashville, Tennessee	3606	0.45	0.47
	3770	0.34	0.30
	5245	0.34	0.07
Bale Fertilizer Company	7223	0.56	0.91
Horse Cave, Kentucky			
Bluegrass Plant Foods, Inc.	2957	0.57	0.73
Danville, Kentucky	3560	0.57	0.59
	6378	0.23	0.28
	7156	0.57	0.59
	7286	0.57	0.71
	7615	0.57	0.48
Commonwealth Fertilizer Company	7514	0.55	0.62
Russellville, Kentucky			
Cooperative Fertilizer Service	1934	0.45	0.48
Louisville, Kentucky	3301	0.45	0.52
	3621	0.45	0.48
	3775	0.22	0.42
	3790	0.45	0.51
	3794	0.45	0.54
	4495	0.22	0.50
	4723	0.22	0.31
	6384	0.45	0.49
	6666	0.45	0.49
	6850	0.45	0.49
	7272	0.22	0.48
Cooperative Fertilizer Service	7222	0.45	0.54
Russellville, Kentucky	7592	0.45	0.55
Cooperative Fertilizer Service	4227	0.45	0.52
Winchester, Kentucky	4347	0.45	0.54
	4498	0.45	0.50
	5845	0.45	0.46
	5862	0.45	0.56
	5913	0.45	0.55
	6795	0.45	0.48
E'Town Fertilizer Company	1915	0.34	0.42
Cecelia, Kentucky			

(Continued)

TABLE 7 (Cont'd.) - Results of analyses of Boron in fertilizer reported in Tables 1 and 2. Analyses deficient are underlined.

COMPANY	Sample Number	Guarantee	Found
Federal Chemical Company	3249	0.56	0.20
Louisville, Kentucky	4290	0.57	0.45
	4708	0.57	0.52
	5155	0.57	0.49
	6478	0.57	0.51
	6618	0.57	0.56
	7328	0.57	0.28
Federal Chemical Company	4568	0.57	0.75
Nashville, Tennessee	7451	0.57	0.56
W. R. Grace & Co., Davison Chemical Div.	7069	0.34	0.43
Nashville, Tennessee	7265	0.57	0.29
	7266	0.57	0.65
W. R. Grace & Co., Davison Chemical Div.	3570	0.57	0.39
New Albany, Indiana	7130	0.50	0.65
Hutson Chemical Company	6248	0.45	0.76
Murray, Kentucky			
International Mineral & Chemical Corp.	3455	0.57	0.45
Somerset, Kentucky	3588	0.57	0.66
North American Fertilizer Company	2856	0.56	0.61
Louisville, Kentucky	3577	0.56	0.70
	6416	0.57	0.56
	7620	0.56	0.50
F. S. Royster Guano Co., Price Chem. Div.	3576	0.57	0.32
Louisville, Kentucky	3758	0.57	0.60
	4529	0.57	0.69
	5733	0.57	0.17
	6799	0.57	0.13
Tennessee Corporation	3600	0.57	0.70
New Albany, Indiana	3777	1.13	1.60
Virginia-Carolina Chemical Corporation	5657	0.57	0.53
Cincinnati, Ohio	6127	0.57	0.48
	6293	0.57	0.39
	7527	0.57	0.54
Virginia-Carolina Chemical Corporation	6832	0.34	0.34
Hopkinsville, Kentucky	7074	0.34	0.60
	7469	0.34	0.36
	7630	0.34	0.39
Virginia-Carolina Chemical Corporation	2898	0.56	0.67
Mt. Pleasant, Tennessee	7627	0.56	0.48

TABLE 8 - Results of analyses of Insecticides contained in fertilizers shown in Table 1. Analyses deficient are underlined.

COMPANY	Sample Number	Insecticide	Guar.	Found
American Agricultural Chemical Company	2931	Aldrin	0.15	0.11
Cincinnati, Ohio	4377	Aldrin	0.15	0.26
	5405	Aldrin	0.40	0.25
	5764	Aldrin	0.15	0.02
American Agricultural Chemical Company	1975	Aldrin	0.30	0.26
London, Kentucky	2907	Aldrin	0.30	0.27
	3269	Aldrin	0.15	0.22
	3275	Aldrin	0.30	0.31
	3430	Aldrin	0.30	0.21
	3431	Aldrin	0.15	0.22
	3432	Aldrin	0.15	0.24
	3492	Aldrin	0.30	0.14
	3538	Aldrin	0.30	0.28
	3542	Aldrin	0.30	0.24
	4195	Aldrin	0.15	0.13
	4218	Aldrin	0.30	0.28
	4376	Aldrin	0.30	0.37
	5326	Aldrin	0.30	0.21
	6051	Aldrin	0.30	0.41
	6159	Aldrin	0.30	0.32
	6445	Aldrin	0.15	0.18
	7512	Aldrin	0.15	0.17
Armour Agricultural Chemical Company	5201	Dieldrin	0.18	0.19
Atlanta, Georgia	7043	Aldrin	0.15	0.20
Armour Agricultural Chemical Company	2910	Dieldrin	0.18	0.27
Cincinnati, Ohio	3342	Aldrin	0.15	0.48
	4117	Aldrin	0.15	0.13
	4357	Aldrin	0.15	0.18
Armour Agricultural Chemical Company	2990	Dieldrin	0.18	0.22
Jeffersonville, Indiana	4375	Aldrin	0.15	0.16
	5463	Aldrin	0.15	0.15
	6050	Dieldrin	0.18	0.20
	6498	Aldrin	0.15	0.18
	6786	Aldrin	0.15	0.13
Armour Agricultural Chemical Company	3396	Aldrin	0.14	0.07
Nashville, Tennessee	5885	Aldrin	0.25	0.10
	5886	Aldrin	0.50	0.53
Bluegrass Plant Foods, Inc.	4248	Aldrin	0.20	0.22
Cynthiana, Kentucky	6281	Aldrin	0.15	0.12
	6443	Aldrin	0.31	0.31
Bluegrass Plant Foods, Inc.	2863	Aldrin	0.31	0.27
Danville, Kentucky	2864	Aldrin	0.31	0.27
	2962	Aldrin	0.31	0.29
	2963	Aldrin	0.31	0.35

(Continued)

TABLE 8 (Cont'd.) - Results of analyses of Insecticides contained in fertilizer shown in Table
Analyses deficient are underlined.

COMPANY	Sample Number	Insecticide	Guar.	Found
	5509	Aldrin	0.50	0.42
	6377	Aldrin	1.00	0.38
	7173	Aldrin	0.35	0.32
	7517	Aldrin	0.15	0.24
	7520	Aldrin	0.15	0.11
Burley Belt Plant Food Works, Inc. Lexington, Kentucky	5330	Aldrin	0.31	0.29
Commonwealth Fertilizer Company Russellville, Kentucky	7050	Aldrin	0.50	0.42
	7426	Aldrin	0.30	0.25
Cooperative Fertilizer Service Louisville, Kentucky	2886	Aldrin	0.31	0.34
	2894	Aldrin	0.31	0.35
	3213	Aldrin	0.31	0.34
	3260	Aldrin	0.15	0.17
	4296	Aldrin	0.31	0.32
	4307	Aldrin	0.15	0.15
	5188	Aldrin	0.31	0.33
	5399	Aldrin	0.15	0.16
	5400	Aldrin	0.50	0.40
	5544	Aldrin	0.15	0.16
	6053	Aldrin	0.15	0.15
	6444	Aldrin	0.15	0.13
	6484	Aldrin	0.50	0.44
Farmers Fertilizer Company Smiths Grove, Kentucky	7599	Aldrin	0.17	0.08
	7606	Aldrin	0.12	0.10
Federal Chemical Company Humboldt, Tennessee	5790	Aldrin	0.15	0.10
	6545	Aldrin	0.50	0.31
Federal Chemical Company Louisville, Kentucky	2000	Aldrin	0.18	0.20
	3248	Aldrin	0.18	0.16
	3622	Aldrin	0.50	0.39
	4274	Aldrin	0.15	0.09
	4283	Aldrin	0.15	0.13
	4288	Aldrin	0.15	0.12
	5146	Aldrin	0.18	0.14
	5147	Aldrin	0.15	0.15
	5240	Aldrin	0.15	0.19
	5595	Aldrin	0.15	0.11
	6079	Aldrin	0.50	0.39
	6255	Aldrin	0.15	0.07
	6399	Aldrin	0.15	0.08
	6442	Aldrin	0.15	0.20
	6450	Aldrin	0.50	0.24
	6480	Aldrin	0.15	0.11
W. R. Grace & Co., Davison Chemical Div. Nashville, Tennessee	4621	Aldrin	0.50	0.34
	5791	Aldrin	0.50	0.36

(Continued)

TABLE 8 (Cont'd.) - Results of analyses of Insecticides contained in fertilizer shown in Table 1. Analyses deficient are underlined.

COMPANY	Sample Number	Insecticide	Guar.	Found
W. R. Grace & Co., Davison Chemical Div. New Albany, Indiana	6106	Aldrin	0.15	0.15
Gro-Green Chemical Company Shelbyville, Kentucky	1980	Aldrin	0.31	0.26
	6199	Aldrin	0.15	0.19
	6346	Aldrin	0.31	0.28
Hutson Chemical Company Murray, Kentucky	6213	Aldrin	1.00	1.10
International Mineral & Chemical Corp. Cincinnati, Ohio	4392	Aldrin	0.15	0.13
International Mineral & Chemical Corp. Somerset, Kentucky	3615	Aldrin	0.33	0.24
Kentucky Fertilizer Works, Inc. Winchester, Kentucky	5338	Aldrin	0.31	0.31
	5351	Aldrin	0.31	0.35
	5359	Aldrin	0.15	0.14
	5688	Aldrin	0.15	None
	5782	Aldrin	0.16	0.14
North American Fertilizer Company Louisville, Kentucky	6411	Aldrin	0.15	0.16
	6412	Aldrin	0.15	0.11
Ohio Valley Fertilizer Company Maysville, Kentucky	2915	Aldrin	0.31	0.28
	3311	Aldrin	0.31	0.28
	4212	Aldrin	0.31	0.26
	4397	Aldrin	0.15	0.08
	4398	Aldrin	0.15	0.19
	4399	Aldrin	0.15	0.12
	4400	Aldrin	0.15	0.13
	4401	Aldrin	0.15	0.13
F. S. Royster Guano Co., Price Chemical Div. Louisville, Kentucky	3255	Aldrin	0.31	0.19
	3402	Aldrin	0.31	0.19
	4352	Aldrin	0.31	0.29
	5165	Aldrin	0.31	0.15
	7164	Aldrin	0.31	0.33
Tennessee Corporation New Albany, Indiana	3599	Aldrin	0.33	0.17
Virginia-Carolina Chemical Corp. Cincinnati, Ohio	3551	Aldrin	0.31	0.23
	5661	Aldrin	0.15	0.14
	5664	Aldrin	0.15	0.08
	7168	Aldrin	0.31	0.30
Virginia-Carolina Chemical Corp. Hopkinsville, Kentucky	2905	Aldrin	0.15	0.15