

FERTILIZER
ANNUAL REPORT

JANUARY 1, 2022

TO

DECEMBER 31, 2022



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2022 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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2022 Fertilizer Manufacturer Sample Totals

Manufacturer:

ADM Fertilizer-Marion	Marion			SD		
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samp</u>
	13.	0.00	0.00	3.00	16	7
ADM Fertilizer-Minneapolis-S 8th St	Minneapolis			MN		
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samp</u>
	10.		00.00	2.00	12	4
ADM Fertilizer-St. Paul, MN	St. Paul			MN		
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samp</u>
	5.		00.00	1.00	6	3
Ag First-Aurora	Aurora			SD		
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samp</u>
	32.		00.00	7.00	39	7
Agrium-Chicago, IL	Chicago			IL		
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samp</u>
	4.		00.00	1.00	5	2
Agrium-Loveland, CO	Loveland			CO		
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samp</u>
	3.		00.00	1.00	4	1
Agtegra Coop-Aberdeen	Aberdeen			SD		
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samp</u>
	3.		00.00	1.00	4	1
Agtegra Coop-Wolsey	Wolsey			SD		

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	11.	1.	02.00		14	2
Agtegra-Bristol	Bristol		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	4.	0.	01.00		5	1
Agtegra-Chamberlain	Chamberlain		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	8.	0.	02.00		10	4
Agtegra-Herreid	Herreid		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	3.	0.	00.00		3	2
Agtegra-Kennebec	Kennebec	Total F	SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	8.	0.	01.00		9	5
Agtegra-McLaughlin	McLaughlin	Total F	SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	17.	2.	04.00		23	8
Agwrx Cooperative-Webster	Webster		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	4.	0.	01.00		5	1
Alcester Fertilizer	Alcester		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	7.	0.	01.00		8	4
American Plant Food Corp	Galena Park	Total F	TX			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	6.	0.	00.00		6	3
Ameropa North America	Tampa		FL			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	3.	0.	00.00		3	2
Aughenbaugh Farms	Iroquois		SD			

Manufacturer:

	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	3.	0.	0.1.00	4		1
Aurora Coop	Aurora		NE			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0.	00.00	1		1
Big Soo Terminal	Sioux City		IA			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	18.	0.	0.1.00	19		11
Castlewood Farmers Elevator	Castlewood Total		SD			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	2.	2.	0.1.00	5		1
Central Farmers Coop-Marion	Marion		SD			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0.	00.00	1		1
Central Farmers Coop-Viborg	Viborg		SD			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	2.	0.1.00	4		1
CF Industries-Chicago	Chicago		IL			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0.	00.00	1		1
CF Industries-Sergeant Bluff	Sergeant Bluff To		IA			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samples</u>
	28.	0.	0.1.00	29		
CHS CN Terminal	Brooten		MN			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samples</u>
	5.	0.	0.1.00	6		
CHS Inc	Peru		IL			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samples</u>
	8.	0.	0.1.00	9		
CHS INC. - St.Paul	St. Paul		MN			

Manufacturer:

	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0	00.00		1	1
CHS-Corsica	Corsica		SD			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	12.	5	03.00		20	7
CHS-Elkton	Elkton		SD			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	5.	2	01.00		8	1
CHS-Garretson	Garretson Total		SD			
	<u>Total Pa</u>	<u>Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	13.	1	03.00		17	8
CHS-Inver Grove Heights	Inver Grove Heights		MN			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0	00.00		1	1
CHS-Minneapolis	Minneapolis Total		MN			
	<u>Total Pa</u>	<u>Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0	00.00		1	1
CHS-St. Paul	St. Paul		MN			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	4.	0	01.00		5	2
CHS-Watertown-20th Ave	Watertown Total		SD			
	<u>Total Pa</u>	<u>Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samples</u>
	65.	0	012.00		77	
CHS-White Lake	White Lake Total		SD			
	<u>Total Pa</u>	<u>Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samples</u>
	11.	1	02.00		14	
CHS-Winona	Winona		MN			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samples</u>
	3.	0	01.00		4	
CHS-Worthing	Worthing		SD			

Manufacturer:

	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	2.	0.	00.00		2	1
Dakota Agrow	Plankinton		SD			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	7.	0.	01.00		8	4
Dakota Fertilizer-Canton	Canton		SD			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	7.	0.	01.00		8	4
Dell Rapids Coop Grain	Dell Rapids Total		SD			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	7.	0.	01.00		8	4
Deuel County Farmers Oil Union	Toronto		SD			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	18.	1.	03.00		22	4
Dr. Earth	Winters		CA			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	4.	0.	01.00		5	1
Easy Gardener Inc	Waco		TX			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	3.	2.	01.00		6	1
Estelline Coop	Estelline		SD			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	19.	1.	05.00		25	5
EuroChem North America Corp	Tulsa		OK			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	12.	0.	04.00		16	4
Farmers Coop Elevator-Avon	Avon		SD			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cance</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	7.	0.	01.00		8	4
Farmers Elevator-Humboldt	Humboldt		SD			

Manufacturer:

	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	2.	0.	00.00		2	1
Farmers Union Coop Oil Company-Bryant	Bryant		SD			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	9.	0.	02.00		11	2
Frit Industries	Ozark		AL			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0.	00.00		1	1
Full Circle Ag Doland	Doland		SD			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	5.	0.	01.00		6	2
Full Circle Ag-Groton	Groton		SD			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0.	00.00		1	1
Full Circle Ag-Hecla	Hecla		SD			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	4.	0.	02.00		6	3
Gavilon-Hastings, NE	Hastings	<u>Total F</u>	NE			
	<u>Total Pa</u>		<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0.	00.00		1	1
Gavilon-Savannah	Savannah	<u>Total</u>	GA			
	<u>Total Pa</u>	<u>Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	9.	0.	02.00		11	3
GroTec Inc.	Madison		GA			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	4.	0.	01.00		5	1
Growmark FS	Yankton		SD			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	20.	0.	03.00		23	7
Helena Chemical Company	Collierville		TN			

Manufacturer:

	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>		<u>Total Te</u>	<u>Total Samp</u>
	16.	2.	02.00		20		7
Helena Agri-Enterprises, LLC	Madison		SD				
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>		<u>Total Te</u>	<u>Total Samp</u>
	8.	2.	02.00		12		5
Helena Agri-Enterprises-Iroquios	Iroquios		SD				
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>		<u>Total Te</u>	<u>Total Samp</u>
	4.	1.	01.00		6		1
Helena Chemical Company-TN	Collierville Total		TN				
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>		<u>Total Te</u>	<u>Total Samp</u>
	2.	0.	00.00		2		1
Itafos Conda-Houston	Houston		TX				
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>		<u>Total Te</u>	<u>Total Samp</u>
	4.	0.	01.00		5		1
JR Simplot Company-Boise	Boise		ID				
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>		<u>Total Te</u>	<u>Total Samp</u>
	10.	0.	02.00		12		2
Koch Fertilizer LLC-Wichita	Wichita		KS				
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>		<u>Total Te</u>	<u>Total Samp</u>
	1.	0.	00.00		1		1
Koch Fertilizer, LLC-Brandon	Brandon		SD				
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>		<u>Total Te</u>	<u>Total Samp</u>
	1.	0.	00.00		1		1
Kugler-RCity	Rapid City Total		SD				
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>		<u>Total Te</u>	<u>Total Samp</u>
	5.	1.	01.00		7		2
LaBolt Farmers Grain	LaBolt		SD				
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>		<u>Total Te</u>	<u>Total Samp</u>
	4.	0.	01.00		5		1
Lilly Miller Brands	Atlanta		GA				

Manufacturer:

	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	4.	0.	0.1.00		5	1
Loveland Products, Inc.	Fairbury		NE			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0.	00.00		1	1
Micro Source LLC	Shakopee		MN			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	4.	1.	00.00		5	3
Miracle Grow	Maryville Total F		MD			
	<u>Total Pa</u>		<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	24.	0.	03.00		27	3
Miracle-Gro Lawn Inc - Maryville	Maryville Total F		OH			
	<u>Total Pa</u>		<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	8.	0.	02.00		10	2
Mosaic Potash-Carlsbad	Carlsbad Total F		NM			
	<u>Total Pa</u>		<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	7.	0.	00.00		7	2
Mosaic-Atlanta	Atlanta Total F		GA			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	13.	0.	03.00		16	3
Mosaic-Browntown	Browntown Total F		MN			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	1.	0.	00.00		1	1
Mosaic-Esterhazy	Esterhazy Total F		Saskatchewan Total No			
	<u>Total Pa</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	5.	0.	0.1.00		6	6
Mosaic-Lithia	Lithia Total F		FL			
	<u>Total Pa</u>	<u>Total F</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Te</u>	<u>Total Samp</u>
	7.	0.	0.1.00		8	3
Mosaic-Mulberry	Mulberry		FL			

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	0.	0.1.00	4		1
Mosaic-Rosemount	Rosemount	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>
	52.	4.	0.14.00	70		
Mosaic-West Bartlow	West Bartlow	FL				
	<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	0.	0.1.00	6		
Nachurs Alpine Solutions	Marion	OH				
	<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.	4.	0.4.00	20		
Nutrien Ag-Parkston	Parkston	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>
	17.	0.	0.2.00	19		
Nutrien Ag-Vermillion-317th St	Vermillion	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>
	1	0.	0.0.00	1		
Nutrien PCS Sales	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>
	1	0.	0.0.00	1		
Parkston Agland Coop	Parkston	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>
	7	0.	0.1.00	8		
PCI Nitrogen	Pasadena	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>
	2	0.	0.0.00	2		
PCS Sales, Inc	Sylvite	SK				
	<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	0.	0.0.00	2		
Performance Ag/Simplot	Highmore	SD				

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	5.	0.	0.1.00	6		1
Potash Corp of Saskatchewan Inc	Saskatoon		Canada			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	2.	0	00.00	2		2
Prairie Ag Partners-Lake Preston	Lake Preston		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	36.	0.	07.00	43		8
Prescription Agronomics	Ipswich		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	22.	0.	03.00	25		7
Ramsdells	Brookings Total		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	1.	0.	00.00	1		1
SBM Life Science Corp	Cary		NC			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	6.	0.	0.1.00	7		1
Scotts Miracle Gro	Maryville Total Fa		OH			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	29.	1.	05.00	35		5
Simplot-IL	Chicago		IL			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	5.	0.	0.1.00	6		1
Simplot-Pocatello	Pocatello Total Fa		ID			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	6.	0.	02.00	8		2
Sinai Coop Elevator	Sinai		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Test</u>	<u>Total Sample</u>
	9.	1.	02.00	12		2
Southeast Farmer's Coop-Burbank	Burbank		SD			

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	19.	0.	03.00		22	8
Tabor Lumber Coop	Lesterville		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	11.	1.	02.00		14	5
The Andersons	Maumee		OH			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	14.	0.	02.00		16	3
The Espoma Company	Millville		NJ			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	20.	1.	03.00		24	4
The Scotts Company	Maryville		OH			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	35.	0.	04.00		39	4
TruGreen	Rapid City		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	0.	0.	02.00		2	1
Tulare Fertilizer	Hitchcock		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	2.	0.	00.00		2	2
Ultra Yield Micronutrients	Moxee		WA			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	1.	1.	00.00		2	1
Van Diest	Webster City		IA			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	2.	0.	00.00		2	2
Volga Ag Center	Volga		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	12.	1.	02.00		15	3
VPG	BonHam		TX			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Cancel</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>	
	40.00	01.00	5			1
West-Con Cooperative	Holloway	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>
	40.00	01.00	5			2
Western Consolidated Coop	Holloway	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>
	20.00	00.00	2			1
Wheaton Dumont	New Effington Tot	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>
	100.00	02.00	12			5
Wilbur Ellis- Tulare	Tulare	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>
	72.00	01.00	10			1
Winfield Solutions- 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>
	81.00	02.00	11			3
Winfield Solutions, LLC - Ames	Ames	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>
	30.00	01.00	4			1
Winfield Solutions, LLC DBA Winfield United	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>
	62.00	01.00	9			1
Winfield United-Clarks Grove	Clarks Grove Total	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>
	20.00	00.00	2			1
Zinc Nacional, SA	Monterrey, N.L.	Mexico				
	<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	00.00	2			1
Report Totals:	98346.00	0.00	180.00		1,2	3
Report Averages:	00.04	0.00	0.15			

2021 Fertilizer Individual Samples

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Manufacturer: ADM Fertilizer-Marion				
Product: MAP 11-52-0				
Sample No:	21N011478			
	Commercial Value	137	139.63	
	Nitrogen, Total	11.00	11.59 %	Pass
	Overall Index Value	100	101.92 %	Pass
	Phosphate, Available as P2O5	52.00	52.43 %	
Product: Map 11-52-0 dry fertilizer				
Sample No:	21N010835			
	Commercial Value	137	141.50	
	Nitrogen, Total	11.0	11.46 %	Pass
	Overall Index Value	100	103.29 %	Pass
	Phosphate, Available as P2O5	52.0	53.56 %	Pass
Product: Map 11-52-0 dry fertilizer				
Sample No:	21N010421			
	Commercial Value	137	140.89	
	Nitrogen, Total	11.00	11.50 %	Pass
	Overall Index Value	100	102.84 %	Pass
	Phosphate, Available as P2O5	52.00	53.20 %	Pass
Product: Potash 0-0-60				
Sample No:	21N011480			
	Potash, Soluble	60.00	63.58 %	Pass
Product: Potash 0-0-60 dry fertilizer				
Sample No:	21N010567			
	Potash, Soluble	60.0	60.57 %	Pass
Product: Urea 46-0-0				

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Sample No:	21N011481				
	Nitrogen, Total	46.00	47.91 %		Pass
Product:	Urea 46-0-0 dry fertilizer				
Sample No:	21N010420				
	Nitrogen, Total	46.00	45.91 %		Pass
Manufacturer:	ADM Fertilizer-Minneapolis-S 8				
Product:	AMS 21-0-0-24s				
Sample No:	21N010400				
	Nitrogen, Total	21.00	21.87 %		Pass
	Sulfur	24.00	24.80 %		Pass
Product:	AMS 21-0-0-24s Fertilizer				
Sample No:	21N010869				
	Nitrogen, Total	21.00	21.17 %		Pass
	Sulfur	24.00	24.52 %		Pass
Product:	MAP				
Sample No:	21N003265				
	Commercial Value	137	139.19		
		11			
	Nitrogen, Total	100	11.44 %		Pass
	Overall Index Value	52	101.60 %		Pass
	Phosphate, Available as P2O5		52.43 %		
Product:	MAP Fertilizer 11-52-0				
Sample No:	21N010871				
	Commercial Value	137	138.58		
		11.00			
	Nitrogen, Total	100	10.79 %		Pass
	Overall Index Value	52.00	101.15 %		
	Phosphate, Available as P2O5		53.11 %		Pass
Manufacturer:	ADM Fertilizer-St. Paul, MN				
Product:	Dap 18-46-0 dry fertilizer				
Sample No:	21N011488				
	Commercial Value	146	146.09		
		18.0			
	Nitrogen, Total	100	17.91 %		Pass
	Overall Index Value	46.0	100.06 %		
	Phosphate, Available as P2O5		46.17 %		Pass
Product:	Potash				
Sample No:	21N003897				
	Potash, Soluble	60	60.91 %		Pass

Product:	Analyte	Claim	Found Unit	Disposition
Urea				
Sample No:	21N003398			
	Nitrogen, Total	46	46.28 %	Pass
Manufacturer:	Ag First-Aurora			
Product:	Customer Blend Fertilizer			
Sample No:	21N003495			
	Commercial Value	126	135.60	
	Nitrogen, Total	33	34.70 %	Pass
	Overall Index Value	100	107.62 %	Pass
	Phosphate, Available as P2O5	10	12.27 %	Pass
	Potash, Soluble	7	6.96 %	Pass
Sample No:	21N003496			-
	Commercial Value	126	135.74	
	Nitrogen, Total	33	34.68 %	Pass
	Overall Index Value	100	107.73 %	Pass
	Phosphate, Available as P2O5	10	12.57 %	Pass
	Potash, Soluble	7	6.57 %	Pass
Sample No:	21N003497			-
	Commercial Value	96	103.63	
	Nitrogen, Total	5	6.28 %	Pass
	Overall Index Value	100	107.95 %	Pass
	Phosphate, Available as P2O5	27	27.94 %	Pass
	Potash, Soluble	27	28.92 %	Pass
Sample No:	21N003498			-
	Commercial Value	118	125.48	
	Nitrogen, Total	31	31.99 %	Pass
	Overall Index Value	100	106.34 %	Pass
	Phosphate, Available as P2O5	9	11.01 %	Pass
	Potash, Soluble	7	7.48 %	Pass
	Sulfur	2	2.94 %	Pass
Sample No:	21N003499			-
	Commercial Value	118	124.02	
	Nitrogen, Total	31	31.68 %	Pass
	Overall Index Value	100	105.10 %	Pass
	Phosphate, Available as P2O5	9	10.93 %	Pass
	Potash, Soluble	7	7.12 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Sample No:	21N003501	Sulfur	2	2.80 %		Pass
		Commercial Value	114	120.28		
		Nitrogen, Total	28	30.63 %		Pass
		Overall Index Value	100	105.51 %		Pass
		Phosphate, Available as P2O5	10	9.53 %		Pass
		Potash, Soluble	2	9.33 %		Pass
		Sulfur		2.57 %		Pass
Product:	Customer Blend Fertilizerr					
Sample No:	21N003500					
		Commercial Value	114	126.44		
		Nitrogen, Total	28	29.94 %		Pass
		Overall Index Value	100	110.91 %		Pass
		Phosphate, Available as P2O5	10	13.56 %		Pass
		Potash, Soluble	2	9.51 %		Pass
		Sulfur		2.37 %		Pass
Manufacturer:	Agrium-Chicago, IL					
Product:	Monoammonium Phosphate: 11-52-					
Sample No:	21N010449					
		Commercial Value	137	139.88		
		Nitrogen, Total	11	11.06 %		Pass
		Overall Index Value	100	102.10 %		Pass
		Phosphate, Available as P2O5	52	53.35 %		Pass
Product:	Potash/Potassium: 0-0-60					
Sample No:	21N010450					
		Potash, Soluble	60	60.29 %		Pass
Manufacturer:	Agrium-Loveland, CO					
Product:	MAP 11-52-0					
Sample No:	21N011999					
		Commercial Value	137	136.57		
		Nitrogen, Total	11.00	10.72 %		Pass
		Overall Index Value	100	99.69 %		Pass
		Phosphate, Available as P2O5	52.00	52.20 %		Pass
Manufacturer:	Agtegra Coop-Aberdeen					
Product:	10-34-0					
Sample No:	21N001586					

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Manufacturer:	Agtegra Coop-Wolsey			
Product:	Drv Fertilizer Blend			
Sample No:	21N010910			
	Commercial Value	98	96.71	
	Nitrogen, Total	10	9.84 %	Pass
	Overall Index Value	100	98.68 %	Pass
	Phosphate, Available as P2O5	34	33.60 %	
Manufacturer:	Agtegra-Bristol			
Product:	Fertilizer Blend dry			
Sample No:	21N010913			
	Commercial Value	102	104.39	
	Nitrogen, Total	9	9.11 %	Pass
	Overall Index Value	100	102.34 %	Pass
	Phosphate, Available as P2O5	31	31.71 %	Pass
	Potash, Soluble	13	13.66 %	Pass
	Sulfur	8	7.75 %	Pass
	Zinc, Acid Soluble	0.78	0.75 %	Pass
Manufacturer:	Agtegra-Bristol			
Product:	10-34-0			
Sample No:	21N003956			
	Commercial Value	108	117.07	
	Nitrogen, Total	15	18.32 %	Pass
	Overall Index Value	100	108.40 %	Pass
	Phosphate, Available as P2O5	26	30.54 %	Pass
	Potash, Soluble (STPB)	11	1.03 %	Pass
	Sulfur	7	8.05 %	Deficient
	Zinc, Acid Soluble	0.65	0.80 %	Pass
Manufacturer:	Agtegra-Chamberlain			
Product:	10-34-0			
Sample No:	21N003508			
	Commercial Value	98	96.21	
	Nitrogen, Total	10	9.65 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
	Overall Index Value	100 34	98.18 % 33.64 %	Pass
Product:	11-52-0/Map			
Sample No:	21N003511			
	Commercial Value	137 11	137.25	
	Nitrogen, Total	100	11.15 %	Pass
	Overall Index Value	52	100.19 %	Pass
	Phosphate, Available as P2O5		51.91 %	
Product:	28-0-0			
Sample No:	21N003509			
	Nitrogen, Total	28	30.57 %	Pass
Product:	46-0-0			
Sample No:	21N003510			
	Nitrogen, Total	46	47.32 %	Pass
Manufacturer:	Agtegra-Herreid			
Product:	AMS 21-0-0-24S			
Sample No:	21N003525			
	Nitrogen, Total	21	21.80 %	Pass
	Sulfur	24	24.70 %	Pass
Product:	Soft Rock 0-3-0			
Sample No:	21N003524			
	Phosphate, Available as P2O5	3	5.37 %	Pass
Manufacturer:	Agtegra-Kennebec			
Product:	0-0-60/Potash			
Sample No:	21N003507			
	Potash, Soluble	60	58.74 %	Pass
Product:	10-34-0			
Sample No:	21N003503			
	Commercial Value	98 10	96.63	
	Nitrogen, Total	100	9.99 %	Pass
	Overall Index Value	34	98.60 %	Pass
	Phosphate, Available as P2O5		33.34 %	
Product:	20.5-0-0-24S/AMS			
Sample No:	21N003506			
	Nitrogen, Total	20.5	21.82 %	Pass
	Sulfur	24	24.23 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product: 28-0-0				
Sample No: 21N003504				
	Nitrogen, Total	28	32.07 %	Pass
Product: 46-000				
Sample No: 21N003505				
	Nitrogen, Total	46	47.17 %	Pass
Manufacturer: Agtegra-McLaughlin				
Product: 10-34-00 Liquid Fertilizer				
Sample No: 21N010149				
	Commercial Value	98	97.98	
	Nitrogen, Total	10	10.16 %	Pass
	Overall Index Value	100	99.98 %	Pass
	Phosphate, Available as P2O5	34	33.74 %	Pass
Product: 28-0-0				
Sample No: 21N001585				
	Nitrogen, Total	28	27.90 %	Pass
Product: 28-0-0 Liquid Fertilizer				
Sample No: 21N010189				
	Nitrogen, Total	28	28.27 %	Pass
Product: A7-23: 7-23-4-1-0.25 Liquid Fertilize				
Sample No: 21N010150				
	Commercial Value	71	71.89	
	Nitrogen, Total	7	7.02 %	Pass
	Overall Index Value	100	101.26 %	Pass
	Phosphate, Available as P2O5	23	23.36 %	Pass
	Potash, Soluble	4	4.12 %	Pass
	Sulfur	1	1.44 %	Pass
	Zinc, Acid Soluble	0.25	0.26 %	Pass
Product: MAP				
Sample No: 21N001590				
	Commercial Value	137	132.88	
	Nitrogen, Total	11	10.03 %	Deficient
	Overall Index Value	100	96.99 %	Deficient
	Phosphate, Available as P2O5	52	51.40 %	
Product: MAP 11-52-00 [Monoammunium Ph				
Sample No: 21N011765				

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
		Commercial Value	137	135.15		
		Nitrogen, Total	11	10.71 %		Pass
		Overall Index Value	100	98.65 %		Pass
		Phosphate, Available as P2O5	52	51.50 %		
Product:	Urea					
Sample No:	21N001591					
		Nitrogen, Total	46	45.74 %		Pass
Product:	Urea 46-0-0					
Sample No:	21N011766					
		Nitrogen, Total	46	47.86 %		Pass
Manufacturer:	Agwrx Cooperative-Webster					
Product:	7-23-5					
Sample No:	21N003957					
		Commercial Value	72	72.56		
		Nitrogen, Total	7	7.08 %		Pass
		Overall Index Value		100.77 %		Pass
		Phosphate, Available as P2O5	23	23.10 %		Pass
		Potash, Soluble	5	5.11 %		Pass
Manufacturer:	Alcester Fertilizer					
Product:	AMS 21-0-0-24					
Sample No:	21N000335					
		Nitrogen, Total	11	20.85 %		Pass
		Sulfur	24	23.25 %		Pass
Product:	MAP 11-52-0					
Sample No:	21N000333					
		Commercial Value	137	140.85		
		Nitrogen, Total	11	11.88 %		Pass
		Overall Index Value	100	102.81 %		Pass
		Phosphate, Available as P2O5	52	52.61 %		
Product:	Potash 0-0-60					
Sample No:	21N000334					
		Potash, Soluble	60	60.12 %		Pass
Product:	Urea 46-0-0					
Sample No:	21N000336					
		Nitrogen, Total	46	45.73 %		Pass
Manufacturer:	American Plant Food Corp					

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product: Ammonium Sulfate 21-0-0-24s dry f				
Sample No:	21N010570			
	Nitrogen, Total	21.0	21.14 %	Pass
	Sulfur	24.0	23.21 %	Pass
Product: AMS				
Sample No:	21N012602			
	Nitrogen, Total	21.00	21.02 %	Pass
	Sulfur	24.00	24.11 %	Pass
Product: AMS Fertilizer 21-0-0-24s				
Sample No:	21N010836			
	Nitrogen, Total	21.00	20.70 %	Pass
	Sulfur	24.00	23.30 %	Pass
Manufacturer: Ameropa North America				
Product: Ammonium Sulfate drv fertilizer				
Sample No:	21N010565			
	Nitrogen, Total	21.0	20.72 %	Pass
	Sulfur	24.0	23.04 %	Pass
Product: Urea 46-0-0 dry fertilizer				
Sample No:	21N010568			
	Nitrogen, Total	46.0	47.70 %	Pass
Manufacturer: Aughenbaugh Farms				
Product: Drv Fertilizer Blend				
Sample No:	21N011004			
	Commercial Value	137.49	141.43	
	Nitrogen, Total	28.53	27.79 %	Pass
	Overall Index Value	100	102.87 %	
	Phosphate, Available as P2O5	25.95	29.04 %	Pass
Manufacturer: Aurora Coop				
Product: Potash				
Sample No:	21N010551			
	Potash, Soluble	60.00	62.29 %	Pass
Manufacturer: Big Soo Terminal				
Product: ADVANSIX AMS 21-0-0-24s				
Sample No:	21N010373			
	Nitrogen, Total	21.00	21.81 %	Pass
	Sulfur	24.00	24.25 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Product: Ammonia Sulfate AMS dry fertilize					
Sample No:	21N010837				
	Nitrogen, Total	21.0	20.96 %		Pass
	Sulfur	24.0	24.21 %		Pass
Product: Ammonium Sulfate AMS dry fertiliz					
Sample No:	21N010816				
	Nitrogen, Total	21.0	21.55 %		Pass
	Sulfur	24.0	24.47 %		Pass
Product: AMS 21-0-0-24s					
Sample No:	21N010547				
	Nitrogen, Total	21.00	20.68 %		Pass
	Sulfur	24.00	24.11 %		Pass
Product: AMS ammonium sulfate 21-0-0-24s					
Sample No:	21N010685				
	Nitrogen, Total	21.0	21.02 %		Pass
	Sulfur	24.0	23.45 %		Pass
Product: Map 11-52-0 dry fertilizer					
Sample No:	21N010851				
	Commercial Value	137	138.97		
	Nitrogen, Total	11.0	11.31 %		Pass
	Overall Index Value	100	101.44 %		Pass
	Phosphate, Available as P2O5	52.0	52.52 %		
Product: Postash 0-0-60 dry fertilizer					
Sample No:	21N010426				
	Potash, Soluble	60.0	61.54 %		Pass
Product: Potash 0-0-60 dry fertilizer					
Sample No:	21N010814				
	Potash, Soluble	60.0	59.77 %		Pass
Sample No:	21N010839				
	Potash, Soluble	60.0	61.27 %		Pass
Sample No:	21N011490				
	Potash, Soluble	60.0	61.13 %		Pass
Product: Potash Dry Bulk Fertilizer					
Sample No:	21N010283				
	Potash, Soluble	60.00	60.53 %		Pass
Manufacturer: Castlewood Farmers Elevator					

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product:	Customer Blend Fertilizer				
Sample No:	21N003412				
		Commercial Value	98.5	62.12	
			5.5		
		Nitrogen, Total	100	9.57 %	Pass
		Overall Index Value	26	63.07 %	Deficient
		Phosphate, Available as P2O5	30	0.16 %	Deficient
		Potash, Soluble		33.08 %	Deficient
Manufacturer:	Central Farmers Coop-Marion				
Product:	28%				
Sample No:	21N003892				
		Nitrogen, Total	28	27.26 %	Pass
Manufacturer:	Central Farmers Coop-Viborg				
Product:	10-34-0				
Sample No:	21N003766				
		Commercial Value	98	91.57	
			10		
		Nitrogen, Total	100	9.66 %	Pass
		Overall Index Value	34	93.44 %	Deficient
		Phosphate, Available as P2O5		31.30 %	
Manufacturer:	CF Industries-Chicago				
Product:	46-0-0 Urea Bulk Drv Fertilizer				
Sample No:	21N010304				
		Nitrogen, Total	46	46.23 %	Pass
Manufacturer:	CF Industries-Sergeant Bluff				
Product:	20009 Urea : 46-0-0				
Sample No:	21N010448				
		Nitrogen, Total	46	45.51 %	Pass
Product:	28%				
Sample No:	21N003409				
		Nitrogen, Total	28	28.22 %	Pass
Sample No:	21N003543				
		Nitrogen, Total	28	29.23 %	Pass
Sample No:	21N003635				
		Nitrogen, Total	28	27.28 %	Pass
Product:	46-0-0				
Sample No:	21N000226				
		Nitrogen, Total	46	46.08 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Sample No:	21N000832					
		Nitrogen, Total	46	46.59	%	Pass
Product:	46-0-0 Urea fertilizer					
Sample No:	21N010410					
		Nitrogen, Total	46	45.61	%	Pass
Product:	Dry Fertilizer MAP					
Sample No:	21N010912					
		Commercial Value	137	139.30		
			11			
		Nitrogen, Total	100	10.97	%	Pass
		Overall Index Value	52	101.68	%	Pass
		Phosphate, Available as P2O5		53.20	%	
Product:	Dry Fertilizer Urea					
Sample No:	21N010911					
		Nitrogen, Total	46	47.73	%	Pass
Product:	Urea					
Sample No:	21N003491					
		Nitrogen, Total	46	47.09	%	Pass
Sample No:	21N003536					
		Nitrogen, Total	46	47.22	%	Pass
Sample No:	21N003805					
		Nitrogen, Total	46	47.57	%	Pass
Sample No:	21N003901					
		Nitrogen, Total	46	47.20	%	Pass
Sample No:	21N011998					
		Nitrogen, Total	46.00	46.59	%	Pass
Sample No:	21N012601					
		Nitrogen, Total	46.00	46.38	%	Pass
Product:	Urea 46-0-0					
Sample No:	21N010399					
		Nitrogen, Total	46.00	47.25	%	Pass
Sample No:	21N010559					
		Nitrogen, Total	46.00	47.78	%	Pass
Product:	Urea 46-0-0 dry fertilizer					
Sample No:	21N010681					
		Nitrogen, Total	46.0	47.40	%	Pass
Sample No:	21N010822					

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product:	Urea 46-0-0 / dry fertilizer	Nitrogen, Total	46.0	47.53 %	Pass
Sample No:	21N010291				
		Nitrogen, Total	46.00	45.87 %	Pass
Product:	Urea 46-0-0 dry fertilizer				
Sample No:	21N010419	Nitrogen, Total	46.0	45.51 %	Pass
Sample No:	21N010432	Nitrogen, Total	46.0	47.41 %	Pass
Sample No:	21N010440	Nitrogen, Total	46.0	47.67 %	Pass
Sample No:	21N010817	Nitrogen, Total	46.0	47.95 %	Pass
Sample No:	21N010866	Nitrogen, Total	46.0	47.61 %	Pass
Product:	Urea Dry Bulk Fertilizer				
Sample No:	21N010282	Nitrogen, Total	46.00	45.38 %	Pass
Manufacturer:	CHS CN Terminal				
Product:	AMS Dry fertilizer 21-0-0-24s				
Sample No:	21N010411	Nitrogen, Total	21.00	22.05 %	Pass
		Sulfur	24.00	24.00 %	Pass
Product:	MAP 11-52-0 dry fertilizer				
Sample No:	21N010569	Commercial Value	137	137.41	
		Nitrogen, Total	11.0	11.50 %	Pass
		Overall Index Value	100	100.30 %	
		Phosphate, Available as P2O5	52.0	51.46 %	Pass
Manufacturer:	CHS Inc				
Product:	Map 11-52-0				
Sample No:	21N010549	Commercial Value	137	139.76	
		Nitrogen, Total	11.00	11.35 %	Pass
		Overall Index Value	100	102.01 %	
		Phosphate, Available as P2O5	52.00	52.86 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product:	Urea 46-0-0				
Sample No:	21N010372				
		Nitrogen, Total	46.00	46.44 %	Pass
Sample No:	21N010409				
		Nitrogen, Total	46.00	45.24 %	Pass
Sample No:	21N010548				
		Nitrogen, Total	46.00	45.48 %	Pass
Sample No:	21N010555				
		Nitrogen, Total	46.00	46.23 %	Pass
Sample No:	21N010834				
		Nitrogen, Total	46.00	47.99 %	Pass
Manufacturer:	CHS INC. - St.Paul				
Product:	Urea				
Sample No:	21N004036				
		Nitrogen, Total	46	46.95 %	Pass
Manufacturer:	CHS-Corsica				
Product:	11-52-0 MAP				
Sample No:	21N002038				
		Commercial Value	137	136.44	
		Nitrogen, Total	11	11.07 %	Pass
		Overall Index Value	100	99.59 %	Pass
		Phosphate, Available as P2O5	52	51.62 %	Pass
Product:	AMS 21-0-0-24				
Sample No:	21N000067				
		Nitrogen, Total	21	20.66 %	Pass
		Sulfur	24	24.08 %	Pass
Product:	lime 98G				
Sample No:	21N000069				
		Calcium	36	35.52 %	Pass
		Moisture	1.00	0.23 %	Pass
Product:	MAP 11-52-0				
Sample No:	21N000068				
		Commercial Value	137	108.29	
		Nitrogen, Total	11	8.87 %	Deficient
		Overall Index Value	100	79.04 %	
		Phosphate, Available as P2O5	52	40.84 %	Deficient

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product: MESZ 12-40-0-10-1				
Sample No:	21N000056			
	Commercial Value	116	112.04	
		12		
	Nitrogen, Total	100	11.42 %	Pass
	Overall Index Value	40	96.58 %	Deficient
		10	38.90 %	
	Phosphate, Available as P2O5	1	10.46 %	Deficient
	Sulfur		0.91 %	Pass
	Zinc, Acid Soluble			
Product: Potash 0-0-60				
Sample No:	21N000032			
	Potash, Soluble	60	61.62 %	Pass
Product: Urea 46-0-0				
Sample No:	21N000033			
	Nitrogen, Total	46	45.34 %	Pass
Manufacturer: CHS-Elkton				
Product: Customer Blend Fertilizer				
Sample No:	21N003804			
	Commercial Value (STPB)	114.48	116.93	
		25.44		
	Nitrogen, Total		26.35 %	Pass
	Overall Index Value (STPB)		102.14 %	Pass
			13.19 %	
	Phosphate, Available as P2O5	12.72	11.45 %	Pass
		12.72		
	Potash, Soluble	12.72	11.51 %	Deficient
	Potash, Soluble (STPB)	3.18	3.54 %	Deficient
		0.32	0.37 %	
	Sulfur			Pass
	Zinc, Acid Soluble			
Manufacturer: CHS-Garretson				
Product: AMS 21-0-0-24				
Sample No:	21N000378			
	Nitrogen, Total	21	20.64 %	Pass
	Sulfur	24	20.39 %	Deficient
Product: DAP 18-46-0				
Sample No:	21N000380			
	Commercial Value	146	147.37	
		18		
	Nitrogen, Total	100	18.31 %	Pass
	Overall Index Value	46	100.94 %	Pass
	Phosphate, Available as P2O5		46.21 %	

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product: MESZ 12-40-0-10-1				
Sample No:	21N000381			
	Commercial Value	116	114.72	
	Nitrogen, Total	12	11.98 %	Pass
	Overall Index Value	100	98.89 %	Pass
	Phosphate, Available as P2O5	40	39.39 %	Pass
	Sulfur	10	9.89 %	Pass
	Zinc, Acid Soluble	1	0.95 %	Pass
Product: Pellitized Limestone from Dolemite				
Sample No:	21N000377			
	Calcium	38.00-40.00	38.80 %	
Product: Potash 0-0-60				
Sample No:	21N001041			
	Potash, Soluble	60	60.20 %	Pass
Product: S85 0-0-0-85				
Sample No:	21N000376			
	Sulfur	85	85.14 %	Pass
Product: Treated Urea 46-0-0				
Sample No:	21N000387			
	Nitrogen, Total	46	45.37 %	Pass
Product: urea 46-0-0				
Sample No:	21N000379			
	Nitrogen, Total	46	45.89 %	Pass
Manufacturer: CHS-Inver Grove Heights				
Product: 28-0-0				
Sample No:	21N004039			
	Nitrogen, Total	28	29.25 %	Pass
Manufacturer: CHS-Minneapolis				
Product: Urea 46-0-0 drv fertilizer				
Sample No:	21N010571			
	Nitrogen, Total	46.0	46.69 %	Pass
Manufacturer: CHS-St. Paul				
Product: MAP 11-52-0				
Sample No:	21N010398			
	Commercial Value	137	139.05	
	Nitrogen, Total	11.00	11.04 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
		Overall Index Value	100 52.00	101.50 % 52.97 %		Pass
Product:	Potash 0-0-60					
Sample No:	21N010407					
		Potash, Soluble	60.00	59.65 %		Pass
Manufacturer:	CHS-Watertown-20th Ave					
Product:	0-0-60					
Sample No:	21N000227					
		Potash, Soluble	60	60.72 %		Pass
Product:	10-34-0					
Sample No:	21N003267					
		Commercial Value	98	98.08		
		Nitrogen, Total	10 100	10.28 % 100.08 %		Pass
		Overall Index Value	34	33.63 %		Pass
		Phosphate, Available as P2O5				-
Sample No:	21N003490					
		Commercial Value	98	99.47		
		Nitrogen, Total	10 100	10.46 % 101.50 %		Pass
		Overall Index Value	34	34.05 %		Pass
		Phosphate, Available as P2O5				-
Sample No:	21N003633					
		Commercial Value	98	98.81		
		Nitrogen, Total	10 100	10.25 % 100.83 %		Pass
		Overall Index Value	34	34.03 %		Pass
		Phosphate, Available as P2O5				-
Sample No:	21N003636					
		Commercial Value	98	98.25		
		Nitrogen, Total	10 100	10.24 % 100.26 %		Pass
		Overall Index Value	34	33.76 %		Pass
		Phosphate, Available as P2O5				-
Product:	11-52-0					
Sample No:	21N000229					
		Commercial Value	137	140.54		
		Nitrogen, Total	11 100	11.37 % 102.58 %		Pass
		Overall Index Value	52	53.21 %		Pass
		Phosphate, Available as P2O5				-

Product:		Analyte	Claim	Found Unit	Disposition
Product:	21-0-0-24				
Sample No:	21N000228				
		Nitrogen, Total	21	20.39 %	Pass
		Sulfur	24	24.74 %	
Product:	28%				
Sample No:	21N003268				
		Nitrogen, Total	28	28.29 %	Pass
Sample No:	21N003489				
		Nitrogen, Total	28	28.59 %	Pass
Sample No:	21N003900				
		Nitrogen, Total	28	27.89 %	Pass
Sample No:	21N003961				
		Nitrogen, Total	28	29.16 %	Pass
Product:	28-00-00 Liquid Fertilizer				
Sample No:	21N004033				
		Nitrogen, Total	28	29.75 %	Pass
Product:	AMS				
Sample No:	21N003263				
		Nitrogen, Total	21	21.38 %	Pass
		Sulfur	24	23.75 %	Pass
Sample No:	21N003269				
		Nitrogen, Total	21	21.66 %	Pass
		Sulfur	24	24.43 %	Pass
Sample No:	21N003416				
		Nitrogen, Total	21	21.03 %	Pass
		Sulfur	24	24.05 %	Pass
Sample No:	21N003539				
		Nitrogen, Total	11	21.40 %	Pass
		Sulfur	24	23.63 %	Pass
Sample No:	21N003963				
		Nitrogen, Total	12	21.11 %	Pass
		Sulfur	24	23.13 %	Pass
Sample No:	21N004038				
		Nitrogen, Total	21	21.48 %	Pass
		Sulfur	24	24.06 %	Pass
Product:	AMS Dry fertilizer 21-0-0-24S				

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Sample No:	21N010418					
		Nitrogen, Total	21.00	22.71	%	Pass
		Sulfur	24.00	24.92	%	Pass
Product:	Dry Bulk Fertilizer DAP 18-46-0					
Sample No:	21N010360					
		Commercial Value	146	148.43		
			18			
		Nitrogen, Total	100	18.19	%	Pass
		Overall Index Value	46	101.67	%	Pass
		Phosphate, Available as P2O5		46.93	%	Pass
Product:	MAP					
Sample No:	21N003270					
		Commercial Value	137	139.10		
			11			
		Nitrogen, Total	100	11.71	%	Pass
		Overall Index Value	52	101.53	%	Pass
		Phosphate, Available as P2O5		51.99	%	Pass
Sample No:	21N003397					
		Commercial Value	137	136.89		
			11			
		Nitrogen, Total	100	11.06	%	Pass
		Overall Index Value	52	99.92	%	Pass
		Phosphate, Available as P2O5		51.86	%	Pass
Sample No:	21N003413					
		Commercial Value	137	137.01		
			11			
		Nitrogen, Total	100	11.10	%	Pass
		Overall Index Value	52	100.01	%	Pass
		Phosphate, Available as P2O5		51.86	%	Pass
Sample No:	21N003896					
		Commercial Value	137	141.59		
			11			
		Nitrogen, Total	100	11.87	%	Pass
		Overall Index Value	52	103.35	%	Pass
		Phosphate, Available as P2O5		52.99	%	Pass
Product:	Potash					
Sample No:	21N003271					
		Potash, Soluble	60	61.19	%	Pass
Sample No:	21N003414					
		Potash, Soluble	60	62.81	%	Pass
Sample No:	21N003537					

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Sample No:	21N003964	Potash, Soluble	60	62.38 %	Pass
Sample No:	21N004035	Potash, Soluble	60	61.71 %	Pass
Sample No:		Potash, Soluble	60	63.03 %	Pass
Product:	Potash 0-0-60				
Sample No:	21N010395	Potash, Soluble	60.00	58.69 %	Pass
Product:	Potash 0-0-60 Dry Fert				
Sample No:	21N010359	Potash, Soluble	60	60.96 %	Pass
Product:	Potash 0-0-60 dry fertilizer				
Sample No:	21N010416	Potash, Soluble	60	59.46 %	Pass
Sample No:	21N010572	Potash, Soluble	60.0	59.45 %	
Product:	Potash Fertilizer 0-0-60				
Sample No:	21N010872	Potash, Soluble	60.00	58.96 %	Pass
Product:	Red Gran Potash				
Sample No:	21N003396	Potash, Soluble	60	58.80 %	Pass
Product:	Red Potash				
Sample No:	21N003264	Potash, Soluble	60	61.42 %	Pass
Product:	Urea				
Sample No:	21N003262	Nitrogen, Total	46	46.60 %	Pass
Sample No:	21N003272	Nitrogen, Total	46	47.16 %	Pass
Sample No:	21N003415	Nitrogen, Total	46	47.87 %	Pass
Manufacturer:	CHS-White Lake				
Product:	AMS 21-0-0-24				
Sample No:	21N000086	Nitrogen, Total	21	21.12 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Product:	Map 11-52-0					
	Sample No:	21N000081				
		Sulfur	24	24.51	%	Pass
		Commercial Value	137	137.56		
		Nitrogen, Total	11	11.21	%	Pass
		Overall Index Value	100	100.41	%	
		Phosphate, Available as P2O5	52	51.97	%	Pass
Product:	MESZ 12-40-0-10-1					
	Sample No:	21N000083				
		Commercial Value	116	113.75		
		Nitrogen, Total	12	11.82	%	Pass
		Overall Index Value	100	98.06	%	Pass
		Phosphate, Available as P2O5	40	39.14	%	Pass
		Sulfur	10	10.46	%	Deficient
		Zinc, Acid Soluble	1	0.91	%	Pass
Product:	Potash 0-0-60					
	Sample No:	21N000085				
		Potash, Soluble	60	63.24	%	Pass
Product:	Urea 46-0-0					
	Sample No:	21N000082				
		Nitrogen, Total	46	46.28	%	Pass
Manufacturer:	CHS-Winona					
Product:	Dap 18-46-0 drv fertilizer					
	Sample No:	21N010417				
		Commercial Value	146	143.80		
		Nitrogen, Total	18.00	17.69	%	Pass
		Overall Index Value	100	98.49	%	
		Phosphate, Available as P2O5	46.00	45.37	%	Pass
Manufacturer:	CHS-Worthing					
Product:	AMS 21-0-0-24s					
	Sample No:	21N010561				
		Nitrogen, Total	21.00	21.02	%	Pass
		Sulfur	24.00	24.30	%	Pass
Manufacturer:	Dakota Agrow					
Product:	AMS 21-0-0-24					
	Sample No:	21N000095				

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
		Nitrogen, Total	21	21.00	%	Pass
			24	23.39	%	
Product:	MAP 11-52-0-0					
Sample No:	21N000090					
		Commercial Value	137	143.92		
		Nitrogen, Total	11	12.18	%	Pass
		Overall Index Value	100	105.05	%	Pass
		Phosphate, Available as P2O5	52	53.68	%	
Product:	Potash 0-0-60					
Sample No:	21N000093					
		Potash, Soluble	60	63.55	%	Pass
Product:	Urea 46-0-0					
Sample No:	21N000094					
		Nitrogen, Total	46	46.05	%	Pass
Manufacturer:	Dakota Fertilizer-Canton					
Product:	AMS 21-0-0-24					
Sample No:	21N000337					
		Nitrogen, Total	21	20.97	%	Pass
		Sulfur	24	24.04	%	Pass
Product:	DAP 18-46-0					
Sample No:	21N000340					
		Commercial Value	146	146.00		
		Nitrogen, Total	18	17.85	%	Pass
		Overall Index Value	100	100.00	%	
		Phosphate, Available as P2O5	46	46.23	%	Pass
Product:	Potash 0-0-60					
Sample No:	21N000339					
		Potash, Soluble	60	60.70	%	Pass
Product:	Urea 46-0-0					
Sample No:	21N000338					
		Nitrogen, Total	46	45.97	%	Pass
Manufacturer:	Dell Rapids Coop Grain					
Product:	AMS 21-0-0-24					
Sample No:	21N001042					
		Nitrogen, Total	21	21.80	%	Pass
		Sulfur	24	24.50	%	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product: DAP 18-46-0				
Sample No:	21N001040			
	Commercial Value	146	148.64	
		18		
	Nitrogen, Total	100	18.48 %	Pass
	Overall Index Value	46	101.81 %	Pass
	Phosphate, Available as P2O5		46.60 %	
Product: Potash 0-0-60				
Sample No:	21N000384			
	Potash, Soluble	60	59.22 %	Pass
Product: Urea 46-0-0				
Sample No:	21N000383			
	Nitrogen, Total	46	45.80 %	Pass
Manufacturer: Deuel County Farmers Oil Unio				
Product: AMS				
Sample No:	21N003898			
	Nitrogen, Total	21	21.72 %	Pass
	Sulfur	24	24.20 %	Pass
Product: Customer Blend Fertilizer				
Sample No:	21N003893			
	Commercial Value	116.7	120.78	
		29.9		
	Nitrogen, Total	100	30.85 %	Pass
	Overall Index Value	9	103.49 %	Pass
	Phosphate, Available as P2O5	9	9.75 %	
		3	8.73 %	Pass
	Potash, Soluble		3.44 %	Pass
	Sulfur			-
Sample No:	21N003894			
	Commercial Value	110.5	115.16	
		27.4		
	Nitrogen, Total	100	28.40 %	Pass
	Overall Index Value	8.1	104.21 %	Pass
	Phosphate, Available as P2O5	12.1	9.23 %	
		3.2	11.50 %	Pass
	Potash, Soluble	0.8	3.76 %	Pass
	Sulfur		0.63 %	Pass
	Zinc, Acid Soluble			-
Sample No:	21N003895			
	Commercial Value	110.5	112.80	
	Nitrogen, Total	27.4	27.02 %	Pass

<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Overall Index Value	100	102.08	%	Pass
Phosphate, Available as P2O5	8.1	9.81	%	Pass
	12.1	12.12	%	
Potash, Soluble	3.2	3.75	%	Pass
Sulfur	0.8	0.98	%	Pass
Zinc, Acid Soluble				

Manufacturer: Dr. Earth

Product: Dr Earth All Purpose All Purpose Fe

Sample No: 21N001958

Commercial Value	24	26.30		
	4			
Nitrogen, Total	100	4.69	%	Pass
Overall Index Value	4	109.58	%	Pass
	4	4.10	%	Pass
Phosphate, Available as P2O5		4.03	%	
Potash, Soluble				

Manufacturer: Easy Gardener Inc

Product: Jobes Fertilizer Spikes

Sample No: 21N001959

Commercial Value	60	67.75		
	6			
Nitrogen, Total	100	9.27	%	Pass
Overall Index Value	18	112.92	%	Pass
	6	19.07	%	Pass
Phosphate, Available as P2O5	6	1.75	%	
Potash, Soluble		3.05	%	Deficient
Potash, Soluble (STPB)				

Manufacturer: Estelline Coop

Product: Customer Blend Fertilizer

Sample No: 21N003400

Commercial Value	127	132.03		
	35			
Nitrogen, Total	100	36.84	%	Pass
Overall Index Value	8	103.96	%	Pass
	6	7.95	%	Pass
Phosphate, Available as P2O5		5.62	%	
Potash, Soluble				

Sample No: 21N003401

Commercial Value	127	133.00		
	35			
Nitrogen, Total	100	36.93	%	Pass
Overall Index Value	8	104.72	%	Pass
	6	7.73	%	Pass
Phosphate, Available as P2O5		6.75	%	
Potash, Soluble				

Sample No:		Analyte	Claim	Found Unit	Disposition
Sample No:	21N003402	Commercial Value	127	132.16	
		Nitrogen, Total	35	37.10 %	Pass
		Overall Index Value	100	104.07 %	Pass
		Phosphate, Available as P2O5	8	7.66 %	Pass
		Potash, Soluble	6	5.55 %	Pass
		Zinc, Acid Soluble			-
Sample No:	21N003406	Commercial Value	113	117.11	
		Nitrogen, Total	33	34.09 %	Pass
		Overall Index Value	100	103.64 %	Pass
		Potash, Soluble	14	14.84 %	Pass
		Zinc, Acid Soluble	1	0.95 %	Pass
					-
Sample No:	21N003407	Commercial Value	113	117.31	
		Nitrogen, Total	33	34.25 %	Pass
		Overall Index Value	100	103.82 %	Pass
		Potash, Soluble	14	14.55 %	Pass
		Zinc, Acid Soluble	1	0.71 %	Pass
					-
Manufacturer: EuroChem North America Corp					
Product: Map					
Sample No:	21N003962	Commercial Value	137	136.41	
		Nitrogen, Total	11	10.72 %	Pass
		Overall Index Value	100	99.57 %	Pass
		Phosphate, Available as P2O5	52	52.13 %	Pass
Product: Map 11-52-0 dry fertilizer					
Sample No:	21N010435	Commercial Value	137	140.90	
		Nitrogen, Total	11.0	12.07 %	Pass
		Overall Index Value	100	102.85 %	Pass
		Phosphate, Available as P2O5	52.0	52.35 %	Pass
Sample No:	21N010820	Commercial Value	137	138.64	
		Nitrogen, Total	11.0	10.94 %	Pass
		Overall Index Value	100	101.20 %	Pass
		Phosphate, Available as P2O5	52	52.91 %	Pass
				-	

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product: MAP Bulk Dry Fertilizer				
Sample No:	21N010284			
	Commercial Value	137	140.31	
	Nitrogen, Total	11.00	11.98 %	Pass
	Overall Index Value		102.42 %	Pass
	Phosphate, Available as P2O5	52.00	52.19 %	
Manufacturer: Farmers Coop Elevator-Avon				
Product: MAP 11-52-0				
Sample No:	21N000014			
	Commercial Value	137	139.96	
	Nitrogen, Total	11	11.14 %	Pass
	Overall Index Value	100	102.16 %	Pass
	Phosphate, Available as P2O5	52	53.28 %	
Product: Potash 0-0-60				
Sample No:	21N000013			
	Potash, Soluble	60	60.12 %	Pass
Product: Ultra Yield				
Sample No:	21N000016			
	Sulfur	18	18.41 %	Pass
	Zinc, Acid Soluble	33.3	33.17 %	Pass
Product: Urea 46-0-0				
Sample No:	21N000012			
	Nitrogen, Total	46	46.34 %	Pass
Manufacturer: Farmers Elevator-Humboldt				
Product: AMS 21-0-0-24				
Sample No:	21N000015			
	Nitrogen, Total	21	21.12 %	Pass
	Sulfur	24	23.91 %	Pass
Manufacturer: Farmers Union Coop Oil Comp				
Product: Customer Blend Fertilizer				
Sample No:	21N003965			
	Commercial Value	117.88	122.38	
	Nitrogen, Total	8.26	9.82 %	Pass
	Overall Index Value	100	103.82 %	Pass
	Phosphate, Available as P2O5	39.1	39.06 %	Pass
	Potash, Soluble	14.9	14.81 %	Pass

Sample No:	Analyte	Claim	Found Unit	Disposition
21N003966	Commercial Value	94.01	99.18	
	Nitrogen, Total	7.57	9.25 %	Pass
	Overall Index Value	100	105.50 %	Pass
	Phosphate, Available as P2O5	22.7	23.23 %	Pass
	Potash, Soluble	25.9	24.96 %	Pass
	Sulfur	3.17	4.12 %	Pass
Manufacturer: Frit Industries				
Product: F317-G				
Sample No:				
21N001043	Zinc, Acid Soluble	36	37.40 %	Pass
Manufacturer: Full Circle Ag Doland				
Product: 11-52-0				
Sample No:				
21N000833	Commercial Value	137	136.86	
	Nitrogen, Total	11	11.14 %	Pass
	Overall Index Value	100	99.90 %	Pass
	Phosphate, Available as P2O5	52	51.73 %	
Product: 21-0-0-24				
Sample No:				
21N000835	Nitrogen, Total	21	21.02 %	Pass
	Sulfur	24	24.43 %	Pass
Manufacturer: Full Circle Ag-Groton				
Product: 28-0-0				
Sample No:				
21N003785	Nitrogen, Total	28	30.29 %	Pass
Manufacturer: Full Circle Ag-Hecla				
Product: 0-0-60 Potash				
Sample No:				
21N002921	Potash, Soluble	60	61.46 %	
Product: 11-52-0 MAP				
Sample No:				
21N002920	Commercial Value	137	138.00	
	Nitrogen, Total	11	10.89 %	Pass
	Overall Index Value	100	100.73 %	Pass
	Phosphate, Available as P2O5	52	52.66 %	

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Product: Urea 46-0-0					
Sample No:	21N002919				
	Nitrogen, Total	46	46.39 %		Pass
Manufacturer: Gavilon-Hastings, NE					
Product: 32% Liquid Nitrogen					
Sample No:	21N012004				
	Nitrogen, Total	32.00	32.00 %		Pass
Manufacturer: Gavilon-Savannah					
Product: AMS					
Sample No:	21N003399				
	Nitrogen, Total	21	20.77 %		Pass
	Sulfur	24	24.73 %		Pass
Product: MAP					
Sample No:	21N003538				
	Commercial Value	137	139.59		
	Nitrogen, Total	11	11.12 %		Pass
	Overall Index Value	100	101.89 %		
	Phosphate, Available as P2O5	52	53.11 %		Pass
Product: Nucleus-HP					
Sample No:	21N003544				
	Commercial Value	76	76.38		
	Nitrogen, Total	8	8.39 %		Pass
	Overall Index Value	100	100.50 %		Pass
	Phosphate, Available as P2O5	24	23.54 %		Pass
	Potash, Soluble	4	4.13 %		Pass
Manufacturer: GroTec Inc.					
Product: Groundwork Lawn and Garden Fert					
Sample No:	21N003254				
	Commercial Value	92	94.17		
	Iron	2	1.88 %		Pass
	Nitrogen, Total	29	29.56 %		Pass
	Overall Index Value	100	102.36 %		Pass
	Potash, Soluble	5	5.50 %		Pass
Manufacturer: Growmark FS					
Product: AMS (21-0-0-24)					
Sample No:	21N003515				

	<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
	Nitrogen, Total	21 24	21.49 % 23.46 %	Pass
Product: Custom blend ticket- 600003166				
	Sample No:	21N003517		
	Commercial Value	118.12 28.35	121.08	
	Nitrogen, Total	100	28.01 %	Pass
	Overall Index Value	11.81	102.50 %	Pass
	Phosphate, Available as P2O5	9.45 2.362	13.20 % 10.64 %	Pass
	Potash, Soluble		2.89 %	Pass
	Sulfur			
Product: Custom blend ticket- 600003185				
	Sample No:	21N003518		
	Commercial Value	98.15 20.4	99.22	
	Nitrogen, Total	100	20.56 %	Pass
	Overall Index Value	9.61	101.09 %	Pass
	Phosphate, Available as P2O5	17.73 5.32	9.27 % 19.01 %	Pass
	Potash, Soluble		5.88 %	Pass
	Sulfur			
Product: Custom blend ticket-600003184				
	Sample No:	21N003512		
	Commercial Value	90.11 24.03	91.66	
	Nitrogen, Total	100	23.97 %	Pass
	Overall Index Value	18.02	101.72 %	Pass
	Potash, Soluble	7.209	19.76 %	Pass
	Sulfur		7.90 %	Pass
Product: Custom blend ticket-600003189				
	Sample No:	21N003516		
	Nitrogen, Total	39.78	40.85 %	Pass
	Sulfur	5.968	6.46 %	Pass
Product: Potash (0-0-60)				
	Sample No:	21N003514		
	Potash, Soluble	60	63.28 %	Pass
Product: Urea (46-0-0)				
	Sample No:	21N003513		
	Nitrogen, Total	46	46.61 %	Pass
Manufacturer: Helena Chemical Company				

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Product:	28%					
Sample No:	21N003905					
		Nitrogen, Total	28	29.66	%	Pass
Product:	Boron LC					
Sample No:	21N003904					
		Boron, Acid Soluble	10.9	10.76	%	Pass
		Nitrogen, Total	4	5.32	%	Pass
Product:	ManZinc FL					
Sample No:	21N003902					
		Nitrogen, Total	1	2.45	%	Pass
		Zinc, Acid Soluble	19.5	20.40	%	Pass
Product:	Nucleus HP					
Sample No:	21N003906					
		Commercial Value	76	81.83		
		Nitrogen, Total	8	17.07	%	Pass
		Overall Index Value	100	107.68	%	Pass
		Phosphate, Available as P2O5	24	14.10	%	Pass
		Potash, Soluble	4	2.41	%	Deficient
Product:	Nutri Link					
Sample No:	21N003411					
		Commercial Value	68	69.68		
		Nitrogen, Total	7	7.48	%	Pass
		Overall Index Value	100	102.47	%	Pass
		Phosphate, Available as P2O5	23	23.11	%	Pass
		Potash, Soluble	1	1.01	%	Pass
		Zinc, Acid Soluble	.46	0.43	%	Pass
Product:	Super Zinc FL					
Sample No:	21N003775					
		Nitrogen, Total	1	1.02	%	Pass
		Zinc, Acid Soluble	40	40.63	%	Pass
Sample No:	21N003903					
		Nitrogen, Total	1	0.99	%	Pass
		Zinc, Acid Soluble	40	39.84	%	Pass
Manufacturer:	Helena Agri-Enterprises, LLC					
Product:	AMS 21-0-0-24					
Sample No:	21N000009					

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
		Nitrogen, Total	21 24	21.33 % 24.77 %	Pass
Product:	DAP 18-46-0				
Sample No:	21N000008				
		Commercial Value	146 18	145.77	
		Nitrogen, Total	100	17.64 %	Pass
		Overall Index Value	46	99.84 %	Pass
		Phosphate, Available as P2O5		46.43 %	
Product:	MAP 11-52-0				
Sample No:	21N000010				
		Commercial Value	137 11	131.42	
		Nitrogen, Total	100	10.39 %	Pass
		Overall Index Value	52	95.93 %	
		Phosphate, Available as P2O5		50.12 %	Deficient
Product:	Potash 0-0-60				
Sample No:	21N000011				
		Potash, Soluble	60	58.77 %	Pass
Product:	Urea 46-0-0				
Sample No:	21N000007				
		Nitrogen, Total	46	46.26 %	Pass
Manufacturer:	Helena Agri-Enterprises-Iroqui				
Product:	Custom Blend				
Sample No:	21N011005				
		Commercial Value	104.43 9.39	111.64	
		Nitrogen, Total	100	9.60 %	Pass
		Overall Index Value	35.4	106.90 %	Pass
		Phosphate, Available as P2O5	5.46 10.37	38.06 % 6.70 %	Pass
		Potash, Soluble		7.14 %	Pass
		Sulfur			
Manufacturer:	Helena Chemical Company-TN				
Product:	TRAFIX				
Sample No:	21N003542				
		Sulfur	4.5	5.02 %	Pass
		Zinc, Acid Soluble	10	9.76 %	Pass
Manufacturer:	Itafos Conda-Houston				
Product:	12-39-0-6S Bulk Drv Fertilizer				

Sample No:	Analyte	Claim	Found Unit	Disposition
21N010305	Commercial Value	114	121.08	
	Nitrogen, Total	12	13.07 %	Pass
	Overall Index Value	100	106.21 %	Pass
	Phosphate, Available as P2O5	39	40.93 %	Pass
	Sulfur	6	6.38 %	Pass
Manufacturer: JR Simplot Company-Boise				
Product: 40 rock drv fertilizer				
Sample No:	21N010436			
	Commercial Value	116	119.27	
	Nitrogen, Total	12.0	12.84 %	Pass
	Overall Index Value	100	102.82 %	Pass
	Phosphate, Available as P2O5	40.0	40.38 %	Pass
	Sulfur	6.50	6.88 %	Pass
	Zinc, Acid Soluble	1.00	1.00 %	Pass
Product: 40 Rock Fertilizer				
Sample No:	21N010550			
	Commercial Value	116	120.28	
	Nitrogen, Total	12.00	13.29 %	Pass
	Overall Index Value	100	103.69 %	Pass
	Phosphate, Available as P2O5	40.00	40.21 %	Pass
	Sulfur	6.50	7.01 %	Pass
	Zinc, Acid Soluble	1.00	0.94 %	Pass
Manufacturer: Koch Fertilizer LLC-Wichita				
Product: 28%				
Sample No:	21N003808			
	Nitrogen, Total	28	29.97 %	Pass
Manufacturer: Koch Fertilizer, LLC-Brandon				
Product: Urea Ammonium Nitrate Solution. 3				
Sample No:	21N010309			
	Nitrogen, Total	32	32.29 %	Pass
Manufacturer: Kugler-RCity				
Product: KQ650 product: 10-25-0-5(S)-0.25/				
Sample No:	21N010307			
	Commercial Value	80	79.36	
	Nitrogen, Total	10	10.12 %	Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
		Overall Index Value	100	99.20	%	Pass
		Phosphate, Available as P2O5	25	24.51	%	Pass
		Sulfur	5	5.52	%	
		Zinc, Acid Soluble	0.25	0.07	%	Pass
Product:	KQXRN product: 28-0-0 [70% slow					
Sample No:	21N010308					
		Nitrogen, Total	28	28.31	%	Pass
Manufacturer:	LaBolt Farmers Grain					
Product:	Custom Blend of Urea-22%-Phosph					
Sample No:	21N004034					
		Commercial Value	114	120.61		
		Nitrogen, Total	22	23.52	%	Pass
		Overall Index Value		105.80	%	Pass
		Phosphate, Available as P2O5	16	16.86	%	Pass
		Potash, Soluble	16	16.34	%	
Manufacturer:	Lilly Miller Brands					
Product:	Alaska Fish Fertilizer-Small Packag					
Sample No:	21N010665					
		Commercial Value	18	20.24		
		Nitrogen, Total	5.0	5.23	%	Pass
		Overall Index Value	100	112.46	%	Pass
		Phosphate, Available as P2O5	1.0	1.71	%	Pass
		Potash, Soluble	1.0	1.12	%	
Manufacturer:	Loveland Products, Inc.					
Product:	N-Pact					
Sample No:	21N003810					
		Nitrogen, Total	26	27.06	%	Pass
Manufacturer:	Micro Source LLC					
Product:	Micro-Source Boron					
Sample No:	21N000385					
		Boron, Acid Soluble	15	14.77	%	Pass
Product:	Source Zinc 10					
Sample No:	21N003809					
		Nitrogen, Total	8	8.08	%	Pass
		Zinc, Acid Soluble	10	10.66	%	Pass
Product:	Zinc Sulfate 0-0-0-16.5-35					

Sample No:	21N000382	Analyte	Claim	Found Unit	Disposition
		Sulfur	16.5	16.69 %	Pass
		Zinc, Acid Soluble	35	32.46 %	Deficient
Manufacturer:	Miracle Grow				
Product:	Miracle Gro All purpose plant food				
Sample No:	21N003580				
		Boron, Acid Soluble	0.02	0.03 %	Pass
		Commercial Value	104	110.75	
		Copper	.15	0.08 %	Pass
		Iron	.05	0.21 %	Pass
		Manganese, Acid Soluble	.0005	0.06 %	Pass
		Molybdenum	24	0.00 %	Pass
		Nitrogen, Total	100	25.12 %	Pass
		Overall Index Value	8	106.49 %	Pass
		Phosphate, Available as P2O5	16	8.82 %	Pass
		Potash, Soluble	.06	17.75 %	Pass
		Zinc, Acid Soluble		0.07 %	Pass
Product:	Miracle Gro Performance Organics				
Sample No:	21N001956				
		Calcium	2	2.41 %	Pass
		Commercial Value	38	38.70	
		Magnesium, Acid Soluble	0.5	0.68 %	Pass
		Nitrogen, Total	9	9.03 %	Pass
		Overall Index Value	100	101.83 %	Pass
		Phosphate, Available as P2O5	2	2.26 %	Pass
		Potash, Soluble	7	7.10 %	Pass
		Sulfur	1	1.52 %	Pass
Sample No:	21N003579				
		Calcium	2	2.32 %	Pass
		Commercial Value	38	39.50	
		Magnesium, Acid Soluble	.5	0.75 %	Pass
		Nitrogen, Total	9	9.42 %	Pass
		Overall Index Value	100	103.96 %	Pass
		Phosphate, Available as P2O5	2	2.21 %	Pass
		Potash, Soluble	7	6.83 %	Pass
		Sulfur	1	4.05 %	Pass

Manufacturer:	Analyte	Claim	Found Unit	Disposition
Miracle-Gro Lawn Inc - Maryvill				
Product: Indoor Plant food				
Sample No: 21N003581				
	Commercial Value	6	5.95	
	Nitrogen, Total	100	1.03 %	Pass
	Overall Index Value	1	99.22 %	Pass
	Phosphate, Available as P2O5	1	1.09 %	Pass
	Potash, Soluble		0.70 %	Pass
MiracleGro Blooming Houseplant F				
Sample No: 21N010675				
	Commercial Value	4	13.81	
	Nitrogen, Total	100	3.64 %	Pass
	Overall Index Value	1.0	345.15 %	Pass
	Phosphate, Available as P2O5	0.5	1.19 %	Pass
	Potash, Soluble		0.52 %	Pass
Mosaic Potash-Carlsbad				
Product: KMAG				
Sample No: 21N012599				
	Magnesium, Acid Soluble	10.5	9.85 %	Pass
	Magnesium, Water Soluble	21.5	9.44 %	Pass
	Potash, Soluble	21.00	23.49 %	Pass
	Sulfur		21.20 %	Pass
K-Mag 0-0-21.5				
Sample No: 21N012001				
	Magnesium, Acid Soluble	10.50	10.40 %	Pass
	Potash, Soluble	21.50	23.20 %	Pass
	Sulfur	21.00	22.42 %	Pass
Mosaic-Atlanta				
Product: MAP				
Sample No: 21N012604				
	Commercial Value	137	136.81	
	Nitrogen, Total	100	10.81 %	Pass
	Overall Index Value	52.00	99.86 %	Pass
	Phosphate, Available as P2O5		52.19 %	
MESZ				
Sample No: 21N012603				

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
	Commercial Value	116	114.04		
	Nitrogen, Total	12.00	11.81 %		Pass
	Overall Index Value	100	98.31 %		Pass
	Phosphate, Available as P2O5	40.00	39.31 %		Pass
	Sulfur	10.00	9.79 %		Pass
	Zinc, Acid Soluble	1.00	1.11 %		Pass
Product: MESZ 12-40-0-10s-1z					
Sample No: 21N010560					
	Commercial Value	116	113.74		
	Nitrogen, Total	12.00	11.59 %		Pass
	Overall Index Value	100	98.05 %		Pass
	Phosphate, Available as P2O5	40.00	39.49 %		Pass
	Sulfur	10.00	9.80 %		Pass
	Zinc, Acid Soluble	1.00	0.98 %		Pass
Manufacturer: Mosaic-Browntown					
Product: Muriate of Potash drv fertilizer					
Sample No: 21N010413					
	Potash, Soluble	60.00	60.76 %		Pass
Manufacturer: Mosaic-Esterhazy					
Product: Muriate of Potash 0-0-60 / drv fertili					
Sample No: 21N010290					
	Potash, Soluble	60.0	62.97 %		Pass
Product: Potash					
Sample No: 21N012600					
	Potash, Soluble	60.00	61.04 %		Pass
Product: Potash 0-0-60					
Sample No: 21N010382					
	Potash, Soluble	60.00	59.33 %		Pass
Sample No: 21N010563					
	Potash, Soluble	60.00	62.39 %		Pass
Sample No: 21N010838					
	Potash, Soluble	60.00	61.56 %		Pass
Product: Potash 0-0-60 dry fertilizer					
Sample No: 21N010684					
	Potash, Soluble	60.0	63.18 %		
Manufacturer: Mosaic-Lithia					

Product:		Analyte	Claim	Found Unit	Disposition
MESZ					
Sample No:	21N003807				
		Commercial Value	116	115.88	
		Nitrogen, Total	12	12.45 %	Pass
		Overall Index Value	100	99.90 %	Pass
		Phosphate, Available as P2O5	40	39.27 %	Pass
		Sulfur	10	10.25 %	Pass
		Zinc, Acid Soluble	1	0.99 %	Pass
Product:					
Potash					
Sample No:	21N003493				
		Potash, Soluble	60	61.26 %	Pass
Sample No:	21N003806				
		Potash, Soluble	60	60.77 %	Pass
Manufacturer:					
Mosaic-Mulberry					
Product:					
MAP 11-52-0 dry fertilizer					
Sample No:	21N010439				
		Commercial Value	137	136.35	
		Nitrogen, Total	11	10.66 %	Pass
		Overall Index Value	100	99.53 %	Pass
		Phosphate, Available as P2O5	52	52.19 %	Pass
Manufacturer:					
Mosaic-Rosemount					
Product:					
AMS 11-52-0					
Sample No:	21N010558				
		Commercial Value	137	59.67	
		Nitrogen, Total	11.00	19.66 %	Pass
		Overall Index Value	100	43.55 %	Deficient
		Phosphate, Available as P2O5	52.00	0.35 %	
Product:					
DAP 18-46-0					
Sample No:	21N010391				
		Commercial Value	146	146.00	
		Nitrogen, Total	18.00	18.12 %	Pass
		Overall Index Value	100	100.00 %	Pass
		Phosphate, Available as P2O5	46.00	45.82 %	
Product:					
DAP 18-46-0 dry fertilizer					
Sample No:	21N010682				
		Commercial Value	146	144.08	

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
	Nitrogen, Total	18.0	17.40	%	Pass
	Overall Index Value	100	98.69	%	
	Phosphate, Available as P2O5	46.0	45.94	%	Pass
Product:	Diammonium Phosphate fertilizer/ D				
Sample No:	21N010412				
	Commercial Value	146	146.37		
	Nitrogen, Total	18.00	18.13	%	Pass
	Overall Index Value	100	100.25	%	Pass
	Phosphate, Available as P2O5	46.00	45.98	%	
Product:	MAP				
Sample No:	21N004037				
	Commercial Value	137	141.44		
	Nitrogen, Total	11	11.46	%	Pass
	Overall Index Value	100	103.24	%	Pass
	Phosphate, Available as P2O5	52	53.53	%	
Product:	MAP 11-52-0 dry fertilizer				
Sample No:	21N010566				
	Commercial Value	137	137.51		
	Nitrogen, Total	11.0	11.39	%	Pass
	Overall Index Value	100	100.37	%	Pass
	Phosphate, Available as P2O5	52.0	51.67	%	
Product:	MAP 11-52-0 dry fertilizer				
Sample No:	21N010687				
	Commercial Value	137	114.20		
	Nitrogen, Total	11.0	11.93	%	Pass
	Overall Index Value	100	83.36	%	Deficient
	Phosphate, Available as P2O5	52.0	39.21	%	
Product:	MESZ dry fertilizer				
Sample No:	21N010686				
	Commercial Value	116	114.73		
	Nitrogen, Total	12.0	12.00	%	Pass
	Overall Index Value	100	98.91	%	Pass
	Phosphate, Available as P2O5	40.0	39.37	%	
	Sulfur	10	9.67	%	Pass
	Zinc, Acid Soluble	1	0.95	%	Pass
Product:	MESZ 12-40-0-10-1				

Sample No:	Analyte	Claim	Found Unit	Disposition
21N010408	Commercial Value	116	115.34	
	Nitrogen, Total	12.00	12.14 %	Pass
	Overall Index Value	100	99.43 %	Pass
	Phosphate, Available as P2O5	40.00	39.46 %	Pass
	Sulfur	10.00	9.96 %	Pass
	Zinc, Acid Soluble	1.00	0.96 %	Pass
Product: MESZ 12-40-0-10s-1z				
21N010392	Commercial Value	116	114.54	
	Nitrogen, Total	12.00	11.89 %	Pass
	Overall Index Value	100	98.74 %	Pass
	Phosphate, Available as P2O5	40.00	39.43 %	Pass
	Sulfur	10.00	9.84 %	Pass
	Zinc, Acid Soluble	1.00	0.96 %	Pass
21N010556	Commercial Value	116	115.38	
	Nitrogen, Total	12	12.24 %	Pass
	Overall Index Value	100	99.46 %	Pass
	Phosphate, Available as P2O5	40	39.33 %	Pass
	Sulfur	10	9.89 %	Pass
	Zinc, Acid Soluble	1	0.98 %	Pass
Product: MESZ 12-40-0-1z				
21N012003	Commercial Value	116	113.79	
	Nitrogen, Total	12.00	11.68 %	Pass
	Overall Index Value	100	98.09 %	Pass
	Phosphate, Available as P2O5	40.00	39.38 %	Pass
	Sulfur	10.00	9.54 %	Pass
	Zinc, Acid Soluble	1.00	0.95 %	Pass
Product: MESZ fertilizer 12-40-10-1				
21N010840	Commercial Value	116	113.91	
	Nitrogen, Total	12.00	11.75 %	Pass
	Overall Index Value	100	98.20 %	Pass
	Phosphate, Available as P2O5	40.00	39.33 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
	Sulfur	10.00	9.72 %		Pass
	Zinc, Acid Soluble	1.00	0.93 %		
Product: Microessentials SZ/MESA / dry ferti					
Sample No:	21N010293				
	Commercial Value	116	114.06		
	Nitrogen, Total	12.00	11.79 %		Pass
	Overall Index Value	100	98.33 %		Pass
	Phosphate, Available as P2O5	40.00	39.35 %		Pass
	Sulfur	5	9.62 %		Pass
	Zinc, Acid Soluble	1	0.96 %		Pass
Manufacturer: Mosaic-West Bartlow					
Product: MES 12-40-10S-1z drv fertilizer					
Sample No:	21N010441				
	Commercial Value	116	117.13		
	Nitrogen, Total	12.0	12.29 %		Pass
	Overall Index Value	100	100.98 %		Pass
	Phosphate, Available as P2O5	40.0	40.13 %		Pass
	Sulfur	10.0	9.60 %		Pass
	Zinc, Acid Soluble	1.0	0.95 %		Pass
Manufacturer: Nachurs Alpine Solutions					
Product: Nachurs 6-24-6					
Sample No:	21N003410				
	Commercial Value	72	66.34		
	Nitrogen, Total	6	5.59 %		Pass
	Overall Index Value	100	92.14 %		Deficient
	Phosphate, Available as P2O5	24	21.86 %		Deficient
	Potash, Soluble	6	5.54 %		
Sample No:	21N003417				
	Commercial Value	72	75.06		
	Nitrogen, Total	6	6.16 %		Pass
	Overall Index Value	100	104.25 %		Pass
	Phosphate, Available as P2O5	24	25.07 %		Pass
	Potash, Soluble	6	6.45 %		
Sample No:	21N003634				
	Commercial Value	72	75.80		
	Nitrogen, Total	6	8.85 %		Pass

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
		Overall Index Value	100	105.28	%	Pass
		Phosphate, Available as P2O5	24	22.64	%	Deficient
		Phosphate, Available as P2O5	6	3.99	%	
Product:	Nachurs Green Flag					
Sample No:	21N003637					
		Commercial Value	71	77.68		
		Nitrogen, Total	8	8.56	%	Pass
		Overall Index Value	100	109.41	%	Pass
		Phosphate, Available as P2O5	21	22.70	%	Pass
		Potash, Soluble	5	6.61	%	Pass
Manufacturer:	Nutrien Ag-Parkston					
Product:	AMS 20-0-0-24s drv fertilizer					
Sample No:	21N010434					
		Nitrogen, Total	20.5	21.18	%	Pass
		Sulfur	24.0	26.03	%	Pass
Product:	AMS 20-0-0-24s dry fertilizer					
Sample No:	21N010427					
		Nitrogen, Total	20.0	21.83	%	Pass
		Sulfur	24.0	25.41	%	Pass
Product:	AMS 21-0-0-24					
Sample No:	21N000098					
		Nitrogen, Total	21	20.72	%	Pass
		Sulfur	24	24.26	%	Pass
Product:	Aspire 0-0-58-.5B					
Sample No:	21N000099					
		Boron, Acid Soluble	.5	0.45	%	Pass
		Potash, Soluble	58	58.66	%	Pass
Product:	MAP 11-52-0					
Sample No:	21N000080					
		Commercial Value	137	134.85		
		Nitrogen, Total	11	10.61	%	Pass
		Overall Index Value	100	98.43	%	Pass
		Phosphate, Available as P2O5	52	51.50	%	
Product:	Mesz 12-40-0-10-1					
Sample No:	21N000097					
		Commercial Value	116	120.18		

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
		Nitrogen, Total	12	12.04	%	Pass
		Overall Index Value	100	103.60	%	
		Phosphate, Available as P2O5	40	42.02	%	Pass
		Sulfur	10	10.73	%	Pass
		Zinc, Acid Soluble	1	0.97	%	Pass
Product:	Potash 0-0-60					
Sample No:	21N000096					
		Potash, Soluble	60	59.83	%	Pass
Manufacturer:	Nutrien Ag-Vermillion-317th St					
Product:	32-0-0					
Sample No:	21N003488					
		Nitrogen, Total	32	31.25	%	Pass
Manufacturer:	Nutrien PCS Sales					
Product:	0-0-60					
Sample No:	21N000834					
		Potash, Soluble	60	60.01	%	Pass
Manufacturer:	Parkston Agland Coop					
Product:	AMS 21-0-0-24					
Sample No:	21N000092					
		Nitrogen, Total	21	21.12	%	Pass
		Sulfur	24	24.79	%	Pass
Product:	MAP 11-52-0					
Sample No:	21N000089					
		Commercial Value	137	142.68		
		Nitrogen, Total	11	11.93	%	Pass
		Overall Index Value	100	104.15	%	Pass
		Phosphate, Available as P2O5	52	53.44	%	
Product:	Potash 0-0-60					
Sample No:	21N000088					
		Potash, Soluble	60	61.40	%	Pass
Product:	Urea 46-0-0					
Sample No:	21N000091					
		Nitrogen, Total	46	46.17	%	Pass
Manufacturer:	PCI Nitrogen					
Product:	AMS 21-0-0-24s					
Sample No:	21N012000					

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
		Nitrogen, Total	20.00	20.66	%	Pass
			24.00	24.64	%	
Manufacturer:	PCS Sales, Inc					
Product:	Potash 0-0-60 drv fertilizer					
Sample No:	21N010442					
		Potash, Soluble	60.0	60.38	%	Pass
Sample No:	21N010868					
		Potash, Soluble	60.0	60.34	%	Pass
Manufacturer:	Performance Ag/Simplot					
Product:	Drv Fertilzer Blend					
Sample No:	21N011031					
		Commercial Value	127.3	131.01		
		Nitrogen, Total	36.9	37.51	%	Pass
		Overall Index Value	100	102.92	%	Pass
		Phosphate, Available as P2O5	8.3	9.24	%	Pass
		Sulfur	3	3.67	%	Pass
		Zinc, Acid Soluble	.35	0.46	%	
Manufacturer:	Potash Corp of Saskatchewan					
Product:	Potash 0-0-60					
Sample No:	21N010557					
		Potash, Soluble	60	59.67	%	Pass
Product:	Potash 0-0-60 dry fertilizer					
Sample No:	21N010433					
		Potash, Soluble	60.0	61.01	%	Pass
Manufacturer:	Prairie Ag Partners-Lake Prest					
Product:	10-34-0					
Sample No:	21N003541					
		Commercial Value	98	99.38		
		Nitrogen, Total	10	10.69	%	Pass
		Overall Index Value	100	101.40	%	Pass
		Phosphate, Available as P2O5	34	33.66	%	
Product:	28%					
Sample No:	21N003540					
		Nitrogen, Total	28.15	28.87	%	Pass
Product:	Customer Blend Fertilizer					
Sample No:	21N003530					

		Analyte	Claim	Found	Unit	Disposition
		Commercial Value	115.92	116.12		
		Nitrogen, Total	24.33	23.56 %		Pass
		Overall Index Value	100	100.17 %		Pass
		Phosphate, Available as P2O5	15.74	17.18 %		
		Potash, Soluble	11.45	11.09 %		Pass
		Sulfur	2.147	3.18 %		Pass
		Zinc, Acid Soluble	.052	0.06 %		Pass
Sample No:	21N003531					-
		Commercial Value	123.8	126.75		
		Nitrogen, Total	27.61	27.17 %		Pass
		Overall Index Value	100	102.39 %		Pass
		Phosphate, Available as P2O5	15.14	17.00 %		
		Potash, Soluble	10.69	11.24 %		Pass
Sample No:	21N003532					-
		Commercial Value	115.92	117.92		
		Nitrogen, Total	24.33	23.74 %		Pass
		Overall Index Value	100	101.73 %		Pass
		Phosphate, Available as P2O5	15.74	17.72 %		
		Potash, Soluble	11.45	11.27 %		Pass
		Sulfur	2.147	3.29 %		Pass
		Zinc, Acid Soluble	.052	0.07 %		Pass
Sample No:	21N003533					-
		Commercial Value	123.8	126.08		
		Nitrogen, Total	27.61	26.83 %		Pass
		Overall Index Value	100	101.84 %		Pass
		Phosphate, Available as P2O5	15.14	17.57 %		
		Potash, Soluble	10.69	10.45 %		Pass
Sample No:	21N003534					-
		Commercial Value	115.92	117.43		
		Nitrogen, Total	24.33	23.87 %		Pass
		Overall Index Value	100	101.30 %		Pass
		Phosphate, Available as P2O5	15.74	17.27 %		
		Potash, Soluble	11.45	11.28 %		Pass
		Sulfur	2.147	3.07 %		Pass
		Zinc, Acid Soluble	.052	0.07 %		Pass
Sample No:	21N003535					-

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Manufacturer:		Prescription Agronomics				
Product:	0-0-25-17S					
	Sample No:	21N003788				
		Commercial Value	115.92	119.10		
		Nitrogen, Total	24.33	25.14 %		Pass
		Overall Index Value	100	102.75 %		Pass
		Phosphate, Available as P2O5	15.74	16.31 %		Pass
		Potash, Soluble	11.45	11.05 %		Pass
		Sulfur	2.147	3.09 %		Pass
		Zinc, Acid Soluble	.052	0.09 %		Pass
Product:	10-34-0					
	Sample No:	21N003791				
		Potash, Soluble	25	26.15 %		Pass
		Sulfur	17	17.01 %		Pass
Product:	28-0-0					
	Sample No:	21N003789				
		Commercial Value	98	100.17		
		Nitrogen, Total	10	10.55 %		Pass
		Overall Index Value	100	102.21 %		Pass
		Phosphate, Available as P2O5	34	34.25 %		
Product:	4-0-0-9Z					
	Sample No:	21N003790				
		Nitrogen, Total	28	29.37 %		Pass
Product:	7-23-4-1S-.25Z					
	Sample No:	21N003792				
		Commercial Value	71	72.99		
		Nitrogen, Total	7	7.11 %		Pass
		Overall Index Value	100	102.81 %		Pass
		Phosphate, Available as P2O5	23	23.77 %		Pass
		Potash, Soluble	4	4.12 %		Pass
		Sulfur	1	1.55 %		Pass
		Zinc, Acid Soluble	.25	0.30 %		Pass
Product:	8-0-0-9S					
	Sample No:	21N003787				

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
	Nitrogen, Total	8	8.65 %		Pass
		9	9.55 %		
Product: 8-20-5-4S-.5Z					
Sample No: 21N003786					
	Commercial Value	69	72.44		
	Nitrogen, Total	8	8.93 %		Pass
	Overall Index Value	100	104.99 %		Pass
	Phosphate, Available as P2O5	20	20.21 %		
	Potash, Soluble	5	5.23 %		Pass
	Sulfur	4	4.72 %		Pass
	Zinc, Acid Soluble	.5	0.48 %		Pass
Manufacturer: Ramsdells					
Product: 28%					
Sample No: 21N003797					
	Nitrogen, Total	28	28.83 %		Pass
Manufacturer: SBM Life Science Corp					
Product: Nutri one essence All purpose Plant					
Sample No: 21N003577					
	Commercial Value	60	62.08		
	Magnesium, Acid Soluble	1.2	1.37 %		Pass
	Nitrogen, Total	10	10.77 %		Pass
	Overall Index Value	100	103.47 %		Pass
	Phosphate, Available as P2O5	10	9.85 %		Pass
	Potash, Soluble	13.2	10.06 %		Pass
	Sulfur		14.92 %		
Manufacturer: Scotts Miracle Gro					
Product: Miracle Grow Indoor Plant Food-Sm					
Sample No: 21N010663					
	Commercial Value	6	6.55		
	Nitrogen, Total	1.0	1.07 %		Pass
	Overall Index Value	100	109.09 %		Pass
	Phosphate, Available as P2O5	1.0	1.11 %		Pass
	Potash, Soluble	1.0	1.11 %		Pass
Product: Miracle Grow Plant Food -Small Pa					
Sample No: 21N010660					
	Commercial Value	52	53.77		

<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Iron	0.10	0.12	%	Pass
Manganese, Acid Soluble	0.05	0.06	%	
Nitrogen, Total	12	12.14	%	Pass
Overall Index Value	100	103.40	%	Pass
Phosphate, Available as P2O5	4	4.31	%	Pass
Potash, Soluble	8	8.73	%	Pass
Zinc, Acid Soluble	0.05	0.10	%	Pass

Product: Miracle Grow Quick Start-Small Pac

Sample No: 21N010661

Commercial Value	40	41.22		
Nitrogen, Total	4.00	3.68	%	Pass
Overall Index Value	100	103.05	%	Pass
Phosphate, Available as P2O5	12.00	12.70	%	Pass
Potash, Soluble	4.00	4.78	%	Pass

Product: Miracle Grow Shake and Feed-Sma

Sample No: 21N010662

Calcium	7.6	10.16	%	Pass
Commercial Value	52	57.20		
Copper	0.06	0.06	%	Pass
Iron	2.5	1.18	%	Pass
Magnesium, Acid Soluble	0.35	1.57	%	Deficient
Manganese, Acid Soluble	12	0.41	%	Pass
Nitrogen, Total	100	12.91	%	Pass
Overall Index Value	4	110.01	%	Pass
Phosphate, Available as P2O5	8	4.98	%	Pass
Potash, Soluble	3.2	8.50	%	Pass
Sulfur	0.12	3.72	%	Pass
Zinc, Acid Soluble		0.12	%	Pass

Product: Osmocote Flower and vegetable-Sm

Sample No: 21N010664

Commercial Value	84	88.30		
Nitrogen, Total	14	14.12	%	Pass
Overall Index Value	100	105.12	%	Pass
Phosphate, Available as P2O5	14	15.04	%	Pass
Potash, Soluble		15.86	%	Pass

Manufacturer: Simplot-IL

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Product: 12-40-0-6.5S-1ZN Bulk Dry Fertilize					
Sample No:	21N010303				
	Commercial Value	116	118.08		
	Nitrogen, Total	12	12.49 %		Pass
	Overall Index Value	100	101.79 %		Pass
	Phosphate, Available as P2O5	40	40.30 %		Pass
	Sulfur	6.5	6.51 %		Pass
	Zinc, Acid Soluble	1	1.07 %		Pass
Manufacturer: Simplot-Pocatello					
Product: Dry Fertilizer					
Sample No:	21N010971				
	Commercial Value	137	141.08		
	Nitrogen, Total	11.00	11.25 %		Pass
	Overall Index Value	100	102.98 %		Pass
	Phosphate, Available as P2O5	52.00	53.67 %		
Product: MAP 11-52-0					
Sample No:	21N010562				
	Commercial Value	137	139.20		
	Nitrogen, Total	11.00	11.69 %		Pass
	Overall Index Value	100	101.60 %		Pass
	Phosphate, Available as P2O5	52.00	52.06 %		Pass
Manufacturer: Sinai Coop Elevator					
Product: Customer Blend Fertilizer					
Sample No:	21N003273				
	Commercial Value	112.67	114.87		
	Nitrogen, Total	23.35	22.85 %		Pass
	Overall Index Value	100	101.95 %		Pass
	Phosphate, Available as P2O5	14.39	15.53 %		Pass
	Potash, Soluble	13.84	15.26 %		Pass
	Sulfur	2.21	3.06 %		Pass
Sample No:	21N003274				
	Commercial Value	112.67	119.84		
	Nitrogen, Total	23.35	26.44 %		Pass
	Overall Index Value	100	106.37 %		Pass
	Phosphate, Available as P2O5	14.39	13.42 %		Deficient
	Potash, Soluble	13.84	13.70 %		

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Manufacturer:	Southeast Farmer's Coop-Burb					
Product:	AMS (21-0-0-24)					
	Sample No:	21N003465				
		Sulfur	2.21	2.50	%	Pass
		Nitrogen, Total	21	21.28	%	Pass
		Sulfur	24	24.45	%	Pass
Product:	Custom Blend dry fertilizer for Robe					
	Sample No:	21N010841				
		Commercial Value	115.1	114.82		
		Nitrogen, Total	12.0	11.42	%	Pass
		Overall Index Value	100	99.76	%	Pass
		Phosphate, Available as P2O5	30.7	30.06	%	Pass
		Potash, Soluble	17.7	20.43	%	Pass
		Sulfur	0.6	5.10	%	Pass
Product:	Customer blend (Mix ticket-23126)					
	Sample No:	21N003466				
		Commercial Value	126.5	130.00		
		Nitrogen, Total	27.5	28.21	%	Pass
		Overall Index Value	100	102.77	%	Pass
		Phosphate, Available as P2O5	16.5	17.33	%	Pass
		Potash, Soluble	11.0	10.72	%	Pass
Product:	Customer Blend (Mix Ticket-23137)					
	Sample No:	21N003462				
		Nitrogen, Total	43.3	43.91	%	Pass
		Sulfur	2.6	3.18	%	Pass
Product:	DAP (18-46-0)					
	Sample No:	21N003467				
		Commercial Value	146	146.74		
		Nitrogen, Total	18	17.68	%	Pass
		Overall Index Value	100	100.51	%	Pass
		Phosphate, Available as P2O5	46	46.84	%	Pass
Product:	Potash (0-0-60)					
	Sample No:	21N003468				
		Potash, Soluble	60	60.04	%	Pass
Product:	UREA (46-0-0)					
	Sample No:	21N003464				

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product:	Zinc	Nitrogen, Total	46	46.87 %	Pass
	Sample No:				
	21N003487	Zinc, Acid Soluble	35	37.03 %	Pass
Manufacturer:	Tabor Lumber Coop				
Product:	Custom blend				
	Sample No:				
	21N003760	Boron, Acid Soluble	.2	0.21 %	Pass
		Commercial Value	122.9	125.92	
		Nitrogen, Total	100	29.32 %	Pass
		Overall Index Value	14.8	102.46 %	Pass
		Phosphate, Available as P2O5	5.7	14.91 %	Pass
		Potash, Soluble	3.4	8.14 %	Pass
		Sulfur		6.64 %	
Product:	MAP (11-52-0)				
	Sample No:				
	21N003762	Commercial Value	137	139.95	
		Nitrogen, Total	11	12.57 %	Pass
		Overall Index Value	100	102.15 %	Pass
		Phosphate, Available as P2O5	52	50.84 %	
Product:	Potash (0-0-60)				
	Sample No:				
	21N003763	Potash, Soluble	60	58.88 %	Pass
Product:	Sulfur 90%				
	Sample No:				
	21N003764	Sulfur	90	91.36 %	Pass
Product:	Urea (46-0-0)				
	Sample No:				
	21N003761	Nitrogen, Total	46	47.44 %	Pass
Manufacturer:	The Andersons				
Product:	11-0-0-24s				
	Sample No:				
	21N003799	Nitrogen, Total	11	11.86 %	Pass
		Sulfur	24	23.94 %	Pass
Product:	Bonu\$ Plus				
	Sample No:				
	21N003891				

<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Commercial Value	65	64.20		
Nitrogen, Total	8	7.76 %		Pass
Overall Index Value	100	98.77 %		Pass
Phosphate, Available as P2O5	16	16.24 %		Pass
Potash, Soluble	9	8.44 %		Pass
Sulfur	1	1.33 %		Pass
Zinc, Acid Soluble	0.45	0.47 %		Pass

Product: Bonu\$ Soy

Sample No: 21N003890

Commercial Value	54	57.87		
Nitrogen, Total	3	3.26 %		Pass
Overall Index Value	100	107.17 %		Pass
Phosphate, Available as P2O5	15	16.53 %		Pass
Potash, Soluble	15	15.03 %		Pass
Sulfur	1	1.25 %		Pass
Zinc, Acid Soluble	0.20	0.21 %		Pass

Manufacturer: The Espoma Company

Product: Espoma Organic Bulb-Tone drv ferti

Sample No: 21N010671

Calcium	6.0	10.47 %		Pass
Commercial Value	22	30.68		
Magnesium, Acid Soluble	1.0	1.04 %		Pass
Magnesium, Water Soluble	0.6	0.95 %		Pass
Nitrogen, Total	3.0	4.81 %		Pass
Overall Index Value	100	139.43 %		Pass
Phosphate, Available as P2O5	5.0	6.24 %		Pass
Potash, Soluble	3.0	3.77 %		Pass
Sulfur	1.0	1.43 %		Pass

Product: Espoma Organic Fish Fertilizer liqui

Sample No: 21N010674

Commercial Value	14.1	14.50		
Nitrogen, Total	2.6	2.62 %		Pass
Overall Index Value	100	102.87 %		Pass
Phosphate, Available as P2O5	3.0	3.21 %		Pass
Potash, Soluble	0.3	0.23 %		Pass

Product: Espoma Organic Iron-tone dry fertili

Sample No:	21N010673	Analyte	Claim	Found Unit	Disposition
		Calcium	5.0	4.64 %	Pass
		Commercial Value	12	13.66	
		Iron	0.7	3.84 %	Deficient
		Magnesium, Acid Soluble	0.4	1.15 %	Pass
		Magnesium, Water Soluble	3.0	0.94 %	Pass
		Nitrogen, Total	100	3.53 %	Pass
		Overall Index Value	3.0	113.87 %	Pass
		Potash, Soluble	17.0	3.08 %	Pass
		Sulfur		18.94 %	Pass
Product:	Espoma Triple Phosphate dry fertiliz				
Sample No:	21N010672				
		Phosphate, Available as P2O5	45.0	45.62 %	Pass
Manufacturer:	The Scotts Company				
Product:	Osmocote Plus dry fertilizer Small				
Sample No:	21N010677				
		Boron, Acid Soluble	0.02	0.02 %	Pass
		Commercial Value	75	76.32	
		Copper	0.46	0.08 %	Pass
		Iron	1.3	0.50 %	Pass
		Magnesium, Acid Soluble	0.9	1.41 %	Pass
		Magnesium, Water Soluble	0.06	1.22 %	Pass
		Manganese, Acid Soluble	15	0.09 %	Pass
		Nitrogen, Total	100	14.89 %	Pass
		Overall Index Value	9	101.76 %	Pass
		Phosphate, Available as P2O5	12	9.30 %	Pass
		Potash, Soluble	6.0	13.04 %	Pass
		Sulfur	0.05	6.72 %	Pass
		Zinc, Acid Soluble	0.019	0.07 %	Pass
		Zinc, Water Soluble		0.05 %	Pass
Product:	Osmocote Plus- Outdoor & Indoor				
Sample No:	21N003576				
		Boron, Acid Soluble	.02	0.03 %	Pass
		Commercial Value	75	82.27	
		Copper	.46	0.08 %	Pass
		Iron		0.52 %	Pass

<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Magnesium, Acid Soluble	1.3	1.54	%	Pass
Manganese, Acid Soluble	.06	0.10	%	
Molybdenum	.02	0.03	%	Pass
Nitrogen, Total	15	16.74	%	Pass
Overall Index Value	100	109.70	%	Pass
Phosphate, Available as P2O5	9	9.69	%	Pass
Potash, Soluble	12	12.68	%	Pass
Sulfur	6	7.40	%	Pass
Zinc, Acid Soluble	.05	0.07	%	Pass

Product: Scotts Flower & Vegetable

Sample No: 21N003578

Commercial Value	60	61.66		
Nitrogen, Total	10	9.92	%	Pass
Overall Index Value	100	102.78	%	Pass
Phosphate, Available as P2O5	10	10.20	%	Pass
Potash, Soluble	10	11.50	%	Pass
Sulfur	2	2.66	%	Pass

Product: Scotts Rose & Bloom

Sample No: 21N003582

Commercial Value	52	55.97		
Nitrogen, Total	12	12.59	%	Pass
Overall Index Value	100	107.63	%	Pass
Phosphate, Available as P2O5	4	4.63	%	Pass
Potash, Soluble	8	8.95	%	Pass
Sulfur	2.2	3.08	%	Pass

Manufacturer: TruGreen

Product: test for 17-0-5 Urea. Potassium Chl

Sample No: 21N002625

Nitrogen, Total	0	0.29	%	
Potash, Soluble	0	0.17	%	

Manufacturer: Tulare Fertilizer

Product: Fertilizer Drv Custom Blend

Sample No: 21N010914

Potash, Soluble	18	17.52	%	Pass
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Product: Straight Dry

Sample No: 21N010915

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Manufacturer:	Ultra Yield Micronutrients	Potash, Soluble	17	16.17 %	Pass
Product:	Ultra Yield				
Sample No:	21N003408				
		Sulfur	17.5	16.51 %	Pass
		Zinc, Acid Soluble	35.5	32.21 %	Deficient
Manufacturer:	Van Diest				
Product:	Sulfur				
Sample No:	21N001588				
		Sulfur	90	89.68 %	Pass
Product:	Sulfur fertilizer				
Sample No:	21N011764				
		Sulfur	90	89.53 %	Pass
Manufacturer:	Volga Ag Center				
Product:	Customer Blend Fertilizer				
Sample No:	21N003259				
		Nitrogen, Total	37	39.25 %	Pass
		Sulfur	8	7.27 %	Deficient
Sample No:	21N003260				
		Commercial Value	113	120.07	
		Nitrogen, Total	28	30.00 %	Pass
		Overall Index Value	100	106.25 %	Pass
		Phosphate, Available as P2O5	9	9.63 %	Pass
		Potash, Soluble	11	10.81 %	Pass
		Sulfur	2	2.78 %	Pass
Sample No:	21N003261				
		Commercial Value	87	88.14	
		Nitrogen, Total	7	7.36 %	Pass
		Overall Index Value	100	101.31 %	Pass
		Phosphate, Available as P2O5	21	20.29 %	Pass
		Potash, Soluble	24	25.48 %	Pass
		Sulfur	4	4.39 %	Pass
		Zinc, Acid Soluble	1	1.16 %	Pass
Manufacturer:	VPG				
Product:	Fish Emulsion Fertilizer				
Sample No:	21N001957				

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Manufacturer:	West-Con Cooperative				
Product:	MAP				
Sample No:	21N003492				
	Commercial Value	18	21.12		
	Nitrogen, Total	5.0	5.45 %		Pass
	Overall Index Value	100	117.34 %		Pass
	Phosphate, Available as P2O5	1.0	1.96 %		Pass
	Potash, Soluble	1.0	0.84 %		
Product:	Potash				
Sample No:	21N001589				
	Commercial Value	137	142.04		
	Nitrogen, Total	11	11.42 %		Pass
	Overall Index Value	100	103.68 %		Pass
	Phosphate, Available as P2O5	52	53.89 %		
Manufacturer:	Western Consolidated Coop				
Product:	AMS				
Sample No:	21N003494				
	Nitrogen, Total	21	21.07 %		Pass
	Sulfur	24	23.55 %		Pass
Manufacturer:	Wheaton Dumont				
Product:	0-0-60				
Sample No:	21N000071				
	Potash, Soluble	60	63.90 %		Pass
Product:	11-52-0				
Sample No:	21N000073				
	Commercial Value	137	136.29		
	Nitrogen, Total	11	11.03 %		Pass
	Overall Index Value	100	99.48 %		Pass
	Phosphate, Available as P2O5	52	51.60 %		
Product:	18-46-0				
Sample No:	21N000074				
	Commercial Value	146	143.56		
	Nitrogen, Total	18	17.43 %		Pass
	Overall Index Value	100	98.33 %		Pass
	Phosphate, Available as P2O5	46	45.63 %		

		<u>Analyte</u>	<u>Claim</u>	<u>Found Unit</u>	<u>Disposition</u>
Product:	21-0-0-24				
Sample No:	21N000072				
		Nitrogen, Total	21	20.42 %	Pass
		Sulfur	24	24.60 %	Pass
Product:	46-0-0				
Sample No:	21N000075				
		Nitrogen, Total	46	45.67 %	Pass
Manufacturer:	Wilbur Ellis- Tulare				
Product:	Dry Fertilizer Custom Blend				
Sample No:	21N011009				
		Boron, Acid Soluble	.037	0.05 %	Pass
		Commercial Value	98.36	100.17	
			.147		
		Manganese, Acid Soluble	1.5000	0.26 %	Pass
		Molybdenum	11.32	0.00 %	Deficient
			100	11.34 %	
		Nitrogen, Total	27.37	101.84 %	Pass
		Overall Index Value	9.66	26.05 %	Pass
			7.811	14.06 %	
		Phosphate, Available as P2O5	.737	7.43 %	Deficient
		Potash, Soluble		1.17 %	Pass
		Sulfur			Pass
		Zinc, Acid Soluble			
Manufacturer:	Winfield Solutions- St. Paul				
Product:	Boron- 15%				
Sample No:	21N003765				
		Boron, Acid Soluble	15	14.50 %	Pass
Product:	Groundwork All Purpose Fertilizer				
Sample No:	21N003255				
		Commercial Value	72	70.21	
			12		
		Nitrogen, Total	100	11.85 %	Pass
		Overall Index Value	12	97.51 %	Deficient
			12	11.55 %	
		Phosphate, Available as P2O5		11.56 %	Pass
		Potash, Soluble			
Product:	Groundwork Starter Fertilizer				
Sample No:	21N003253				
		Commercial Value	108	108.42	
			18		
		Nitrogen, Total	100	18.23 %	Pass
		Overall Index Value		100.39 %	Pass

	<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
	Phosphate, Available as P2O5	24 6	23.91 % 5.90 %		Pass
Manufacturer: Winfield Solutions, LLC - Ames					
Product: Dap 18-46-0 drv fertilizer					
Sample No: 21N010870					
	Commercial Value	146	149.04		
	Nitrogen, Total	18.0	18.19 %		Pass
	Overall Index Value	100	102.09 %		Pass
	Phosphate, Available as P2O5	46.0	47.23 %		
Manufacturer: Winfield Solutions, LLC DBA W					
Product: Optistart Gold					
Sample No: 21N001587					
	Commercial Value	63	73.45		
	Manganese, Acid Soluble	.05 6	0.40 %		Pass
	Nitrogen, Total	100	6.95 %		Pass
	Overall Index Value	20	116.59 %		Pass
	Phosphate, Available as P2O5	5	24.60 %		Pass
	Potash, Soluble	5	3.40 %		Pass
	Potash, Soluble (STPB)	2	3.75 %		Deficient
	Sulfur	.1	1.91 %		Deficient
	Zinc, Acid Soluble		0.09 %		Pass
Manufacturer: Winfield United-Clarks Grove					
Product: Ammonia Sulfate drv fertilizer					
Sample No: 21N010863					
	Nitrogen, Total	21.0	21.29 %		Pass
	Sulfur	24.0	23.79 %		Pass
Manufacturer: Zinc Nacional, SA					
Product: Zinc Sulfate 35.5%					
Sample No: 21N003266					
	Sulfur	17.5	18.14 %		Pass
	Zinc, Acid Soluble	35.5	37.09 %		Pass

2021 Fertilizer Analyte Totals

Analyte	Unit	Count
Boron, Acid Soluble	%	10.00
Calcium	%	9.00
Commercial Value	%	175.00
Commercial Value (STPB)	%	1.00
Copper	%	4.00
Iron	%	8.00
Magnesium, Acid Soluble	%	12.00
Magnesium, Water Soluble	%	4.00
Magnesium, Acid Soluble	%	7.00
Moisture	%	2.00
Molybdenum	%	3.00
Nitrogen, Total	%	322.00
Overall Index Value	%	175.00
Overall Index Value (STPB)	%	1.00
Phosphate, Available as P2O5	%	181.00
Phosphate, Available as P2O5	%	3.00
Potash, Soluble	%	152.00
Potash, Soluble (STPB)	%	4.00
Sulfur	%	136.00
Zinc, Acid Soluble	%	70.00
Zinc, Water Soluble	%	1.00
Total Fertilizer Analyses:		1,280.00

Report Year 2022

txtGrade	txtTotal
.1-.75-.75-3-1	9.67
.5.5.5	1.20
.7-.3-.3	3.30
0.13-0.04-0.13	18.00
0.3-0.01-0.4	2.00
0.3-0.05-0.1	11.61
0.3-0.12-0.12	68.64
0.7-6-5	0.16
00.5-00-00.5	1.19
0-0-0	0.54
00-00-0.2	0.04
00-00-00	258,756.13
00-00-00-.5-1-2-2-.0	0.00
00-00-00-0.02-0.005-	5.70
00-00-00-14.3	0.00
00-00-01	68.54
00-00-01-0.02-.005-	1.50
00-00-1	2.65
00-00-12	1.03
00-00-19	55.62
00-00-19-1	2.90
00-00-2	2.53
00-00-22	27.30
00-00-24	4.39
00-00-25-17	62.51
00-00-50	1,266.00
00-00-60	126,052.36
00-00-62	3,504.13
00-07-00	1.08
0-0-1	40.31
0-0-19	3.10
0-0-2	1.48
00-20-20	40.05
0-0-23-8	11.00
0-0-24	12.65
0-0-25	48.91
00-25-17	46.18
00-3-00	2,056.80
0-0-5	0.04
0-0-52-10	3.10
0-0-53	5.38
0-0-54	0.38
00-54-00	1,329.27
0-0-6	0.93
0-0-60	395.05
00-60	0.00
0-0-62	0.00
00-68-00	5,953.51
01-00-00	1.00
01-01-01	0.00
0-12-24	6.83

0-1-3	0.27
02-00-00	66.00
02-00-02	4.87
02-02-01	2,339.00
0-3-0	0.04
03-00-00	0.05
04-13-17	25.38
0-4-5	0.16
0-52-34	3.30
0-60-20	20.30
06-18-06	46.41
06-20-05	26.33
06-20-5	26.33
06-24-06	2,691.85
06-24-6	25.01
07-23-01	46.06
07-23-05	754.47
07-29-05	67.30
08-02-04	0.25
08-16-11	154.42
08-20-5-25	223.81
08-21-05	199.02
08-23-04	1,035.45
0-9-18	31.05
1-.5-5	0.01
1-0-0	13.10
10-00-00	21.95
10-0-10	0.03
10-10-10	138.72
10-18-4	1,082.60
10-18-6	37.00
10-20-10	90.00
10-2-10	1.00
1-0-3	6.51
10-34-0	45.98
10-34-0	122,911.00
10-34-00	19,860.43
10-52-17	0.01
11-00-00	167.78
11-0-0-24	102.63
11-11-11	5.00
11-28-18	1.73
11-48-00	897.81
11-52-00	194,378.95
12-00-00	9,258.57
12-10-10	0.01
12-12-12	16.14
12-16-8	14.98
12-24-24	1.00
12-24-6	19.20
12-28-12	10.10
12-39-00	28.48
1-2-4	0.55
12-40-00-10	270.70
12-40-0-10	294.20

12-44-10	8.90
12-45-0-5-1	15.00
12-51-00	935.49
12-61-0	5.00
12-61-1	0.74
12-6-6	1.00
13-0-6	12.00
13-13-13	94.00
13-2-13	3.05
13-3-40	0.70
1-3-5	0.16
13-5-8	5.00
1-4-.5	0.04
14-0-0	5.02
14-2-4	0.01
1-4-3	0.01
15-0-0	30.03
15-00-04	7.00
15-0-0-6-4	1.90
15-0-4	24.00
15-0-5	46.10
15-23-10	19.00
16-0-9	0.06
16-16-16	7.00
16-20-00	652.68
16-4-8	0.19
17-00-05	76.11
17-03-03	11.00
17-0-4	5.00
17-18-28	0.01
18-0-3	40.00
18-0-6	18.00
18-3-6	3.00
18-46-00	24,798.01
1-8-5	0.83
18-6-8	2.00
19-19-19	12.00
20.5-0-0	3,180.54
20.5-00-00	10,114.14
20.5-00-00-24	32.28
20.5-0-0-24	33.30
2-0-0	0.44
20-0-9	37.00
20-1-1-3	459.43
20-12-8	0.20
20-14-12	80.35
2-0-2	140.03
20-20-10	1.00
20-20-20	0.72
20-21-20	0.01
20-3-5	10.10
2-0-4	0.83
20-7-10	5.00
2-1-0	6.80
2-10-0	0.88

21-00-00	98,438.16
21-0-0-24	1,614.77
21-0-4	31.00
21-0-5	53.00
21-0-6	3.32
21-0-7	11.00
2-1-1	0.02
2-12-3	0.68
2-15-15	0.03
21-7-14	44.00
21-8-10	10.00
2-2-0	96.35
22-0-10	101.60
22-0-4	70.20
22-0-5	20.00
22-24-12	0.04
23-0-10	16.00
2-3-3	6.00
2-4-5	0.03
24-0-0	3.00
24-0-0-4	1,267.07
24-0-3	48.00
24-0-4	109.50
24-3-11	1.00
24-5-10	43.30
25-0-0-0.5	75.88
25-0-0-0-.5	20.08
25-00-05	132.00
25-02-05	6.00
25-0-5	352.00
25-0-6	89.00
26-0-0	20.81
26-0-10	5.00
26-0-3	236.64
26-0-4	47.90
27-0-3	4.73
27-0-5	1.07
28-00-00	228,497.14
28-0-0-8	266.50
28-0-3	237.10
28-05-10	4.00
2-8-20	2.34
28-2-0	127.32
28-3-10-2	13.00
2-8-4	0.12
29-0-5	8.00
3.5-3-1	1,110.49
3-0-0	6.00
30-00-00	70.82
30-0-10	10.00
30-0-3	132.10
30-0-4	14.10
30-0-5	10.00
3-0-1	6.33
30-10-10	1.00

3-0-2	0.55
3-0-20	65.94
3-0-4	220.00
30-7-10	18.40
3-1-2	0.01
3-14-14	190.11
3-15-15	174.82
3-18-18	146.72
32-00-00	255,941.85
32-0-10	1.89
32-0-4	31.20
3-2-1	0.03
3-2-2	15.68
32-7-7	18.20
3-3-9	6.78
34-00-00	372.12
34-0-6	13.40
36-0-6	11.00
4-0-0	426.26
40-0-0-5.5	4.30
40-0-3	5.00
4-0-1	0.17
4-0-10	0.90
4-0-5	0.17
4-13-17-1	255.86
4-2-0	0.01
4-2-4	0.01
4-3-0	31.20
4-3-2	119.00
44-0-0	717.16
44-00-00	1,603.64
4-4-4	172.07
45-0-0	0.03
46-0-0	24.00
46-00-00	648,680.58
4-6-4	25.00
4-7-7	35.32
4-7-7-.02	19.40
5-0-0	2.00
5-10-27	12.00
5-10-5	1.08
5-11-6-.25-1.04- .67-	10.26
5-11-6-.25-1.04- 0.67	29.67
5-13-3-.12	51.30
5-14-8	0.08
5-28-0	54.00
5-5-5	11.24
5-9-9-1-.25-.10-.5- 60	0.55
6-00-00	27.35
6-0-1	0.09
6-0-1	0.06
6-18-6	205.53
6-2-0	0.10

6-22-2	183.05
6-24-6	2,026.38
6-4-0	287.12
6-4-3	2.53
6-6-6	2.87
7-0-0-8	188.96
7-1-2	0.01
7-12-1	15.20
7-18-6	162.94
7-18-6	29.90
7-20-5	1,507.44
7-2-2	0.04
7-23-05	754.47
7-23-5	30.51
7-28-4	12.85
7-38-0	0.01
8-0-0	33.97
8-0-0-10	1.10
8-10-2	3.45
8-16-8	0.03
8-16-9-1-.5	2,106.65
82-00-00	15,649.37
8-20-5	103.87
8-20-5-4	76.16
8-21-15	31.00
8-21-5	1,258.77
8-2-2	0.04
8-23-4	684.01
8-2-4	5.72
8-4-4	1.00
8-4-6	48.07
9-0-0	0.07
9-18-9	169.11
9-24-3	20.67
9-53-0	1.00
998	3,087.76
Manure	62,720.32
	2,132,749.13