

**F E R T I L I Z E R**  
**A N N U A L     R E P O R T**

**JANUARY 1, 2023**

**TO**

**DECEMBER 31, 2023**



South Dakota Department of Agriculture & Natural Resources  
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# SECRETARY OF AGRICULTURE & NATURAL RESOURCES

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## FERTILIZER PROGRAM

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## 2023 COMMERCIAL FERTILIZER ANNUAL REPORT

The South Dakota Department of Agriculture and Natural Resources Inspection, Compliance, and Remediation Program under the Authority of SDCL 38-14 provides for sampling and analysis of fertilizer ingredients and fertilizer products sold in South Dakota. Analyses of all products distributed under the law are in this report.

State Inspectors randomly sample fertilizer products throughout South Dakota. The following summary of samples was analyzed, and results provided by the Analytical Services Laboratory at South Dakota Agriculture Laboratories located in Brookings, South Dakota.

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Performed By:

Collected By:

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## 2023 Fertilizer Manufacturer Sample Totals

Manufacturer:

Manufacturer	Chicago			IL		
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
ADM Fertilizer-Chicago, IL	3.00	0.00	0.00	1.00	4	1
Manufacturer	Marion			SD		
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
ADM Fertilizer-Marion	23.00	0.00	0.00	3.00	26	12
Manufacturer	Minneapolis			MN		
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
ADM Fertilizer-Minneapolis-4th Ave	28.00	1.00	0.00	4.00	33	16
Manufacturer	Minneapolis			MN		
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
ADM Fertilizer-Minneapolis-S 8th St	17.00	0.00	0.00	3.00	20	11
Manufacturer	Hitchcock			SD		
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
ADM Tulare Fertilizer--Hitchcock	14.00	1.00	0.00	3.00	18	7
Manufacturer	Hopewell			VA		
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
AdvanSix- Hopewell, VA	8.00	0.00	0.00	1.00	9	4
Manufacturer	Sioux City			IA		
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
AdvanSix-Sioux City, IA	4.00	2.00	0.00	0.00	6	3
Manufacturer	Calgary			Alberta		

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	2.00	0.00	0.00	0.00	2	1
<b>Agrium-Loveland, CO</b>	<b>Loveland</b>		<b>CO</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	11.00	0.00	0.00	3.00	14	4
<b>Agrium-Sioux City, IA</b>	<b>Sioux City</b>		<b>IA</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	3.00	0.00	0.00	1.00	4	1
<b>AgroLiquid</b>	<b>St. Johns</b>		<b>MI</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	3.00	3.00	0.00	1.00	7	1
<b>Agtegra Bath Fertilizer</b>	<b>Aberdeen</b>		<b>SD</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	29.00	5.00	0.00	7.00	41	9
<b>Agtegra Ipswitch-Hwy 12</b>	<b>Ipswitch</b>		<b>SD</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	23.00	2.00	0.00	5.00	30	10
<b>Agtegra-Kennebec</b>	<b>Kennebec</b>		<b>SD</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	3.00	0.00	0.00	0.00	3	1
<b>Agtegra-McLaughlin</b>	<b>McLaughlin</b>		<b>SD</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	14.00	0.00	0.00	3.00	17	8
<b>Agtegra-Wolsey</b>	<b>Wolsey</b>		<b>SD</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	12.00	0.00	0.00	2.00	14	3
<b>American Plant Food Corp</b>	<b>Galena Park</b>		<b>TX</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	2.00	0.00	0.00	0.00	2	1
<b>AMP-Advanced Micro products</b>	<b>Reese</b>		<b>WI</b>			

Manufacturer:

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
4.00	0.00	0.00	0.00	4	1

**Back to the Roots, Inc**

**Oakland CA**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
5.00	0.00	0.00	1.00	6	1

**Big Soo Terminal**

**Sioux City IA**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
5.00	0.00	0.00	1.00	6	2

**Bonide Products, Inc.**

**Oriskany NY**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
8.00	0.00	0.00	2.00	10	2

**Calcium Products-Ft. Dodge, IA**

**Ft. Dodge IA**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
2.00	0.00	0.00	0.00	2	1

**Central Farmers Coop-Marion**

**Marion SD**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
4.00	0.00	0.00	1.00	5	2

**Central Farmers Coop-Scotland**

**Scotland SD**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
4.00	0.00	0.00	1.00	5	2

**Central Garden & Pet-Atlanta**

**Atlanta GA**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
7.00	0.00	0.00	1.00	8	1

**CF Industries-Deerfield**

**Deerfield IL**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
2.00	0.00	0.00	0.00	2	2

**CF Industries-Sergeant Bluff**

**Sergeant Bluff IA**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
38.00	1.00	0.00	0.00	39	39

**CHS GMO Plant**

**Grand Meadow MN**

Manufacturer:

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
3.00	0.00	0.00	1.00	4	1

**CHS Northern Plains-Selby Selby SD**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
26.00	1.00	0.00	4.00	31	11

**CHS-Alton Alton IA**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
6.00	0.00	0.00	1.00	7	3

**CHS-Corsica Corsica SD**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
3.00	0.00	0.00	0.00	3	2

**CHS-Fairfax Fairfax SD**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
4.00	0.00	0.00	2.00	6	2

**CHS-Inver Grove Heights Inver Grove Heights MN**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
3.00	0.00	0.00	0.00	3	3

**CHS-Mitchell-Elevator Rd Mitchell SD**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
20.00	2.00	0.00	4.00	26	6

**CHS-St. Paul St. Paul MN**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
36.00	0.00	0.00	8.00	44	12

**CHS-Watertown-20th Ave Watertown SD**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
36.00	0.00	0.00	5.00	41	19

**CHS-Winona Winona MN**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
3.00	0.00	0.00	1.00	4	1

**CHS-Worthing Worthing SD**

Manufacturer:

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
2.00	0.00	0.00	0.00	2	1

Cone Ag-Pierre	Pierre	SD			
<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
8.00	1.00	0.00	3.00	12	3

Dakota Gasification Company	Beulah	ND			
<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
2.00	0.00	0.00	0.00	2	1

Dakota Mill & Grain-Wall	Wall	SD			
<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
3.00	0.00	0.00	2.00	5	4

Dr. Earth	Winters	CA			
<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
20.00	0.00	0.00	5.00	25	5

Easy Gardener Inc	Waco	TX			
<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
36.00	2.00	0.00	8.00	46	9

Eau Claire Coop	EauClaire	WI			
<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
21.00	0.00	0.00	5.00	26	5

EC Grow	Eau Claire	WI			
<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
8.00	0.00	0.00	2.00	10	2

Espoma Company	Millville	NJ			
<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
3.00	0.00	0.00	0.00	3	1

Farmers Ag Center-Madison	Madison	SD			
<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
3.00	0.00	0.00	1.00	4	1

Farmers Alliance-Mitchell	Mitchell	SD
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Manufacturer:

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
7.00	1.00	0.00	1.00	9	3

**Fertilome** **Bonham** **TX**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
15.00	1.00	0.00	4.00	20	4

**Fremar LLC-Marion** **Marion** **SD**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
10.00	1.00	0.00	2.00	13	7

**Gavilon-Sioux City** **Sioux City** **IA**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
1.00	0.00	0.00	0.00	1	1

**Gavilon-St. Paul** **St. Paul** **MN**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
1.00	2.00	0.00	1.00	4	1

**GroTec Inc.** **Madison** **GA**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
55.00	4.00	0.00	8.00	67	8

**Howard Farmers Coop** **Howard** **SD**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
3.00	1.00	0.00	1.00	5	1

**IMC Outdoor Living** **Des Peres** **MO**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
8.00	1.00	0.00	1.00	10	3

**Interoceanic Corp-White Plains** **White Plains** **NY**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
3.00	1.00	0.00	0.00	4	2

**Itafos Conda-Soda Springs** **Soda Springs** **ID**

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
7.00	0.00	0.00	2.00	9	2

**J.R. Peters Inc.** **Allentown** **PA**

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	55.00	1.00	0.00	5.00	61	5
<b>Jirdon</b>	<b>Morrill</b>		<b>NE</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	6.00	0.00	0.00	1.00	7	1
<b>JR Simplot Company-Rock Springs</b>	<b>Rock Springs</b>		<b>WY</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	3.00	0.00	0.00	1.00	4	1
<b>K &amp; S Potash Canada</b>	<b>Saskatchewan</b>		<b>Canada</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	2.00	0.00	0.00	0.00	2	2
<b>Knox Fertilizer Company, Inc.</b>	<b>Knox</b>		<b>IN</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	85.00	1.00	0.00	11.00	97	11
<b>Koch Fertilizer LLC-Wichita</b>	<b>Wichita</b>		<b>KS</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	8.00	0.00	0.00	1.00	9	5
<b>Koch Fertilizer, LLC</b>	<b>Wichita</b>		<b>KS</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	1.00	0.00	0.00	0.00	1	1
<b>Koch Fertilizer, LLC-Sgt Bluff</b>	<b>Sgt Bluff</b>		<b>IA</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	8.00	0.00	0.00	2.00	10	4
<b>Koch Fertilizer-Enid</b>	<b>Enid</b>		<b>OK</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	1.00	0.00	0.00	0.00	1	1
<b>Kugler Company-McCook NE</b>	<b>McCook</b>		<b>NE</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	4.00	0.00	0.00	1.00	5	1
<b>Kugler-RCity</b>	<b>Rapid City</b>		<b>SD</b>			



**Manufacturer:**

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	3.00	0.00	0.00	0.00	3	3
<b>Mosaic-Browntown</b>	<b>Browntown</b>		<b>MN</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	23.00	3.00	0.00	5.00	31	10
<b>Mosaic-Donaldsonville</b>	<b>Donaldsonville</b>		<b>LA</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	5.00	0.00	0.00	1.00	6	1
<b>Mosaic-Esterhazy</b>	<b>Esterhazy</b>		<b>Saskatchewan</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	7.00	0.00	0.00	0.00	7	7
<b>Mosaic-Lithia</b>	<b>Lithia</b>		<b>FL</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	25.00	0.00	0.00	6.00	31	9
<b>Mosaic-Rosemount</b>	<b>Rosemount</b>		<b>MN</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	24.00	0.00	0.00	6.00	30	6
<b>Mosaic--Templeton IA</b>	<b>Templeton</b>		<b>IA</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	0.00	0.00	1.00	0.00	1	1
<b>N-7 LLC</b>	<b>Sioux City</b>		<b>IA</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	4.00	0.00	0.00	0.00	4	2
<b>Nachurs-Garretson</b>	<b>Garretson</b>		<b>SD</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	4.00	0.00	0.00	1.00	5	1
<b>NeuAg LLC</b>	<b>Clute</b>		<b>TX</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	6.00	0.00	0.00	0.00	6	3
<b>New Vision Coop</b>	<b>Worthington</b>		<b>MN</b>			

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	1.00	0.00	0.00	0.00	1	1
<b>Nutrien Ag-Loveland</b>	<b>Loveland</b>		<b>Colorado</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	25.00	1.00	0.00	6.00	32	12
<b>Nutrien Ag-Parkston</b>	<b>Parkston</b>		<b>SD</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	4.00	1.00	0.00	0.00	5	4
<b>Nutrien-Saskatoon</b>	<b>Saskatoon</b>		<b>SK Canada</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	1.00	0.00	0.00	0.00	1	1
<b>PCS Sales Inc--Deerfield</b>	<b>Deerfield</b>		<b>IL</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	3.00	0.00	0.00	0.00	3	3
<b>Pearl Valley Organix, Inc.</b>	<b>Pearl City</b>		<b>IL</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	4.00	0.00	0.00	1.00	5	1
<b>Potash Corp of Saskatchewan--Saskatoon</b>	<b>Saskatoon</b>		<b>Canada</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	3.00	0.00	0.00	0.00	3	3
<b>Potash Corp-SCity</b>	<b>Sioux City</b>		<b>IA</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	2.00	1.00	0.00	0.00	3	3
<b>Scotts Miracle-Gro Products</b>	<b>Marysville</b>		<b>OH</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	140.00	1.00	0.00	15.00	156	15
<b>SGS Great Plains</b>	<b>Loveland</b>		<b>CO</b>			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	3.00	0.00	0.00	1.00	4	1
<b>Simplot--Sioux City, IA</b>	<b>Sioux City</b>		<b>IA</b>			





Performed By:

Collected By:



DEPARTMENT of AGRICULTURE  
and NATURAL RESOURCES  
JOE FOSS BUILDING  
523 E CAPITOL AVE  
PIERRE SD 57501-3182  
danr.sd.gov

# 2023 Fertilizer Individual Samples

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Manufacturer:</b>	ADM Fertilizer-Chicago, IL				
<b>Product:</b>	MAP				
<b>Sample No:</b>	23N007429				
	Commercial Value	137	138.00		
	Nitrogen, Total	11	10.67 %		Pass
	Overall Index Value		100.73 %		Pass
	Phosphate, Available as P2O5	52	52.99 %		Pass
<b>Manufacturer:</b>	ADM Fertilizer-Marion				
<b>Product:</b>	AMS				
<b>Sample No:</b>	23N001639				
	Nitrogen, Total	21	20.52 %		Pass
	Sulfur	24	24.89 %		Pass
<b>Sample No:</b>	23N001640				
	Nitrogen, Total	21	20.52 %		Pass
	Sulfur	24	24.28 %		Pass
<b>Sample No:</b>	23N002576				
	Nitrogen, Total	21	21.68 %		Pass
	Sulfur	24	24.52 %		Pass
<b>Sample No:</b>	23N008959				
	Nitrogen, Total	21	21.22 %		Pass
	Sulfur	24	24.65 %		Pass
<b>Product:</b>	AMS 21-0-0-24S				
<b>Sample No:</b>	23N002115				
	Nitrogen, Total	21	20.93 %		Pass
	Sulfur	24	24.32 %		Pass
<b>Product:</b>	MAP				



		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Sample No:</b>	23N001643				
		Commercial Value	137	136.69	
		Nitrogen, Total	11	11.54 %	<b>Pass</b>
		Overall Index Value		99.78 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.04 %	<b>Pass</b>
<b>Sample No:</b>	23N002109				
		Commercial Value	137	138.21	
		Nitrogen, Total	11	11.68 %	<b>Pass</b>
		Overall Index Value		100.88 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.58 %	<b>Pass</b>
<b>Sample No:</b>	23N008960				
		Commercial Value	137	139.27	
		Nitrogen, Total	11	12.20 %	<b>Pass</b>
		Overall Index Value		101.66 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.33 %	<b>Pass</b>
<b>Product:</b>	Potash				
<b>Sample No:</b>	23N001641				
		Potash, Soluble as K2O	60	60.61 %	<b>Pass</b>
<b>Sample No:</b>	23N002114				
		Potash, Soluble as K2O	60	61.92 %	<b>Pass</b>
<b>Sample No:</b>	23N002574				
		Potash, Soluble as K2O	60	59.49 %	<b>Pass</b>
<b>Sample No:</b>	23N008755				
		Potash, Soluble as K2O	60	61.02 %	<b>Pass</b>
<b>Manufacturer:</b>	ADM Fertilizer-Minneapolis-4th				
<b>Product:</b>	11-52-0				
<b>Sample No:</b>	23N003766				
		Commercial Value	137	138.14	
		Nitrogen, Total	11	11.21 %	<b>Pass</b>
		Overall Index Value		100.83 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	52.25 %	<b>Pass</b>
<b>Product:</b>	46-0-0				
<b>Sample No:</b>	23N003784				
		Nitrogen, Total	46	46.87 %	<b>Pass</b>
<b>Product:</b>	AMS				
<b>Sample No:</b>	23N002337				

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
<b>Sample No:</b>	23N003794	Nitrogen, Total	21	21.34	%	Pass
		Sulfur	24	24.78	%	Pass
<b>Sample No:</b>	23N003795	Nitrogen, Total	21	22.10	%	Pass
		Sulfur	24	24.54	%	Pass
<b>Sample No:</b>	23N009662	Nitrogen, Total	21	22.22	%	Pass
		Sulfur	24	24.44	%	Pass
<b>Sample No:</b>	23N009671	Nitrogen, Total	21	20.78	%	Pass
		Sulfur	24	24.38	%	Pass
		Nitrogen, Total	21	21.49	%	Pass
		Sulfur	24	24.50	%	Pass
<b>Product: MAP</b>						
<b>Sample No:</b>	23N003184					
		Commercial Value	137	138.65		
		Nitrogen, Total	11	12.35	%	Pass
		Overall Index Value		101.21	%	Pass
<b>Sample No:</b>	23N009664	Phosphate, Available as P2O5	52	50.58	%	Deficient
<b>Sample No:</b>	23N009670	Commercial Value	137	135.55		
		Nitrogen, Total	11	10.94	%	Pass
		Overall Index Value		98.94	%	Pass
		Phosphate, Available as P2O5	52	51.36	%	Pass
<b>Sample No:</b>		Commercial Value	137	136.13		
		Nitrogen, Total	11	11.34	%	Pass
		Overall Index Value		99.36	%	Pass
		Phosphate, Available as P2O5	52	51.06	%	Pass
<b>Product: Potash</b>						
<b>Sample No:</b>	23N002334					
<b>Sample No:</b>	23N003181	Potash, Soluble (STPB) as K2O	60	58.74	%	Pass
<b>Sample No:</b>	23N003185	Potash, Soluble as K2O	60	59.69	%	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
<b>Sample No:</b>	23N003768	Potash, Soluble as K2O	60	58.51	%	<b>Pass</b>
<b>Sample No:</b>	23N004773	Potash, Soluble as K2O	60	59.90	%	<b>Pass</b>
<b>Sample No:</b>	23N009663	Potash, Soluble as K2O	60	61.11	%	<b>Pass</b>
		Potash, Soluble as K2O	60	58.43	%	<b>Pass</b>
<b>Manufacturer:</b>	<b>ADM Fertilizer-Minneapolis-S 8</b>					
<b>Product:</b>	46-0-0					
<b>Sample No:</b>	23N003787					
<b>Sample No:</b>	23N009262	Nitrogen, Total	46	46.56	%	<b>Pass</b>
		Nitrogen, Total	46	47.59	%	<b>Pass</b>
<b>Product:</b>	MAP					
<b>Sample No:</b>	23N002575					
		Commercial Value	137	140.81		
		Nitrogen, Total	11	12.47	%	<b>Pass</b>
		Overall Index Value		102.78	%	<b>Pass</b>
<b>Sample No:</b>	23N008757	Phosphate, Available as P2O5	52	51.70	%	<b>Pass</b>
		Commercial Value	137	138.68		
		Nitrogen, Total	11	12.02	%	<b>Pass</b>
		Overall Index Value		101.22	%	<b>Pass</b>
<b>Sample No:</b>	23N009265	Phosphate, Available as P2O5	52	51.31	%	<b>Pass</b>
		Commercial Value	137	139.09		
		Nitrogen, Total	11	11.93	%	<b>Pass</b>
		Overall Index Value		101.53	%	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.65	%	<b>Pass</b>
<b>Product:</b>	Potash					
<b>Sample No:</b>	23N007427					
<b>Sample No:</b>	23N009674	Potash, Soluble as K2O	60	62.33	%	<b>Pass</b>
		Potash, Soluble as K2O	60	58.88	%	<b>Pass</b>
<b>Product:</b>	Urea					
<b>Sample No:</b>	23N007428					

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Sample No:</b>	23N008957	Nitrogen, Total	46	47.87 %	<b>Pass</b>
<b>Sample No:</b>	23N009673	Nitrogen, Total	46	47.65 %	<b>Pass</b>
<b>Sample No:</b>		Nitrogen, Total	46	47.10 %	<b>Pass</b>
<b>Product:</b>	Urea 46-0-0				
<b>Sample No:</b>	23N002572				
		Nitrogen, Total	46	47.96 %	<b>Pass</b>
<b>Manufacturer:</b>	ADM Tulare Fertilizer--Hitchcoc				
<b>Product:</b>	AMS				
<b>Sample No:</b>	23N001851				
		Nitrogen, Total	21	21.22 %	<b>Pass</b>
		Sulfur	24	24.64 %	<b>Pass</b>
<b>Sample No:</b>	23N003176				
		Nitrogen, Total	21	22.02 %	<b>Pass</b>
		Sulfur	24	24.36 %	<b>Pass</b>
<b>Product:</b>	MAP				
<b>Sample No:</b>	23N002333				
		Commercial Value	137	138.08	
		Nitrogen, Total	11	12.30 %	<b>Pass</b>
		Overall Index Value		100.79 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	50.59 %	<b>Deficient</b>
<b>Sample No:</b>	23N003177				
		Commercial Value	137	141.30	
		Nitrogen, Total	11	12.17 %	<b>Pass</b>
		Overall Index Value		103.14 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	52.40 %	<b>Pass</b>
<b>Sample No:</b>	23N008689				
		Commercial Value	137	137.54	
		Nitrogen, Total	11	11.61 %	<b>Pass</b>
		Overall Index Value		100.39 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.36 %	<b>Pass</b>
<b>Product:</b>	Potash				
<b>Sample No:</b>	23N003173				
		Potash, Soluble as K2O	60	58.92 %	<b>Pass</b>
<b>Product:</b>	Urea				

Sample No:	Analyte	Claim	Found Unit	Disposition
23N003175	Nitrogen, Total	46	47.19 %	Pass
<b>Manufacturer: AdvanSix- Hopewell, VA</b>				
<b>Product: AMS</b>				
23N003638	Nitrogen, Total	21	21.83 %	Pass
	Sulfur	24	24.18 %	Pass
23N004732	Nitrogen, Total	21	22.22 %	Pass
	Sulfur	24	24.30 %	Pass
<b>Product: DAP 18-46-00</b>				
23N004736	Commercial Value	146	151.53	
	Nitrogen, Total	18	19.57 %	Pass
	Overall Index Value		103.79 %	Pass
	Phosphate, Available as P2O5	46	46.41 %	Pass
<b>Product: Potash</b>				
23N004735	Potash, Soluble as K2O	60	62.25 %	Pass
<b>Manufacturer: AdvanSix-Sioux City, IA</b>				
<b>Product: AMS</b>				
23N002566	Nitrogen, Total	21	21.70 %	Pass
	Sulfur	24	24.55 %	Pass
23N002741	Nitrogen, Total	21	20.87 %	Pass
	Sulfur	24	25.12 %	Pass
23N010036	Nitrogen, Total	21	19.44 %	Deficient
	Sulfur	24	21.96 %	Deficient
<b>Manufacturer: Agrium-Calgary</b>				
<b>Product: AMS</b>				
23N001240	Nitrogen, Total	20	21.12 %	Pass
	Sulfur	24	24.32 %	Pass
<b>Manufacturer: Agrium-Loveland, CO</b>				

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> AMS					
<b>Sample No:</b>	23N006149				
		Nitrogen, Total	20.5	20.59 %	<b>Pass</b>
		Sulfur	24.0	24.34 %	<b>Pass</b>
<b>Product:</b> MAP					
<b>Sample No:</b>	23N002728				
		Commercial Value	137	139.08	
		Nitrogen, Total	11	11.16 %	<b>Pass</b>
		Overall Index Value		101.52 %	<b>Pass</b>
<b>Sample No:</b>	23N007425	Phosphate, Available as P2O5	52	52.80 %	<b>Pass</b>
		Commercial Value	137	139.10	
		Nitrogen, Total	11	11.89 %	<b>Pass</b>
		Overall Index Value		101.54 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.72 %	<b>Pass</b>
<b>Product:</b> Monoammonium Phosphate MAP 1					
<b>Sample No:</b>	23N001879				
		Commercial Value	137	137.46	
		Nitrogen, Total	11	10.74 %	<b>Pass</b>
		Overall Index Value		100.34 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	52.63 %	<b>Pass</b>
<b>Manufacturer:</b> Agrium-Sioux City, IA					
<b>Product:</b> MAP					
<b>Sample No:</b>	23N001697				
		Commercial Value	137	135.28	
		Nitrogen, Total	11	11.03 %	<b>Pass</b>
		Overall Index Value		98.74 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.10 %	<b>Pass</b>
<b>Manufacturer:</b> AgroLiquid					
<b>Product:</b> Pro-Germinator liquid fertilizer (9-24)					
<b>Sample No:</b>	23N006804				
		Commercial Value	78	73.04	
		Iron	0.10	0.25 %	<b>Pass</b>
		Nitrogen, Total	9.00	8.83 %	<b>Pass</b>
		Overall Index Value		93.64 %	<b>Pass</b>
		Phosphate, Available as P2O5	24.00	22.34 %	<b>Deficient</b>

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
		Potash, Soluble	3.00	1.87 %	Deficient
		Potash, Soluble (STPB)	3	2.48 %	Deficient
<b>Manufacturer:</b>	<b>Agtegra Bath Fertilizer</b>				
<b>Product:</b>	36 Nitrogen, 10 phosphate, .25 Zinc				
<b>Sample No:</b>	23N008782				
		Commercial Value	128	134.92	
		Nitrogen, Total	36	37.82 %	Pass
		Overall Index Value		105.41 %	Pass
		Phosphate, Available as P2O5	10	10.73 %	Pass
		Sulfur	3	3.44 %	Pass
		Zinc, Acid Soluble	.25	0.23 %	Pass
<b>Product:</b>	46-0-0				
<b>Sample No:</b>	23N003256				
		Nitrogen, Total	46	47.21 %	Pass
<b>Product:</b>	MAP				
<b>Sample No:</b>	23N003255				
		Commercial Value	137	134.95	
		Nitrogen, Total	11	10.67 %	Pass
		Overall Index Value		98.50 %	Pass
		Phosphate, Available as P2O5	52	51.47 %	Pass
<b>Product:</b>	nitrogen 12, phosphate 21, potash 1				
<b>Sample No:</b>	23N008787				
		Commercial Value	88	99.95	
		Nitrogen, Total	12	8.70 %	Deficient
		Overall Index Value		113.59 %	Pass
		Phosphate, Available as P2O5	21	28.93 %	Pass
		Potash, Soluble as K2O	10	16.01 %	Pass
		Sulfur	11	7.30 %	Deficient
		Zinc, Acid Soluble	.54	0.64 %	Pass
<b>Product:</b>	Nitrogen 29, phosphate 21, Sulfur 2				
<b>Sample No:</b>	23N008783				
		Commercial Value	129	130.99	
		Nitrogen, Total	29	43.56 %	Pass
		Overall Index Value		101.54 %	Pass
		Phosphate, Available as P2O5	21	0.16 %	Deficient
		Sulfur	2	4.15 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> nitrogen 30, phosphate 12, potash 5				
<b>Sample No:</b> 23N008788				
	Boron, Acid Soluble	.16	0.37 %	<b>Pass</b>
	Commercial Value	119	98.82	
	Nitrogen, Total	30	8.97 %	<b>Deficient</b>
	Overall Index Value		83.05 %	<b>Deficient</b>
	Phosphate, Available as P2O5	12	29.30 %	<b>Pass</b>
	Potash, Soluble as K2O	5	13.33 %	<b>Pass</b>
	Sulfur	3	7.51 %	<b>Pass</b>
	Zinc, Acid Soluble	.30	0.65 %	<b>Pass</b>
<b>Product:</b> Nitrogen 35, phosphate 15,				
<b>Sample No:</b> 23N008784				
	Commercial Value	135	140.20	
	Nitrogen, Total	35	34.37 %	<b>Pass</b>
	Overall Index Value		103.86 %	<b>Pass</b>
	Phosphate, Available as P2O5	15	18.54 %	<b>Pass</b>
<b>Product:</b> Nitrogen 7, phosphate 34, potash 15				
<b>Sample No:</b> 23N008785				
	Commercial Value	108	106.94	
	Nitrogen, Total	7	6.66 %	<b>Pass</b>
	Overall Index Value		99.02 %	<b>Pass</b>
	Phosphate, Available as P2O5	34	33.24 %	<b>Pass</b>
	Potash, Soluble as K2O	19	20.47 %	<b>Pass</b>
<b>Product:</b> Urea				
<b>Sample No:</b> 23N001850				
	Nitrogen, Total	46	46.83 %	<b>Pass</b>
<b>Manufacturer:</b> Agtegra Ipswitch-Hwy 12				
<b>Product:</b> 0-0-60				
<b>Sample No:</b> 23N009724				
	Potash, Soluble as K2O	60	61.96 %	<b>Pass</b>
<b>Product:</b> 11-52-0				
<b>Sample No:</b> 23N003248				
	Commercial Value	137	137.28	
	Nitrogen, Total	11	11.73 %	<b>Pass</b>
	Overall Index Value		100.21 %	<b>Pass</b>
	Phosphate, Available as P2O5	52	51.05 %	<b>Pass</b>



		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Sample No:</b>	23N009718				
		Commercial Value	137	138.00	
		Nitrogen, Total	11	11.25 %	<b>Pass</b>
		Overall Index Value		100.73 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	52.12 %	<b>Pass</b>
<b>Sample No:</b>	23N009720				
		Commercial Value	137	137.38	
		Nitrogen, Total	11	11.34 %	<b>Pass</b>
		Overall Index Value		100.27 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.68 %	<b>Pass</b>
<b>Product:</b>	46-0-0				
<b>Sample No:</b>	23N003247				
		Nitrogen, Total	46	47.26 %	<b>Pass</b>
<b>Sample No:</b>	23N009719				
		Nitrogen, Total	46	41.05 %	<b>Deficient</b>
<b>Sample No:</b>	23N009723				
		Nitrogen, Total	46	47.58 %	<b>Pass</b>
<b>Product:</b>	AMS				
<b>Sample No:</b>	23N009722				
		Nitrogen, Total	20.5	21.57 %	<b>Pass</b>
		Sulfur	24	24.59 %	<b>Pass</b>
<b>Product:</b>	MESZ				
<b>Sample No:</b>	23N009717				
		Commercial Value	116	117.33	
		Nitrogen, Total	12	12.13 %	<b>Pass</b>
		Overall Index Value		101.15 %	<b>Pass</b>
		Phosphate, Available as P2O5	40	40.47 %	<b>Pass</b>
		Sulfur	10	9.91 %	<b>Pass</b>
		Zinc, Acid Soluble	1	0.84 %	<b>Deficient</b>
<b>Sample No:</b>	23N009721				
		Commercial Value	116	114.58	
		Nitrogen, Total	12	11.91 %	<b>Pass</b>
		Overall Index Value		98.78 %	<b>Pass</b>
		Phosphate, Available as P2O5	40	39.43 %	<b>Pass</b>
		Sulfur	10	9.69 %	<b>Pass</b>
		Zinc, Acid Soluble	1	0.90 %	<b>Pass</b>

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Manufacturer: Agtegra-Kennebec</b>				
<b>Product:</b> Well water from the West well in the				
<b>Sample No:</b> 23N008319				
	Nitrogen, Total	0	1.81 %	Pass
	Phosphate, Available as P2O5	0	0.00 %	Pass
	Potash, Soluble	0	0.00 %	Pass
<b>Manufacturer: Agtegra-McLaughlin</b>				
<b>Product:</b> 00-00-60 Potash				
<b>Sample No:</b> 23N001874				
	Potash, Soluble as K2O	60	60.31 %	Pass
<b>Product:</b> 10-34-0 (Liquid Fertilizer)				
<b>Sample No:</b> 23N003187				
	Commercial Value	98	103.50	
	Nitrogen, Total	10	11.45 %	Pass
	Overall Index Value		105.61 %	Pass
	Phosphate, Available as P2O5	34	34.58 %	Pass
<b>Product:</b> 11-52-0 Bulk Fertilizer				
<b>Sample No:</b> 23N008274				
	Commercial Value	137	136.44	
	Nitrogen, Total	11	10.71 %	Pass
	Overall Index Value		99.59 %	Pass
	Phosphate, Available as P2O5	52	52.16 %	Pass
<b>Product:</b> 11-52-00 MAP				
<b>Sample No:</b> 23N001873				
	Commercial Value	137	137.59	
	Nitrogen, Total	11	10.69 %	Pass
	Overall Index Value		100.43 %	Pass
	Phosphate, Available as P2O5	52	52.76 %	Pass
<b>Product:</b> 28-0-0 (Liquid Fertilizer)				
<b>Sample No:</b> 23N003188				
	Nitrogen, Total	28	29.02 %	Pass
<b>Product:</b> 28-0-0 Liquid Fertilizer				
<b>Sample No:</b> 23N008273				
	Nitrogen, Total	28	27.46 %	Pass
<b>Product:</b> 46-0-0 Urea Bulk Fertilizer				
<b>Sample No:</b> 23N008275				

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> 46-00-00 Urea	Nitrogen, Total	46	46.81 %	Pass
<b>Sample No:</b> 23N001876				
	Nitrogen, Total	46	48.08 %	Pass
<b>Manufacturer:</b> Agtegra-Wolsey				
<b>Product:</b> Custom Blend				
<b>Sample No:</b> 23N008690				
	Commercial Value	104	103.24	
	Nitrogen, Total	9	8.76 %	Pass
	Overall Index Value		99.26 %	Pass
	Phosphate, Available as P2O5	32	31.42 %	Pass
	Potash, Soluble as K2O	13	14.11 %	Pass
	Sulfur	8	7.74 %	Pass
	Zinc, Acid Soluble	0.79	0.75 %	Pass
<b>Product:</b> MESZ				
<b>Sample No:</b> 23N003174				
	Commercial Value	116	115.94	
	Nitrogen, Total	12	12.43 %	Pass
	Overall Index Value		99.95 %	Pass
	Phosphate, Available as P2O5	40	39.33 %	Pass
	Sulfur	10	9.60 %	Pass
	Zinc, Acid Soluble	1	1.02 %	Pass
<b>Product:</b> Potash				
<b>Sample No:</b> 23N001852				
	Potash, Soluble as K2O	60	58.49 %	Pass
<b>Manufacturer:</b> American Plant Food Corp				
<b>Product:</b> AMS				
<b>Sample No:</b> 23N008314				
	Nitrogen, Total	21	20.45 %	Pass
	Sulfur	24	24.37 %	Pass
<b>Manufacturer:</b> AMP-Advanced Micro products				
<b>Product:</b> Zink				
<b>Sample No:</b> 23N002329				
	Boron, Acid Soluble	1	1.44 %	Pass
	Manganese, Acid Soluble	4	7.05 %	Pass
	Sulfur	7	10.98 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Manufacturer: Back to the Roots, Inc</b>				
<b>Product: Back to the Roots Organic Plant Fo</b>				
<b>Sample No: 23N004654</b>				
	Zinc, Acid Soluble	20	19.30 %	Pass
	Calcium	7.0	7.27 %	Pass
	Commercial Value	15	19.50	
	Nitrogen, Total	2.0	3.07 %	Pass
	Overall Index Value		130.00 %	Pass
	Phosphate, Available as P2O5	3.0	2.87 %	Pass
	Potash, Soluble as K2O	3.0	4.58 %	Pass
<b>Manufacturer: Big Soo Terminal</b>				
<b>Product: AMS</b>				
<b>Sample No: 23N002108</b>				
	Nitrogen, Total	21	20.98 %	Pass
	Sulfur	24	24.36 %	Pass
<b>Product: MAP</b>				
<b>Sample No: 23N002565</b>				
	Commercial Value	137	136.93	
	Nitrogen, Total	11	11.15 %	Pass
	Overall Index Value		99.95 %	Pass
	Phosphate, Available as P2O5	52	51.74 %	Pass
<b>Manufacturer: Bonide Products, Inc.</b>				
<b>Product: Liquid African Violet Plant Food (7-1</b>				
<b>Sample No: 23N006536</b>				
	Commercial Value	48	48.39	
	Nitrogen, Total	7	7.00 %	Pass
	Overall Index Value		100.81 %	Pass
	Phosphate, Available as P2O5	10	9.92 %	Pass
	Potash, Soluble	7	7.56 %	Pass
<b>Product: Liquid Plant Food</b>				
<b>Sample No: 23N004270</b>				
	Commercial Value	60	62.29	
	Nitrogen, Total	10	10.69 %	Pass
	Overall Index Value		103.82 %	Pass
	Phosphate, Available as P2O5	10	10.02 %	Pass
	Potash, Soluble	10	10.19 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
<b>Manufacturer: Calcium Products-Ft. Dodge, IA</b>					
<b>Product: Calcium Sulfate</b>					
<b>Sample No: 23N006147</b>					
	Calcium	21	20.94	%	<b>Pass</b>
	Sulfur	17	17.23	%	<b>Pass</b>
<b>Manufacturer: Central Farmers Coop-Marion</b>					
<b>Product: MAP</b>					
<b>Sample No: 23N007070</b>					
	Commercial Value	137	137.59		
	Nitrogen, Total	11	11.80	%	<b>Pass</b>
	Overall Index Value		100.43	%	<b>Pass</b>
	Phosphate, Available as P2O5	52	51.09	%	<b>Pass</b>
<b>Product: Urea</b>					
<b>Sample No: 23N008955</b>					
	Nitrogen, Total	46	48.86	%	<b>Pass</b>
<b>Manufacturer: Central Farmers Coop-Scotland</b>					
<b>Product: MAP</b>					
<b>Sample No: 23N008954</b>					
	Commercial Value	137	138.69		
	Nitrogen, Total	11	11.95	%	<b>Pass</b>
	Overall Index Value		101.23	%	<b>Pass</b>
	Phosphate, Available as P2O5	52	51.42	%	<b>Pass</b>
<b>Product: Potash</b>					
<b>Sample No: 23N008956</b>					
	Potash, Soluble as K2O	60	58.94	%	<b>Pass</b>
<b>Manufacturer: Central Garden &amp; Pet-Atlanta</b>					
<b>Product: Pennington Ultragreen Plant Food (</b>					
<b>Sample No: 23N007224</b>					
	Calcium	1.00	2.96	%	<b>Pass</b>
	Commercial Value	75	74.11		
	Iron	2.00	2.68	%	<b>Pass</b>
	Nitrogen, Total	15.00	14.92	%	<b>Pass</b>
	Overall Index Value		98.81	%	<b>Pass</b>
	Phosphate, Available as P2O5	10.00	9.66	%	<b>Pass</b>
	Potash, Soluble as K2O	10.00	10.01	%	<b>Pass</b>
	Sulfur	1.00	11.18	%	<b>Pass</b>

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Manufacturer:</b>	<b>CF Industries-Deerfield</b>				
<b>Product:</b>	28-0-0 Liquid Fertilizer				
<b>Sample No:</b>	23N003617				
		Nitrogen, Total	28	27.72 %	<b>Pass</b>
<b>Product:</b>	Urea 46-0-0				
<b>Sample No:</b>	23N008385				
		Nitrogen, Total	46	47.75 %	<b>Pass</b>
<b>Manufacturer:</b>	<b>CF Industries-Sergeant Bluff</b>				
<b>Product:</b>	46-0-0				
<b>Sample No:</b>	23N009266				
		Nitrogen, Total	46	48.08 %	<b>Pass</b>
<b>Sample No:</b>	23N009267				
		Nitrogen, Total	46	47.44 %	<b>Pass</b>
<b>Product:</b>	46-0-0 Dry Fertilizer				
<b>Sample No:</b>	23N002967				
		Nitrogen, Total	46	47.25 %	<b>Pass</b>
<b>Product:</b>	46-0-0 Urea				
<b>Sample No:</b>	23N003615				
		Nitrogen, Total	46	46.59 %	<b>Pass</b>
<b>Sample No:</b>	23N003757				
		Nitrogen, Total	46	46.35 %	<b>Pass</b>
<b>Product:</b>	UAN 32-0-0				
<b>Sample No:</b>	23N002119				
		Nitrogen, Total	32	32.20 %	<b>Pass</b>
<b>Sample No:</b>	23N007120				
		Nitrogen, Total	32	32.34 %	<b>Pass</b>
<b>Product:</b>	Urea				
<b>Sample No:</b>	23N001642				
		Nitrogen, Total	46	45.54 %	<b>Pass</b>
<b>Sample No:</b>	23N001882				
		Nitrogen, Total	46	48.75 %	<b>Pass</b>
<b>Sample No:</b>	23N002107				
		Nitrogen, Total	46	46.46 %	<b>Pass</b>
<b>Sample No:</b>	23N002331				
		Nitrogen, Total	46	47.53 %	<b>Pass</b>
<b>Sample No:</b>	23N002335				

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Sample No:	23N002564	Nitrogen, Total	46	47.02 %	Pass
Sample No:	23N002725	Nitrogen, Total	46	47.43 %	Pass
Sample No:	23N003179	Nitrogen, Total	46	48.23 %	Pass
Sample No:	23N003318	Nitrogen, Total	46	47.28 %	Pass
Sample No:	23N003321	Nitrogen, Total	46	47.19 %	Pass
Sample No:	23N003639	Nitrogen, Total	46	47.15 %	Pass
Sample No:	23N003754	Nitrogen, Total	46	46.75 %	Pass
Sample No:	23N004737	Nitrogen, Total	46	47.03 %	Pass
Sample No:	23N005102	Nitrogen, Total	46	50.27 %	Pass
Sample No:	23N005943	Nitrogen, Total	46	47.22 %	Pass
Sample No:	23N007199	Nitrogen, Total	46	48.75 %	Pass
Sample No:	23N007424	Nitrogen, Total	46	47.34 %	Pass
Sample No:	23N008318	Nitrogen, Total	46	48.18 %	Pass
Sample No:	23N008756	Nitrogen, Total	46	47.98 %	Pass
Sample No:	23N008762	Nitrogen, Total	46	48.16 %	Pass
Sample No:	23N008850	Nitrogen, Total	46	48.31 %	Pass
Sample No:	23N009253	Nitrogen, Total	46	48.37 %	Pass
Sample No:	23N009661	Nitrogen, Total	46	47.05 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Sample No:	23N009667	Nitrogen, Total	46	46.93 %	Pass
Sample No:	23N010042	Nitrogen, Total	46	46.86 %	Pass
Sample No:	23N010045	Nitrogen, Total	46	44.94 %	Deficient
		Nitrogen, Total	46	47.24 %	Pass
<b>Product: Urea 46-0-0</b>					
Sample No:	23N002117				
		Nitrogen, Total	46	46.11 %	Pass
Sample No:	23N004618				
		Nitrogen, Total	46	49.42 %	Pass
Sample No:	23N004729				
		Nitrogen, Total	46	50.15 %	Pass
Sample No:	23N008847				
		Nitrogen, Total	46	48.26 %	Pass
Sample No:	23N009502				
		Nitrogen, Total	46	48.47 %	Pass
<b>Product: Urea: 46-00-00</b>					
Sample No:	23N001877				
		Nitrogen, Total	46	48.01 %	Pass
<b>Manufacturer: CHS GMO Plant</b>					
<b>Product: MAP</b>					
Sample No:	23N005942				
		Commercial Value	137	137.71	
		Nitrogen, Total	11	11.23 %	Pass
		Overall Index Value		100.52 %	Pass
		Phosphate, Available as P2O5	52	52.02 %	Pass
<b>Manufacturer: CHS Northern Plains-Selby</b>					
<b>Product: 46-0-0</b>					
Sample No:	23N002775				
		Nitrogen, Total	46	47.43 %	Pass
Sample No:	23N003251				
		Nitrogen, Total	46	47.13 %	Pass
Sample No:	23N009725				
		Nitrogen, Total	46	47.43 %	Pass



		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> AMS					
<b>Sample No:</b>	23N008774				
		Nitrogen, Total	21	21.25 %	Pass
		Sulfur	24	24.15 %	Pass
<b>Sample No:</b>	23N009726				
		Nitrogen, Total	21	21.71 %	Pass
		Sulfur	24	24.02 %	Pass
<b>Product:</b> MAP					
<b>Sample No:</b>	23N003249				
		Commercial Value	137	135.55	
		Nitrogen, Total	11	11.12 %	Pass
		Overall Index Value		98.94 %	Pass
		Phosphate, Available as P2O5	52	51.10 %	Pass
<b>Product:</b> MESZ					
<b>Sample No:</b>	23N003250				
		Commercial Value	116	115.57	
		Nitrogen, Total	12	12.05 %	Pass
		Overall Index Value		99.63 %	Pass
		Phosphate, Available as P2O5	40	39.71 %	Pass
		Sulfur	10	9.39 %	Pass
		Zinc, Acid Soluble	1	0.91 %	Pass
<b>Sample No:</b>	23N008773				
		Commercial Value	116	114.58	
		Nitrogen, Total	12	11.90 %	Pass
		Overall Index Value		98.77 %	Pass
		Phosphate, Available as P2O5	40	39.43 %	Pass
		Sulfur	10	10.13 %	Pass
		Zinc, Acid Soluble	1	0.91 %	Pass
<b>Sample No:</b>	23N009727				
		Commercial Value	116	113.88	
		Nitrogen, Total	12	11.59 %	Pass
		Overall Index Value		98.17 %	Pass
		Phosphate, Available as P2O5	40	39.56 %	Pass
		Sulfur	10	9.83 %	Pass
		Zinc, Acid Soluble	1	0.81 %	Deficient
<b>Product:</b> Potash					

Sample No:	Analyte	Claim	Found Unit	Disposition
23N008775	Potash, Soluble as K2O	60	60.40 %	Pass
<b>Product:</b> Urea				
23N008776	Nitrogen, Total	46	47.49 %	Pass
<b>Manufacturer:</b> CHS-Alton				
<b>Product:</b> AMS				
23N004646	Nitrogen, Total	21	22.43 %	Pass
	Sulfur	24	24.68 %	Pass
<b>Product:</b> DAP				
23N004649	Commercial Value	146	148.45	
	Nitrogen, Total	18	18.68 %	Pass
	Overall Index Value		101.68 %	Pass
	Phosphate, Available as P2O5	46	46.20 %	Pass
<b>Product:</b> Potash				
23N004647	Potash, Soluble as K2O	60	58.96 %	Pass
<b>Manufacturer:</b> CHS-Corsica				
<b>Product:</b> AMS				
24N000005	Nitrogen, Total	20.5	20.17 %	Pass
	Sulfur	24	23.94 %	Pass
<b>Product:</b> Potash				
23N002732	Potash, Soluble as K2O	60	58.80 %	Pass
<b>Manufacturer:</b> CHS-Fairfax				
<b>Product:</b> Water from bulk fertilizer container				
23N002164	Nitrogen, Total		0.24 %	Pass
	Phosphate, Available as P2O5		0.05 %	Pass
	Potash, Soluble		0.00 %	
<b>Product:</b> water from leak detection tube				
23N002165	Nitrogen, Total		0.26 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
		Phosphate, Available as P2O5		0.03 %	Pass
		Potash, Soluble		-0.01 %	
<b>Manufacturer:</b>	<b>CHS-Inver Grove Heights</b>				
<b>Product:</b>	Urea				
<b>Sample No:</b>	23N004648				
		Nitrogen, Total	46	50.67 %	Pass
<b>Sample No:</b>	23N006146				
		Nitrogen, Total	46	47.72 %	Pass
<b>Sample No:</b>	23N009255				
		Nitrogen, Total	46	47.86 %	Pass
<b>Manufacturer:</b>	<b>CHS-Mitchell-Elevator Rd</b>				
<b>Product:</b>	AMS				
<b>Sample No:</b>	23N001881				
		Nitrogen, Total	21	20.64 %	Pass
		Sulfur	24	24.71 %	Pass
<b>Sample No:</b>	23N008851				
		Nitrogen, Total	21	21.54 %	Pass
		Sulfur	24	24.63 %	Pass
<b>Product:</b>	MAP				
<b>Sample No:</b>	23N001883				
		Commercial Value	137	131.27	
		Nitrogen, Total	11	10.46 %	Pass
		Overall Index Value		95.82 %	Deficient
		Phosphate, Available as P2O5	52	49.94 %	Deficient
<b>Product:</b>	MESZ				
<b>Sample No:</b>	23N001885				
		Commercial Value	116	114.29	
		Nitrogen, Total	12	11.96 %	Pass
		Overall Index Value		98.53 %	Pass
		Phosphate, Available as P2O5	40	39.20 %	Pass
		Sulfur	10	10.41 %	Pass
		Zinc, Acid Soluble	1	0.95 %	Pass
<b>Sample No:</b>	23N009666				
		Commercial Value	116	114.42	
		Nitrogen, Total	12	11.80 %	Pass
		Overall Index Value		98.64 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Sample No:	23N010044	Phosphate, Available as P2O5	40	39.52	%	Pass
		Sulfur	10	9.99	%	Pass
		Zinc, Acid Soluble	1	0.91	%	Pass
		Commercial Value	116	115.39		
		Nitrogen, Total	12	11.88	%	Pass
		Overall Index Value		99.47	%	Pass
		Phosphate, Available as P2O5	40	39.87	%	Pass
		Sulfur	10	9.95	%	Pass
		Zinc, Acid Soluble	1	0.91	%	Pass
		<b>Manufacturer: CHS-St. Paul</b>				
<b>Product: AMS</b>						
Sample No:	23N003325					
Sample No:	23N008763	Nitrogen, Total	20.5	21.80	%	Pass
		Sulfur	24	24.34	%	Pass
Sample No:	23N008763	Nitrogen, Total	21	20.73	%	Pass
		Sulfur	24	24.16	%	Pass
<b>Product: DAP 18-46-0</b>						
Sample No:	23N009256					
Sample No:	23N009256	Commercial Value	146	149.28		
		Nitrogen, Total	18	18.82	%	Pass
		Overall Index Value		102.25	%	Pass
		Phosphate, Available as P2O5	46	46.41	%	Pass
<b>Product: MAP</b>						
Sample No:	23N003326					
Sample No:	23N003756	Commercial Value	137	138.85		
		Nitrogen, Total	11	11.86	%	Pass
		Overall Index Value		101.35	%	Pass
		Phosphate, Available as P2O5	52	51.64	%	Pass
Sample No:	23N009252	Commercial Value	137	142.77		
		Nitrogen, Total	11	11.65	%	Pass
		Overall Index Value		104.21	%	Pass
		Phosphate, Available as P2O5	52	53.91	%	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>	
<b>Sample No:</b>	23N009270	Commercial Value	137	137.58			
		Nitrogen, Total	11	10.92 %		Pass	
		Overall Index Value		100.42 %		Pass	
		Phosphate, Available as P2O5	52	52.42 %		Pass	
		Commercial Value	137	137.59			
<b>Sample No:</b>	23N003324	Nitrogen, Total	11	11.28 %		Pass	
		Overall Index Value		100.43 %		Pass	
		Phosphate, Available as P2O5	52	51.88 %		Pass	
		<b>Product: MESZ</b>					
		<b>Sample No:</b>	23N008765	Commercial Value	116	117.46	
Nitrogen, Total	12			12.93 %		Pass	
Overall Index Value				101.26 %		Pass	
Phosphate, Available as P2O5	40			39.33 %		Pass	
Sulfur	10			10.15 %		Pass	
Zinc, Acid Soluble	1			0.93 %		Pass	
Commercial Value	116			114.19			
<b>Sample No:</b>	23N008765	Nitrogen, Total	12	11.96 %		Pass	
		Overall Index Value		98.44 %		Pass	
		Phosphate, Available as P2O5	40	39.16 %		Pass	
		Sulfur	10	10.16 %		Pass	
		Zinc, Acid Soluble	1	0.92 %		Pass	
		<b>Product: MESZ 12-40-0-10-1</b>					
		<b>Sample No:</b>	23N009269	Commercial Value	116	116.05	
Nitrogen, Total	12			12.44 %		Pass	
Overall Index Value				100.04 %		Pass	
Phosphate, Available as P2O5	40			39.37 %		Pass	
Sulfur	10			10.08 %		Pass	
Zinc, Acid Soluble	1			0.93 %		Pass	
Commercial Value	116			116.05			
<b>Sample No:</b>	23N003753	<b>Product: Potash</b>					
		Potash, Soluble as K2O	60	60.50 %		Pass	
<b>Product: Urea</b>							

Sample No:	Analyte	Claim	Found Unit	Disposition
23N004767	Nitrogen, Total	46	46.95 %	Pass
<b>Manufacturer: CHS-Watertown-20th Ave</b>				
<b>Product: 21-00-00-24S</b>				
23N003257	Nitrogen, Total	21	21.88 %	Pass
	Sulfur	24	23.85 %	Pass
<b>Product: 46-0-0</b>				
23N002780	Nitrogen, Total	46	47.25 %	Pass
23N003259	Nitrogen, Total	46	47.77 %	Pass
<b>Product: 7-23-5 XLR liquid fertilizer</b>				
23N004617	Commercial Value	72	72.74	
	Nitrogen, Total	7	7.60 %	Pass
	Overall Index Value		101.03 %	Pass
	Phosphate, Available as P2O5	23	22.65 %	Pass
	Potash, Soluble	5	4.65 %	Pass
<b>Product: Ammonium sulfate</b>				
23N009258	Nitrogen, Total	21	21.18 %	Pass
	Sulfur	24	24.73 %	Pass
<b>Product: AMS</b>				
23N003755	Nitrogen, Total	21	21.92 %	Pass
	Sulfur	24	23.99 %	Pass
23N004731	Nitrogen, Total	11	20.58 %	Pass
	Sulfur	24	24.24 %	Pass
23N004769	Nitrogen, Total	21	21.01 %	Pass
	Sulfur	24	24.44 %	Pass
23N009254	Nitrogen, Total	21	21.09 %	Pass
	Sulfur	24	24.36 %	Pass

<b>Product:</b>		<b>Analyte</b>	<b>Claim</b>	<b>Found Unit</b>	<b>Disposition</b>
<b>Product:</b> MAP					
<b>Sample No:</b>	23N003178				
		Commercial Value	137	139.24	
		Nitrogen, Total	11	12.11 %	<b>Pass</b>
		Overall Index Value		101.64 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.45 %	<b>Pass</b>
<b>Sample No:</b>	23N003258				
		Commercial Value	137	136.38	
		Nitrogen, Total	11	11.44 %	<b>Pass</b>
		Overall Index Value		99.55 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.03 %	<b>Pass</b>
<b>Sample No:</b>	23N004766				
		Commercial Value	137	136.15	
		Nitrogen, Total	11	10.77 %	<b>Pass</b>
		Overall Index Value		99.38 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.91 %	<b>Pass</b>
<b>Product:</b> Map 11-52-0					
<b>Sample No:</b>	23N004728				
		Commercial Value	137	139.09	
		Nitrogen, Total	11	11.83 %	<b>Pass</b>
		Overall Index Value		101.52 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	51.80 %	<b>Pass</b>
<b>Product:</b> Potash					
<b>Sample No:</b>	23N003180				
		Potash, Soluble as K2O	60	60.84 %	<b>Pass</b>
<b>Sample No:</b>	23N003793				
		Potash, Soluble as K2O	60	59.10 %	<b>Pass</b>
<b>Sample No:</b>	23N004643				
		Potash, Soluble as K2O	60	61.92 %	<b>Pass</b>
<b>Sample No:</b>	23N009257				
		Potash, Soluble as K2O	60	58.57 %	<b>Pass</b>
<b>Product:</b> Potash 0-0-60					
<b>Sample No:</b>	23N004730				
		Potash, Soluble as K2O	60	60.42 %	<b>Pass</b>
<b>Product:</b> Urea					
<b>Sample No:</b>	23N003182				

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Manufacturer: CHS-Winona</b>		Nitrogen, Total	46	47.28 %	Pass
<b>Product: MAP</b>					
<b>Sample No:</b>	23N006148				
		Commercial Value	137	135.81	
		Nitrogen, Total	11	10.58 %	Pass
		Overall Index Value		99.13 %	Pass
		Phosphate, Available as P2O5	52	52.03 %	Pass
<b>Manufacturer: CHS-Worthing</b>					
<b>Product: AMS</b>					
<b>Sample No:</b>	23N009669				
		Nitrogen, Total	20.5	20.65 %	Pass
		Sulfur	24	24.84 %	Pass
<b>Manufacturer: Cone Ag-Pierre</b>					
<b>Product: 10-34-0 Liquid Fertilizer</b>					
<b>Sample No:</b>	23N002965				
		Commercial Value	98	98.37	
		Nitrogen, Total	10	11.02 %	Pass
		Overall Index Value		100.37 %	Pass
		Phosphate, Available as P2O5	34	32.75 %	Deficient
<b>Sample No:</b>	23N003616				
		Commercial Value	98	97.10	
		Nitrogen, Total	10	9.97 %	Pass
		Overall Index Value		99.09 %	Pass
		Phosphate, Available as P2O5	34	33.59 %	Pass
<b>Sample No:</b>	23N008073				
		Commercial Value	98	96.16	
		Nitrogen, Total	10	9.79 %	Pass
		Overall Index Value		98.12 %	Pass
		Phosphate, Available as P2O5	34	33.40 %	Pass
<b>Manufacturer: Dakota Gasification Company</b>					
<b>Product: Ammonium Sulfate: 21-0-0-24</b>					
<b>Sample No:</b>	23N004623				
		Nitrogen, Total	21	21.82 %	Pass
		Sulfur	24	24.61 %	Pass
<b>Manufacturer: Dakota Mill &amp; Grain-Wall</b>					



	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> 27-0-0-1 (Liquid Fertilizer with Sulfu				
<b>Sample No:</b> 23N003189				
	Nitrogen, Total	27.27	27.63 %	Pass
	Zinc, Chelated	1.04	0.97 %	Pass
<b>Product:</b> 28-0-0 Facility Blend - diluted with w				
<b>Sample No:</b> 23N008074				
	Nitrogen, Total	28	27.21 %	Pass
<b>Product:</b> Dakota Mill-Wall, SD own South Site				
<b>Sample No:</b> 23N003327				
	Nitrogen, Total		0.26 %	
<b>Product:</b> South Site Tube sample from Dakot				
<b>Sample No:</b> 23N003328				
	Nitrogen, Total		0.10 %	
<b>Manufacturer:</b> Dr. Earth				
<b>Product:</b> Dr. Earth House Plant Pump&Grow				
<b>Sample No:</b> 23N006137				
	Commercial Value	6	10.85	
	Nitrogen, Total	1	2.39 %	Pass
	Overall Index Value		180.84 %	Pass
	Phosphate, Available as P2O5	1	1.27 %	Pass
	Potash, Soluble	1	1.14 %	Pass
<b>Product:</b> Dr. Earth Premium Gold All Purpose				
<b>Sample No:</b> 23N004275				
	Commercial Value	24	28.32	
	Nitrogen, Total	4	4.74 %	Pass
	Overall Index Value		118.00 %	Pass
	Phosphate, Available as P2O5	4	5.07 %	Pass
	Potash, Soluble as K2O	4	3.95 %	Pass
<b>Product:</b> Dr. Earth Pure Gold All Purpose Fer				
<b>Sample No:</b> 23N004653				
	Commercial Value	12	17.72	
	Nitrogen, Total	2	3.59 %	Pass
	Overall Index Value		147.69 %	Pass
	Phosphate, Available as P2O5	2	2.61 %	Pass
	Potash, Soluble as K2O	2	1.73 %	Pass
<b>Product:</b> Dr. Earth's Total Advantage Rose an				

Sample No:	Analyte	Claim	Found Unit	Disposition
23N007072	Commercial Value	26	33.34	
	Nitrogen, Total	4	5.31 %	Pass
	Overall Index Value		128.22 %	Pass
	Phosphate, Available as P2O5	6	7.43 %	Pass
	Potash, Soluble as K2O	2	2.54 %	Pass
<b>Product:</b> Premium Gold all purpose fertilizer				
23N006570	Commercial Value	24	29.67	
	Nitrogen, Total	4	5.25 %	Pass
	Overall Index Value		123.62 %	Pass
	Phosphate, Available as P2O5	4	4.61 %	Pass
	Potash, Soluble as K2O	4	4.70 %	Pass
<b>Manufacturer:</b> Easy Gardener Inc				
<b>Product:</b> Blood Meal Plant food				
23N004757	Nitrogen, Total	12	14.06 %	Pass
<b>Product:</b> Jobes Fertilizer Spikes				
23N004679	Commercial Value	52	64.11	
	Nitrogen, Total	13	14.65 %	Pass
	Overall Index Value		123.28 %	Pass
	Phosphate, Available as P2O5	4	5.76 %	Pass
	Potash, Soluble as K2O	5	8.65 %	Pass
23N006938	Commercial Value	60	85.06	
	Nitrogen, Total	6	9.15 %	Pass
	Overall Index Value		141.77 %	Pass
	Phosphate, Available as P2O5	18	27.06 %	Pass
	Potash, Soluble as K2O	6	3.49 %	Deficient
	Potash, Soluble (STPB) as K2O	6	4.23 %	Deficient
<b>Product:</b> Jobe's Fertilizer Spikes (10-10-4)				
23N005981	Commercial Value	54	63.21	
	Nitrogen, Total	10	12.20 %	Pass
	Overall Index Value		117.05 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> Jobes Fertilizer Tablets				
<b>Sample No:</b> 23N004678				
	Phosphate, Available as P2O5	10	10.77 %	Pass
	Potash, Soluble as K2O	4	5.08 %	Pass
	Commercial Value	68	83.39	
	Nitrogen, Total	16	19.64 %	Pass
	Overall Index Value		122.64 %	Pass
	Phosphate, Available as P2O5	8	9.61 %	Pass
	Potash, Soluble as K2O	4	5.24 %	Pass
<b>Product:</b> Jobe's Fruit & Citrus Fertilizer Spike				
<b>Sample No:</b> 23N006154				
	Commercial Value	57	88.83	
	Nitrogen, Total	8	13.82 %	Pass
	Overall Index Value		155.84 %	Pass
	Phosphate, Available as P2O5	11	16.06 %	Pass
	Potash, Soluble as K2O	11	15.26 %	Pass
<b>Product:</b> Jobe's Tree & Shrubs Fertilizer Spik				
<b>Sample No:</b> 23N005599				
	Commercial Value	60	74.15	
	Nitrogen, Total	16	18.52 %	Pass
	Overall Index Value		123.59 %	Pass
	Phosphate, Available as P2O5	4	6.48 %	Pass
	Potash, Soluble as K2O	4	5.64 %	Pass
<b>Product:</b> Jobe's Tree & Shrubs Fertilizer Spik				
<b>Sample No:</b> 23N006153				
	Commercial Value	54	64.96	
	Nitrogen, Total	15	17.36 %	Pass
	Overall Index Value		120.30 %	Pass
	Phosphate, Available as P2O5	3	4.46 %	Pass
	Potash, Soluble as K2O	3	3.96 %	Pass
<b>Product:</b> Vegetable and Tomato Plant food				
<b>Sample No:</b> 23N004761				
	Calcium	7	12.16 %	Pass
	Commercial Value	19	19.83	
	Magnesium, Acid Soluble	0.5	1.04 %	Pass
	Magnesium, Water Soluble	0.15	0.16 %	Pass

<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Nitrogen, Total	2	2.16	%	Pass
Overall Index Value		104.39	%	Pass
Phosphate, Available as P2O5	5	4.60	%	Pass
Potash, Soluble as K2O	3	4.14	%	Pass
Sulfur	1.4	1.72	%	Pass

**Manufacturer:** Eau Claire Coop  
**Product:** Lawn Food 30-0-3

**Sample No:** 23N003642

Commercial Value	93	93.02		
Iron	1.0	1.71	%	Pass
Nitrogen, Total	30.0	29.91	%	Pass
Overall Index Value		100.02	%	Pass
Potash, Soluble as K2O	3.0	3.29	%	Pass

**Product:** MaxLawn Fall Lawn Food

**Sample No:** 23N007149

Commercial Value	76	78.37		
Iron	1.0	1.11	%	Pass
Nitrogen, Total	22.0	22.66	%	Pass
Overall Index Value		103.12	%	Pass
Potash, Soluble as K2O	10.0	10.39	%	Pass

**Product:** MaxLawn Fertilizer

**Sample No:** 23N004320

Commercial Value	60	62.26		
Nitrogen, Total	10.0	9.63	%	Pass
Overall Index Value		103.76	%	Pass
Phosphate, Available as P2O5	10.0	11.60	%	Pass
Potash, Soluble as K2O	10.0	10.18	%	Pass

**Product:** Starter Fertilizer 15-23-10

**Sample No:** 23N003750

Commercial Value	101	102.97		
Iron	1.0	1.95	%	Pass
Nitrogen, Total	15.0	15.62	%	Pass
Overall Index Value		101.95	%	Pass
Phosphate, Available as P2O5	23.0	22.81	%	Pass
Potash, Soluble as K2O	10.0	10.50	%	Pass

**Product:** Weed and Feed

Sample No:	Analyte	Claim	Found Unit	Disposition
23N003751	Commercial Value	87	100.99	
	Iron	1.0	1.42 %	Pass
	Nitrogen, Total	28.0	32.60 %	Pass
	Overall Index Value		116.08 %	Pass
	Potash, Soluble as K2O	3.0	3.20 %	Pass
<b>Manufacturer: EC Grow</b>				
<b>Product: Lawn Max 5</b>				
Sample No:	23N004333			
	Commercial Value	82	83.73	
	Iron	1.0	1.36 %	Pass
	Nitrogen, Total	26.0	26.32 %	Pass
	Overall Index Value		102.11 %	Pass
	Potash, Soluble as K2O	4.0	4.78 %	Pass
<b>Product: MAX Lawn Food</b>				
Sample No:	23N008700			
	Commercial Value	82	85.95	
	Iron	1.0	1.24 %	Pass
	Nitrogen, Total	26.0	27.31 %	Pass
	Overall Index Value		104.82 %	Pass
	Potash, Soluble as K2O	4.0	4.02 %	Pass
<b>Manufacturer: Espoma Company</b>				
<b>Product: Espoma Organic Garden Lime</b>				
Sample No:	23N008285			
	Calcium	21	19.97 %	Pass
	Magnesium, Acid Soluble	10	11.20 %	Pass
	Moisture	1	0.51 %	Pass
<b>Manufacturer: Farmers Ag Center-Madison</b>				
<b>Product: MAP 11-52-0</b>				
Sample No:	23N004645			
	Commercial Value	137	138.91	
	Nitrogen, Total	11	11.25 %	Pass
	Overall Index Value		101.40 %	Pass
	Phosphate, Available as P2O5	52	52.58 %	Pass
<b>Manufacturer: Farmers Alliance-Mitchell</b>				
<b>Product: AMS</b>				

<u>Sample No:</u>	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
23N002731	Nitrogen, Total	21	22.89 %	Pass
	Sulfur	24	23.08 %	Pass
<b>Product: MESZ</b>				
23N002734	Commercial Value	116	114.52	
	Nitrogen, Total	12	12.15 %	Pass
	Overall Index Value		98.73 %	Pass
	Phosphate, Available as P2O5	40	38.88 %	Deficient
	Sulfur	10	9.89 %	Pass
	Zinc, Acid Soluble	1	0.92 %	Pass
<b>Product: Urea</b>				
23N002733	Nitrogen, Total	46	47.60 %	Pass
<b>Manufacturer: Fertlome</b>				
<b>Product: all purpose houseplant plant food</b>				
23N006940	Commercial Value	60	55.69	
	Nitrogen, Total	10	9.47 %	Pass
	Overall Index Value		92.82 %	Pass
	Phosphate, Available as P2O5	10	8.89 %	Deficient
	Potash, Soluble	10	9.49 %	Pass
<b>Product: All Purpose Water Soluble Plant Fo</b>				
23N004272	Commercial Value	120	122.56	
	Nitrogen, Total	20	20.27 %	Pass
	Overall Index Value		102.14 %	Pass
	Phosphate, Available as P2O5	20	21.22 %	Pass
	Potash, Soluble as K2O	20	19.32 %	Pass
23N006942	Commercial Value	120	121.44	
	Nitrogen, Total	20	19.96 %	Pass
	Overall Index Value		101.20 %	Pass
	Phosphate, Available as P2O5	20	21.21 %	Pass
	Potash, Soluble as K2O	20	19.14 %	Pass
<b>Product: Root Stimulator 4-10-3</b>				

<u>Sample No:</u>	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
23N006939	Commercial Value	35	36.48	
	Nitrogen, Total	4	3.98 %	Pass
	Overall Index Value		104.23 %	Pass
	Phosphate, Available as P2O5	10	10.70 %	Pass
	Potash, Soluble	3	3.13 %	Pass
<b>Manufacturer: Fremar LLC-Marion</b>				
<b>Product: AMS</b>				
23N001699	Nitrogen, Total	21	20.94 %	Deficient
	Sulfur	24	%	
23N002571	Nitrogen, Total	21	22.09 %	Pass
	Sulfur	24	24.15 %	Pass
24N000016	Nitrogen, Total	21	20.94 %	Pass
	Sulfur	24	24.41 %	Pass
<b>Product: MAP</b>				
24N000015	Commercial Value	137	137.10	
	Nitrogen, Total	11	10.83 %	Pass
	Overall Index Value		100.07 %	Pass
	Phosphate, Available as P2O5	52	52.31 %	Pass
<b>Product: Potash</b>				
24N000014	Potash, Soluble as K2O	60	62.94 %	Pass
<b>Product: Potash 0-0-60</b>				
23N002573	Potash, Soluble as K2O	60	62.04 %	Pass
<b>Product: Urea</b>				
24N000017	Nitrogen, Total	46	46.34 %	Pass
<b>Manufacturer: Gavilon-Sioux City</b>				
<b>Product: Potash</b>				
23N009251	Potash, Soluble as K2O	60	60.63 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
<b>Manufacturer: Gavilon-St. Paul</b>					
<b>Product: DAP 18-46-00</b>					
<b>Sample No: 23N004738</b>					
	Commercial Value	146	139.67		
	Nitrogen, Total	18	17.44 %		<b>Pass</b>
	Overall Index Value		95.67 %		<b>Deficient</b>
	Phosphate, Available as P2O5	46	43.68 %		<b>Deficient</b>
<b>Manufacturer: GroTec Inc.</b>					
<b>Product: All Purpose Fertilizer</b>					
<b>Sample No: 23N004323</b>					
	Commercial Value	60	59.34		
	Nitrogen, Total	10.0	9.83 %		<b>Pass</b>
	Overall Index Value		98.90 %		<b>Pass</b>
	Phosphate, Available as P2O5	10.0	10.18 %		<b>Pass</b>
	Potash, Soluble as K2O	10.0	9.50 %		<b>Pass</b>
<b>Product: Evergreen Tree and Shrub Plant Fo</b>					
<b>Sample No: 23N004312</b>					
	Commercial Value	64	71.39		
	Iron	1.0	1.63 %		<b>Pass</b>
	Manganese, Acid Soluble	0.20	0.18 %		<b>Pass</b>
	Nitrogen, Total	16.0	17.98 %		<b>Pass</b>
	Overall Index Value		111.54 %		<b>Pass</b>
	Phosphate, Available as P2O5	4.0	4.63 %		<b>Pass</b>
	Potash, Soluble as K2O	8.0	8.20 %		<b>Pass</b>
	Zinc, Acid Soluble	0.05	0.06 %		<b>Pass</b>
<b>Product: evergreen tree and shrub plant food</b>					
<b>Sample No: 23N006568</b>					
	Commercial Value	64	69.01		
	Iron	1.00	1.68 %		<b>Pass</b>
	Manganese, Acid Soluble	0.20	0.19 %		<b>Pass</b>
	Nitrogen, Total	16.00	17.16 %		<b>Pass</b>
	Overall Index Value		107.83 %		<b>Pass</b>
	Phosphate, Available as P2O5	4.00	4.64 %		<b>Pass</b>
	Potash, Soluble as K2O	8.00	8.25 %		<b>Pass</b>
	Zinc, Acid Soluble	0.05	0.05 %		<b>Pass</b>
<b>Product: Expert gardener flower food 10-10-1</b>					



Sample No:	Analyte	Claim	Found Unit	Disposition
23N006139	Commercial Value	60	60.74	
	Nitrogen, Total	10	10.11 %	Pass
	Overall Index Value		101.23 %	Pass
	Phosphate, Available as P2O5	10	10.48 %	Pass
	Potash, Soluble as K2O	10	9.44 %	Pass
<b>Product:</b> GroundWork All-Purpose Fertilizer 1				
23N006586	Commercial Value	60	70.03	
	Nitrogen, Total	10	12.16 %	Pass
	Overall Index Value		116.71 %	Pass
	Phosphate, Available as P2O5	10	11.94 %	Pass
	Potash, Soluble as K2O	10	9.65 %	Pass
<b>Product:</b> Sta-Green All Purpose Plant Food (:				
23N007225	Boron, Acid Soluble	0.02	0.02 %	Pass
	Commercial Value	104	106.24	
	Copper	0.07	0.07 %	Pass
	Iron	0.15	0.16 %	Pass
	Manganese, Acid Soluble	0.05	0.05 %	Pass
	Nitrogen, Total	24.00	24.26 %	Pass
	Overall Index Value		102.15 %	Pass
	Phosphate, Available as P2O5	8.00	8.47 %	Pass
	Potash, Soluble as K2O	16.00	16.51 %	Pass
	Zinc, Acid Soluble	0.06	0.06 %	Pass
	Zinc, Water Soluble	0.06	0.05 %	Pass
<b>Product:</b> Sta-Green Tomato & Vegetable Plar				
23N007217	Commercial Value	111	122.49	
	Copper	0.05	0.04 %	Pass
	Iron	0.10	0.09 %	Pass
	Magnesium, Acid Soluble	0.50	0.03 %	Deficient
	Magnesium, Water Soluble	0.50	0.04 %	Deficient
	Manganese, Acid Soluble	0.05	0.04 %	Pass
	Nitrogen, Total	18.00	21.48 %	Pass
	Overall Index Value		110.35 %	Pass

<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Phosphate, Available as P2O5	18.00	18.39 %	Pass
Potash, Soluble as K2O	21.00	21.25 %	Pass
Sulfur	1.47	1.62 %	Pass
Zinc, Acid Soluble	0.05	0.04 %	Deficient
Zinc, Water Soluble	0.05	0.03 %	Deficient

**Product:** Tomato & Vegetable Garden

**Sample No:** 23N004313

Calcium	3.0	6.29 %	Pass
Commercial Value	61	65.12	
Iron	1.0	2.32 %	Pass
Magnesium, Acid Soluble	2.0	4.90 %	Pass
Magnesium, Water Soluble	2.0	2.02 %	Pass
Manganese, Acid Soluble	0.20	0.22 %	Pass
Nitrogen, Total	12.0	13.24 %	Pass
Overall Index Value		106.75 %	Pass
Phosphate, Available as P2O5	10.0	10.03 %	Pass
Potash, Soluble as K2O	5.0	5.34 %	Pass
Sulfur	7.0	8.60 %	Pass
Zinc, Acid Soluble	0.05	0.09 %	Pass

**Manufacturer:** Howard Farmers Coop

**Product:** Blended Fertilizer 15-27-90

**Sample No:** 23N009524

Commercial Value	92.55	92.20	
Nitrogen, Total	4.65	4.21 %	Pass
Overall Index Value		99.62 %	Pass
Phosphate, Available as P2O5	22.0	20.72 %	Deficient
Potash, Soluble as K2O	34.6	38.14 %	Pass

**Manufacturer:** IMC Outdoor Living

**Product:** Burpee Blood Meal (12-0-0)

**Sample No:** 23N007117

Nitrogen, Total	12	14.51 %	Pass
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**Product:** Burpee Organic Blood Meal

**Sample No:** 23N005965

Nitrogen, Total	12	14.92 %	Pass
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**Product:** Expert Gardener Organics all purpo

**Sample No:** 23N006571

<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Calcium	8.00	7.70	%	Pass
Commercial Value	24	25.27		
Magnesium, Acid Soluble	0.50	0.44	%	Pass
Magnesium, Water Soluble	0.1	0.23	%	Pass
Nitrogen, Total	4.00	4.96	%	Pass
Overall Index Value		105.31	%	Pass
Phosphate, Available as P2O5	4.00	2.90	%	Deficient
Potash, Soluble as K2O	4.00	4.60	%	Pass

**Manufacturer:** Interoceanic Corp-White Plains  
**Product:** AMS

**Sample No:** 23N007202

Nitrogen, Total	21	22.42	%	Pass
Sulfur	24	22.29	%	Deficient

**Sample No:** 23N007430

Nitrogen, Total	21	20.89	%	Pass
Sulfur	24	24.64	%	Pass

**Manufacturer:** Itafos Conda-Soda Springs  
**Product:** 11-52-0 MAP (Monoammonium Phc)

**Sample No:** 23N002968

Commercial Value	137	141.34		
Nitrogen, Total	11	11.48	%	Pass
Overall Index Value		103.17	%	Pass
Phosphate, Available as P2O5	52	53.46	%	Pass

**Product:** Ammonium Phosphate Sulfate 12-3

**Sample No:** 23N003758

Commercial Value	114	122.35		
Nitrogen, Total	12	13.88	%	Pass
Overall Index Value		107.33	%	Pass
Phosphate, Available as P2O5	39	40.35	%	Pass
Sulfur	6	6.20	%	Pass

**Manufacturer:** J.R. Peters Inc.  
**Product:** Jack's All Purpose fertilizer (20-20-2)

**Sample No:** 23N006534

Boron, Acid Soluble	0.02	0.02	%	Pass
Commercial Value	120	128.59		
Copper	0.05	0.05	%	Pass

<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Iron	0.10	0.10 %	Pass
Manganese, Acid Soluble	0.05	0.05 %	Pass
Nitrogen, Total	20	20.46 %	Pass
Overall Index Value		107.16 %	Pass
Phosphate, Available as P2O5	20	22.60 %	Pass
Potash, Soluble as K2O	20	22.01 %	Pass
Zinc, Acid Soluble	0.05	0.05 %	Pass
Zinc, Chelated	0.05	0.05 %	Pass

**Product:** Jack's Blossom Booster (10-30-20)

**Sample No:** 23N006532

Boron, Acid Soluble	0.02	0.02 %	Pass
Commercial Value	110	116.05	
Copper	0.05	0.05 %	Pass
Iron	0.10	0.12 %	Pass
Magnesium, Acid Soluble	0.50	0.53 %	Pass
Magnesium, Water Soluble	0.50	0.49 %	Pass
Manganese, Acid Soluble	0.05	0.06 %	Pass
Nitrogen, Total	10	10.50 %	Pass
Overall Index Value		105.50 %	Pass
Phosphate, Available as P2O5	30	31.36 %	Pass
Potash, Soluble as K2O	20	21.83 %	Pass
Zinc, Acid Soluble	0.05	0.05 %	Pass
Zinc, Chelated	0.05	0.05 %	Pass

**Product:** Jack's Classic Citrus FeED 20-10-20

**Sample No:** 23N005572

Boron, Water Soluble	0.02	0.02 %	Pass
Commercial Value	100	99.13	
Copper	0.05	0.05 %	Pass
Iron	0.15	0.17 %	Pass
Magnesium, Acid Soluble	1	0.97 %	Pass
Magnesium, Water Soluble	1	0.93 %	Pass
Manganese, Acid Soluble	0.075	0.08 %	Pass
Manganese, Water Soluble	0.075	0.08 %	Pass
Nitrogen, Total	20	18.75 %	Deficient
Overall Index Value		99.13 %	Pass
Phosphate, Available as P2O5	10	11.73 %	Pass

<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Potash, Soluble as K2O	20	19.43 %	Pass
Sulfur	4.9	4.97 %	Pass
Zinc, Acid Soluble	0.05	0.05 %	Pass
Zinc, Water Soluble	0.05	0.07 %	Pass

**Product:** Jack's Houseplant Special (15-30-1)

**Sample No:** 23N006531

Boron, Acid Soluble	0.02	0.02 %	Pass
Commercial Value	120	127.46	
Copper	0.05	0.05 %	Pass
Iron	0.10	0.11 %	Pass
Manganese, Acid Soluble	0.05	0.06 %	Pass
Nitrogen, Total	15	15.49 %	Pass
Overall Index Value		106.21 %	Pass
Phosphate, Available as P2O5	30	32.71 %	Pass
Potash, Soluble as K2O	15	15.58 %	Pass
Zinc, Acid Soluble	0.05	0.06 %	Pass
Zinc, Chelated	0.05	0.06 %	Pass

**Product:** Jack's Orchid Special (30-10-10)

**Sample No:** 23N006533

Boron, Acid Soluble	0.02	0.02 %	Pass
Commercial Value	120	123.64	
Copper	0.05	0.05 %	Pass
Iron	0.10	0.12 %	Pass
Manganese, Acid Soluble	0.05	0.06 %	Pass
Nitrogen, Total	30	29.26 %	Pass
Overall Index Value		103.04 %	Pass
Phosphate, Available as P2O5	10	11.92 %	Pass
Potash, Soluble as K2O	10	12.02 %	Pass
Zinc, Acid Soluble	0.05	0.06 %	Pass
Zinc, Chelated	0.05	0.06 %	Pass

**Manufacturer:** Jirdon

**Product:** Bill's Rose Fertilizer 10-10-2

**Sample No:** 23N005573

Commercial Value	52	69.47	
Iron	3.5	3.91 %	Pass
Nitrogen, Total	10.0	13.74 %	Pass

<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Overall Index Value		133.60	%	Pass
Phosphate, Available as P2O5	10.0	12.60	%	Pass
Potash, Soluble as K2O	2.0	3.04	%	Pass
Sulfur	12.0	17.04	%	Pass

**Manufacturer:** JR Simplot Company-Rock Sp  
**Product:** MAP

**Sample No:** 23N002563

Commercial Value	137	138.92		
Nitrogen, Total	11	12.20	%	Pass
Overall Index Value		101.40	%	Pass
Phosphate, Available as P2O5	52	51.17	%	Pass

**Manufacturer:** K & S Potash Canada  
**Product:** 0-0-60 potash

**Sample No:** 23N009263

Potash, Soluble as K2O	60	60.20	%	Pass
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**Product:** Potash

**Sample No:** 23N003317

Potash, Soluble as K2O	60	59.73	%	Pass
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**Manufacturer:** Knox Fertilizer Company, Inc.  
**Product:** 16-12-12 Slow-Release Plant Food

**Sample No:** 23N006564

Boron, Acid Soluble	0.02	0.02	%	Pass
Commercial Value	84	87.41	%	
Copper	0.05	0.06	%	Pass
Iron	1.11	1.23	%	Pass
Manganese, Acid Soluble	0.05	0.05	%	Pass
Nitrogen, Total	16.00	16.51	%	Pass
Overall Index Value		104.06	%	Pass
Phosphate, Available as P2O5	12.00	13.06	%	Pass
Potash, Soluble as K2O	12.00	11.76	%	Pass
Sulfur	2.10	2.55	%	Pass
Zinc, Acid Soluble	0.05	0.07	%	Pass

**Product:** Green Thumb Lawn Food

**Sample No:** 23N004746

Commercial Value	84	89.17		
Iron	2	2.35	%	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
	Nitrogen, Total	27	28.70 %	Pass
	Overall Index Value		106.16 %	Pass
	Potash, Soluble as K2O	3	3.08 %	Pass
<b>Product:</b> Green Thumb Winterizer				
	<b>Sample No:</b>	23N004748		
	Commercial Value	106	117.73	
	Nitrogen, Total	32	35.65 %	Pass
	Overall Index Value		111.06 %	Pass
	Potash, Soluble as K2O	10	10.78 %	Pass
<b>Product:</b> Schultz 10-15-10 Liquid Plant Food				
	<b>Sample No:</b>	23N006563		
	Commercial Value	70	72.51	
	Iron	0.10	0.11 %	Pass
	Manganese, Acid Soluble	0.05	0.05 %	Pass
	Nitrogen, Total	10	10.44 %	Pass
	Overall Index Value		103.59 %	Pass
	Phosphate, Available as P2O5	15	15.42 %	Pass
	Potash, Soluble	10	10.35 %	Pass
	Zinc, Acid Soluble	0.05	0.05 %	Pass
	Zinc, Chelated	0.05	0.05 %	Pass
<b>Product:</b> Schultz African Violet (8-14-9)				
	<b>Sample No:</b>	23N005982		
	Commercial Value	61	66.99	
	Iron	0.10	0.10 %	Pass
	Manganese, Acid Soluble	0.05	0.05 %	Pass
	Nitrogen, Total	8	8.42 %	Pass
	Overall Index Value		109.81 %	Pass
	Phosphate, Available as P2O5	14	15.96 %	Pass
	Potash, Soluble	9	9.81 %	Pass
	Zinc, Acid Soluble	0.05	0.04 %	Pass
<b>Product:</b> Schultz All Purpose Liquid Plant For				
	<b>Sample No:</b>	23N007115		
	Commercial Value	70	73.08	
	Iron	0.10	0.11 %	Pass
	Manganese, Acid Soluble	0.05	0.05 %	Pass
	Nitrogen, Total	10	9.76 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
	Overall Index Value		104.39 %	Pass
	Phosphate, Available as P2O5	15	16.56 %	Pass
	Potash, Soluble	10	10.69 %	Pass
	Zinc, Acid Soluble	0.05	0.05 %	Pass
	Zinc, Chelated	0.05	0.05 %	Pass
<b>Product:</b>	Schultz All Purpose Liquid Plant Fo			
<b>Sample No:</b>	23N006561			

	Commercial Value	70	74.11	
	Iron	0.10	0.11 %	Pass
	Manganese, Acid Soluble	0.05	0.05 %	Pass
	Nitrogen, Total	10	10.24 %	Pass
	Overall Index Value		105.87 %	Pass
	Phosphate, Available as P2O5	15	16.28 %	Pass
	Potash, Soluble	10	10.82 %	Pass
	Zinc, Acid Soluble	0.05	0.05 %	Pass
	Zinc, Chelated	0.05	0.05 %	Pass

<b>Product:</b>	Schultz Bloom Plus Plant Food (10-			
<b>Sample No:</b>	23N007116			

	Boron, Acid Soluble	0.02	0.02 %	Pass
	Commercial Value	148	148.04	
	Copper	0.07	0.07 %	Pass
	Iron	0.325	0.40 %	Pass
	Manganese, Acid Soluble	0.07	0.07 %	Pass
	Manganese, Water Soluble	0.07	0.07 %	Pass
	Nitrogen, Total	10.00	9.87 %	Pass
	Overall Index Value		100.02 %	Pass
	Phosphate, Available as P2O5	54.00	54.06 %	Pass
	Potash, Soluble as K2O	10.00	10.29 %	Pass
	Zinc, Acid Soluble	0.07	0.07 %	Pass
	Zinc, Water Soluble	0.07	0.03 %	Deficient

<b>Product:</b>	Schultz Liquid Plant Food Plus 10-1			
<b>Sample No:</b>	23N006581			

	Commercial Value	70	72.19	
	Iron	0.10	0.11 %	Pass
	Manganese, Acid Soluble	0.05	0.05 %	Pass
	Nitrogen, Total	10	10.22 %	Pass



<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Overall Index Value		103.13 %	Pass
Phosphate, Available as P2O5	15	15.75 %	Pass
Potash, Soluble	10	10.02 %	Pass
Zinc, Acid Soluble	0.05	0.05 %	Pass
Zinc, Chelated	0.05	0.05 %	Pass

**Product:** Schultz Plant Food (10-15-10)

**Sample No:** 23N006535

Commercial Value	70	71.29	
Iron	0.10	0.11 %	Pass
Manganese, Acid Soluble	0.05	0.05 %	Pass
Nitrogen, Total	10	10.19 %	Pass
Overall Index Value		101.84 %	Pass
Phosphate, Available as P2O5	15	15.43 %	Pass
Potash, Soluble	10	9.85 %	Pass
Zinc, Acid Soluble	0.05	0.05 %	Pass
Zinc, Chelated	0.05	0.05 %	Pass

**Product:** Schultz Tomato Food

**Sample No:** 23N005975

Boron, Acid Soluble	0.02	0.02 %	Pass
Commercial Value	115	117.01	
Copper	0.07	0.06 %	Pass
Iron	0.325	0.33 %	Pass
Manganese, Acid Soluble	0.07	0.07 %	Pass
Manganese, Water Soluble	0.07	0.07 %	Pass
Nitrogen, Total	17.00	17.80 %	Pass
Overall Index Value		101.75 %	Pass
Phosphate, Available as P2O5	18.00	18.45 %	Pass
Potash, Soluble as K2O	28.00	26.73 %	Pass
Zinc, Acid Soluble	0.07	0.06 %	Pass
Zinc, Water Soluble	0.07	0.08 %	Pass

**Manufacturer:** Koch Fertilizer LLC-Wichita

**Product:** APP 10-34-0

**Sample No:** 23N003172

Commercial Value	98	99.94	
Nitrogen, Total	10	10.90 %	Pass
Overall Index Value		101.98 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b>	ATS 11-0-0 with 24s	Phosphate, Available as P2O5	34	33.62 %	<b>Pass</b>
<b>Sample No:</b>	23N003169				
		Nitrogen, Total	11	11.91 %	<b>Pass</b>
		Zinc, Chelated	24	24.16 %	<b>Pass</b>
<b>Product:</b>	UAN 28-0-0				
<b>Sample No:</b>	23N003171				
		Nitrogen, Total	28	29.59 %	<b>Pass</b>
<b>Product:</b>	UAN 32-0-0				
<b>Sample No:</b>	23N003170				
		Nitrogen, Total	32	33.27 %	<b>Pass</b>
<b>Product:</b>	Urea				
<b>Sample No:</b>	23N008781				
		Nitrogen, Total	46	47.66 %	<b>Pass</b>
<b>Manufacturer:</b>	<b>Koch Fertilizer, LLC</b>				
<b>Product:</b>	Urea				
<b>Sample No:</b>	23N008686				
		Nitrogen, Total	46	46.85 %	<b>Pass</b>
<b>Manufacturer:</b>	<b>Koch Fertilizer, LLC-Sgt Bluff</b>				
<b>Product:</b>	MAP				
<b>Sample No:</b>	23N008961				
		Commercial Value	137	138.53	
		Nitrogen, Total	11	11.22 %	<b>Pass</b>
		Overall Index Value		101.12 %	<b>Pass</b>
<b>Sample No:</b>	23N010040	Phosphate, Available as P2O5	52	52.43 %	<b>Pass</b>
		Commercial Value	137	139.74	
		Nitrogen, Total	11	11.58 %	<b>Pass</b>
		Overall Index Value		102.00 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	52.50 %	<b>Pass</b>
<b>Product:</b>	Potash				
<b>Sample No:</b>	23N008963				
		Potash, Soluble as K2O	60	58.91 %	<b>Pass</b>
<b>Product:</b>	Urea				
<b>Sample No:</b>	23N010037				
		Nitrogen, Total	46	46.62 %	<b>Pass</b>

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
<b>Manufacturer:</b>	<b>Koch Fertilizer-Enid</b>					
<b>Product:</b>	Urea					
<b>Sample No:</b>	23N002560					
		Nitrogen, Total	46	47.48	%	Pass
<b>Manufacturer:</b>	<b>Kugler Company-McCook NE</b>					
<b>Product:</b>	10-25-0-5s [sulfur]					
<b>Sample No:</b>	23N007121					
		Commercial Value	80	79.80		
		Nitrogen, Total	10	10.22	%	Pass
		Overall Index Value		99.75	%	Pass
		Phosphate, Available as P2O5	25	24.57	%	Pass
		Sulfur, Gravimetric	5	5.41	%	Pass
<b>Manufacturer:</b>	<b>Kugler-RCity</b>					
<b>Product:</b>	10-25-0-5 Sulfur					
<b>Sample No:</b>	23N002120					
		Commercial Value	80	79.37		
		Nitrogen, Total	10	10.59	%	Pass
		Overall Index Value		99.22	%	Pass
		Phosphate, Available as P2O5	25	23.80	%	Deficient
		Zinc, Chelated	5	5.67	%	Pass
<b>Product:</b>	<b>KQXRN 28-0-0</b>					
<b>Sample No:</b>	23N002118					
		Nitrogen, Total	28	28.29	%	Pass
<b>Sample No:</b>	23N007119					
		Nitrogen, Total	28	28.53	%	Pass
<b>Manufacturer:</b>	<b>Lebanon Seaboard Corporatio</b>					
<b>Product:</b>	Multi purpose fertilizer 10-10-10					
<b>Sample No:</b>	23N004744					
		Commercial Value	60	61.81		
		Iron	1	0.99	%	Pass
		Nitrogen, Total	10	10.59	%	Pass
		Overall Index Value		103.01	%	Pass
		Phosphate, Available as P2O5	10	9.26	%	Deficient
		Potash, Soluble as K2O	10	11.51	%	Pass
		Sulfur	5	8.25	%	Pass
<b>Manufacturer:</b>	<b>Lilly Miller Brands</b>					

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
<b>Product:</b> Alaska Fish Fertilizer						
<b>Sample No:</b>	23N005968					
		Commercial Value	18	20.69		
		Nitrogen, Total	5.0	4.82 %		Pass
		Overall Index Value		114.94 %		Pass
		Phosphate, Available as P2O5	1.0	2.32 %		Pass
		Potash, Soluble	1.0	1.60 %		Pass
<b>Sample No:</b>	23N006145					
		Commercial Value	18	18.47		
		Nitrogen, Total	5.0	4.77 %		Pass
		Overall Index Value		102.59 %		Pass
		Phosphate, Available as P2O5	1.0	1.73 %		Pass
		Potash, Soluble	1.0	0.69 %		Pass
<b>Product:</b> Alaska Fish Fertilizer 5-1-1						
<b>Sample No:</b>	23N006558					
		Commercial Value	18	19.32		
		Nitrogen, Total	5.0	5.01 %		Pass
		Overall Index Value		107.33 %		Pass
		Phosphate, Available as P2O5	1.0	1.67 %		Pass
		Potash, Soluble	1.0	0.95 %		Pass
<b>Manufacturer:</b> MacroSource						
<b>Product:</b> MAP 11-52-0						
<b>Sample No:</b>	23N002116					
		Commercial Value	137	135.00		
		Nitrogen, Total	11	10.77 %		Pass
		Overall Index Value		98.54 %		Pass
		Phosphate, Available as P2O5	52	51.35 %		Pass
<b>Manufacturer:</b> MacroSource LLC -Savage						
<b>Product:</b> 46-0-0						
<b>Sample No:</b>	23N003785					
		Nitrogen, Total	46	46.51 %		Pass
<b>Manufacturer:</b> MacroSource LLC--Denison IA						
<b>Product:</b> AMS						
<b>Sample No:</b>	23N010041					
		Nitrogen, Total	21	20.84 %		Pass
		Sulfur	24	24.59 %		Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
<b>Product:</b>	Potash					
<b>Sample No:</b>	23N010039					
		Potash, Soluble as K2O	60	59.74	%	Pass
<b>Manufacturer:</b>	<b>MacroSource LLC--Hastings</b>					
<b>Product:</b>	11-52-0					
<b>Sample No:</b>	23N003797					
		Commercial Value	137	137.57		
		Nitrogen, Total	11	11.58	%	Pass
		Overall Index Value		100.41	%	Pass
		Phosphate, Available as P2O5	52	51.41	%	Pass
<b>Product:</b>	Potash					
<b>Sample No:</b>	23N003798					
		Potash, Soluble as K2O	60	60.00	%	Pass
<b>Manufacturer:</b>	<b>Montana Sulfur &amp; Chemical Co</b>					
<b>Product:</b>	0-0-0-90 Disintegrating Sulfur Gran					
<b>Sample No:</b>	23N008283					
		Sulfur	90	90.86	%	Pass
<b>Manufacturer:</b>	<b>Mosaic Potash-Carlsbad</b>					
<b>Product:</b>	K-MAG Premium					
<b>Sample No:</b>	23N008316					
		Magnesium, Acid Soluble	10.5	4.95	%	Deficient
		Potash, Soluble (STPB) as K2O	21.5	16.88	%	Deficient
		Sulfur	21	13.87	%	Deficient
<b>Manufacturer:</b>	<b>Mosaic-Atlanta</b>					
<b>Product:</b>	MAP					
<b>Sample No:</b>	23N003792					
		Commercial Value	137	137.16		
		Nitrogen, Total	11	11.08	%	Pass
		Overall Index Value		100.12	%	Pass
		Phosphate, Available as P2O5	52	51.96	%	Pass
<b>Product:</b>	MESZ					
<b>Sample No:</b>	23N003791					
		Commercial Value	116	115.99		
		Nitrogen, Total	12	12.17	%	Pass
		Overall Index Value		99.99	%	Pass
		Phosphate, Available as P2O5	40	39.74	%	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
		Sulfur	10	9.56	%	Pass
		Zinc, Acid Soluble	1	0.94	%	Pass
<b>Manufacturer: Mosaic-Brooten</b>						
<b>Product: Potash</b>						
<b>Sample No:</b>	23N003254					
		Potash, Soluble as K2O	60	61.08	%	Pass
<b>Sample No:</b>	23N009268					
		Potash, Soluble as K2O	60	59.08	%	Pass
<b>Sample No:</b>	23N009834					
		Potash, Soluble as K2O	60	60.71	%	Pass
<b>Manufacturer: Mosaic-Browntown</b>						
<b>Product: DAP</b>						
<b>Sample No:</b>	23N002742					
		Commercial Value	146	145.87		
		Nitrogen, Total	18	18.19	%	Pass
		Overall Index Value		99.91	%	Pass
<b>Sample No:</b>	23N005962					
		Phosphate, Available as P2O5	46	45.65	%	Pass
		Commercial Value	146	146.47		
		Nitrogen, Total	18	18.13	%	Pass
		Overall Index Value		100.32	%	Pass
		Phosphate, Available as P2O5	46	46.04	%	Pass
<b>Product: MESZ</b>						
<b>Sample No:</b>	23N002740					
		Commercial Value	116	115.48		
		Nitrogen, Total	12	12.36	%	Pass
		Overall Index Value		99.55	%	Pass
		Phosphate, Available as P2O5	40	39.20	%	Pass
		Sulfur	10	9.47	%	Pass
		Zinc, Acid Soluble	1	0.95	%	Pass
<b>Sample No:</b>	23N005945					
		Commercial Value	116	115.89		
		Nitrogen, Total	12	12.31	%	Pass
		Overall Index Value		99.90	%	Pass
		Phosphate, Available as P2O5	40	39.47	%	Pass
		Sulfur	10	10.12	%	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> Mes-Z		Zinc, Acid Soluble	1	0.92 %	<b>Pass</b>
<b>Sample No:</b>	23N007431				
		Commercial Value	116	115.35	
		Nitrogen, Total	12	12.10 %	<b>Pass</b>
		Overall Index Value		99.44 %	<b>Pass</b>
		Phosphate, Available as P2O5	40	39.53 %	<b>Pass</b>
		Sulfur	10	8.18 %	<b>Deficient</b>
		Zinc, Acid Soluble	1	0.80 %	<b>Deficient</b>
<b>Product:</b> Potash					
<b>Sample No:</b>	23N002729				
		Potash, Soluble as K2O	60	59.05 %	<b>Pass</b>
<b>Sample No:</b>	23N005961				
		Potash, Soluble as K2O	60	58.65 %	<b>Pass</b>
<b>Sample No:</b>	23N007203				
		Potash, Soluble (STPB) as K2O	60	59.92 %	<b>Pass</b>
<b>Product:</b> Potash 0-0-60					
<b>Sample No:</b>	23N002739				
		Potash, Soluble as K2O	60	59.99 %	<b>Pass</b>
<b>Sample No:</b>	23N008848				
		Potash, Soluble (STPB) as K2O	60	44.23 %	<b>Deficient</b>
<b>Manufacturer:</b> Mosaic-Donaldsonville					
<b>Product:</b> MESZ					
<b>Sample No:</b>	23N002561				
		Commercial Value	116	114.86	
		Nitrogen, Total	12	12.04 %	<b>Pass</b>
		Overall Index Value		99.02 %	<b>Pass</b>
		Phosphate, Available as P2O5	40	39.38 %	<b>Pass</b>
		Sulfur	10	9.77 %	<b>Pass</b>
		Zinc, Acid Soluble	1	0.91 %	<b>Pass</b>
<b>Manufacturer:</b> Mosaic-Esterhazy					
<b>Product:</b> Potash					
<b>Sample No:</b>	23N001884				
		Potash, Soluble as K2O	60	59.92 %	<b>Pass</b>
<b>Sample No:</b>	23N003322				
		Potash, Soluble as K2O	60	59.35 %	<b>Pass</b>

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Sample No:	23N008317				
		Potash, Soluble as K2O	60	59.18 %	Pass
Sample No:	23N008764				
		Potash, Soluble as K2O	60	61.84 %	Pass
Sample No:	23N008849				
		Potash, Soluble as K2O	60	58.76 %	Pass
Sample No:	23N009665				
		Potash, Soluble as K2O	60	58.78 %	Pass
Sample No:	23N010043				
		Potash, Soluble as K2O	60	60.40 %	Pass
<b>Manufacturer:</b>	<b>Mosaic-Lithia</b>				
<b>Product:</b>	<b>0-0-62 Potash fertilizer</b>				
Sample No:	23N004622				
		Potash, Soluble as K2O	62	63.18 %	Pass
<b>Product:</b>	<b>MAP</b>				
Sample No:	23N001241				
		Commercial Value	137	136.81	
		Nitrogen, Total	11	11.02 %	Pass
		Overall Index Value		99.86 %	Pass
		Phosphate, Available as P2O5	52	51.88 %	Pass
Sample No:	23N008779				
		Commercial Value	137	134.33	
		Nitrogen, Total	11	10.56 %	Pass
		Overall Index Value		98.05 %	Pass
		Phosphate, Available as P2O5	52	51.33 %	Pass
<b>Product:</b>	<b>MAP 11-52-00</b>				
Sample No:	23N004741				
		Commercial Value	137	135.72	
		Nitrogen, Total	11	11.06 %	Pass
		Overall Index Value		99.07 %	Pass
		Phosphate, Available as P2O5	52	51.27 %	Pass
<b>Product:</b>	<b>MESZ</b>				
Sample No:	23N001242				
		Commercial Value	116	115.54	
		Nitrogen, Total	12	12.20 %	Pass
		Overall Index Value		99.60 %	Pass



		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
<b>Sample No:</b>	23N008778	Phosphate, Available as P2O5	40	39.47	%	Pass
		Sulfur	10	9.64	%	Pass
		Zinc, Acid Soluble	1	0.90	%	Pass
		Commercial Value	116	114.35		
		Nitrogen, Total	12	11.72	%	Pass
		Overall Index Value		98.58	%	Pass
		Phosphate, Available as P2O5	40	39.59	%	Pass
<b>Product:</b> Mesz 12-40-0-10-1 (zinc)						
<b>Sample No:</b>	23N004619					
		Commercial Value	116	113.98		
		Nitrogen, Total	12	11.87	%	Pass
		Overall Index Value		98.26	%	Pass
		Phosphate, Available as P2O5	40	39.19	%	Pass
		Sulfur	10	9.64	%	Pass
		Zinc, Acid Soluble	1	0.95	%	Pass
<b>Product:</b> Potash						
<b>Sample No:</b>	23N008780					
		Potash, Soluble as K2O	60	62.69	%	Pass
<b>Sample No:</b>	23N009728					
		Potash, Soluble as K2O	60	61.02	%	Pass
<b>Manufacturer:</b> Mosaic-Rosemount						
<b>Product:</b> DAP						
<b>Sample No:</b>	23N007200					
		Commercial Value	146	145.13		
		Nitrogen, Total	18	17.58	%	Pass
		Overall Index Value		99.40	%	Pass
		Phosphate, Available as P2O5	46	46.19	%	Pass
<b>Product:</b> MAP						
<b>Sample No:</b>	23N009668					
		Commercial Value	137	135.85		
		Nitrogen, Total	11	10.59	%	Pass
		Overall Index Value		99.16	%	Pass
		Phosphate, Available as P2O5	52	52.05	%	Pass
<b>Product:</b> Mes10						
<b>Sample No:</b>	23N003767					

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Sample No:</b>	23N003796	Commercial Value	116	116.23	
		Nitrogen, Total	12	12.26 %	Pass
		Overall Index Value		100.20 %	Pass
		Phosphate, Available as P2O5	40	39.72 %	Pass
		Sulfur	10	9.60 %	Pass
		Commercial Value	116	116.09	
<b>Sample No:</b>	23N008687	Nitrogen, Total	12	12.51 %	Pass
		Overall Index Value		100.08 %	Pass
		Phosphate, Available as P2O5	40	39.28 %	Pass
		Sulfur	10	9.94 %	Pass
		Commercial Value	116	114.47	
		Nitrogen, Total	12	11.90 %	Pass
<b>Sample No:</b>	23N008758	Overall Index Value		98.68 %	Pass
		Phosphate, Available as P2O5	40	39.39 %	Pass
		Sulfur	10	10.14 %	Pass
		Zinc, Acid Soluble	1	0.93 %	Pass
		Commercial Value	116	114.72	
		Nitrogen, Total	12	11.95 %	Pass
<b>Sample No:</b>	23N005105	Overall Index Value		98.90 %	Pass
		Phosphate, Available as P2O5	40	39.43 %	Pass
		Sulfur	10	10.38 %	Pass
		Zinc, Acid Soluble	1	0.91 %	Pass
		Commercial Value	116	114.72	
		Nitrogen, Total	12	11.95 %	Pass
<b>Manufacturer: Mosaic--Templeton IA</b>					
<b>Product: MAP</b>					
Cancel Sample					
<b>Manufacturer: N-7 LLC</b>					
<b>Product: AMS</b>					
<b>Sample No:</b>	23N002730	Nitrogen, Total	21	21.34 %	Pass
		Sulfur	24	24.51 %	Pass
<b>Sample No:</b>	23N008688				

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
		Nitrogen, Total	21	21.07 %	Pass
		Sulfur	24	23.98 %	Pass
<b>Manufacturer:</b>	<b>Nachurs-Garretson</b>				
<b>Product:</b>	6-24-6 Liquid Fertilizer				
<b>Sample No:</b>	23N002966				
		Commercial Value	72	74.72	
		Nitrogen, Total	6	6.55 %	Pass
		Overall Index Value		103.78 %	Pass
		Phosphate, Available as P2O5	24	24.61 %	Pass
		Potash, Soluble	6	5.84 %	Pass
<b>Manufacturer:</b>	<b>NeuAg LLC</b>				
<b>Product:</b>	21-0-0-24 ams				
<b>Sample No:</b>	23N009264				
		Nitrogen, Total	21	21.04 %	Pass
		Sulfur	24	23.92 %	Pass
<b>Product:</b>	AMS				
<b>Sample No:</b>	23N002562				
		Nitrogen, Total	21	21.40 %	Pass
		Sulfur	24	24.73 %	Pass
<b>Sample No:</b>	23N003320				
		Nitrogen, Total	21	22.55 %	Pass
		Sulfur	24	23.84 %	Pass
<b>Manufacturer:</b>	<b>New Vision Coop</b>				
<b>Product:</b>	Potash				
<b>Sample No:</b>	23N008958				
		Potash, Soluble as K2O	60	61.00 %	Pass
<b>Manufacturer:</b>	<b>Nutrien Ag-Loveland</b>				
<b>Product:</b>	AMS				
<b>Sample No:</b>	23N003183				
		Nitrogen, Total	20	22.10 %	Pass
		Sulfur	24	24.06 %	Pass
<b>Sample No:</b>	23N008777				
		Nitrogen, Total	20.5	20.52 %	Pass
		Sulfur	24	24.92 %	Pass
<b>Product:</b>	MAP				
<b>Sample No:</b>	23N003641				

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
		Commercial Value	137	139.30		
		Nitrogen, Total	11	11.77 %		Pass
		Overall Index Value		101.68 %		Pass
<b>Sample No:</b>	23N008315	Phosphate, Available as P2O5	52	51.99 %		Pass
		Commercial Value	137	136.17		
		Nitrogen, Total	11	11.08 %		Pass
		Overall Index Value		99.39 %		Pass
		Phosphate, Available as P2O5	52	51.47 %		Pass
<b>Product:</b>	MAP 11-52-0 Monoammonium Pho:					
<b>Sample No:</b>	23N009503					
		Commercial Value	137	138.76		
		Nitrogen, Total	11	10.82 %		Pass
		Overall Index Value		101.28 %		Pass
		Phosphate, Available as P2O5	52	53.14 %		Pass
<b>Product:</b>	Monoammonium Phosphate (MAP)					
<b>Sample No:</b>	23N008384					
		Commercial Value	137	136.58		
		Nitrogen, Total	11	10.78 %		Pass
		Overall Index Value		99.69 %		Pass
		Phosphate, Available as P2O5	52	52.11 %		Pass
<b>Product:</b>	Monoammonium Phosphate Map 11					
<b>Sample No:</b>	23N003614					
		Commercial Value	137	139.32		
		Nitrogen, Total	11	11.05 %		Pass
		Overall Index Value		101.70 %		Pass
		Phosphate, Available as P2O5	52	53.09 %		Pass
<b>Sample No:</b>	23N009501	Commercial Value	137	139.78		
		Nitrogen, Total	11	15.24 %		Pass
		Overall Index Value		102.03 %		Pass
		Phosphate, Available as P2O5	52	47.03 %		Deficient
<b>Product:</b>	Potash					
<b>Sample No:</b>	23N002332					
		Potash, Soluble as K2O	60	59.07 %		Pass
<b>Sample No:</b>	23N003640					

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Sample No:</b>	23N008685	Potash, Soluble as K2O	60	60.30 %	<b>Pass</b>
<b>Product:</b>	Urea				
<b>Sample No:</b>	23N001202	Potash, Soluble as K2O	60	63.60 %	<b>Pass</b>
<b>Manufacturer:</b>	<b>Nutrien Ag-Parkston</b>				
<b>Product:</b>	AMS				
<b>Sample No:</b>	23N005103	Nitrogen, Total	46	47.74 %	<b>Pass</b>
<b>Sample No:</b>	23N008759	Nitrogen, Total	21	10.92 %	<b>Deficient</b>
		Nitrogen, Total	21	20.66 %	<b>Pass</b>
		Sulfur	24	23.35 %	<b>Pass</b>
<b>Product:</b>	POTASH				
<b>Sample No:</b>	23N005104	Potash, Soluble (STPB) as K2O	60	58.26 %	<b>Pass</b>
<b>Sample No:</b>	23N008761	Potash, Soluble as K2O	60	60.39 %	<b>Pass</b>
<b>Manufacturer:</b>	<b>Nutrien-Saskatoon</b>				
<b>Product:</b>	0-0-60 Dry Potash Fertilizer				
<b>Sample No:</b>	23N002969	Potash, Soluble as K2O	60	61.16 %	<b>Pass</b>
<b>Manufacturer:</b>	<b>PCS Sales Inc--Deerfield</b>				
<b>Product:</b>	Potash				
<b>Sample No:</b>	23N002776	Potash, Soluble as K2O	60	60.01 %	<b>Pass</b>
<b>Product:</b>	Potash 0-0-60				
<b>Sample No:</b>	23N008383	Potash, Soluble as K2O	60	61.34 %	<b>Pass</b>
<b>Product:</b>	Potash: 00-00-60				
<b>Sample No:</b>	23N001878	Potash, Soluble as K2O	60	59.07 %	<b>Pass</b>
<b>Manufacturer:</b>	<b>Pearl Valley Organix, Inc.</b>				
<b>Product:</b>	Chick N Poo Organic Plant Starter F				
<b>Sample No:</b>	23N006565	Commercial Value	17	21.14	

<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Nitrogen, Total	2.0	3.38	%	Pass
Overall Index Value		124.34	%	Pass
Phosphate, Available as P2O5	4.0	3.80	%	Pass
Potash, Soluble as K2O	3.0	3.39	%	Pass

**Manufacturer:** Potash Corp of Saskatchewan-  
**Product:** Potash

**Sample No:** 23N001243

Potash, Soluble as K2O 60 60.36 % Pass

**Sample No:** 23N002111

Potash, Soluble as K2O 60 59.98 % Pass

**Sample No:** 23N002559

Potash, Soluble as K2O 60 58.46 % Pass

**Manufacturer:** Potash Corp-SCity  
**Product:** Potash

**Sample No:** 23N001700

Potash, Soluble (STPB) as K2O 57.29 % Deficient

**Sample No:** 23N002567

Potash, Soluble as K2O 60 59.26 % Pass

**Sample No:** 23N010035

Potash, Soluble as K2O 60 60.50 % Pass

**Manufacturer:** Scotts Miracle-Gro Products  
**Product:** All Purpose Plant Food

**Sample No:** 23N006557

Boron, Acid Soluble 0.02 0.02 % Pass

Commercial Value 104 110.68

Copper 0.07 0.08 % Pass

Iron 0.15 0.18 % Pass

Manganese, Acid Soluble 0.05 0.05 % Pass

Nitrogen, Total 24 26.19 % Pass

Overall Index Value 106.42 % Pass

Phosphate, Available as P2O5 8 8.22 % Pass

Potash, Soluble as K2O 16 15.66 % Pass

Zinc, Acid Soluble 0.06 0.06 % Pass

Zinc, Water Soluble 0.06 0.06 % Pass

**Product:** Liquid All Purpose Plant Food

**Sample No:** 23N006560

<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Commercial Value	52	52.46	
Iron	0.10	0.12 %	Pass
Manganese, Acid Soluble	0.05	0.06 %	Pass
Nitrogen, Total	12	12.17 %	Pass
Overall Index Value		100.88 %	Pass
Phosphate, Available as P2O5	4	4.02 %	Pass
Potash, Soluble	8	7.91 %	Pass
Zinc, Acid Soluble	0.05	0.06 %	Pass
Zinc, Chelated	0.05	0.06 %	Pass

**Product:** miracid

**Sample No:** 23N004255

Boron, Acid Soluble	0.02	0.02 %	Pass
Commercial Value	120	123.28	
Copper	0.07	0.09 %	Pass
Iron	0.325	0.48 %	Pass
Manganese, Acid Soluble	0.05	0.06 %	Pass
Nitrogen, Total	30	29.88 %	Pass
Overall Index Value		102.73 %	Pass
Phosphate, Available as P2O5	10	11.40 %	Pass
Potash, Soluble as K2O	10	10.84 %	Pass
Zinc, Acid Soluble	0.07	0.08 %	Pass
Zinc, Water Soluble	0.07	0.08 %	Pass

**Product:** Miracle Grow Water Soluble All Purp

**Sample No:** 23N006937

Boron, Acid Soluble	0.02	0.02 %	Pass
Commercial Value	104	107.17	
Copper	0.07	0.09 %	Pass
Iron	0.15	0.18 %	Pass
Manganese, Acid Soluble	0.05	0.06 %	Pass
Nitrogen, Total	24	24.98 %	Pass
Overall Index Value		103.05 %	Pass
Phosphate, Available as P2O5	8	8.27 %	Pass
Potash, Soluble as K2O	16	15.69 %	Pass
Zinc, Acid Soluble	0.06	0.06 %	Pass
Zinc, Water Soluble	0.06	0.68 %	Pass

**Product:** Miracle-Gro Garden Feeder

Sample No:		Analyte	Claim	Found Unit	Disposition
23N005944		Boron, Acid Soluble	.02	0.02 %	Pass
		Commercial Value	104	110.07	
		Copper	0.07	0.08 %	Pass
		Iron	0.15	0.17 %	Pass
		Nitrogen, Total	24	26.17 %	Pass
		Overall Index Value		105.84 %	Pass
		Phosphate, Available as P2O5	8	8.03 %	Pass
		Potash, Soluble as K2O	16	15.51 %	Pass
		Zinc, Acid Soluble	0.06	0.06 %	Pass
		Zinc, Water Soluble	0.06	0.07 %	Pass
<b>Product:</b> Miracle-Gro Liquid All Purpose Plan					
Sample No:	23N006567				
		Commercial Value	52	52.58	
		Iron	0.10	0.12 %	Pass
		Manganese, Acid Soluble	0.05	0.06 %	Pass
		Nitrogen, Total	12	12.19 %	Pass
		Overall Index Value		101.11 %	Pass
		Phosphate, Available as P2O5	4	4.07 %	Pass
		Potash, Soluble	8	7.86 %	Pass
		Zinc, Acid Soluble	0.05	0.06 %	Pass
		Zinc, Chelated	0.05	0.05 %	Pass
<b>Product:</b> Miracle-Gro Performance Organics					
Sample No:	23N007150				
		Calcium	2	2.71 %	Pass
		Commercial Value	38	38.07	
		Magnesium, Acid Soluble	0.5	0.68 %	Pass
		Magnesium, Water Soluble	0.12	0.27 %	Pass
		Nitrogen, Total	9	8.77 %	Pass
		Overall Index Value		100.17 %	Pass
		Phosphate, Available as P2O5	2	2.26 %	Pass
		Potash, Soluble as K2O	7	7.23 %	Pass
		Sulfur	1	3.51 %	Pass
<b>Product:</b> Miracle-Gro Performance Organics					
Sample No:	23N006453				
		Calcium	2	2.38 %	Pass



<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Commercial Value	38	39.22	
Magnesium, Acid Soluble	0.50	0.65 %	Pass
Magnesium, Water Soluble	0.12	0.26 %	Pass
Nitrogen, Total	9	9.38 %	Pass
Overall Index Value		103.22 %	Pass
Phosphate, Available as P2O5	2	2.17 %	Pass
Potash, Soluble as K2O	7	6.75 %	Pass
Sulfur	1	1.84 %	Pass

**Product:** performance organics

**Sample No:** 23N004260

Calcium	3	4.38 %	Pass
Commercial Value	47	49.37	
Copper	0.05	0.06 %	Pass
Iron	0.10	0.19 %	Pass
Manganese, Acid Soluble	0.05	0.06 %	Pass
Manganese, Water Soluble	0.05	0.03 %	Deficient
Manganese, Water Soluble	0.05	0.04 %	
Nitrogen, Total	11	10.97 %	Pass
Overall Index Value		105.05 %	Pass
Phosphate, Available as P2O5	3	4.05 %	Pass
Potash, Soluble as K2O	8	8.35 %	Pass
Zinc, Acid Soluble	0.05	0.06 %	Pass
Zinc, Water Soluble	0.05	0.06 %	Pass

**Product:** plant food

**Sample No:** 23N004251

Boron, Acid Soluble	0.02	0.02 %	Pass
Commercial Value	104	110.19	
Copper	0.07	0.09 %	Pass
Iron	0.15	0.21 %	Pass
Manganese, Acid Soluble	0.05	0.06 %	Pass
Nitrogen, Total	24	25.68 %	Pass
Overall Index Value		105.95 %	Pass
Phosphate, Available as P2O5	8	8.54 %	Pass
Potash, Soluble as K2O	16	16.07 %	Pass
Zinc, Water Soluble	0.06	0.06 %	Pass

**Product:** plant food spikes

Sample No:	23N006562	Analyte	Claim	Found Unit	Disposition
		Boron, Acid Soluble	0.02	0.02 %	Pass
		Commercial Value	48	55.18	
		Copper	0.05	0.05 %	Pass
		Iron	0.15	0.37 %	Pass
		Magnesium, Acid Soluble	0.50	0.76 %	Pass
		Magnesium, Water Soluble	0.50	0.64 %	Pass
		Manganese, Acid Soluble	0.05	0.05 %	Pass
		Manganese, Water Soluble	0.05	0.05 %	Pass
		Nitrogen, Total	6	6.95 %	Pass
		Overall Index Value		114.97 %	Pass
		Phosphate, Available as P2O5	12	14.36 %	Pass
		Potash, Soluble as K2O	6	5.61 %	Pass
		Sulfur	2	2.69 %	Pass
		Zinc, Acid Soluble	0.05	0.05 %	Pass
		Zinc, Chelated	0.05	0.05 %	Pass

**Product:** Plant Food Vegetables & Herbs

**Sample No:** 23N004262

Boron, Acid Soluble	0.02	0.02 %	Pass
Commercial Value	111	116.95	
Copper	0.05	0.05 %	Pass
Iron	0.10	0.12 %	Pass
Magnesium, Acid Soluble	0.50	0.60 %	Pass
Magnesium, Water Soluble	0.50	0.52 %	Pass
Manganese, Acid Soluble	0.05	0.06 %	Pass
Nitrogen, Total	18	20.36 %	Pass
Overall Index Value		105.36 %	Pass
Phosphate, Available as P2O5	18	17.73 %	Pass
Potash, Soluble as K2O	21	20.42 %	Pass
Zinc, Acid Soluble	0.05	0.05 %	Pass
Zinc, Water Soluble	0.05	0.05 %	Pass

**Product:** Plant Food Vegetables & Herbs 18-

**Sample No:** 23N006580

Boron, Acid Soluble	0.02	0.02 %	Pass
Commercial Value	111	110.72	
Copper	0.05	0.07 %	Pass

<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Iron	0.10	0.16 %	Pass
Magnesium, Acid Soluble	0.50	0.51 %	Pass
Magnesium, Water Soluble	0.50	0.51 %	Pass
Manganese, Acid Soluble	0.05	0.06 %	Pass
Nitrogen, Total	18	18.04 %	Pass
Overall Index Value		99.75 %	Pass
Phosphate, Available as P2O5	18	17.65 %	Pass
Potash, Soluble as K2O	21	21.28 %	Pass
Zinc, Acid Soluble	0.05	0.06 %	Pass
Zinc, Water Soluble	0.05	0.05 %	Pass

**Product:** Pour & Feed Singles

**Sample No:** 23N006559

Phosphate, Available as P2O5	0.02	0.03 %	Pass
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**Product:** tomato plant food

**Sample No:** 23N004257

Commercial Value	111	120.74	
Copper	0.05	0.05 %	Pass
Iron	0.10	0.12 %	Pass
Magnesium, Acid Soluble	0.50	0.47 %	Pass
Magnesium, Water Soluble	0.50	0.48 %	Pass
Manganese, Acid Soluble	0.05	0.05 %	Pass
Nitrogen, Total	18	20.58 %	Pass
Overall Index Value		108.77 %	Pass
Phosphate, Available as P2O5	18	18.55 %	Pass
Potash, Soluble as K2O	21	21.89 %	Pass
Zinc, Acid Soluble	0.05	0.05 %	Pass
Zinc, Water Soluble	0.05	0.05 %	Pass

**Manufacturer:** SGS Great Plains

**Product:** MAP

**Sample No:** 23N002336

Commercial Value	137	137.78	
Nitrogen, Total	11	10.62 %	Pass
Overall Index Value		100.57 %	Pass
Phosphate, Available as P2O5	52	52.95 %	Pass

**Manufacturer:** Simplot--Sioux City, IA

**Product:** 40 Rock

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Sample No:</b>	23N002110				
		Commercial Value	116	117.77	
		Nitrogen, Total	12	12.05 %	<b>Pass</b>
		Overall Index Value		101.53 %	<b>Pass</b>
		Phosphate, Available as P2O5	40	40.81 %	<b>Pass</b>
<b>Product:</b>	MAP				
<b>Sample No:</b>	23N007201				
		Commercial Value	137	133.70	
		Nitrogen, Total	11	11.55 %	<b>Pass</b>
		Overall Index Value		97.59 %	<b>Deficient</b>
		Phosphate, Available as P2O5	52	49.52 %	<b>Deficient</b>
<b>Sample No:</b>	23N008760				
		Commercial Value	137	134.59	
		Nitrogen, Total	11	10.92 %	<b>Pass</b>
		Overall Index Value		98.24 %	<b>Pass</b>
		Phosphate, Available as P2O5	52	50.91 %	<b>Pass</b>
<b>Sample No:</b>	23N010038				
		Commercial Value	137	128.10	
		Nitrogen, Total	11	10.78 %	<b>Pass</b>
		Overall Index Value		93.51 %	<b>Deficient</b>
		Phosphate, Available as P2O5	52	47.88 %	<b>Deficient</b>
<b>Manufacturer:</b>	SimplyGro LLC				
<b>Product:</b>	Old Farmers Almanac Tree and Shr				
<b>Sample No:</b>	23N006141				
		Commercial Value	48	45.92	
		Nitrogen, Total	13.0	10.66 %	<b>Deficient</b>
		Overall Index Value		95.66 %	<b>Deficient</b>
		Phosphate, Available as P2O5	3.0	5.20 %	<b>Pass</b>
		Potash, Soluble as K2O	3.0	3.56 %	<b>Pass</b>
<b>Product:</b>	The Old Farmer's Almanac Tomato				
<b>Sample No:</b>	23N006569				
		Commercial Value	40	41.58	
		Nitrogen, Total	8.0	9.02 %	<b>Pass</b>
		Overall Index Value		103.95 %	<b>Pass</b>
		Phosphate, Available as P2O5	4.0	3.89 %	<b>Pass</b>
		Potash, Soluble as K2O	8.0	6.75 %	<b>Deficient</b>

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Manufacturer: Skyline Encap Holdings LLC</b>				
<b>Product: Earth Science Eco Friendly Growth</b>				
<b>Sample No: 23N005976</b>				
	Calcium	15.0	13.17 %	<b>Deficient</b>
	Iron	9.0	9.09 %	<b>Pass</b>
	Sulfur	12.0	31.29 %	<b>Pass</b>
<b>Product: Earth Science Eco Friendly Growth</b>				
<b>Sample No: 23N005987</b>				
	Calcium	12.0	13.19 %	<b>Pass</b>
	Sulfur	36.0	37.89 %	<b>Pass</b>
<b>Product: EARTHSCIENCE Fast Acting Iron fr</b>				
<b>Sample No: 23N006944</b>				
	Calcium	15.0	12.84 %	<b>Deficient</b>
	Iron	9.0	8.89 %	<b>Pass</b>
	Sulfur	12.0	33.49 %	<b>Pass</b>
<b>Manufacturer: Sun Bulb Company</b>				
<b>Product: Dynamite Cactus &amp; Succulent Food</b>				
<b>Sample No: 23N005570</b>				
	Boron, Acid Soluble	0.02	0.03 %	<b>Pass</b>
	Commercial Value	74	83.09	
	Copper	0.05	0.06 %	<b>Pass</b>
	Iron	0.20	0.43 %	<b>Pass</b>
	Magnesium, Acid Soluble	1.20	1.66 %	<b>Pass</b>
	Magnesium, Water Soluble	1.20	1.69 %	<b>Pass</b>
	Manganese, Acid Soluble	0.06	0.12 %	<b>Pass</b>
	Manganese, Water Soluble	0.06	0.10 %	<b>Pass</b>
	Nitrogen, Total	18.00	20.76 %	<b>Pass</b>
	Overall Index Value		112.28 %	<b>Pass</b>
	Phosphate, Available as P2O5	6.00	6.51 %	<b>Pass</b>
	Potash, Soluble as K2O	8.00	7.79 %	<b>Pass</b>
	Sulfur	4.00	5.37 %	<b>Pass</b>
<b>Manufacturer: Swiss Farms Products Inc</b>				
<b>Product: Lawn Fertilizer 29-0-4</b>				
<b>Sample No: 23N004332</b>				

<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Commercial Value	91	102.04	
Nitrogen, Total	29.0	32.70 %	Pass
Overall Index Value		112.13 %	Pass
Potash, Soluble as K2O	4.0	3.95 %	Pass

**Product:** Vigoro Azalea, Camellia, & Rhodod

**Sample No:** 23N004652

Boron, Acid Soluble	0.02	0.03 %	Pass
Commercial Value	54	57.33	
Copper	0.05	0.04 %	Pass
Iron	1.5	2.20 %	Pass
Magnesium, Acid Soluble	1.5	1.92 %	Pass
Magnesium, Water Soluble	1.5	1.63 %	Pass
Manganese, Acid Soluble	0.05	0.12 %	Pass
Nitrogen, Total	10.0	11.22 %	Pass
Overall Index Value		106.17 %	Pass
Phosphate, Available as P2O5	8.0	7.97 %	Pass
Potash, Soluble as K2O	8.0	7.73 %	Pass
Sulfur	5.0	7.43 %	Pass
Zinc, Acid Soluble	0.05	0.15 %	Pass
Zinc, Water Soluble	0.01	0.11 %	Pass

**Product:** Vigoro Tomato and Vegetable Gard

**Sample No:** 23N004650

Boron, Acid Soluble	0.02	0.03 %	Pass
Calcium	3.0	9.72 %	Pass
Commercial Value	61	63.89	
Copper	0.05	0.09 %	Pass
Iron	1.0	1.95 %	Pass
Magnesium, Acid Soluble	3.0	4.30 %	Pass
Magnesium, Water Soluble	1.5	1.83 %	Pass
Manganese, Acid Soluble	0.05	0.07 %	Pass
Nitrogen, Total	12.0	12.57 %	Pass
Overall Index Value		104.74 %	Pass
Phosphate, Available as P2O5	10.0	10.66 %	Pass
Potash, Soluble as K2O	5.0	4.86 %	Pass
Sulfur	5.0	6.80 %	Pass
Zinc, Acid Soluble	0.05	0.19 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> Vigoro Tree, Shrub & Evergreen Fei	Zinc, Water Soluble	0.01	0.16 %	<b>Pass</b>
<b>Sample No:</b> 23N004651				
	Boron, Acid Soluble	0.02	0.02 %	<b>Pass</b>
	Commercial Value	64	63.40	
	Copper	0.05	0.05 %	<b>Pass</b>
	Iron	1.0	1.42 %	<b>Pass</b>
	Manganese, Acid Soluble	0.05	0.08 %	<b>Pass</b>
	Nitrogen, Total	16.0	15.79 %	<b>Pass</b>
	Overall Index Value		99.06 %	<b>Pass</b>
	Phosphate, Available as P2O5	4.0	4.11 %	<b>Pass</b>
	Potash, Soluble as K2O	8.0	7.82 %	<b>Pass</b>
	Zinc, Acid Soluble	0.05	0.19 %	<b>Pass</b>
	Zinc, Water Soluble	0.01	0.14 %	<b>Pass</b>
<b>Manufacturer:</b> Texas International Terminals				
<b>Product:</b> MAP				
<b>Sample No:</b> 23N003319				
	Commercial Value	137	137.57	
	Nitrogen, Total	11	12.79 %	<b>Pass</b>
	Overall Index Value		100.42 %	<b>Pass</b>
	Phosphate, Available as P2O5	52	49.60 %	<b>Deficient</b>
<b>Manufacturer:</b> ThorAg-Shoreview				
<b>Product:</b> AMS				
<b>Sample No:</b> 23N002330				
	Nitrogen, Total	21	21.62 %	<b>Pass</b>
	Sulfur	24	24.52 %	<b>Pass</b>
<b>Product:</b> Urea				
<b>Sample No:</b> 23N004644				
	Nitrogen, Total	46	49.37 %	<b>Pass</b>
<b>Manufacturer:</b> True Organic Products				
<b>Product:</b> Tru Organic Bone Meal (7-7-0)				
<b>Sample No:</b> 23N007118				
	Calcium	7	12.00 %	<b>Pass</b>
	Commercial Value	35	43.60	
	Nitrogen, Total	7	7.28 %	<b>Pass</b>
	Overall Index Value		124.56 %	<b>Pass</b>

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> True Organic Blood Meal	Phosphate, Available as P2O5	7	10.88 %	<b>Pass</b>
<b>Sample No:</b> 23N005941				
	Nitrogen, Total	12	13.68 %	<b>Pass</b>
<b>Manufacturer:</b> Van Diest				
<b>Product:</b> 00-00-00-90: Sulfur Mont 90%				
<b>Sample No:</b> 23N001875				
	Sulfur	90	90.90 %	<b>Pass</b>
<b>Manufacturer:</b> Voluntary Purchasing Groups,				
<b>Product:</b> All Purpose Fertilizer				
<b>Sample No:</b> 23N004274				
	Commercial Value	39	47.73	
	Nitrogen, Total	6	7.33 %	<b>Pass</b>
	Overall Index Value		122.39 %	<b>Pass</b>
	Phosphate, Available as P2O5	7	8.56 %	<b>Pass</b>
	Potash, Soluble as K2O	7	8.61 %	<b>Pass</b>
<b>Product:</b> Ferti-lome Acid Loving Plant Food (				
<b>Sample No:</b> 23N006086				
	Commercial Value	126	134.48	
	Iron	0.10	0.14 %	<b>Pass</b>
	Nitrogen, Total	31	30.34 %	<b>Pass</b>
	Overall Index Value		106.73 %	<b>Pass</b>
	Phosphate, Available as P2O5	11	16.42 %	<b>Pass</b>
	Potash, Soluble as K2O	11	10.63 %	<b>Pass</b>
<b>Product:</b> ferti-lome All Purpose Houseplant F				
<b>Sample No:</b> 23N005575				
	Commercial Value (STPB)	60	57.96	
	Nitrogen, Total	10	9.62 %	<b>Pass</b>
	Overall Index Value (STPB)		96.60 %	<b>Pass</b>
	Phosphate, Available as P2O5	10	9.80 %	<b>Pass</b>
	Potash, Soluble (STPB)	10	9.49 %	<b>Pass</b>
<b>Product:</b> Ferti-lome All Purpose Plant Food (				
<b>Sample No:</b> 23N006084				
	Commercial Value	120	131.56	
	Nitrogen, Total	20	19.09 %	<b>Deficient</b>
	Overall Index Value		109.63 %	<b>Pass</b>



	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> Ferti-lome Blooming & Rooting Plan				
<b>Sample No:</b> 23N006085				
	Phosphate, Available as P2O5	20	26.45 %	Pass
	Potash, Soluble as K2O	20	21.39 %	Pass
<b>Product:</b> ferti-lome Succulent & Cactus Plant				
<b>Sample No:</b> 23N005574				
	Commercial Value	151	152.05	
	Nitrogen, Total	9	9.00 %	Pass
	Overall Index Value		100.70 %	Pass
	Phosphate, Available as P2O5	58	58.31 %	Pass
	Potash, Soluble as K2O	8	8.42 %	Pass
<b>Product:</b> Tomato and Vegetable Food				
<b>Sample No:</b> 23N004273				
	Commercial Value	38	58.39	
	Nitrogen, Total	4	6.11 %	Pass
	Overall Index Value		153.66 %	Pass
	Phosphate, Available as P2O5	10	15.75 %	Pass
	Potash, Soluble as K2O	6	8.57 %	Pass
<b>Manufacturer:</b> VPG				
<b>Product:</b> All Purpose Fertilizer				
<b>Sample No:</b> 23N008701				
	Commercial Value	39	41.21	
	Nitrogen, Total	6	5.48 %	Pass
	Overall Index Value		105.67 %	Pass
	Phosphate, Available as P2O5	7	8.91 %	Pass
	Potash, Soluble as K2O	7	6.94 %	Pass
<b>Product:</b> Ferti.lome All Purpose Water Solubl				
<b>Sample No:</b> 23N000700				
	Commercial Value	120	123.01	
	Nitrogen, Total	20	19.98 %	Pass
	Overall Index Value		102.51 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
<b>Product:</b> ferti-lome Blooming & Rooting (9-58)				
<b>Sample No:</b> 23N001086				
	Phosphate, Available as P2O5	20	21.40 %	Pass
	Potash, Soluble as K2O	20	20.26 %	Pass
	Commercial Value	151	151.56	
	Nitrogen, Total	9	9.16 %	Pass
	Overall Index Value		100.37 %	Pass
	Phosphate, Available as P2O5	58	57.92 %	Pass
	Potash, Soluble as K2O	8	8.23 %	Pass
<b>Product:</b> Hi-Yield Blood Meal (12-0-0)				
<b>Sample No:</b> 23N007123				
	Nitrogen, Total	12	13.97 %	Pass
<b>Product:</b> Hi-Yield Soil Sulfur (90% Sulfur)				
<b>Sample No:</b> 23N007125				
	Sulfur	90.0	99.90 %	Pass
<b>Manufacturer:</b> WalMart Stores Inc				
<b>Product:</b> Tree and Shrub Evergreen Spikes				
<b>Sample No:</b> 23N004335				
	Commercial Value	54	63.32	
	Nitrogen, Total	15.0	15.56 %	Pass
	Overall Index Value		117.26 %	Pass
	Phosphate, Available as P2O5	3.0	5.84 %	Pass
	Potash, Soluble as K2O	3.0	4.98 %	Pass
<b>Manufacturer:</b> Warne Chemical & Equipment (				
<b>Product:</b> 15-25-10 Vegetable, Flower, New L				
<b>Sample No:</b> 23N007122				
	Commercial Value	105	104.60	
	Nitrogen, Total	15	15.01 %	Pass
	Overall Index Value		99.62 %	Pass
	Phosphate, Available as P2O5	25	24.80 %	Pass
	Potash, Soluble as K2O	10	9.96 %	Pass
<b>Product:</b> Pride 20-12-8 Tree Food fertilizer				
<b>Sample No:</b> 23N007124				
	Commercial Value	92	92.23	
	Nitrogen, Total	20	20.01 %	Pass
	Overall Index Value		100.25 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
		Phosphate, Available as P2O5	12	11.91	%	Pass
		Potash, Soluble as K2O	8	8.38	%	Pass
<b>Manufacturer:</b>	<b>Western Consolidated Coop--H</b>					
<b>Product:</b>	Urea					
<b>Sample No:</b>	23N001698					
		Nitrogen, Total	46.00	45.88	%	Pass
<b>Manufacturer:</b>	<b>Western Consolidated Coop--H</b>					
<b>Product:</b>	AMS 21-0-0-24					
<b>Sample No:</b>	23N008846					
		Nitrogen, Total	21	20.73	%	Pass
		Sulfur	24	23.68	%	Pass
<b>Product:</b>	MAP					
<b>Sample No:</b>	23N002777					
		Commercial Value	137	137.54		
		Nitrogen, Total	11	11.02	%	Pass
		Overall Index Value		100.40	%	Pass
		Phosphate, Available as P2O5	52	52.23	%	Pass
<b>Product:</b>	Urea					
<b>Sample No:</b>	23N008962					
		Nitrogen, Total	46	20.28	%	Deficient
<b>Sample No:</b>	23N009835					
		Nitrogen, Total	46	47.32	%	Pass
<b>Manufacturer:</b>	<b>Western Consolidated Coop--T</b>					
<b>Product:</b>	11-52-0					
<b>Sample No:</b>	23N003786					
		Commercial Value	137	138.13		
		Nitrogen, Total	11	12.41	%	Pass
		Overall Index Value		100.82	%	Pass
		Phosphate, Available as P2O5	52	50.44	%	Deficient
<b>Product:</b>	MAP					
<b>Sample No:</b>	23N002779					
		Commercial Value	137	139.67		
		Nitrogen, Total	11	11.46	%	Pass
		Overall Index Value		101.95	%	Pass
		Phosphate, Available as P2O5	52	52.65	%	Pass
<b>Product:</b>	Potash					

<u>Sample No:</u>	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
23N002778	Potash, Soluble as K2O	60	60.41 %	Pass
<b>Manufacturer: Wilbur Ellis-Huron</b>				
<b>Product: Potash</b>				
23N001637	Potash, Soluble as K2O	60	59.58 %	Pass
<b>Product: Urea</b>				
23N001638	Nitrogen, Total	46	45.54 %	Pass

Performed By:



Collected By:



DEPARTMENT of AGRICULTURE  
and NATURAL RESOURCES  
JOE FOSS BUILDING  
523 E CAPITOL AVE  
PIERRE SD 57501-3182  
danr.sd.gov

## 2023 Fertilizer Analyte Totals

<u>Analyte</u>	<u>Unit</u>	<u>Count</u>
Boron, Acid Soluble	%	36.00
Boron, Acid Soluble	%	1.00
Boron, Water Soluble	%	1.00
Calcium	%	23.00
Commercial Value	%	1.00
Commercial Value		257.00
Commercial Value (STPB)		1.00
Copper	%	42.00
Iron	%	74.00
Magnesium, Acid Soluble	%	29.00
Magnesium, Water Soluble	%	24.00
Manganese, Acid Soluble	%	57.00
Manganese, Water Soluble	%	19.00
Moisture	%	1.00
Molybdenum	%	1.00
Nitrogen, Total	%	423.00
Overall Index Value	%	258.00
Overall Index Value (STPB)	%	1.00
Phosphate, Available as P2O5	%	1.00
Phosphate, Available as P2O5	%	268.00
Potash, Soluble	%	33.00
Potash, Soluble as K2O	%	197.00
Potash, Soluble (STPB)	%	2.00
Potash, Soluble (STPB) as K2O	%	8.00
Sulfur	%	139.00
Sulfur, Gravimetric	%	1.00
Zinc, Acid Soluble	%	89.00

## 2023 Fertilizer Analyte Totals

<u>Analyte</u>	<u>Unit</u>	<u>Count</u>
Zinc, Chelated	%	18.00
Zinc, Water Soluble	%	34.00
<b>Total Fertilizer Analyses:</b>		<b>2,039.00</b>

Report Year 2023

<b>txtGrade</b>	<b>txtTotal</b>
.1-.75-.75-3-1	10.01
0.1-0.2-1.0	0.11
0.1-0-0.5	0.68
0.30-0.05-0.10	23.75
0.30-0.12-0.12	37.92
0.7-6-5	0.30
0-0-0	253,906.09
0-0-0.3.3	21.38
0-0-02	0.10
0-0-04	1.48
0-0-07	6.30
0-0-1	2.57
0-0-19	13.19
0-0-2	1.94
0-0-22	7.10
0-0-24	4.98
0-0-4	0.06
0-0-50	3,115.40
0-0-60	189,011.04
0-0-62	2,130.69
0-0-64	33.58
0-0-1	43.21
01.35-0.840-0	403.24
0-0-18	0.02
0-0-2	6.45
0-0-23-8	25.00
0-0-25	42.55
0-3-0	1,155.62
0-46-0	29.71
0-0-5	6.09
0-0-52-10	1.50
0-0-60	8,754.00
0-60-0	7.00
0-68-0	14,218.33
0-12-24	12.41
0-1-3	0.03
0-15-10	0.01
019-0-02	11.00
0-19-6	40.18
02-0-02	6.42
02-0-16	0.07
02-0-20	0.98
02-05-03	0.39
02-07-04	0.04
02-07-07	0.01
02-14-00	0.44
0-25-17	43.00
0-3-0	0.04
03-0-0	0.27
03-0-0-5.25	3.38
03-05-04	0.04
03-05-05	0.06
03-18-18	29.69

0-3-2	0.13
04-0-01	16.59
04-03-03	0.04
04-04-02	0.14
04-04-04	0.22
0-4-5	0.25
05-0-0	1.45
05-05-0	67.00
05-08-10	0.45
0-52-34	4.20
06-0-0	0.32
06-18-06	64.42
06-20-05	6.00
06-24-06	1,388.99
0-7-0	0.41
07-10-07	0.02
07-23-01	37.22
08-11-11	0.69
08-19-03	23.80
08-20-05	29.17
08-21-05	200.00
08-23-4	1,292.25
09-07-09	0.02
09-12-09	0.05
09-12-12	0.39
1-0-0	51.45
10-0-0	10.45
10-0-10	2.00
10-10-10	95.59
10-13-13	7.39
10-15-10	100.95
10-18-4	493.65
10-18-6	31.00
10-20-2	58.74
10-20-20	0.07
10-2-10	2.00
10-22-22	1.00
10-25-0	31.25
1-0-3	53.79
10-34-0	72,930.00
10-4-3	5.61
10-5-0	0.11
10-52-17	0.01
10-5-5	0.10
11-0-0	351.68
11-0-0-24	415.31
11-03-04	0.69
11-08-05	1.00
11-11-11	6.01
11-28-18	0.80
11-48-0	99.16
11-52-0	280,845.88
11-6-5	8.83
1-18-32	0.03
12-0-0	15,796.38



12-0-06	1.02
12-0-26	46.92
12-12-12	25.92
12-20-6	1.92
12-24-6	13.77
12-28-12	10.00
12-3-3	133.38
12-39-0-6	1,042.43
12-40-0	1,598.33
12-40-0-10-1	2,330.67
12-44-10	11.38
12-51-0	29,201.70
12-58-0	6.05
12-61-0	6.60
12-9-6	0.77
13-0-0	1.00
13-03-04	0.46
13-04-013	1.00
13-04-05	0.03
13-0-5	19.75
13-0-6	23.00
13-13-13	92.30
13-3-40	0.55
1-3-5	0.27
13-5-8	4.01
13-8-13	0.02
1-4-.5	0.48
14-0-0	14.96
14-14-14	0.10
14-20-04	0.20
14-2-4	0.03
1-4-3	0.03
15-0-0	91.69
15-0-0-6	3.20
15-0-1	27.00
15-03-03	0.50
15-0-4	57.00
15-0-5	120.98
15-0-5-.10	18.00
15-23-10	17.00
15-60-0	2,375.94
16-04-04	0.42
16-0-8	0.05
16-0-9	0.06
16-16-16	13.90
16-20-0	1,137.71
16-4-8	1.20
17-0-05	101.21
17-0-0-7	232.88
17-0-3	97.83
17-0-4	5.00
17-0-5	193.74
17-4-17	2.00
18-0-06	1.03
18-0-3	71.90

18-03-06	0.02
18-0-4	22.11
18-0-6	5.90
18-3-2	35.33
18-46-0	55,330.60
19-0-0	27.31
19-0-2	107.08
19-0-3	3.84
19-0-4	8.00
19-0-5	3.00
19-0-6	8.00
19-19-19	13.00
20.5-0-0	2,622.66
2-0-0	0.97
20-0-0	21,520.03
20-0-5	22.00
20-0-7.5	2.90
20-0-9	41.90
2-0-10	18.07
20-10-20	1.00
20-12-8	8.20
20-14-12-6	94.60
2-0-16	1.00
2-0-2	4.09
20-20-10	1.00
20-20-20	6.50
20-21-20	0.01
20-27-5	0.06
20-3-19	2.00
20-7-10	12.00
2-1-0	2.08
2-10-0	0.53
21-0-0	134,118.92
21-0-4	24.00
21-0-5	34.00
21-0-6	3.71
21-0-8	0.05
2-1-1	0.01
21-22-4	0.40
2-12-28	0.03
21-5-20	3.00
2-1-6	547.55
2-16-14	278.00
21-8-10	10.00
2-2-0	121.59
22-0-10	108.04
22-0-11	6.05
22-0-3	11.00
22-0-4	38.92
22-0-5	10.35
22-0-6	6.00
2-2-1	4,694.00
23-0-10	17.00
2-4-5	0.02
24-0-0	196.80

24-0-0-4	1,720.24
24-0-11	0.66
24-0-14	0.06
24-0-16	0.04
2-40-28	25.00
2-40-28-.2	2.00
24-0-3	40.00
24-0-4	170.38
24-3-11	26.00
24-5-10	41.00
25-0-0	113.34
25-0-0-0-.5	2.63
25-0-05	154.00
25-0-15	151.33
25-0-5	614.38
25-0-6	10.72
25-0-8	24.28
25-10-10	0.08
25-14-9	24.00
26-0-0	46.75
26-0-3	174.10
26-0-4	55.00
26-0-6	0.06
27-0-0	9,076.11
27-0-2	0.67
27-0-3	42.66
27-0-8	3.35
28-0-0	165,680.64
28-0-12	0.12
28-0-3	207.97
28-03-10	47.00
2-8-20	5.17
28-3-10	202.63
3.5-3-1	1,216.50
30-0-0	181.36
30-0-10	10.00
3-0-3	0.95
30-0-3	119.40
30-0-4	0.67
30-0-5	0.23
30-0-6	47.25
3-0-1	4.00
3-0-20	73.70
3-0-3	12.64
3-0-4	82.00
30-4-8	0.03
30-7-10	26.00
3-0-8	1.10
31-0-0	42.00
3-1-1	0.56
3-14-14	240.73
3-15-15	207.48
3-16-18	6.58
3-18-18	38.25
32-0-0	200,977.26

32-0-10	3.78
32-0-4	41.90
32-5-7	131.65
32-7-7	26.00
3-3-9	3.26
34-0-0	3,922.08
34-0-6	7.20
35-0-10	8.00
37-0-0	8.63
38-0-0	1.00
4-0-0	295.45
4-0-0-9	15.92
4-0-1	0.23
4-0-10	0.50
4-0-20	6.95
4-0-3	1,042.00
4-0-5	0.30
4-13-17-1	70.31
4-15-15	14.17
4-15-3	8.69
4-2-0	0.02
4-3-0	19.20
4-3-2	1.78
44-0-0	2,064.63
4-4-4	299.00
45-0-0	0.05
46-0-0	722,340.45
4-6-4	2.00
4-7-7	26.97
5-0-0-8-1	0.27
5-10-27	5.00
5-11-6-.25-1.04-.67-	36.27
5-3-2	582.00
5-5-0	91.00
5-5-5	0.01
6-0-0	248.67
6-18-6	1,202.53
6-20-5	1,424.06
6-2-2	183.29
6-22-2	134.80
6-24-6	3,423.34
6-4-3	0.14
6-8-9	0.45
7-0-0	186.86
7-0-0-8	253.07
7-1-2	0.05
7-12-1	5.35
7-12-2	0.43
7-17-0	1.00
7-20-5	1,766.83
7-21-3	567.00
7-23-1	191.77
7-23-1-0.46	24.52
7-23-5	471.16
7-28-4	19.74

7-29-5	62.26
7-4-14	6.01
8-0-0	30.96
8-0-0-10	45.35
8-0-50	1.79
8-10-2	1.41
8-14-8	124.26
8-16-11	63.81
8-16-11-2	50.00
8-16-9-1-.5	2,344.17
8-19-3	32.42
82-0-0	18,331.14
8-21-5	219.95
8-23-4	873.85
8-2-4	7.00
8-24-4	456.55
8-29-2	78.90
8-30-20	1.69
8-32-5	0.20
8-5-3	13.14
9-0-0-13	13.89
9-0-5	1.00
9-14-9	0.02
9-15-4	250.59
9-18-9	131.80
9-22-16	1.00
9-24-3	5,630.33
9-53-0	1.00
Manure	44,354.59
	<b>2,303,281.39</b>