

**FERTILIZER
ANNUAL REPORT**

JANUARY 1, 2020

TO

DECEMBER 31, 2020



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2020 COMMERCIAL FERTILIZER ANNUAL REPORT

The South Dakota Department of Agriculture, Division of Agricultural Services, Office of Agronomy Services 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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2020 FERTILIZER MANUFACTURER SAMPLE REPORT

Manufacturer:

		BonHam		Tx			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
-	39.00	3.00	0.00	7.00	49		13
Ag First-Aurora		Aurora		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	26.00	0.00	0.00	6.00	32		6
Agri Partners		Clear Lake		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	10.00	0.00	0.00	2.00	12		2
Agrium-Loveland, CO		Loveland		CO			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	5.00	0.00	0.00	1.00	6		2
Agtegra Coop-Wolsey		Wolsey		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>
	13.00	2.00	0.00	3.00	18		6
Agtegra Fertilizer-Aberdeen		Aberdeen		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	4.00	0.00	0.00	1.00	5		2
Agtegra Ipswich Agronomy		Ipswich		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	3.00	0.00	0.00	1.00	4		1
Agtegra-Bristol		Bristol		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>
	6.00	0.00	0.00	1.00	7		4
Agtegra-Kennebec	Kennebec		SD				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	26.00	6.00	0.00	6.00	38		14
Agtegra-Mellette	Mellette		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>
	1.00	0.00	0.00	0.00	1		1
Agtegra-Redfield-E 3rd St	Redfield		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>
	7.00	0.00	0.00	1.00	8		4
Agtegra-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>
	2.00	0.00	0.00	0.00	2		1
Agtegra-Warner	Warner		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>
	14.00	0.00	0.00	2.00	16		8
Agwrx-Clark	Clark		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>
	7.00	0.00	0.00	1.00	8		4
Aurora Coop-Mitchell	Mitchell		SD				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	10.00	0.00	0.00	2.00	12		4
BCA Products	Sleepy Eye		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>
	18.00	1.00	0.00	2.00	21		2
Bremer's Farm Supply	Colton		SD				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	10.00	0.00	0.00	1.00	11		5
Bridgewater CHS	Bridgewater		SD				

Manufacturer:						
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	8.00	2.00	0.00	1.00	11	4
Bruce Prody	Artesian		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>
	6.00	1.00	0.00	1.00	8	2
Cameron Chemicals Inc.	Virginia Beach		VA			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	1.00	0.00	0.00	0.00	1	1
Castlewood Farmers Elevator	Castlewood		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>
	13.00	1.00	0.00	4.00	18	3
Central Farmers Coop- Fremar, LLC-Salem	Salem		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>
	7.00	0.00	0.00	1.00	8	4
Central Farmers Coop/Fremar, LLC-Salem	Salem		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	8.00	0.00	0.00	1.00	9	5
Central Farmers Coop/Fremar, LLC-Scotland	Scotland		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	20.00	0.00	0.00	3.00	23	8
Central Farmers Coop-Marion	Marion		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	54.00	3.00	0.00	19.00	76	21
Central Valley Ag-Oneill	Oneill		NE			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	1.00	0.00	0.00	0.00	1	1
CF Industries-Sergeant Bluff	Sergeant Bluff		IA			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	15.00	0.00	0.00	0.00	15	15
Chem One LTD	Houston		TX			

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	2.00	0.00	0.00	0.00	2		1
CHS Northern Plains-Faulkton	Faulkton		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>
	12.00	0.00	0.00	2.00	14		5
CHS-Colton	Colton		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>
	38.00	6.00	0.00	6.00	50		23
CHS-Dante	Dante		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>
	9.00	0.00	0.00	1.00	10		4
CHS-Elkton	Elkton		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>
	16.00	1.00	0.00	3.00	20		4
CHS-Sisseton	Sisseton		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>
	12.00	0.00	0.00	2.00	14		5
CHS-St. Paul	St. Paul		MN				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	2.00	0.00	0.00	0.00	2		1
CHS-Wagner	Wagner		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>
	25.00	3.00	0.00	4.00	32		7
CHS-Watertown-28th Ave	Watertown		SD				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	13.00	0.00	0.00	2.00	15		7
CHS-Worthing	Worthing		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>
	80.00	19.00	0.00	19.00	118		33
Clark Community Oil-Kansas St	Clark		SD				

Manufacturer:

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
7.00	0.00	0.00	1.00	8		4

Cloud Peak Farmers Co-op

Sheridan

WY

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

CVA Royal

Royal

NE

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

Dakota Fertilizer-Canton

Canton

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>
11.00	1.00	0.00	2.00	14		5

Deuel County Farmers Oil Union

Toronto

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>
1.00	0.00	0.00	0.00	1		1

Easy Gardener Inc

Waco

TX

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
45.00	1.00	0.00	12.00	58		11

Eau Claire Coop

EauClaire

WI

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
6.00	0.00	0.00	2.00	8		2

Estelline Community Oil Company

Estelline

SD

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
4.00	0.00	0.00	1.00	5		1

EuroChem North America Corp

Tulsa

OK

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

Farmers Ag Center-Madison

Madison

SD

<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
15.00	0.00	0.00	2.00	17		7

Farmers Alliance-Mitchell

Mitchell

SD

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	1.00	0.00	0.00	0.00	1		1
Farmers Coop Elevator-Avon	Avon		SD				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	10.00	0.00	0.00	2.00	12		5
Farmers Elevator-Humboldt	Humboldt		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>
	21.00	1.00	0.00	4.00	26		11
Ferney Farmer's COOP	Ferney		SD				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	4.00	0.00	0.00	1.00	5		2
Full Circle Ag - Pierpont	Pierpont		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>
	7.00	0.00	0.00	1.00	8		4
Full Circle Ag-Britton	Britton		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>
	11.00	0.00	0.00	2.00	13		6
Gavilon Fertilizer LLC-Savannah	Savannah		GA				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	14.00	0.00	0.00	3.00	17		6
Gavilon-St. Paul	St. Paul		MN				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	1.00	0.00	0.00	0.00	1		1
Helena Agri-Enterprises, LLC	Madison		SD				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	13.00	1.00	0.00	3.00	17		6
Helena Chemical-Clear Lake	Clear Lake		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>
	17.00	3.00	0.00	4.00	24		4
Helena-Marshall	Marshall		MN				

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	4.00	1.00	0.00	1.00	6		1
International Mulch Company	Des Peres		MO				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	18.00	1.00	0.00	3.00	22		5
J.R. Peters Inc.	Allentown		PA				
	<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>
	44.00	2.00	0.00	6.00	52		4
Knox Fertilizer Company, Inc.	Knox		IN				
	<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>
	49.00	0.00	0.00	6.00	55		6
Koch Fertilizer LLC-Wichita	Wichita		KS				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	4.00	0.00	0.00	1.00	5		2
Koch Fertilizer, LLC-Brandon	Brandon		SD				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	3.00	0.00	0.00	1.00	4		1
LaBolt Farmers Grain	LaBolt		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>
	7.00	0.00	0.00	1.00	8		4
Landis Ag Chemical Sales	Colman		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>
	7.00	0.00	0.00	1.00	8		4
Landis Ag Sales	Colman		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>
	7.00	0.00	0.00	1.00	8		4
Lesco, Inc.	Cleveland		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>
	11.00	2.00	0.00	4.00	17		4
Lily Miller Brands	Atlanta		GA				

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>
	8.00	0.00	0.00	2.00	10		2
Martin Resources	Kilgore		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>
	1.00	0.00	0.00	0.00	1		1
Mears Fertilizer, Inc.	El Dorado		KS				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	11.00	0.00	0.00	3.00	14		3
Miracle-Gro Lawn Inc - Maryville	Maryville		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>
	98.00	0.00	0.00	18.00	116		20
Missouri River Farms-Yankton	Yankton		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>
	9.00	0.00	0.00	2.00	11		4
Montana Sulphur & Chemical Company	Billings		MT				
<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>	
0.00	1.00	0.00	0.00	1		1	
Mosaic Global Sales LLC C/O 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>
	12.00	0.00	0.00	3.00	15		4
Mosaic Global Sales, LLC-Lithia	Lithia		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>
	29.00	2.00	0.00	8.00	39		11
Nutren Ag Solutions	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>
	14.00	1.00	0.00	2.00	17		7
Nutrien Ag Solutions - Elk Point	Elk Point		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>
	7.00	0.00	0.00	1.00	8		4
Nutrien Ag Solutions - Emery	Emery		SD				

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	12.00	0.00	0.00	2.00	14		5
Origination Inc. - 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>
	6.00	0.00	0.00	0.00	6		3
Perscription Agronomics	Ipswich		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>
	6.00	0.00	0.00	1.00	7		1
Prairie Ag Partners	Arlington		SD				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	3.00	0.00	0.00	1.00	4		1
Prairie Ag Partners - Badger	Badger		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>
	5.00	0.00	0.00	1.00	6		2
Prairie Ag-Arlington	Arlington		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>
	2.00	0.00	0.00	0.00	2		1
Prescription Agronomics	Ipswich		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>
	24.00	0.00	0.00	4.00	28		4
Rivers Edge Cooperative	Flandreau		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>
	11.00	0.00	0.00	2.00	13		6
Roslyn Elevator	Roslyn		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>
	6.00	1.00	0.00	1.00	8		4
SBM Life Science Corp	Cary		NC				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	5.00	0.00	0.00	1.00	6		1
Scotts Miracle Gro	Maryville		OH				

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>
	15.00	2.00	0.00	4.00	21		4
Shafer's Fisheries, Inc.	Thomson		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>
	4.00	0.00	0.00	1.00	5		1
Simplot Grower Solutions-Beresford	Beresford		SD				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	20.00	3.00	0.00	3.00	26		13
Sinai Coop Elevator	Sinai		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>
	6.00	2.00	0.00	2.00	10		2
Southeast Farmer's Coop-Burbank	Burbank		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>
	7.00	0.00	0.00	1.00	8		4
Tabor Lumber Co.	Tabor		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>
	6.00	2.00	0.00	2.00	10		4
The Espoma Company	Millville		NJ				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	27.00	0.00	0.00	5.00	32		5
The Hawthorne Gardening Co.	Port Washington		NY				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	4.00	0.00	0.00	1.00	5		1
The Scotts Company	Maryville		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>
	31.00	0.00	0.00	7.00	38		6
Ultra Yield Micronutrients	Moxee		WA				
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>		<u>Total Tests</u>	<u>Total Samples</u>
	4.00	2.00	0.00	0.00	6		3
Upfront Agronomy	Springfield		SD				

Manufacturer:

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	10.00	0.00	0.00	2.00	12	5
Valley Ag Supply	Elk Point		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	8.00	0.00	0.00	1.00	9	4
Valley Ag Supply-Gayville	Gayville		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>
	13.00	0.00	0.00	2.00	15	6
Valley Ag-Spink/Elk Point	Elk Point		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>
	19.00	2.00	0.00	3.00	24	9
Valley Central Cooperative	Hartford		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>
	13.00	0.00	0.00	2.00	15	7
Valley Spring Farmers Coop	Valley Springs		SD			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	20.00	3.00	0.00	4.00	27	11
Verdesian Life Sciences	Cary		NC			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	5.00	0.00	0.00	0.00	5	1
Vogel Seed and Fertilizer	Jackson		WI			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	29.00	2.00	0.00	4.00	35	4
Volga Ag Center	Volga		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>
	18.00	2.00	0.00	4.00	24	4
VPG	BonHam		TX			
	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	4.00	0.00	0.00	1.00	5	1
Wheaton Dumont	New Effington		SD			

	<u>Total Pass</u>	<u>Total Fail</u>	<u>Total Canceled</u>	<u>Total No Disposition</u>	<u>Total Tests</u>	<u>Total Samples</u>
	10.00	0.00	0.00	2.00	12	5
Wilbur Ellis	Huron		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>
	5.00	1.00	0.00	1.00	7	3
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>
	7.00	0.00	0.00	1.00	8	4
Wilbur Ellis-Salem	Salem		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>
	5.00	0.00	0.00	1.00	6	3
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>
	11.00	5.00	0.00	3.00	19	6
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>
	2.00	0.00	0.00	0.00	2	1
Report Totals:	1,463.00	92.00	0.00	281.00	1,836	550
Report Averages:	0.80	0.05	0.00	0.15		

2020 Fertilizer Individual Samples

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Manufacturer: -						
Product: AMS						
Sample No:		20N003147				
		Nitrogen, Total	21	20.84	%	Pass
		Sulfur	24	24.53	%	Pass
Sample No:		20N003377				
		Nitrogen, Total	21	20.85	%	Pass
		Sulfur	24	24.38	%	Pass
Product: Edible Plant Nutrition						
Sample No:		20N003575				
		Calcium	6	6.53	%	Pass
Commercial Value			42	43.06		
		Magnesium, Acid Soluble	0.90	0.85	%	Pass
		Nitrogen, Total	7	7.41	%	Pass
Overall Index Value			100	102.52	%	Pass
		Phosphate, Available as P2O5	6	6.24	%	Pass
Potash, Soluble			9	8.35	%	Pass
		Sulfur	1.20	2.37	%	Pass
Product: Fertilizer Spike						
Sample No:		20N003574				
Commercial Value			60	84.00		
		Nitrogen, Total	6	10.65	%	Pass
Overall Index Value			100	140.00	%	Pass
		Phosphate, Available as P2O5	18	22.52	%	Pass
Potash, Soluble			6	7.00	%	Pass
Product: Fertilizer Spikes						
Sample No:		20N003583				
		Commercial Value	57	84.19		
		Nitrogen, Total	8	13.43	%	Pass

Overall Index Value	100	147.70 %	Pass
Phosphate, Available as P2O5	11	15.01 %	Pass
Potash, Soluble	11	13.87 %	Pass

Product: Liquid Feed

Sample No: 20N003516

Commercial Value	44	47.12	
Manganese, Acid Soluble	0.05	0.05 %	Pass
Nitrogen, Total	9	10.09 %	Pass
Overall Index Value	100	107.09 %	Pass
Phosphate, Available as P2O5	4	4.19 %	Pass
Potash, Soluble	9	8.47 %	Pass
Zinc, Acid Soluble	0.05	0.05 %	Pass

Product: MAP

Sample No: 20N003378

Commercial Value	137	141.79	
Nitrogen, Total	11	12.19 %	Pass
Overall Index Value	100	103.49 %	Pass
Phosphate, Available as P2O5	52	52.61 %	Pass

Product: MESZ

Sample No: 20N003146

Commercial Value	116	113.44	
Nitrogen, Total	12	11.32 %	Deficient
Overall Index Value	100	97.80 %	Deficient
Phosphate, Available as P2O5	40	39.74 %	Pass
Sulfur	10	11.35 %	Pass
Zinc, Acid Soluble	1	0.75 %	Deficient

Product: POTASH

Sample No: 20N003148

Potash, Soluble	60	58.65 %	Pass
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Sample No: 20N003379

Potash, Soluble	60	58.97 %	Pass
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Product: UREA

Sample No: 20N003149

		<u>Analyte</u>	<u>Claim</u>	<u>Found</u>	<u>Unit</u>	<u>Disposition</u>
Nitrogen, Total			46	46.56	%	Pass
Sample No:	20N003380		46	47.05	%	Pass
Nitrogen, Total						
Product:	Water soluble plant food					
Sample No:	20N003590		126	134.44		
Commercial Value (STPB)						
	Iron		0.10		0.12 %	Pass
Nitrogen, Total			31	32.50	%	Pass
Overall Index Value (STPB)				106.70	%	Pass
Phosphate, Available as P2O5			11	13.01	%	Pass
Potash, Soluble (STPB)			11	10.92	%	Pass
Manufacturer:	Ag First-Aurora					
Product:	Custom Blend Fertilizer					
Sample No:	20N003753		110	113.49		
Commercial Value						
Nitrogen, Total			25	24.56	%	Pass
Overall Index Value			100	103.17	%	Pass
Phosphate, Available as P2O5			11	12.40	%	Pass
Potash, Soluble			13	15.01	%	Pass
Product:	Customer Blend Fertilizer					
Sample No:	20N003746					
110	123.34	25	24.88 %			Pass
Overall Index Value						
Phosphate, Available as P2O5						
Potash, Soluble						
Sample No:	20N003751					
100			112.13 %			Pass
11			16.96 %			Pass
13			14.78 %			Pass
Commercial Value			97	99.77		

Commercial Value
Nitrogen, Total

Nitrogen, Total	20	20.06	%	Pass
Overall Index Value	100	102.85		Phosphate, Available as P2O5 9 10.48
Potash, Soluble	19	18.63	%	Pass
Sulfur	4	4.67	%	Pass

Sample No: 20N003754

Commercial Value 97 102.34 Nitrogen, Total 20 20.27

Analyte	Claim	Found	Unit	Disposition
Overall Index Value	100	105.50	%	Pass
Phosphate, Available as P2O5	9	10.95	%	Pass
Potash, Soluble	19	19.63	%	Pass
Sulfur	4	4.51	%	Pass
Sample No: 20N003755	110	114.60		
Commercial Value				
Nitrogen, Total	25	25.27	%	Pass
Overall Index Value	100	104.18	%	Pass
Phosphate, Available as P2O5	11	12.36	%	Pass
Potash, Soluble	13	14.06	%	Pass
Sample No: 20N003756	110	116.35		
Commercial Value				
Nitrogen, Total	25	25.57	%	Pass
Overall Index Value	100	105.77	%	Pass
Phosphate, Available as P2O5	11	12.71	%	Pass
Potash, Soluble	13	14.22	%	Pass
Manufacturer: Agri Partners				
Product: Bonu\$				
Sample No: 20N003506	66	66.74		
Commercial Value				
Nitrogen, Total	7	7.49	%	Pass
Overall Index Value	100	101.13	%	Pass
Phosphate, Available as P2O5	20	19.76	%	Pass

	Potash, Soluble	5	4.74 %	Pass
Product: Bonu\$ Plus				
Sample No:	20N003387	65	65.13	
	Commercial Value			
	Nitrogen, Total	8	8.41 %	Pass
	Overall Index Value	100	100.21 %	Pass
	Phosphate, Available as P2O5	16	15.59 %	Pass
	Potash, Soluble	9	8.75 %	Pass
	Sulfur	1	1.26 %	Pass
	Zinc, Acid Soluble	.45	0.43 %	Pass

Manufacturer: Agrium-Loveland, CO
Product: 21-0-0-24

Sample No:	20N002035			
	Analyte	Claim	Found Unit	Disposition
	Nitrogen, Total	21	21.01 %	Pass
	Sulfur	24	24.65 %	Pass

Product: MAP 11 52

Sample No:	20N004167			
	Commercial Value	137	136.32	
	Nitrogen, Total	11	11.09 %	Pass
	Overall Index Value	100	99.51 %	Pass
	Phosphate, Available as P2O5	52	51.53 %	Pass

Manufacturer: Agtegra Coop-Wolsey
Product: 10-34-0

Sample No:	20N008910			
	Commercial Value	98	99.10	
	Nitrogen, Total	10	10.41 %	Pass
	Overall Index Value	100	101.13 %	Pass
	Phosphate, Available as P2O5	34	33.94 %	Pass

Product: AMS

Sample No:	20N008920			
	Nitrogen, Total	20.5	20.51 %	Pass
	Sulfur	24	24.13 %	Pass

Product: MAP

Sample No: 20N008919

Commercial Value	137	128.81	
Nitrogen, Total	11	11.30 %	Pass
Overall Index Value	100	94.02 %	Deficient
Phosphate, Available as P2O5	52	47.46 %	Deficient

Product: MESZ

Sample No: 20N008918

Commercial Value	116	115.17	
Nitrogen, Total	12	12.17 %	Pass
Overall Index Value	100	99.28 %	Pass
Phosphate, Available as P2O5	40	39.33 %	Pass
Sulfur	10	10.44 %	Pass
Zinc, Water Soluble	1	0.96 %	Pass

Product: Potash

Sample No: 20N008912

Potash, Soluble	60	59.02
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	Analyte	Claim	Found Unit	Disposition
Product: Urea				
Sample No:	20N008917			
	Nitrogen, Total	46	46.63 %	Pass
Manufacturer: Agtegra Fertilizer-Aberdeen				
Product: 11-52-0				
Sample No:	20N011455			
	Commercial Value	137	140.22	
	Nitrogen, Total	11	11.50 %	Pass
	Overall Index Value	100	102.35 %	Pass
	Phosphate, Available as P2O5	52	52.87 %	Pass
Product: 46-0-0				
Sample No:	20N011452			
	Nitrogen, Total	46	46.42 %	Pass
Manufacturer: Agtegra Ipswich Agronomy				
Product: 10-34-0 Liquid Fertilizer				
Sample No:	20N003825			
Commercial Value		98	100.12	
	Nitrogen, Total	10	10.23 %	Pass
Overall Index Value		100	102.16 %	Pass
	Phosphate, Available as P2O5	34	34.71 %	Pass
Manufacturer: Agtegra-Bristol				
Product: 0-0-60				
Sample No:	20N009602			
	Potash, Soluble	60	60.20 %	Pass
Product: 11-52-0				
Sample No:	20N009601			
	Commercial Value	137	135.62	
	Nitrogen, Total	11	10.66 %	Pass
	Overall Index Value	100	98.99 %	Pass
	Phosphate, Available as P2O5	52	51.82 %	Pass

Product: 44-0-0

Sample No: 20N009607

Nitrogen, Total 44 44.74 % **Pass**

Product: 46-0-0

Sample No: 20N009612

Nitrogen, Total 46 Claim 4

Analyte Claim Found Unit Disposition
Manufacturer: Agtegra-Kennebec
Product: **10-34-0**

Sample No: 20N004519 98 96.45

Commercial Value

Nitrogen, Total 10 9.95 % **Pass**

Overall Index Value 100 98.42 % **Pass**

Phosphate, Available as P2O5 34 33.30 % **Pass**

Product: 28-0-0

Sample No: 20N004518 28 32.96 % **Pass**

Nitrogen, Total

Product: Custom Blend

Sample No: 20N004544

Commercial Value 137 122.00

Nitrogen, Total 39 34.10 % **Deficient**

Overall Index Value 100 89.00 % **Deficient**

Phosphate, Available as P2O5 10 8.82 % **Pass**

Sample No: 20N004545

Nitrogen, Total 41 43.07 % **Pass**

Sulfur 4 4.07 % **Pass**

Sample No: 20N004547

Nitrogen, Total 42 43.98 % **Pass**

Sulfur 4 3.29 % **Deficient**

Sample No: 20N004904

Nitrogen, Total 43 44.00 % **Pass**

Sulfur 2 2.33 % **Pass**

Sample No: 20N004905

Commercial Value	138	146.00	
Nitrogen, Total	20	22.67 %	Pass
Overall Index Value	100	106.00 %	Pass
Phosphate, Available as P2O5	39	38.91 %	Pass

Sample No: 20N004906

Commercial Value (STPB)	79	65.00	
Nitrogen, Total	15	15.90 %	Pass
Overall Index Value (STPB)	100	82.00 %	Deficient
Potash, Soluble (STPB)	34	17.51 %	Deficient
Sulfur	17	18.26	

2020 FERTILIZER REGULATORY ANALYTE TOTALS

Sample No:	Analyte	Claim	Found Unit	Disposition
20N004907	Nitrogen, Total	42	42.77 %	Pass
	Sulfur	3	4.33 %	Pass
20N004908	Commercial Value (STPB)	124	134.00	
	Nitrogen, Total	39	43.63 %	Pass
	Overall Index Value (STPB)	100	108.00 %	Pass
	Potash, Soluble (STPB)	7	2.64 %	Deficient
20N004909	Nitrogen, Total	43	44.18 %	Pass
	Sulfur	3	3.00 %	Pass

Product: Map

Sample No: 20N004551

Commercial Value	137	144.00	
Nitrogen, Total	11	12.38 %	Pass
Overall Index Value	100	105.00 %	Pass

		Phosphate, Available as P2O5	52	53.51 %	Pass
Product:	Potash				
Sample No:	20N004550				
		Potash, Soluble (STPB)	60	58.56 %	Pass
Product:	Urea				
Sample No:	20N004549				
		Nitrogen, Total	46	46.21 %	Pass
Manufacturer:	Agtegra-Mellette				
Product:	0-0-60				
Sample No:	20N011453				
		Potash, Soluble	60	58.71 %	Pass
Manufacturer:	Agtegra-Redfield-E 3rd St				
Product:	46-0-0				
Sample No:	20N011448				
		Nitrogen, Total	46	46.32 %	Pass
Product:	AMS 20.5-0-0-24S				
Sample No:	20N011449				
Nitrogen, Total			20.5	21.48 %	Pass
		Sulfur	24	23.49 %	Pass
Product:	MAP 11-52-0				

Sample No:	Analyte	Claim	Found	Unit	Disposition
20N011451					
	Commercial Value	137	141.29		
	Nitrogen, Total	11	12.63	%	Pass
	Overall Index Value	100	103.13	%	Pass
	Phosphate, Available as P2O5	52	51.70	%	Pass
Product:	Potash 0-0-60				
Sample No:	20N011450				
	Potash, Soluble	60	58.78	%	Pass
Manufacturer:	Agtegra-Tulare				
Product:	AMS				
Sample No:	20N011454				
	Nitrogen, Total	21	21.92	%	Pass
	Sulfur	24	24.95	%	Pass
Manufacturer:	Agtegra-Warner				
Product:	AMS 20.5-0-0-24S				
Sample No:	20N003588				
	Nitrogen, Total	20.5	20.85	%	Pass
	Sulfur	24	24.29	%	Pass
Sample No:	20N011457				
	Nitrogen, Total	20.5	21.15	%	Pass
	Sulfur	24	23.53	%	Pass
Product:	MAP 11-52-0				
Sample No:	20N003586				
	Commercial Value	137	135.84		
	Nitrogen, Total	11	11.04	%	Pass
	Overall Index Value	100	99.16	%	Pass
	Phosphate, Available as P2O5	52	51.36	%	Pass
Sample No:	20N011459				
	Commercial Value	137	139.60		Pass
	Nitrogen, Total	11	11.38	%	Pass
	Overall Index Value	100	101.90	%	

		Phosphate, Available as P2O5	52		52.75 %	Pass
Product:	Potash 0-0-60					
Sample No:	20N003587					
		Potash, Soluble (STPB)	60		60.81 %	Pass
Sample No:	20N011458					
		Analyte	Claim		Found Unit	Disposition
		Potash, Soluble	60		58.97 %	Pass
Product:	Urea 46-0-0					
Sample No:	20N003585					
		Nitrogen, Total	46		45.68 %	Pass
Sample No:	20N011462					
		Nitrogen, Total	46		46.16 %	Pass
Manufacturer:	Agwrx-Clark					
Product:	0-0-60					
Sample No:	20N011291					
		Potash, Soluble	60		58.78 %	Pass
Product:	11-52-0					
Sample No:	20N011292					
		Commercial Value	137		139.31	
		Nitrogen, Total	11		11.45 %	Pass
		Overall Index Value	100		101.68 %	Pass
		Phosphate, Available as P2O5	52		52.49 %	Pass
Product:	21-0-0-24					
Sample No:	20N011293					
		Nitrogen, Total	21		22.31 %	Pass
		Sulfur	24		25.00 %	Pass
Product:	46-0-0					
Sample No:	20N011294					
		Nitrogen, Total	46		46.17 %	Pass
Manufacturer:	Aurora Coop-Mitchell					
Product:	40 Rock 12-40-0-6					

Sample No:	20N009520			
Commercial Value		116	116.89	
Nitrogen, Total		12	12.58 %	Pass
Overall Index Value		100	100.77 %	Pass
	Phosphate, Available as P2O5	40	39.58 %	Pass
	Sulfur	6	6.54 %	Pass
Product:	AMS 21-0-0-24			

Sample No:	20N009521			
Nitrogen, Total		21	20.92 %	Pass
	Sulfur	24	23.11 %	Pass
Product:	MAP 11-52-0			

Sample No:	Analyte	Claim	Found Unit	Disposition
20N009518				
Commercial Value		137	138.85	
Nitrogen, Total		11	11.08 %	Pass
Overall Index Value		100	101.35 %	Pass
	Phosphate, Available as P2O5	52	52.81 %	Pass
Product:	Potash 0-0-60			

Sample No:	20N009519			
Potash, Soluble		60	58.96 %	Pass
Manufacturer:	BCA Products			
Product:	28-3-10			

Sample No:	20N012101			
	Calcium	0.69	0.73 %	Pass
	Commercial Value	100	103.51	
	Iron	1.15	0.91 %	Deficient
	Magnesium, Acid Soluble	0.23	0.08 %	Pass
	Manganese, Acid Soluble	0.05	0.05 %	Pass
	Nitrogen, Total	28	28.28 %	Pass
	Overall Index Value	100	103.51 %	Pass
	Phosphate, Available as P2O5	3	4.13 %	Pass
	Potash, Soluble	10	10.42 %	Pass

	Sulfur	0.23	0.15 %	Pass
	Zinc, Acid Soluble	0.01	0.03 %	Pass

Product: 5-5-0

Sample No: 20N011990

	Calcium	3	3.08 %	Pass
	Commercial Value	25	30.57	
	Iron	3	4.10 %	Pass
	Magnesium, Acid Soluble	1	0.92 %	Pass
	Manganese, Acid Soluble	0.2	0.24 %	Pass
	Nitrogen, Total	5	5.11 %	Pass
	Overall Index Value		122.29 %	Pass
	Phosphate, Available as P2O5	5	7.62 %	Pass
	Sulfur	1	1.16 %	Pass
	Zinc, Acid Soluble	0.05	0.11 %	Pass

Manufacturer: Bremer's Farm Supply

Product: 98G 36% Calcium

Sample No:	Analyte	Claim	Found Unit	Disposition
20N003251	Calcium	36	37.92 %	Pass
	Magnesium, Acid Soluble	<.5	0.41 %	Pass
	Moisture	1	0.47 %	Pass

Product: AMS 20.5-0-0-24

Sample No: 20N003250

Nitrogen, Total		20.5	21.46 %	Pass
	Sulfur	24	24.12 %	Pass

Product: F-317G Micronutrient

Sample No: 20N003346

Zinc, Acid Soluble		36	35.97 %	Pass
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Product: MAP 11-52-0

Sample No: 20N003249

Commercial Value		137	136.97	
Nitrogen, Total		11	11.26 %	Pass
Overall Index Value		100	99.98 %	Pass

Phosphate, Available as P2O5 52 51.59 % Pass

Product: Potash 0-0-60

Sample No: 20N003248

Potash, Soluble (STPB) 60 59.22 % Pass

Manufacturer: Bridgewater CHS Product: MESZ 12-40-0-10-1

Sample No: 20N010826

Commercial Value	116	115.78	
Nitrogen, Total	12	12.17 %	Pass
Overall Index Value	100	99.81 %	Pass
	Phosphate, Available as P2O5 40	39.63 %	Pass
	Sulfur 10	9.51 %	Pass
Zinc, Acid Soluble	1	0.94 %	Pass

Product: Potash 0-0-60

Sample No: 20N010824

Potash, Soluble	60	57.91 %	Deficient
	Potash, Soluble (STPB) 60	56.08 %	Deficient

Product: Urea 46-0-0

Sample No: 20N010827

Nitrogen, Total 46 45.88 % Pass

Analyte	Claim	Found Unit	Disposition
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Product: zinc sulfate 0-0-0-17.5-35.5z

Sample No: 20N010828

Sulfur	17.5	18.07 %	Pass
Zinc, Acid Soluble	35.5	42.02 %	Pass

Manufacturer: Bruce Prody Product: Custom Blend

Sample No: 20N005940

Potash, Soluble (STPB) 11.58 7.92 % Deficient

Sample No: 20N007201

Commercial Value 123.02 124.89

	Nitrogen, Total	29.47	30.30 %	Pass
	Overall Index Value	100	101.52 %	Pass
	Phosphate, Available as P2O5	13.85	13.36 %	Pass
	Potash, Soluble	6.91	7.28 %	Pass
Sulfur		1.77	1.96 %	Pass
	Zinc, Acid Soluble	0.172	0.19 %	Pass

Manufacturer: Cameron Chemicals Inc.
Product: Boron 0-0-0-0-15b
Sample No: 20N010844

Boron, Acid Soluble 15 14.55 % **Pass**

Manufacturer: Castlewood Farmers Elevator
Product: Customer Blend Fertilizer
Sample No: 20N004446

	Commercial Value	120	124.00	
	Nitrogen, Total	30.03	31.72 %	Pass
	Overall Index Value	100	103.00 %	
	Phosphate, Available as P2O5	11.65	11.06 %	Pass
	Potash, Soluble	6.72	6.41 %	Pass
	Sulfur	2.689	3.12 %	Pass

Sample No: 20N004447

	Commercial Value	91.7	96.50	
	Nitrogen, Total	15.95	18.07 %	Pass
	Overall Index Value	100	105.00 %	Pass
	Phosphate, Available as P2O5	9.97	9.21 %	Deficient
	Potash, Soluble	23.93	23.70 %	Pass
	Sulfur	4.768	5.09 %	Pass

Sample No:	Analyte	Claim	Found Unit	Disposition
	Commercial Value	120	126.00	
	Nitrogen, Total	30.03	31.73 %	Pass
	Overall Index Value	100	105.00 %	Pass

	Phosphate, Available as P2O5	11.65	11.59 %	Pass
Potash, Soluble		6.72	7.29 %	Pass
	Sulfur	2.689	3.10 %	Pass

Manufacturer: Central Farmers Coop- Fremar,
Product: AMS 21-0-0-24

Sample No: 20N004605

	Nitrogen, Total	21	21.62 %	Pass
	Sulfur	24	23.81 %	Pass

Product: MAP 11-52-0

Sample No: 20N004604

	Commercial Value	137	139.00	
	Nitrogen, Total	11	10.86 %	Pass
	Overall Index Value	100	101.00 %	Pass
	Phosphate, Available as P2O5	52	53.09 %	Pass

Product: Potash 0-0-60

Sample No: 20N004606

	Potash, Soluble (STPB)	60	60.57 %	Pass
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Product: Urea 46-0-0

Sample No: 20N004603

	Nitrogen, Total	46	46.75 %	Pass
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Manufacturer: Central Farmers Coop/Fremar,
Product: AMS 21-0-0-24

Sample No: 20N010836

Nitrogen, Total		21	22.10 %	Pass
	Sulfur	24	23.93 %	Pass

Product: MAP 11-52-0

Sample No: 20N010837

	Commercial Value	137	139.01	
	Nitrogen, Total	11	11.59 %	Pass
	Overall Index Value	100	101.47 %	Pass
	Phosphate, Available as P2O5	52	52.12 %	Pass

Product: Potash 0-0-60

Analyte	Claim	Found	Unit	Disposition
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Sample No:	20N010835				
Potash, Soluble		60	59.97 %	Pass	
Product:	urea 46-0-0				
Sample No:	20N010833				
Nitrogen, Total		46	46.08 %	Pass	
Sample No:	20N010834				
Nitrogen, Total		46	46.63 %	Pass	
Manufacturer:	Central Farmers Coop/Fremar,				
Product:	AMS (21-0-0-24)				
Sample No:	20N004185				
	Nitrogen, Total	21	20.92 %	Pass	
	Sulfur	24	23.84 %	Pass	
Product:	Boron 15%				
Sample No:	20N004187				
	Boron, Acid Soluble	15	15.75 %	Pass	
Product:	Custom blend				
Sample No:	20N004186				
	Boron, Acid Soluble	.1	0.15 %	Pass	
	Commercial Value	117	120.07		
	Nitrogen, Total	28	27.56 %	Pass	
	Overall Index Value	100	102.62 %	Pass	
	Phosphate, Available as P2O5	12	14.21 %	Pass	
	Potash, Soluble	9	8.96 %	Pass	
	Sulfur	2	2.73 %	Pass	
Product:	Customer blend				
Sample No:	20N004189				
Commercial Value		120	123.70		
Nitrogen, Total		30	30.73 %	Pass	
Overall Index Value		100	103.08 %	Pass	
	Phosphate, Available as P2O5	8	8.86 %	Pass	
Potash, Soluble		14	13.80 %	Pass	
Product:	MAP (10-50-0)				
Sample No:	20N004180				

Commercial Value	130	137.33	
Nitrogen, Total	10	11.19 %	Pass
Overall Index Value	100	105.64 %	Pass

Analyte	Claim	Found	Unit	Disposition
Phosphate, Available as P2O5	50	51.88	%	Pass
Product: Potash (0-0-60)				
Sample No: 20N004183				
Potash, Soluble	60	59.00	%	Pass
Product: Super Zinc FL				
Sample No: 20N004188				
Nitrogen, Total	1	1.04	%	Pass
Zinc, Acid Soluble	40	43.33	%	Pass
Product: Urea (46-0-0)				
Sample No: 20N004182				
Nitrogen, Total	46	46.11	%	Pass
Manufacturer: Central Farmers Coop-Marion				
Product: 10-34-0				
Sample No: 20N004614				
Commercial Value	98	97.00		
Nitrogen, Total	10	9.77	%	Pass
Overall Index Value	100	99.00	%	Pass
Phosphate, Available as P2O5	34	33.68	%	Pass
Sample No: 20N010553				
Commercial Value	98	105.91		
Nitrogen, Total	10	11.25	%	Pass
Overall Index Value	100	108.07	%	Pass
Phosphate, Available as P2O5	34	36.08	%	Pass
Product: 28-0-0				
Sample No: 20N010554				
Nitrogen, Total	28	17.60	%	Deficient
Product: 6-24-6				
Sample No: 20N010552				
Commercial Value	72	72.79		
Nitrogen, Total	6	5.95	%	Pass
Overall Index Value	100	101.09	%	Pass
Phosphate, Available as P2O5	24	24.50	%	Pass

Product: AMS		Potash, Soluble	6	5.93 %	Pass
20N010543					
		Nitrogen, Total	21	20.65 %	Pass
		Analyte	Claim	Found	Unit
		Sulfur	24	24.66 %	Disposition
Product: AMS 21-0-0-24					Pass
Sample No: 20N004611					
Nitrogen, Total			21	21.26 %	Pass
		Sulfur	24	24.52 %	Pass
Product: CAL-SUL--GYPSUM					
Sample No: 20N010544					
		Calcium	21	20.54 %	Pass
		Sulfur	17	17.88 %	Pass
Product: custom blend					
Sample No: 20N004612					
		Nitrogen, Total	42	43.19 %	Pass
		Sulfur	2.8	3.20 %	Pass
		Zinc, Acid Soluble	17	3.71 %	Deficient
Sample No: 20N010547					
		Commercial Value	92	92.36	
		Nitrogen, Total	5	4.65 %	Pass
		Overall Index Value	100	100.39 %	Pass
		Phosphate, Available as P2O5	21	22.14 %	Pass
		Potash, Soluble	35	34.12 %	Pass
Sample No: 20N010550					
		Commercial Value	89	90.12	
		Nitrogen, Total	4	4.31 %	Pass
		Overall Index Value	100	101.26 %	Pass
		Phosphate, Available as P2O5	20	20.28 %	Pass
		Potash, Soluble	37	36.61 %	Pass
Product: custom formula					

Sample No: 20N004613

Commercial Value	113	118.00	
Nitrogen, Total	28	28.29 %	Pass
Overall Index Value	100	104.00 %	Pass
Phosphate, Available as P2O5	9	11.31 %	Pass
Potash, Soluble	11	10.37 %	Pass
Sulfur	2.3	2.63 %	Pass

Product: gypsum 0-0-0-21-7

Sample No: 20N004609

Analyte	Claim	Found Unit	Disposition
Calcium	21	20.93 %	Pass
Sulfur	17	17.87 %	Pass

Product: MAP

Sample No: 20N010546

Commercial Value	137	137.66	
Nitrogen, Total	11	10.67 %	Pass
Overall Index Value	100	100.48 %	Pass
Phosphate, Available as P2O5	52	52.83 %	Pass

Product: MAP 11-52-0

Sample No: 20N004608

Commercial Value	137	142.00	
Nitrogen, Total	11	12.15 %	Pass
Overall Index Value	100	104.00 %	Pass
Phosphate, Available as P2O5	52	52.60 %	Pass

Product: MESZ

Sample No: 20N010551

Commercial Value	126	128.20	
Nitrogen, Total	12	12.25 %	Pass
Overall Index Value	100	101.80 %	Pass
Phosphate, Available as P2O5	45	45.75 %	Pass
Sulfur	5	5.01 %	Pass
Zinc, Acid Soluble	1	0.96 %	Pass

Product: PEL-LIME

Sample No: 20N010549

Calcium	36	35.09 %	Pass
Magnesium, Acid Soluble	0.5	0.24 %	Pass
Moisture	1	0.39 %	Pass

Product: POTASH

Sample No: 20N010548

Potash, Soluble	60	59.09 %	Pass
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Product: potash 0-0-60

Sample No: 20N004610

Potash, Soluble	60	60.73 %	Pass
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Product: SYMTRX

20N010542

Arsenic 0.00 ppm

Analyte	Claim	Found Unit	Disposition
Cadmium		0.00 ppm	
Cobalt		1.01 ppm	
Commercial Value	50	51.32	
Fecal Coliforms		1.00 MPN/g	
Lead		0.00 ppm	
Molybdenum		0.00 ppm	
Nickel		4.68 ppm	
Nitrogen, Total	16	16.22 %	Pass
Overall Index Value	100	102.64 %	Pass
Phosphate, Available as P2O5	1	1.34 %	Pass
Salmonella		0.00 MPN/4g	
Sulfur	20	18.31 %	Deficient
Zinc		203.80 ppm	

Product: UREA

Sample No: 20N010545

Nitrogen, Total	46	46.38 %	Pass
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Product: urea 46-0-0

Sample No:	20N004607				
		Nitrogen, Total	46	47.12 %	Pass
Manufacturer:	Central Valley Ag-Oneill				
Product:	32-0-0				
Sample No:	20N003738				
		Nitrogen, Total	32	31.26 %	Pass
Manufacturer:	CF Industries- Sergeant Bluff				
Product:	28%				
Sample No:	20N003748				
		Nitrogen, Total	28	27.86 %	Pass
Sample No:	20N004279				
		Nitrogen, Total	28	28.46 %	Pass
Product:	46-0-0				
Sample No:	20N010818				
		Nitrogen, Total	46	46.00 %	Pass
Product:	46-00-00 Gran UREA BLK				
Sample No:	20N001022				
		Nitrogen, Total	46	46.68 %	Pass
Product:	Urea				
		Analyte	Claim	Found Unit	Disposition
Sample No:	20N000651				
		Nitrogen, Total	46	45.99 %	Pass
Sample No:	20N003507				
		Nitrogen, Total	46	47.18 %	Pass
Sample No:	20N003752				
		Nitrogen, Total	46	46.15 %	Pass
Sample No:	20N003962				
		Nitrogen, Total	46	46.66 %	Pass
Sample No:	20N004045				
		Nitrogen, Total	46	46.64 %	Pass
Sample No:	20N004047				
		Nitrogen, Total	46	46.41 %	Pass

Sample No:	20N004058				
		Nitrogen, Total	46	45.93 %	Pass
Sample No:	20N004168				
		Nitrogen, Total	46	46.16 %	Pass
Sample No:	20N004276				
		Nitrogen, Total	46	46.99 %	Pass
Sample No:	20N004448				
		Nitrogen, Total	46	46.35 %	Pass

Product: Urea 46-0-0-0

Sample No: 20N009522

Nitrogen, Total	46	46.44 %	Pass
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Manufacturer: Chem One LTD

Product: Zinc Sulfate Monohydrate

Sample No: 20N011767

	Sulfur	17.5	18.43 %	Pass
Zinc, Acid Soluble		35.5	35.78 %	Pass

Manufacturer: CHS Northern Plains-Faulkton

Product: AMS 21-0-0-24

Sample No: 20N010821

Nitrogen, Total		21	21.85 %	Pass
	Sulfur	24	24.20 %	Pass

Product: MAP 11-52-0

20N010820

Commercial Value 137 142.40

Analyte	Claim	Found Unit	Disposition
Nitrogen, Total	11	11.60 %	Pass
Overall Index Value	100	103.94 %	Pass
Phosphate, Available as P2O5	52	53.80 %	Pass

Product: MESZ 12-40-0-10-1Z

Sample No: 20N010812

Commercial Value	116	115.94	
Nitrogen, Total	12	12.25 %	Pass

Overall Index Value		100	99.95 %	Pass
	Phosphate, Available as P2O5	40	39.59 %	Pass
	Sulfur	10	9.78 %	Pass
Zinc, Acid Soluble		1	1.12 %	Pass
Product:	Muriate of Potash 0-0-60			
Sample No:	20N010811			
Potash, Soluble		60	59.44 %	Pass
Product:	Urea 46-0-0			
Sample No:	20N010819			
Nitrogen, Total		46	45.74 %	Pass
Manufacturer:	CHS-Colton			
Product:	36% Zinc			
Sample No:	20N003240			
Zinc, Acid Soluble		36	35.75 %	Pass
Product:	AMS 21-0-0-24			
Sample No:	20N003236			
	Nitrogen, Total	21	21.48 %	Pass
	Sulfur	24	24.10 %	Pass
Sample No:	20N009452			
	Nitrogen, Total	21	20.90 %	Pass
	Sulfur	24	24.68 %	Pass
Product:	Aspire 0-0-58-.5B			
Sample No:	20N003254			
Boron, Acid Soluble		.5	0.54 %	Pass
	Potash, Soluble (STPB)	58	57.09 %	Pass
Product:	Aspire 0-0-58-0.5B			
Sample No:	20N009449			
Boron, Water Soluble	0.5		0.49 %	Pass
Potash, Soluble (STPB)	58		52.69 %	Deficient

Product: Boron - 15%						
Sample No:	20N003257	15	16.05	%	Pass	
Boron, Acid Soluble						
Product: Boron 15%						
Sample No:	20N009443	15	14.73	%	Pass	
Boron, Water Soluble						
Product: DAP 18-46-0						
Sample No:	20N003255	146				
Commercial Value						
			146.02			
Nitrogen, Total						
		18	17.90	%	Pass	
Overall Index Value						
		100		%	Pass	
Phosphate, Available as P2O5						
		46	46.16	%	Pass	
Sample No:	20N009448	146				
Commercial Value						
			142.93			
Nitrogen, Total						
		18	17.41	%	Pass	
Overall Index Value						
		100	97.90	%	Deficient	
Phosphate, Available as P2O5						
		46	45.36	%	Pass	
Product: Elemental Sulfur						
Sample No:	20N003256	85	84.71	%	Pass	
Sulfur						
Product: gypsum 100%						
Sample No:	20N003253	21	28.53	%	Pass	
Calcium						
Sulfur						
		16	16.37	%	Pass	
Product: MAP 11-52-0						
Sample No:	20N003347	137				
Commercial Value						
			136.57			
Nitrogen, Total						
		11	10.62	%	Pass	
Overall Index Value						
		100	99.69	%	Pass	
Phosphate, Available as P2O5						
		52	52.36	%	Pass	

Sample No:	20N009447	137			
	Commercial Value		133.53		
	Nitrogen, Total	11	10.70	%	Pass
	Overall Index Value	100	97.47	%	Deficient
	Phosphate, Available as P2O5	52	50.72	%	Deficient
Product:	MESZ 12-40-0-10-1				
	Analyte	Claim	Found	Unit	Disposition
Sample No:	20N003238	116			
	Commercial Value		114.46		
	Nitrogen, Total	12	11.79	%	Pass
	Overall Index Value	100	98.67	%	Pass
	Phosphate, Available as P2O5	40	39.54	%	Pass
	Sulfur	10	12.96	%	Pass
	Zinc, Acid Soluble	1	0.97	%	Pass
Sample No:	20N009445	116			
	Commercial Value		112.37		
	Nitrogen, Total	12	11.77	%	Pass
	Overall Index Value	100	96.87	%	Deficient
	Phosphate, Available as P2O5	40	38.53	%	Deficient
	Sulfur	10	9.32	%	Pass
	Zinc, Water Soluble	1	0.92	%	Pass
Product:	Pell Lime				
Sample No:	20N009446	0.5	32.77	%	Pass
	Calcium				
Product:	Pell Lime Super Cal 98G				
Sample No:	20N003239	34	38.80	%	Pass
	Calcium				
Product:	Potash 0-0-60				
Sample No:	20N003237	60	59.53	%	Pass
	Potash, Soluble				
Sample No:	20N009450	60	58.85	%	Pass
	Potash, Soluble				
Product:	Sulfur 85%				

Sample No:	20N009444	85	88.58 %	Pass
Sulfur				

Product: **urea 46-0-0**

Sample No:	20N003252	46	47.16 %	Pass
Nitrogen, Total				

Sample No:	20N009453	46	46.26 %	Pass
Nitrogen, Total				

Product: **Zinc**

Sample No: 20N009438

Zinc, Water Soluble 36.00 37.89 % **Pass**

Manufacturer: CHS-Dante
Product: AMS (21-0-0-24)

Sample No: 20N003813

Nitrogen, Total 21 20.76 % **Pass**

Sulfur 24 24.47 % **Pass**

Product: MESZ (12-40-0-10-1)

Sample No: 20N003814

Commercial Value 116 114.72

Nitrogen, Total 12 11.55 % **Pass**

Overall Index Value 100 98.89 % **Pass**

Phosphate, Available as P2O5 40 40.03 % **Pass**

Sulfur 10 9.40 % **Pass**

Zinc, Acid Soluble 1 0.94 % **Pass**

Product: Potash (0-0-60)

Sample No: 20N003809

Potash, Soluble 60 58.68 % **Pass**

Product: Urea (46-0-0)

Sample No: 20N003810

Nitrogen, Total 46 45.86 % **Pass**

Manufacturer: CHS-Elkton
Product: AMS

Sample No: 20N003747

Nitrogen, Total	21	21.57 %	Pass
Sulfur	24	23.69 %	Pass

Product: Customer Blend Fertilizer

Sample No: 20N004053

Commercial Value	121.97		
Nitrogen, Total	23.76		
127.06			
25.64 %			Pass
Overall Index Value	100	104.17 %	Pass
Phosphate, Available as P2O5	19.8	19.51 %	Pass
Potash, Soluble	11.09	11.12 %	Pass
Sulfur	1.59	2.40 %	Pass

Sample No: 20N004055

Commercial Value	121.97	127.48	
Nitrogen, Total	23.76	25.90 %	Pass
Overall Index Value	100	104.52 %	Pass

	Analyte	Claim	Found	Unit	Disposition
Potash, Soluble	Phosphate, Available as P2O5	19.8	19.43	%	Pass
		11.09	10.93	%	Pass
	Sulfur	1.59	2.97	%	Pass

Sample No: 20N004056

Commercial Value	121.97	139.03		
Nitrogen, Total	23.76	24.77 %	Pass	
Overall Index Value	100	113.99 %	Pass	
	Phosphate, Available as P2O5	19.8	18.24 %	Deficient

Potash, Soluble		11.09	10.90 %	Pass
	Sulfur	1.59	2.41 %	Pass

Manufacturer: CHS-Sisseton
Product: 0-0-60

Sample No: 20N010804

Potash, Soluble	60	59.58 %	Pass
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Product: 11-52-0

Sample No: 20N010802

Commercial Value	137	135.81	
Nitrogen, Total	11	10.70 %	Pass
Overall Index Value		99.10 %	Pass
Phosphate, Available as P2O5	52	51.86 %	Pass

Product: 12-40-0-10-1

Sample No: 20N010801

Commercial Value	116	117.54	
Nitrogen, Total	12	12.67 %	Pass
Overall Index Value		101.33 %	Pass
Phosphate, Available as P2O5	40	39.76 %	Pass
Sulfur	10	9.75 %	Pass
Zinc, Acid Soluble	1	0.94 %	Pass

Product: 21-0-0-24

Sample No: 20N010803

Nitrogen, Total	21	21.53 %	Pass
Sulfur	24	24.05 %	Pass

Product: 46-0-0

Sample No: 20N010805

Nitrogen, Total	46	46.11 %	Pass
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Manufacturer: CHS-St. Paul
Product: 0-0-60

Sample No: 20N009606

Potash, Soluble	60	58.76 %	Pass
Potash, Soluble (STPB)	60	66.06 %	Pass

Manufacturer: CHS-Wagner
Product: AMS

Sample No: 20N003778

Nitrogen, Total	21	20.65 %	Pass
Sulfur	24	24.39 %	Pass

Product: CHS Lumen

Sample No: 20N003801

Commercial Value	48	37.54	
Nitrogen, Total	5.0	3.67 %	Deficient
Overall Index Value	100	78.20 %	Deficient
Phosphate, Available as P2O5	15.00	12.03 %	Deficient
Potash, Soluble	3.0	2.60 %	Pass
Zinc, Acid Soluble	0.800	0.72 %	Pass

Product: John Stone - Blend

Sample No: 20N003797

Commercial Value	118.2	118.76	
Nitrogen, Total	27.8	27.31 %	Pass
Overall Index Value	100	100.48 %	Pass
Phosphate, Available as P2O5	12.4	12.52 %	Pass
Potash, Soluble	10	11.78 %	Pass
Sulfur	3.1	3.23 %	Pass
Zinc, Acid Soluble	0.31	0.29 %	Pass

Product: Potash

Sample No: 20N003786

Potash, Soluble	60	58.77 %	Pass
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Product: Robert Frei - Blend

Sample No: 20N003783

Commercial Value	105.8	105.35	
Nitrogen, Total	9.8	9.32 %	Pass
Overall Index Value	100	99.57 %	Pass
Phosphate, Available as P2O5	32.80	32.55 %	Pass
Potash, Soluble	10.80	12.30 %	Pass

Analyte	Claim	Found	Unit	Disposition
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	Sulfur	8.20	9.10 %	Pass
Zinc, Acid Soluble		0.82	0.74 %	Pass
Product:	Stacy Frank - Blend			
Sample No:	20N003799			
	Boron, Acid Soluble	0.19	0.16 %	Pass
	Commercial Value	92.4	95.21	
	Nitrogen, Total	7.10	7.60 %	Pass
	Overall Index Value	100	103.05 %	Pass
	Phosphate, Available as P2O5	23.70	24.59 %	Pass
	Potash, Soluble	23.70	23.23 %	Pass
	Sulfur	5.92	5.77 %	Pass
	Zinc, Acid Soluble	0.59	0.56 %	Pass
Product:	Urea			
Sample No:	20N003800			
	Nitrogen, Total	46	46.85 %	Pass
Manufacturer:	CHS-Watertow n-28th Ave			
Product:	10-34-0			
Sample No:	20N003749			
	Commercial Value	98	96.17	
	Nitrogen, Total	10	9.73 %	Pass
	Overall Index Value	100	98.14 %	Pass
	Phosphate, Available as P2O5	34	33.49 %	Pass
Product:	AMS			
Sample No:	20N003757			
	Nitrogen, Total	21	20.74 %	Pass
	Sulfur	24	24.47 %	Pass
Sample No:	20N008908			
	Nitrogen, Total	21	20.88 %	Pass
	Sulfur	24	24.47 %	Pass
Product:	MAP			
Sample No:	20N008907			
	Commercial Value	137	135.24	
	Nitrogen, Total	11	10.80 %	Pass

Overall Index Value	100	98.71 %	Pass
Phosphate, Available as P2O5	52	51.42 %	Pass

Product: Potash

	Analyte	Claim	Found	Unit	Disposition
Sample No: 20N003750		60	60.26	%	Pass
	Potash, Soluble				
Sample No: 20N008909		60	59.89	%	Pass
	Potash, Soluble				
Product: Urea					
Sample No: 20N008906		46	46.24	%	Pass
	Nitrogen, Total				
Manufacturer: CHS-Worthing					
Product: 10-34-0					
Sample No: 20N004602		98	100.00		
	Commercial Value				
	Nitrogen, Total	10	10.52	%	Pass
	Overall Index Value	100		%	Pass
			102.00		
	Phosphate, Available as P2O5	34	34.41	%	Pass
Sample No: 20N009635		98	96.37		
	Commercial Value				
	Nitrogen, Total	10	9.67	%	Pass
	Overall Index Value	100	98.33	%	Pass
	Phosphate, Available as P2O5	34	33.68	%	Pass
Product: 28-0-0					
Sample No: 20N004601		28	29.24	%	Pass
	Nitrogen, Total				
Sample No: 20N009636		28	29.06	%	Pass
	Nitrogen, Total				
Product: 85% Sulfur					
Sample No: 20N004641		85	85.37	%	Pass
	Sulfur				
Product: AMS 21-0-0-24					
Sample No: 20N004617		21	21.31	%	Pass
	Nitrogen, Total				
	Sulfur	24	24.59	%	Pass

Sample No:	20N009632	21	21.28	%	Pass
	Nitrogen, Total				
	Sulfur	24	24.35	%	Pass
Product:	Custom #28534				
Sample No:	20N004597				
	Analyte	Claim	Found	Unit	Disposition
	Commercial Value	121	112.00		
	Nitrogen, Total	27.93	24.66	%	Deficient
	Overall Index Value	100	93.00	%	Deficient
	Phosphate, Available as P2O5	13.97	12.05	%	Deficient
	Potash, Soluble	9.31	13.81	%	Pass
	Sulfur	2.33	4.00	%	Pass
Product:	Custom #28535				
Sample No:	20N004596	102	100.40		
	Commercial Value				
	Nitrogen, Total	8.34	8.53	%	Pass
	Overall Index Value	100	98.00	%	Pass
	Phosphate, Available as P2O5	29.55	28.10	%	Deficient
	Potash, Soluble	17.73	18.63	%	Pass
	Sulfur	5.91	6.16	%	Pass
	Zinc, Acid Soluble	0.59	0.73	%	Pass
Product:	Custom #28630				
Sample No:	20N004594	100.8	89.80		
	Commercial Value				
	Nitrogen, Total	25.73	22.27	%	Deficient
	Overall Index Value	100	89.00	%	Deficient
	Phosphate, Available as P2O5	6.88	5.47	%	Deficient
	Potash, Soluble	9.83	12.09	%	Pass
	Sulfur	7.87	10.86	%	Pass
Product:	Custom #28690				
Sample No:	20N004600	123	123.00		
	Commercial Value				
	Nitrogen, Total	31.7	31.06	%	Pass

Overall Index Value	100	100.00	%	Pass
Phosphate, Available as P2O5	10.57	11.46	%	Pass
Potash, Soluble	6.34	7.14	%	Pass
Sulfur	2.11	3.35	%	Pass
Zinc, Acid Soluble	0.42	0.07	%	Deficient

Product: **Custom #28954**

Sample No: 20N004599

Commercial Value 117 124.00
Commercial Value (STPB) 117 125.00

Analyte	Claim	Found	Unit	Disposition
Nitrogen, Total	24.33	27.89	%	Pass
Overall Index Value	100	106.00	%	Pass
Overall Index Value (STPB)		107.00	%	Pass
Phosphate, Available as P2O5	14.6	13.94	%	Pass
Potash, Soluble	14.6	12.74	%	Deficient
Potash, Soluble (STPB)	14.6	13.27	%	Deficient
Sulfur	1.62	1.72	%	Pass
Zinc, Acid Soluble	0.16	0.17	%	Pass

Product: Custom #29043

Sample No: 20N004644

Commercial Value	106	104.00		
Nitrogen, Total	23.55	22.22	%	Deficient
Overall Index Value	100	98.00	%	Pass
Phosphate, Available as P2O5	11.77	13.11	%	Pass
Potash, Soluble	11.77	11.57	%	Pass
Sulfur	5.89	6.47	%	Pass
Zinc, Acid Soluble	0.1	0.04	%	Deficient

Product: Custom #29107

Sample No: 20N004598

Commercial Value	103	114.00		
Nitrogen, Total	9	10.89	%	Pass

Overall Index Value		100		%	Pass
			111.00		
	Phosphate, Available as P2O5	23	25.22	%	Pass
Potash, Soluble		30	30.84	%	Pass

Product: Custom #29127

Sample No: 20N004595

	Commercial Value (STPB)	112	124.00		
Nitrogen, Total		25.63	27.33	%	Pass
	Overall Index Value (STPB)			%	Pass
			111.00		
	Phosphate, Available as P2O5	11.83	15.23	%	Pass
	Potash, Soluble (STPB)	11.83	11.11	%	Pass
	Sulfur	3.84	3.54	%	Pass

Product: Custom #29130

Sample No: 20N004593

Commercial Value	113	123.00
Commercial Value (STPB)	113	122.00

Analyte	Claim	Found	Unit	Disposition
Nitrogen, Total	24.69	28.41	%	Pass
Overall Index Value	100		%	Pass
Overall Index Value (STPB)		109.00	%	Pass
Phosphate, Available as P2O5	13.12	13.52	%	Pass
Potash, Soluble	13.12	10.19	%	Deficient
Potash, Soluble (STPB)	13.12	10.13	%	Deficient
Sulfur	1.85	2.33	%	Pass
Zinc, Acid Soluble	0.31	1.35	%	Pass
Product: DAP 18-46-0				
Sample No:	20N004642	146	72.12	
Commercial Value				
Nitrogen, Total	18	8.73	%	Deficient
Overall Index Value	100	49.40	%	Deficient
Phosphate, Available as P2O5	46	22.97	%	Deficient
Sample No:	20N009627	146	145.24	
Commercial Value				
Nitrogen, Total	18	17.86	%	Pass
Overall Index Value	100	99.48	%	Pass
Phosphate, Available as P2O5	46	45.83	%	Pass
Product: MAP 11-52-0				
Sample No:	20N004620	137	136.00	
Commercial Value				
Nitrogen, Total	11	10.77	%	Pass
Overall Index Value	100	99.00	%	Pass
Phosphate, Available as P2O5	52	51.77	%	Pass
Sample No:	20N009629	137	134.60	
Commercial Value				
Nitrogen, Total	11	10.55	%	Pass
Overall Index Value	100	98.25	%	Pass
Phosphate, Available as P2O5	52	51.48	%	Pass
Product: Mesz 12-40-0-10-1				
Sample No:	20N004640			

Commercial Value	116	117.00	
Nitrogen, Total	12	12.35 %	Pass
Overall Index Value	100	101.00	
Phosphate, Available as P2O5	40	39.96	

	Analyte	Claim	Found Unit	Disposition
Sample No: 20N009630	Sulfur	10	10.03 %	Pass
	Zinc, Acid Soluble	1	1.14 %	Pass

Commercial Value	116	115.47	
Nitrogen, Total	12	13.39 %	Pass
Overall Index Value	100	99.54 %	Pass
Phosphate, Available as P2O5	40	37.64 %	Deficient
Sulfur	10	8.61 %	Deficient
Zinc, Water Soluble	1	0.98 %	Pass

Product: Pel Lime

Sample No: 20N009625

Calcium	0.5	36.81 %	Pass
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Product: Pell Lime

Sample No: 20N004643

Calcium	36	35.56 %	Pass
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Product: Potash 0-0-60

Sample No: 20N004619

Sample No: 20N009628	Potash, Soluble (STPB)	60	59.95 %	Pass
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Potash, Soluble	60	60.46 %	Pass
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Product: Sulfur 85%

Sample No: 20N009626

Sulfur	85	84.54 %	Pass
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Product: Supreme 85 - 85% Sulfur

Sample No:	20N009633					
	Sulfur	85	86.46 %	Pass		
Product:	Supreme 85% Sulfur					
Sample No:	20N004616					
	Sulfur	85	85.60 %	Pass		
Product:	Urea 46-0-0					
Sample No:	20N004618					
Nitrogen, Total		46	46.49 %	Pass		
Sample No:	20N009631					
Nitrogen, Total		46	46.50 %	Pass		
Product:	Zinc 36%					
Sample No:	20N004615					
	Analyte	Claim	Found	Unit	Disposition	
Zinc, Acid Soluble		36	43.23	%	Pass	
Sample No:	20N009634	36	41.72	%	Pass	
Zinc, Water Soluble						
Manufacturer:	Clark Community Oil-Kansas S					
Product:	0-0-60					
Sample No:	20N001157	60	59.09	%	Pass	
	Potash, Soluble					
Product:	11-52-0					
Sample No:	20N001159	137	138.84			
	Commercial Value					
	Nitrogen, Total	11	11.25	%	Pass	
	Overall Index Value	100	101.35	%	Pass	
	Phosphate, Available as P2O5	52	52.55	%	Pass	
Product:	21-0-0-24					
Sample No:	20N001158	21	21.12	%	Pass	
	Nitrogen, Total					
	Sulfur	24	24.07	%	Pass	
Product:	46-0-0					
Sample No:	20N001156	46	46.87	%	Pass	
	Nitrogen, Total					

Manufacturer: Cloud Peak Farmers Co-op
 Product: **Unknown Fertilizer: Potash 0-0-62 b**

Sample No: **20N000275** 62 62.99 % **Pass**

Potash, Soluble

Manufacturer: CVA Royal
 Product: **10-34-0**

Sample No: **20N003736** 98 99.88

Commercial Value

Nitrogen, Total 10 10.90 % **Pass**

Overall Index Value 100 % **Pass**

Phosphate, Available as P2O5 34 101.92 33.60 % **Pass**

Manufacturer: Dakota Fertilizer-Canton
 Product: **AMS**

Sample No: 20N004681

Nitrogen, Total 21 21.74
 Sulfur 24 23.53

Analyte Claim Found Unit Disposition

Product: **Custom Blend**

Sample No: 20N004682 127 128.00

Commercial Value

Nitrogen, Total 37 36.68 % **Pass**

Overall Index Value 100 % **Pass**

Phosphate, Available as P2O5 7 7.87 % **Pass**

Potash, Soluble 2 2.68 % **Pass**

Sulfur 2 3.65 % **Pass**

Product: **DAP**

Sample No: 20N004684 146 148.00

Commercial Value

Nitrogen, Total 18 18.14 % **Pass**

Overall Index Value 100 % **Pass**

Phosphate, Available as P2O5 46 101.00 46.56 % **Pass**

Product: **Potash**

Sample No:	20N004685	60	58.35	%	Deficient
Product:	UREA				
Sample No:	20N004683	46	47.42	%	Pass
	Nitrogen, Total				
Manufacturer:	Deuel County Farmers Oil Unio				
Product:	Potash - White				
Sample No:	20N004277	60	63.90	%	Pass
	Potash, Soluble				
Manufacturer:	Easy Gardener Inc				
Product:	Jobes Fertilizer Spikes				
Sample No:	20N000396				
	Commercial Value	60	71.51		
	Nitrogen, Total	6	8.06 %		Pass
	Overall Index Value	100	119.18 %		Pass
	Phosphate, Available as P2O5	18	18.64 %		Pass
	Potash, Soluble	6	10.05 %		Pass
Sample No:	20N004163				
	Commercial Value	63	79.07		
	Nitrogen, Total	9	10.90 %		Pass
	Overall Index Value	100	125.51 %		Pass
	Analyte	Claim	Found	Unit	Disposition
	Phosphate, Available as P2O5	12	16.40	%	Pass
Potash, Soluble		12	13.57	%	Pass
Product:	Jobes fertilizer spikes (fruit & citrus)				
Sample No:	20N009526	63	72.67		
	Commercial Value				
	Nitrogen, Total	9	11.75	%	Pass
	Overall Index Value	100	115.35	%	Pass
	Phosphate, Available as P2O5	12	12.51	%	Pass
Potash, Soluble		12	12.41	%	Pass
Product:	Jobes Fertilizer Spikes for Evergree				

Sample No:	20N010799	43	63.68		
Commercial Value					
Nitrogen, Total		11	15.19	%	Pass
Overall Index Value					
			148.09	%	Pass
	Phosphate, Available as P2O5	3	5.80	%	Pass
Potash, Soluble		4	6.51	%	Pass

Product: **Jobe's Fertilizer Spikes- Tomatoes**

Sample No:	20N008894		86.00		
Commercial Value (STPB)					
Nitrogen, Total		6	10.80	%	Pass
Overall Index Value (STPB)					
			143.00	%	Pass
	Phosphate, Available as P2O5	18	24.92	%	Pass
	Potash, Soluble (STPB)	6	3.40	%	Deficient

Product: **Jobes Fertilizer Spikes Trees/Shrub**

Sample No:	20N010798	54	66.53		
Commercial Value					
Nitrogen, Total		15	16.07	%	Pass
Overall Index Value					
			123.20	%	Pass
	Phosphate, Available as P2O5	3	6.60	%	Pass
Potash, Soluble		3	5.14	%	Pass

Product: **Jobes Organic Palm Food**

Sample No: 20N004164

Commercial Value	20	28.52		
Nitrogen, Total	4	4.59	%	Pass
Overall Index Value	100	142.60		
Phosphate, Available as P2O5	2	4.09		

Analyte	Claim	Found	Unit	Disposition
Potash, Soluble	4	6.55	%	Pass
Product: JOBES ORGANICS AZALEA, CAME				
Sample No: 20N003685	22	30.47		
Commercial Value				
Nitrogen, Total	4.0	4.35	%	Pass
Overall Index Value	100		%	Pass
		138.50		
Phosphate, Available as P2O5	3.0	5.25	%	Pass
Potash, Soluble	4.0	6.91	%	Pass
Sulfur	1.0	3.96	%	Pass
Product: Jobe's Organics Bone Meal Fertilize				
Sample No: 20N008893	34	48.80		
Commercial Value				
Nitrogen, Total	2	2.30	%	Pass
Overall Index Value	100		%	
		143.50		
Phosphate, Available as P2O5	14	20.98	%	Pass
Product: Jobe's Organics- Palm				
Sample No: 20N008752	8	7.75	%	Pass
Calcium				
Commercial Value	20	32.38		
Magnesium, Water Soluble	.5	0.56	%	Pass
Nitrogen, Total	4	4.43	%	Pass
Overall Index Value	100		%	Pass
		161.88		
Phosphate, Available as P2O5	2	4.32	%	Pass
Potash, Soluble	4	10.44	%	Pass
Sulfur	1.2	1.68	%	Pass
Product: Jobe's Organics Slow Release Plan				
Sample No: 20N009431	15	21.22		
Commercial Value				
Nitrogen, Total	2.0	3.96	%	Pass
Overall Index Value	100		%	Pass
		141.46		
Phosphate, Available as P2O5	3.0	2.98	%	Pass

Potash, Soluble

3.0

3.39 %

Pass

Manufacturer: Eau Claire Coop
 Product: 18-0-3

20N012061

57

56.71

Analyte	Claim	Found	Unit	Disposition
Nitrogen, Total	18	17.89	%	Pass
Overall Index Value	100	99.49	%	Pass
Potash, Soluble	3	3.04	%	Pass

Product: 36-0-6

Sample No: 20N011991

114

120.00

Commercial Value		120.00		
Nitrogen, Total	36	37.93	%	Pass
Overall Index Value			%	Pass
Potash, Soluble	6	6.21	%	Pass

Manufacturer: Estelline Community Oil Comp
 Product: Nachurs 6-24-6

Sample No: 20N004293

72

74.61

Commercial Value

Nitrogen, Total	6	6.23	%	Pass
Overall Index Value	100		%	Pass
Phosphate, Available as P2O5	24	104.00		
		24.60	%	Pass
Potash, Soluble	6	6.71	%	Pass

Manufacturer: EuroChem North America Corp
 Product: AMS

Sample No: 20N004584

21

20.51 %

Pass

Nitrogen, Total				
Sulfur	24	23.49	%	Pass

Manufacturer: Farmers Ag Center-Madison
 Product: AMS

Sample No: 20N010988

21

21.86 %

Pass**Nitrogen, Total**

	Sulfur	24	24.36	%	Pass
Product:	DAP				
Sample No:	20N010990	146	158.42		
	Commercial Value				
	Nitrogen, Total	18	19.31	%	Pass
	Overall Index Value	100	108.50	%	Pass
	Phosphate, Available as P2O5	46	50.24	%	Pass
Product:	Gypsum				
20N010989					
	Calcium	21	20.23		
	Analyte	Claim	Found	Unit	Disposition
	Moisture	1	0.42	%	Pass
	Sulfur	16	17.07	%	Pass
Product:	MAP				
Sample No:	20N010986	137	143.28		
	Commercial Value				
	Nitrogen, Total	11	12.05	%	Pass
	Overall Index Value	100	104.58	%	Pass
	Phosphate, Available as P2O5	52	53.56	%	Pass
Product:	Potash				
Sample No:	20N010991	60	59.59	%	Pass
	Potash, Soluble				
Product:	Urea				
Sample No:	20N010992	46	45.69	%	Pass
	Nitrogen, Total				
Product:	Zinc Sulfate				
Sample No:	20N010987	17.5	17.79	%	Pass
	Sulfur				
	Zinc, Acid Soluble	35.5	34.87	%	Pass
Manufacturer:	Farmers Alliance-Mitchell				
Product:	Urea 46-0-0				

Sample No: 20N009516 46 46.74 % Pass

Nitrogen, Total

Manufacturer: Farmers Coop Elevator-Avon
Product: AMS

Sample No: 20N003802 21 21.80 % Pass

Nitrogen, Total

Sulfur 24 24.61 % Pass

Product: DAP

Sample No: 20N003803 146

Commercial Value 152.49

Nitrogen, Total 18 18.91 % Pass

Overall Index Value 100 104.44 % Pass

Phosphate, Available as P2O5 46 47.88 % Pass

Product: MAP

20N003804

137

138.89

Analyte	Claim	Found	Unit	Disposition
Nitrogen, Total	11	11.35	%	Pass
Overall Index Value	100	101.38	%	Pass
Phosphate, Available as P2O5	52	52.42	%	Pass
Product: Potash				
Sample No: 20N003805	60	59.04	%	Pass
Potash, Soluble				
Product: Yrea				
Sample No: 20N003806	46	47.37	%	Pass
Nitrogen, Total				
Manufacturer: Farmers Elevator-Humboldt				
Product: 11-52-0 MAP				
Sample No: 20N003243	137	143.08		
Commercial Value				
Nitrogen, Total	11	12.37	%	Pass
Overall Index Value	100	104.44	%	Pass
Phosphate, Available as P2O5	52	52.98	%	Pass
Product: 28-0-0				
Sample No: 20N003242	28	28.79	%	Pass
Nitrogen, Total				
Product: 9-15-4-35-0.5Zn-0.05Mg				
Sample No: 20N003241	61	62.74		
Commercial Value				
Magnesium, Acid Soluble	0.05	0.02	%	Pass
Nitrogen, Total	9	9.32	%	Pass
Overall Index Value	100	102.86	%	Pass
Phosphate, Available as P2O5	15	15.37	%	Pass
Potash, Soluble	4	4.03	%	Pass
Sulfur	35	3.04	%	Deficient
Zinc, Acid Soluble	0.5	0.46	%	Pass
Product: AMS 21-0-0-24				
Sample No: 20N003244				

Nitrogen, Total

21 20.98 % Pass

Sample No:	Product:	Analyte	Claim	Found Unit	Disposition
20N011782	MAP 11-52-0	Sulfur	24	24.39 %	Pass
		Nitrogen, Total	21	20.86 %	Pass
		Sulfur	24	23.04	
Sample No:	20N011784		137	139.49	
		Commercial Value			
		Nitrogen, Total	11	11.19 %	Pass
		Overall Index Value	100	101.82 %	Pass
		Phosphate, Available as P2O5	52	52.96 %	Pass
Sample No:	20N003245	Potash, Soluble	60	59.89 %	Pass
Sample No:	20N011783	Potash, Soluble	60	59.35 %	Pass
Sample No:	20N003247	Sulfur	85	%	
Sample No:	20N003246	Nitrogen, Total	46	46.81 %	Pass
Sample No:	20N011781	Nitrogen, Total	46	46.86 %	Pass
Manufacturer:	Ferney Farmer's COOP				
Sample No:	20N003584		137	140.87	
		Nitrogen, Total	11	11.43 %	Pass
		Overall Index Value	100	102.83 %	Pass
		Phosphate, Available as P2O5	52	53.29 %	Pass

Sample No:	20N003582	46	46.03	%	Pass
Nitrogen, Total					

Manufacturer: Full Circle Ag - Pierpont
 Product: 0-0-60

Sample No:	20N009611	60	59.04	%	Pass
Potash, Soluble					

Product: 11-52-0

Sample No: 20N009609

137

136.38

Analyte	Claim	Found	Unit	Disposition
Nitrogen, Total	11	10.78	%	Pass
Overall Index Value	100	99.55	%	Pass
Phosphate, Available as P2O5	52	52.02	%	Pass

Product: 21-0-0-24

Sample No:	20N009610	21	20.34	%	Pass
Nitrogen, Total					

Sulfur

24

23.85

%

Pass

Product: 46-0-0

Sample No:	20N009608	46	46.26	%	Pass
Nitrogen, Total					

Manufacturer: Full Circle Ag-Britton
 Product: 0-0-60

Sample No:	20N002034	60	58.91	%	Pass
Potash, Soluble					

Product: 11-52-0

Sample No:	20N002036	137	136.71		
Commercial Value					

Nitrogen, Total					
		11	11.11	%	Pass
Overall Index Value					
		100	99.78	%	Pass

Phosphate, Available as P2O5					
		52	51.69	%	Pass

Sample No: 20N009604

137

136.40

Commercial Value

		Nitrogen, Total	11	10.48	%	Pass
		Overall Index Value	100	99.56	%	Pass
		Phosphate, Available as P2O5	52	52.48	%	Pass
Product:	21-0-0-24					
Sample No:	20N009603		21	20.32	%	Pass
		Nitrogen, Total				
		Sulfur	24	27.03	%	Pass
Product:	46-0-0					
Sample No:	20N002033		46	46.03	%	Pass
		Nitrogen, Total				
Sample No:	20N009605		46	46.23	%	Pass
		Nitrogen, Total				
Manufacturer:	Gavilon Fertilizer LLC-Savanna					
Product:	AMS					

	Analyte	Claim	Found	Unit	Disposition
Sample No: 20N003508		20	21.14	%	Pass
	Nitrogen, Total				
	Sulfur	24	23.64	%	Pass
Sample No: 20N003960		21	20.73	%	Pass
	Nitrogen, Total				
	Sulfur	24	24.06	%	Pass
Product: DAP					
Sample No: 20N003509		146			
	Commercial Value		146.56		
	Nitrogen, Total	18	18.12	%	Pass
	Overall Index Value	100		%	Pass
			100.38		
	Phosphate, Available as P2O5	46	46.10	%	Pass
Sample No: 20N004049		146			
	Commercial Value		149.47		
	Nitrogen, Total	18	18.39	%	Pass
	Overall Index Value	100		%	Pass
			102.38		
	Phosphate, Available as P2O5	46	47.16	%	Pass
Product: MAP					
Sample No: 20N003510		137			
	Commercial Value		141.33		
	Nitrogen, Total	11	11.54	%	Pass
	Overall Index Value	100		%	Pass
			103.16		
	Phosphate, Available as P2O5	52	53.36	%	Pass
Product: Potash					
Sample No: 20N003511		60	60.21	%	Pass
	Potash, Soluble (STPB)				
Manufacturer: Gavilon-St. Paul					
Product: 44-0-0 ESN BLK					
Sample No: 20N001021		44	44.07	%	Pass

Nitrogen, Total

Manufacturer:	Helena Agri-Enterprises, LLC					
Product:	AMS					
Sample No:	20N010983	21	22.16	%	Pass	
Nitrogen, Total						
	Sulfur	24	24.26	%	Pass	
Product:	Custom Blend					
	Analyte	Claim	Found	Unit	Disposition	
Sample No:	20N010985	110.38	109.74			
	Commercial Value					
	Nitrogen, Total	7.45	7.70	%	Pass	
	Overall Index Value	100	99.76	%	Pass	
	Phosphate, Available as P2O5	35.21	33.91	%	Deficient	
	Potash, Soluble	17.61	18.84	%	Pass	
Product:	DAP					
Sample No:	20N010984	146	148.32			
	Commercial Value					
	Nitrogen, Total	18	18.39	%	Pass	
	Overall Index Value	100		%	Pass	
			101.59			
	Phosphate, Available as P2O5	46	46.57	%	Pass	
Product:	MAP					
Sample No:	20N010980	130	137.06			
	Commercial Value					
	Nitrogen, Total	10	11.24	%	Pass	
	Overall Index Value	100		%	Pass	
			105.43			
	Phosphate, Available as P2O5	50	51.66	%	Pass	
Product:	Potash					
Sample No:	20N010982	60	62.48	%	Pass	
	Potash, Soluble					
Product:	Urea					
Sample No:	20N010981	46	45.71	%	Pass	
	Nitrogen, Total					

Manufacturer: Helena Chemical-Clear Lake
 Product: **Customer Blend Fertilizer**
 Sample No: 20N003513

118.89	Commercial Value	113.82		
	Nitrogen, Total	23.23	25.78 %	Pass
	Overall Index Value	100	104.45 %	Pass
	Phosphate, Available as P2O5	16.26	14.95 %	Deficient
	Potash, Soluble	11.61	11.26	
	Sulfur	2.787	3.06	

Sample No: 20N003514

Commercial Value 117.68 124.03 Nitrogen, Total 28.7 31.66

Analyte	Claim	Found	Unit	Disposition
Overall Index Value	100		%	Pass
Phosphate, Available as P2O5	11.48	105.40 10.23	%	Deficient
Potash, Soluble	8.62	8.23	%	Pass
Sulfur	2.292	2.11	%	Pass
Sample No: 20N003515	113.82			
Commercial Value		119.98		
Nitrogen, Total	23.23	26.05	%	Pass
Overall Index Value	100		%	Pass
Phosphate, Available as P2O5	16.26	105.41 14.83	%	Deficient
Potash, Soluble	11.61	11.27	%	Pass
Sulfur	2.787	2.72	%	Pass
Product: Customer Blend Fertilizer				
Sample No: 20N003512	110.66			
Commercial Value		116.28		
Nitrogen, Total	19.66	21.66	%	Pass
Overall Index Value	100		%	Pass
		105.08		

	Phosphate, Available as P2O5	19.66	19.50	%	Pass
Potash, Soluble		12.36	12.31	%	Pass
	Sulfur	2.246	2.76	%	Pass

Manufacturer: Helena-Marshall
Product: Nutri-Link

Sample No:	20N004367	64	80.90		
Commercial Value					
Nitrogen, Total		7	8.84	%	Pass
Overall Index Value		100		%	Pass

	Phosphate, Available as P2O5	21	25.64	%	Pass
Potash, Soluble		1	3.16	%	Pass
Zinc, Acid Soluble		.46	0.39	%	Deficient

Manufacturer: International Mulch Company Product: **Burpee Natural & Organic Blood Me**

Sample No:	20N008743	12	14.10	%	Pass
Nitrogen, Total					

Product:	Burpee Natural & Organic Bone Mea				
Sample No:	20N008742				
	Calcium	7	7.70		
	Commercial Value	34	42.42		

Analyte	Claim	Found	Unit	Disposition
Nitrogen, Total	6	8.05	%	Pass
Overall Index Value	100	124.78	%	Pass
Phosphate, Available as P2O5	8	9.14	%	Pass
Product: Burpee Natural & Organic Tomato +				
Sample No: 20N008772	4	4.46	%	Pass
Calcium				
Commercial Value	25	24.95		
Iron	0.5	0.40	%	Deficient
Magnesium, Water Soluble	1	0.99	%	Pass
Manganese, Water Soluble	0.05	0.06	%	Pass
Nitrogen, Total	3	2.75	%	Pass
Overall Index Value	100	99.79	%	Pass
Phosphate, Available as P2O5	6	6.50	%	Pass
Potash, Soluble	4	3.70	%	Pass
Sulfur	1	0.97	%	Pass
Product: Burpee Organic Blood Meal				
Sample No: 20N004166	12	14.28	%	Pass
Nitrogen, Total				
Product: Burpee Organic Bone Meal				
Sample No: 20N004165	7	8.35	%	Pass
Calcium				
Commercial Value	34	47.00		
Nitrogen, Total	6	7.84	%	Pass
Overall Index Value	100	138.00	%	Pass
Phosphate, Available as P2O5	8	11.60	%	Pass
Manufacturer: J.R. Peters Inc.				
Product: 20-3-19				
Sample No: 20N011985				
Boron, Acid Soluble	0.02	0.02	%	Pass
Commercial Value	85	90.07		
Copper	0.01	0.01	%	Pass

Iron	0.02	0.22
Magnesium, Acid Soluble	1.34	1.46
Manganese, Acid Soluble	0.05	0.09
Molybdenum	0.01	0.01
Nitrogen, Total	20	21.77

Analyte	Claim	Found	Unit	Disposition
Overall Index Value		105.97	%	Pass
Phosphate, Available as P2O5	3	2.93	%	Pass
Potash, Soluble	19	18.90	%	Pass
Sulfur	4.09	3.72	%	Pass
Zinc, Acid Soluble	0.05	0.05	%	Pass
Product: 21-5-20				
Sample No: 20N011984	0.021	0.02	%	Pass
Boron, Acid Soluble				
Commercial Value	93	99.91		
Commercial Value (STPB)		99.30		
Copper	0.0105	0.01	%	Pass
Iron	0.105	0.10	%	Pass
Magnesium, Acid Soluble	0.15	0.33	%	Pass
Manganese, Acid Soluble	0.0525	0.05	%	Pass
Molybdenum	0.0105	0.01	%	Pass
Nitrogen, Total	21	24.24	%	Pass
Overall Index Value		107.40	%	Pass
Overall Index Value (STPB)		106.80	%	
Phosphate, Available as P2O5	5	4.94	%	Pass
Potash, Soluble	20	17.31	%	Deficient
Potash, Soluble (STPB)	20	16.70	%	Deficient
Zinc, Acid Soluble	0.0525	0.05	%	Pass

Product: **25-5-15**

Sample No: 20N011986

Boron, Acid Soluble	0.025	0.02	%	Pass
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Commercial Value	100	102.69	
Copper	0.0125	0.01 %	Pass
Iron	0.125	0.13 %	Pass
Magnesium, Acid Soluble	0.1	0.31 %	Pass
Manganese, Acid Soluble	0.0630	0.06 %	Pass
Molybdenum	0.0125	0.01 %	Pass
Nitrogen, Total	25	26.02	
Overall Index Value		102.69	
Phosphate, Available as P2O5	5	4.79	
Potash, Soluble	15	15.04	
Sulfur	0.13	0.32	

	Analyte	Claim	Found	Unit	Disposition
Product:	9-45-15				
Sample No:	20N012054	0.0068	0.01	%	Pass
	Boron, Acid Soluble				
	Commercial Value	132	134.64		
	Copper	0.0036	0.00	%	Pass
	Iron	0.05	0.06	%	Pass
	Magnesium, Acid Soluble	0.05	0.08	%	Pass
	Manganese, Acid Soluble	0.025	0.07	%	Pass
	Nitrogen, Total	9	9.13	%	Pass
	Overall Index Value	100	102.00	%	Pass
	Phosphate, Available as P2O5	45	44.95	%	Pass
	Potash, Soluble	15	17.34	%	Pass
	Zinc, Acid Soluble	0.0025	0.01	%	Pass
Manufacturer:	Knox Fertilizer Company, Inc.				
Product:	Schultz African Violet Liquid Plant Fo				

Sample No: **20N009427**

61

63.96

Commercial Value

Iron	0.10	0.09	%	Pass
Manganese, Acid Soluble	0.05	0.05	%	Pass
Nitrogen, Total	8	8.39	%	Pass
Overall Index Value	100		%	Pass
Phosphate, Available as P2O5	14	104.85 14.64	%	Pass
Potash, Soluble	9	9.52	%	Pass
Zinc, Acid Soluble	0.05	0.06	%	Pass

Product: **Schultz- All Purpose Slow Release P**

Sample No: 20N009434

Boron, Water Soluble	0.02	0.03	%	Pass
Commercial Value	84	83.53		
Copper	0.05	0.06	%	Pass
Iron	1.11	1.49	%	Pass
Manganese, Water Soluble	0.05	0.09		
Nitrogen, Total	16.00	15.38		
Overall Index Value	100	99.44		
Phosphate, Available as P2O5	12.00	12.49		
Potash, Soluble	12.00	12.41		

Analyte Claim Found Unit Disposition

Sulfur	2.10	2.74	%	Pass
Zinc, Water Soluble	0.05	0.31	%	Pass

Product: **Schultz Bloom Plus**

Sample No: **20N009432**

0.02

0.02

%

Pass

Boron, Water Soluble

Commercial Value	148	148.00		
Copper	0.07	0.07	%	Pass
Iron	0.325	0.36	%	Pass
Manganese, Water Soluble	0.07	0.06	%	Pass

Nitrogen, Total	10.00	10.18	%	Pass
Overall Index Value	100		%	Pass
		100.00		
Phosphate, Available as P2O5	54.00	53.88	%	Pass
Potash, Soluble	10.00	10.14	%	Pass
Zinc, Water Soluble	0.07	0.08	%	Pass

Product: **Schultz Cactus Liquid Plant Food PI**

Sample No: **20N009426**

	27	30.50		
Commercial Value				

Iron	0.10	0.10	%	Pass
Manganese, Acid Soluble	0.05	0.05	%	Pass

Nitrogen, Total	2	2.52	%	Pass
Overall Index Value	100		%	Pass

112.97

Phosphate, Available as P2O5	7	7.70	%	Pass
Potash, Soluble	7	7.56	%	Pass

Zinc, Acid Soluble	0.05	0.06	%	Pass
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Product: **Schultz Orchid Food**

Sample No: 20N009433

Boron, Water Soluble	0.02	0.02	%	Pass
Commercial Value	115	123.79		
Copper	0.07	0.07	%	Pass
Iron	0.325	0.29	%	Pass
Manganese, Water Soluble	0.07	0.06	%	Pass
Nitrogen, Total	20.00	21.65		
Overall Index Value	100	107.65		
Phosphate, Available as P2O5	20.00	21.95		
Potash, Soluble	15.00	14.93		
Zinc, Water Soluble	0.07	0.07		

Product: **Schultz Plant Food- Liquid Plant Foo**

Sample No:	20N009428	70	73.85		
Commercial Value					
	Iron	0.10	0.10	%	Pass
	Manganese, Acid Soluble	0.05	0.05	%	Pass
	Nitrogen, Total	10	10.97	%	Pass
Overall Index Value					
		100	105.50	%	Pass
	Phosphate, Available as P2O5	15	15.45	%	Pass
	Potash, Soluble	10	10.05	%	Pass
	Zinc, Acid Soluble	0.05	0.06	%	Pass

Manufacturer: Koch Fertilizer LLC-Wichita

Product: **10-34-0**

Sample No:	20N004438	98	98.00		
Commercial Value					
	Nitrogen, Total	10	10.09	%	Pass
Overall Index Value					
		100	100.00	%	Pass
	Phosphate, Available as P2O5	34	33.75	%	Pass

Product: **28%**

Sample No:	20N008911	28	28.26	%	Pass
	Nitrogen, Total				

Manufacturer: Koch Fertilizer, LLC-Brandon

Product: **10-34-0**

Sample No:	20N004210	98	99.84		
Commercial Value					
	Nitrogen, Total	10	10.44	%	Pass
Overall Index Value					
		100	101.87	%	Pass
	Phosphate, Available as P2O5	34	34.26	%	Pass

Manufacturer: LaBolt Farmer s Grain

Product: **00-60**

Sample No:	20N001705	60	60.44	%	Pass
	Potash, Soluble				

Product: **11-52-0**

Sample No: 20N001704

Commercial 137
 Value 137.25
 Nitrogen, 11 10.97
 Total
 Overall Index 100
 Value 100.18

Analyte	Claim	Found Unit	Disposition
Phosphate, Available as P2O5	52	52.18 %	Pass
Product: 21-00-24			

Sample No: 20N001703

Nitrogen, Total	21	21.60 %	Pass
Sulfur	24	24.40 %	Pass
Product: 46-00 Urea			

Sample No: 20N001702

Nitrogen, Total	46	46.04 %	Pass
Manufacturer: Landis Ag			
Chemical Sales			
Product: AMS			

Sample No: 20N010979

Nitrogen, Total	21	21.48 %	Pass
Sulfur	25	24.26 %	Pass
Product: DAP			

Sample No: 20N010976

Commercial
 Value 146 145.10
 Nitrogen, Total 18 17.76 % **Pass**
 Overall Index 100 99.38 % **Pass**
 Value
 Phosphate, 46 45.91 %
 Available as
 P2O5 **Pass**

Product: Potash			
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Sample No: 20N010978

Potash, Soluble	60	61.71 %	Pass
Product: Urea			

Sample No: 20N010977

Nitrogen, Total 46 45.62 % Pass

Manufacturer: Landis Ag Sales

Product: AMS 21-0-0-24

Sample No: 20N004562

Nitrogen, Total 21 21.01 % Pass

Sulfur 24 23.96 % Pass

Product: DAP 18-46-0

Sample No: 20N004561

Commercial Value 146 153.00

Nitrogen, Total 18 18.78 % Pass

Overall Index Value 100 105.00

Phosphate, Available as P2O5 46 48.59

Product: Potash 0-0-60

Sample No: 20N004560

Potash, Soluble (STPB) 60 59.04 % Pass

Product: urea 46-0-0

Sample No: 20N004563

Nitrogen, Total 46 46.62 % Pass

Manufacturer: Lesco, Inc.

Product: 14-20-4

Sample No: 20N012172

Commercial Value 86 85.41

Nitrogen, Total 14 13.43 % Pass

Overall Index Value 100 99.32 % Pass

Phosphate, Available as P2O5 20 20.57 % Pass

Potash, Soluble 4 3.99 % Pass

Product: 18-0-4

Sample No: 20N012176

Commercial Value 58 52.87

Nitrogen, Total 18 16.41 % Deficient

	Overall Index Value	100	91.16 %	Deficient
	Potash, Soluble	4	3.63 %	Pass
Product:	19-0-6			
Sample No:	20N012253			
	Commercial Value	63	61.80	
	Nitrogen, Total	19	18.57 %	Pass
	Overall Index Value	100	98.10 %	Pass
	Potash, Soluble	6	6.08 %	Pass
Product:	28-0-3			
Sample No:	20N012173			
	Commercial Value	87	94.46	
	Nitrogen, Total	28	30.56 %	Pass
	Overall Index Value	100	%	Pass
			108.58	
	Potash, Soluble	3	2.78 %	Pass
Manufacturer:	Lily Miller			
Brands Product:	Alaska Fish Fertilizer			

Sample No: 20N007951

Commercial Value 18 19.35

Analyte	Claim	Found	Unit	Disposition
Nitrogen, Total	5	4.69	%	Pass
Overall Index Value	100		%	Pass
Phosphate, Available as P2O5	1	107.47		
		2.09	%	Pass
Potash, Soluble	1	1.11	%	Pass
Sample No: 20N008226	18	21.27		
Commercial Value				
Nitrogen, Total	5	4.66	%	Pass
Overall Index Value	100		%	Pass
Phosphate, Available as P2O5	1	118.18		
		2.63	%	Pass
Potash, Soluble	1	2.04	%	Pass
Manufacturer: Martin Resources				
Product: Sulfur 0-0-0-90				
Sample No: 20N010842	90	89.66	%	Pass
Sulfur				
Manufacturer: Mears Fertilizer, Inc.				
Product: 17-17-17				
Sample No: 20N012171	102			
Commercial Value		103.91		
Nitrogen, Total	17	17.36	%	Pass
Overall Index Value	100		%	Pass
Phosphate, Available as P2O5	17	101.87		
		17.53	%	Pass
Potash, Soluble	17	16.78	%	Pass
Product: 32-5-7				
Sample No: 20N012175	113			
Commercial Value		113.35		
Nitrogen, Total	32	32.19	%	Pass
Overall Index Value	100		%	Pass
Phosphate, Available as P2O5	5	100.31		
		4.83	%	Pass
Potash, Soluble	7	7.13	%	Pass
Product: 33-0-5				

Sample No:	20N012174	104			
	Commercial Value			104.31	
	Nitrogen, Total	33		32.85	% Pass
	Overall Index Value	100			% Pass
				100.30	
	Potash, Soluble	5		5.76	% Pass
Manufacturer:	Miracle-Gro Lawn Inc - Maryvill				
Product:	Jobes Fertilizer Spikes				
Sample No:	20N010797	60		72.06	
	Commercial Value				
	Nitrogen, Total	6		9.53	% Pass
	Overall Index Value				% Pass
				120.10	
	Phosphate, Available as P2O5	18		17.52	% Pass
	Potash, Soluble	6		8.42	% Pass
Product:	Miracle Gro Bloom Booster				
Sample No:	20N010796	144		147.15	
	Commercial Value				
	Nitrogen, Total	10		9.97	% Pass
	Overall Index Value				% Pass
				102.20	
	Phosphate, Available as P2O5	52		53.22	% Pass
	Potash, Soluble			10.79	% Pass
Product:	Miracle Gro Blooming Houseplant F				
Sample No:	20N010794	4		4.51	
	Commercial Value				
	Nitrogen, Total	.5		0.48	% Pass
	Overall Index Value				% Pass
				112.70	
	Phosphate, Available as P2O5	1.0		1.13	% Pass
	Potash, Soluble	.5		0.77	% Pass
Product:	Miracle Gro LiquaFeed Bloom Boos				
Sample No:	20N008227	60		68.14	
	Commercial Value				
	Manganese, Acid Soluble	.05		0.06	% Pass

Nitrogen, Total	12	13.27	%	Pass
Overall Index Value	100			Pass
		113.56		
Phosphate, Available as P2O5	9	9.71	%	Pass
Potash, Soluble	6	8.89	%	Pass
Zinc, Acid Soluble	.05	0.05	%	Pass

Product: **Miracle Gro Miracid**

Sample No: 20N008225

Boron, Water Soluble	.02	0.02	%	Pass
Commercial Value	120	131.36		
Copper	.07	0.08	%	Pass
Iron	.325	0.42		

Analyte	Claim	Found	Unit	Disposition
Manganese, Water Soluble	.05	0.07	%	Pass
Nitrogen, Total	30	33.27	%	Pass
Overall Index Value	100	109.46	%	Pass
Phosphate, Available as P2O5	10	10.58	%	Pass
Potash, Soluble	10	10.38	%	Pass
Zinc, Water Soluble	.07	0.07	%	Pass

Product: Miracle Gro Nature's Care
Vegetable

Sample No: 20N008744

Nitrogen, Total	8	7.78	%	Pass
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Product: Miracle Gro Performance
Organics -

Sample No: 20N008221

Calcium	2	1.98	%	Pass
Commercial Value	38	41.63		
Magnesium, Water Soluble	.5	0.76	%	Pass
Nitrogen, Total	9	8.71	%	Pass
Overall Index Value	100	109.55	%	Pass
Phosphate, Available as P2O5	2	2.47	%	Pass
Potash, Soluble	7	10.55	%	Pass
Sulfur	1	1.88	%	Pass

Product: Miracle Gro Performance
Organics -

Sample No: 20N008216

Calcium	8.7	9.62 %	Pass
Commercial Value	48	58.43	
Copper	.05	0.09 %	Pass
Iron	.10	0.22 %	Pass
Manganese, Water Soluble	.05	0.08 %	Pass
Nitrogen, Total	8	7.98 %	Pass
Overall Index Value	100	121.73 %	Pass
Phosphate, Available as P2O5	8	9.97 %	Pass
Potash, Soluble	8	14.55 %	Pass
Zinc, Water Soluble	.05	0.07 %	Pass

Product: Miracle Gro Quick Start
Planting Tab

Sample No: 20N003739

Calcium	7.0	7.39 %	Pass
Commercial Value	27	34.27	
Nitrogen, Total	3.0	4.37	

Analyte	Claim	Found	Unit	Disposition
Overall Index Value	100	126.92	%	Pass
Phosphate, Available as P2O5	7.0	8.36	%	Pass
Potash, Soluble	4.0	4.43	%	Pass
Product: Miracle Gro Rose Plant Food				
Sample No: 20N010795	118	127.02		
Commercial Value				
Nitrogen, Total	18	18.94	%	Pass
Overall Index Value		107.60	%	Pass
Phosphate, Available as P2O5	24	26.66	%	Pass
Potash, Soluble	16	16.89	%	Pass
Product: Miracle Gro Tomato Plant Food				
Sample No: 20N008773	111	115.63		
Commercial Value				
Copper	0.05	0.06	%	Pass
Iron	0.10	0.12	%	Pass
Magnesium, Water Soluble	0.50	0.51	%	Pass
Manganese, Water Soluble	0.05	0.05	%	Pass
Nitrogen, Total	18	19.10	%	Pass
Overall Index Value	100	104.17	%	Pass
Phosphate, Available as P2O5	18	18.42	%	Pass
Potash, Soluble	21	21.49	%	Pass
Zinc, Water Soluble	0.05	0.13	%	Pass
Product: Miracle Gro Watering Can Singles				
Sample No: 20N008223	104	117.04		
Commercial Value				
Nitrogen, Total	24	23.55	%	Pass
Overall Index Value	100	112.54	%	Pass
Phosphate, Available as P2O5	8	9.70	%	Pass
Potash, Soluble	16	26.99	%	Pass
Product: Miracle-Gro All Purpose				
Sample No: 20N003740				

Commercial Value	104	109.26	
Nitrogen, Total	24	25.33 %	Pass
Overall Index Value	100	105.05 %	Pass
Phosphate, Available as P2O5	8	8.39 %	Pass
Potash, Soluble	16	16.49	

Product: **MIRACLE-GRO BLOOM BOOSTER**

Analyte	Claim	Found Unit	Disposition
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Sample No:	20N003714	120		
Commercial Value			126.03	
	Nitrogen, Total	15	15.80 %	Pass
Overall Index Value			105.02 %	Pass
	Phosphate, Available as P2O5	30	31.46 %	Pass
Potash, Soluble		15	15.71 %	Pass

Product: **Miracle-Gro Miracid**

Sample No:	20N003737	120		
Commercial Value			127.24	
	Nitrogen, Total	30	30.56 %	Pass
Overall Index Value		100	106.03 %	Pass
	Phosphate, Available as P2O5	10	12.02 %	Pass
Potash, Soluble		10	11.52 %	Pass

Product: **Miracle-Gro Performance Organics**

Sample No:	20N003734	3.0	3.98 %	Pass
	Calcium			
Commercial Value		47	51.75	
	Nitrogen, Total	11.0	11.65 %	Pass
Overall Index Value		100	110.11 %	Pass
	Phosphate, Available as P2O5	3.0	4.06 %	Pass
Potash, Soluble		8.0	8.70 %	Pass

Product: **MIRACLE-GRO TOMATO PLANT F**

Sample No: 20N003716 111 115.22

Commercial Value

Nitrogen, Total	18	19.52	%	Pass
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Overall Index Value

100 % Pass

103.80

Phosphate, Available as P2O5	18	17.88	%	Pass
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Potash, Soluble

21 20.91 % Pass

Product: Nature's Care Orgnic Blood Meal

Sample No: 20N003741 12 14.55 % Pass

Nitrogen, Total

Product: Osmocote Plus Outdoor & Indoor

Sample No: 20N003735

Commercial Value 75 83.44

Nitrogen, Total 15 16.87

Analyte	Claim	Found	Unit	Disposition
Overall Index Value	100	111.25	%	Pass
Phosphate, Available as P2O5	9	10.04	%	Pass
Potash, Soluble	12	12.73	%	Pass
Sulfur	6	7.06	%	Pass

Product: Scotts Flower & Vegetable

Sample No: 20N003742

Commercial Value 60 68.99

Nitrogen, Total 10 10.80 % Pass

Overall Index Value 100 % Pass

114.99

Phosphate, Available as P2O5 10 12.53 % Pass

Potash, Soluble 10 11.54 % Pass

Sulfur 2 2.41 % Pass

Manufacturer: Missouri River Farms-Yankton

Product: AMS (21-0-0-24)

Sample No: 20N011768

Nitrogen, Total 21 20.60 % Pass

Sulfur 24 24.71 % Pass

Product: MAP (11-52-0)-
green

Sample No:
20N011764

Commercial Value	137	138.57	
Nitrogen, Total	11	10.52 %	Pass
Overall Index Value	100	%	Pass
		101.14	
Phosphate, Available as P2O5	52	53.50 %	Pass

Product: MAP (11-52-0)-
white

Sample No:
20N011765

Commercial Value	137	137.11	
Nitrogen, Total	11	10.86 %	Pass
Overall Index Value	100	%	Pass
		100.08	
Phosphate, Available as P2O5	52	52.26 %	Pass

Product: Potash (0-0-60)

Sample No:
20N011766

Potash, Soluble	60	58.91 %	Pass
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**Manufacturer: Montana
Sulphur & Chemical C**

Product: Disintegrating
Sulfur Granules

Sample No: 21N000020

Sulfur	90	86.50	Deficient
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		Analyte	Claim	Found Unit	Disposition
Manufacturer:	Mosaic Global Sales LLC C/O M				
Product:	00-00-60 Red GRAN Potash BLK				
Sample No:	20N001026	60	60.77	%	Pass
Potash, Soluble					
Product:	11-52-00 MAP DRBL BLK				
Sample No:	20N001019	137	136.86		
	Commercial Value				
	Nitrogen, Total	11	10.70	%	Pass
	Overall Index Value	100	99.90	%	Pass
	Phosphate, Available as P2O5	52	52.37	%	Pass
Product:	12-40-0 Mesz				
Sample No:	20N001018	116	115.65		
	Commercial Value				
	Nitrogen, Total	12	11.54	%	Pass
	Overall Index Value	100	99.70	%	Pass
	Phosphate, Available as P2O5	40	40.52	%	Pass
	Sulfur	10	9.45	%	Pass
	Zinc, Acid Soluble	1	0.98	%	Pass
Product:	18-46-0 DAP				
Sample No:	20N000570	146	146.29		
	Commercial Value				
	Nitrogen, Total	18	17.30	%	Pass
	Overall Index Value	100	100.20	%	Pass
	Phosphate, Available as P2O5	46	47.20	%	Pass
Manufacturer:	Mosaic Global Sales, LLC-Lithi				
Product:	0-0-60				
Sample No:	20N010817	60	59.44	%	Pass
Potash, Soluble					
Product:	11-52-0				
Sample No:	20N010815	137	136.67		
Commercial Value					
	Nitrogen, Total	11	11.17	%	Pass

Overall Index Value		100	99.76	%	Pass
	Phosphate, Available as P2O5	52	51.58	%	Pass
Product:	12-40-0-10-1				
20N010814					
	Analyte	Claim	Found	Unit	Disposition
	Commercial Value	116	118.22		
	Nitrogen, Total	12	12.14	%	Pass
	Overall Index Value	100	101.92	%	Pass
	Phosphate, Available as P2O5	40	40.91	%	Pass
	Sulfur	10	8.77	%	Deficient
	Zinc, Acid Soluble	1	0.87	%	Deficient
Product:	18-46-0				
Sample No:	20N010816	146			
	Commercial Value		145.47		
	Nitrogen, Total	18	17.76	%	Pass
	Overall Index Value	100	99.64	%	Pass
	Phosphate, Available as P2O5	46	46.10	%	Pass
Product:	Dap				
Sample No:	20N004052	146			
	Commercial Value		146.72		
	Nitrogen, Total	18	18.10	%	Pass
	Overall Index Value	100	100.49	%	Pass
	Phosphate, Available as P2O5	46	46.21	%	Pass
Product:	Map				
Sample No:	20N003744	137			
	Commercial Value		143.31		
	Nitrogen, Total	11	11.97	%	Pass
	Overall Index Value	100	104.60	%	Pass
	Phosphate, Available as P2O5	52	53.70	%	Pass
Sample No:	20N004566	137			
	Commercial Value		139.00		
	Nitrogen, Total	11	11.50	%	Pass

		Overall Index Value	100		%	Pass
		Phosphate, Available as P2O5	52	101.00	52.45	% Pass
Sample No:	20N004589		137			
		Commercial Value		138.00		
		Nitrogen, Total	11	11.21	%	Pass
		Overall Index Value	100		%	Pass
		Phosphate, Available as P2O5	52	101.00	52.11	% Pass
Product:	Mesz					
20N004048						
		Analyte	Claim	Found	Unit	Disposition
		Commercial Value	116			
		Nitrogen, Total	12	116.33	12.22	% Pass
		Overall Index Value	100		%	Pass
		Phosphate, Available as P2O5	40	100.28	39.84	% Pass
		Sulfur	10	9.64	%	Pass
		Zinc, Acid Soluble	1	0.92	%	Pass
Product:	Potash					
Sample No:	20N003745		60	61.10	%	Pass
		Potash, Soluble				
Sample No:	20N004054		60	59.76	%	Pass
		Potash, Soluble				
Manufacturer:	Nutren Ag Solutions					
Product:	AMS 21-00-24					
Sample No:	20N003723		21.0	21.09	%	Pass
		Nitrogen, Total				
		Sulfur	24.0	24.41	%	Pass
Product:	Custom #42885360					
Sample No:	20N003733		124.6			
		Commercial Value		130.45		
		Nitrogen, Total	30.9	32.61	%	Pass
		Overall Index Value	100		%	Pass
		Phosphate, Available as P2O5	13.20	104.70	13.77	% Pass

	Potash, Soluble	5.5	5.09 %	Pass
	Sulfur	1.80	2.48 %	Pass
	Zinc, Acid Soluble	0.220	0.22 %	Pass
Product:	MAP11-52-0			
Sample No:	20N003729	137		
	Commercial Value		136.57	
	Nitrogen, Total	11	10.67 %	Pass
	Overall Index Value	100	99.69 %	Pass
	Phosphate, Available as P2O5	52	52.29 %	Pass
Product:	Pell Lime98-G			
Sample No:	20N003726	36	35.43 %	Pass
	Calcium			
Product:	Potash 0-0-60			

20N003727

Analyte	Claim	Found	Unit	Disposition
Potash, Soluble	60	61.03	%	Pass
Product: Urea 46-0-0				
Sample No: 20N003728	46	47.27	%	Pass
Nitrogen, Total				
Product: Zinc 35.5%				
Sample No: 20N003731	35.5	26.59	%	Deficient
Zinc, Acid Soluble				
Manufacturer: Nutrien Ag Solutions - Elk Point				
Product: AMS (21-0-0-24)				
Sample No: 20N011745	21	21.86	%	Pass
Nitrogen, Total				
Sulfur	24	24.72	%	Pass
Product: ESN (42-0-0)				
Sample No: 20N011748	42	44.44	%	Pass
Nitrogen, Total				
Product: MAP (11-52-0)				
Sample No: 20N011747	137			
Commercial Value		137.69		
Nitrogen, Total	11	10.42	%	Pass
Overall Index Value	100		%	Pass
Phosphate, Available as P2O5	52	100.50		
Product: Potash (0-0-60)		53.21	%	Pass
Sample No: 20N011746	60	59.78	%	Pass
Potash, Soluble				
Manufacturer: Nutrien Ag Solutions - Emery				
Product: AMS				
Sample No: 20N003151	21	20.39	%	Pass
Nitrogen, Total				
Sulfur	24	26.23	%	Pass
Product: MAP				

Sample No:	20N003154	137	135.95		
	Commercial Value				
	Nitrogen, Total	11	10.85	%	Pass
	Overall Index Value	100	99.23	%	Pass
	Phosphate, Available as P2O5	52	51.70	%	Pass
Product:	MESZ				
	Analyte	Claim	Found	Unit	Disposition
Sample No:	20N003152	116	114.71		
	Commercial Value				
	Nitrogen, Total	12	11.43	%	Pass
	Overall Index Value	100	98.89	%	Pass
	Phosphate, Available as P2O5	40	40.20	%	Pass
	Sulfur	10	9.91	%	Pass
	Zinc, Acid Soluble	1	0.91	%	Pass
Product:	Potash				
Sample No:	20N003150	60	58.67	%	Pass
	Potash, Soluble				
Product:	Urea				
Sample No:	20N003153	46	46.67	%	Pass
	Nitrogen, Total				
Manufacturer:	Origination Inc. - Rosemount				
Product:	21-0-0-24				
Sample No:	20N010813	21	22.01	%	Pass
	Nitrogen, Total				
	Sulfur	24	23.44	%	Pass
Product:	21-0-0-24s				
Sample No:	20N001020	21	21.04	%	Pass
	Nitrogen, Total				
	Sulfur	24	24.51	%	Pass
Product:	AMS				
Sample No:	20N004564	21	21.49	%	Pass
	Nitrogen, Total				
	Sulfur	24	24.21	%	Pass

Manufacturer: Perscription Agronomics
 Product: 8-20-5-4S-.5Z Liquid Fertilizer

Sample No:	20N003824				
	Commercial Value	69	68.92		
	Nitrogen, Total	8	8.23 %		Pass
	Overall Index Value	100	99.89 %		Pass
	Phosphate, Available as P2O5	20	19.68 %		Pass
	Potash, Soluble	5	4.87 %		Pass
	Sulfur, Gravimetric	4.0	4.23 %		Pass
	Zinc, Acid Soluble	0.50	0.52 %		Pass
	Analyte	Claim	Found Unit		Disposition

Manufacturer: Prairie Ag Partners
 Product: 10-34-0

Sample No:	20N004588	98			
Commercial Value			100.00		
	Nitrogen, Total	10	10.98 %		Pass
Overall Index Value		100	102.00		Pass
	Phosphate, Available as P2O5	34	33.66 %		Pass

Manufacturer: Prairie Ag Partners - Badger
 Product: AMS

Sample No:	20N004050	21			
	Nitrogen, Total		21.63 %		Pass
	Sulfur	24	24.62 %		Pass

Product: Map

Sample No:	20N004059	137			
	Commercial Value		136.37		
	Nitrogen, Total	11	10.46 %		Pass
	Overall Index Value	100	99.54 %		Pass
	Phosphate, Available as P2O5	52	52.50 %		Pass

Manufacturer: Prairie Ag-Arlington Product:
Customer Blend Fertilizer

Sample No: **20N004046** 33.5 % **Pass**

Nitrogen, Total

33.93

Sulfur 11.998 % **Pass**

12.36

Manufacturer: Prescription Agronomics

Product: **6-24-6-1S**

Sample No: **20N004225** 72

Commercial Value

74.00

Nitrogen, Total

6

6.72 %

Pass

Overall Index Value

100

103.0 %

Pass

103.00

Phosphate, Available as P2O5

24

23.93 %

Pass

Potash, Soluble

6

6.25 %

Pass

Sulfur

1

1.11 %

Pass

Zinc, Acid Soluble

.25

0.26 %

Pass

Product: **7-23-4-1S-.25Z**

Sample No: 20N004175

Commercial Value 71

73.85

Analyte	Claim	Found	Unit	Disposition
Nitrogen, Total	7	7.28	%	Pass
Overall Index Value	100	104.02	%	Pass
Phosphate, Available as P2O5	23	23.92	%	Pass
Potash, Soluble	4	4.18	%	Pass
Sulfur	1	1.19	%	Pass
Zinc, Acid Soluble	.25	0.27	%	Pass

Product: 8-20-2-2S

Sample No: 20N003826

Commercial Value	66	66.28		
Nitrogen, Total	8	8.35	%	Pass
Overall Index Value	100	100.43	%	Pass

	Phosphate, Available as P2O5	20	19.69 %	Pass	
	Potash, Soluble	2.0	1.84 %	Pass	
	Sulfur, Gravimetric	2	2.40 %	Pass	
	Zinc, Acid Soluble	0.15	0.32 %	Pass	
Product:	8-20-5-4S-.5Z Liquid Fertilizer				
Sample No:	20N004226				
Commercial Value		69	71.00		
Nitrogen, Total		8	8.58 %	Pass	
Overall Index Value		100	103.00 %	Pass	
	Phosphate, Available as P2O5	20	20.10 %	Pass	
Potash, Soluble		5	5.28 %	Pass	
	Sulfur	4	4.18 %	Pass	
Zinc, Acid Soluble		.5	0.56 %	Pass	
Manufacturer:	Rivers Edge Cooperative				
Product:	10-34-0				
Sample No:	20N010975				
Commercial Value		98	97.90		
Nitrogen, Total		10	10.44 %	Pass	
Overall Index Value		100	99.90 %	Pass	
	Phosphate, Available as P2O5	34	33.29 %	Pass	
Product:	28-0-0				
Sample No:	20N010974				
Nitrogen, Total		28	28.55 %	Pass	
Product:	AMS				
Sample No:	20N010973				
	Analyte	Claim	Found	Unit	Disposition
	Nitrogen, Total	21	21.80	%	Pass
	Sulfur	24	24.07	%	Pass
Product:	DAP				
Sample No:	20N010971				
		146	147.64		
	Commercial Value				
	Nitrogen, Total	18	18.26 %	Pass	

		Overall Index Value	100		101.13	%	Pass
		Phosphate, Available as P2O5	46		46.44	%	Pass
Product:	POTASH						
Sample No:	20N010970		60		59.67	%	Pass
		Potash, Soluble					
Product:	Urea						
Sample No:	20N010972		46		45.83	%	Pass
		Nitrogen, Total					
Manufacturer:	Roslyn Elevator						
Product:	0-0-60						
Sample No:	20N009586		60		56.74	%	Deficient
		Potash, Soluble (STPB)					
Product:	11-52-0						
Sample No:	20N009584		137		136.19		
		Commercial Value					
		Nitrogen, Total	11		11.02	%	Pass
		Overall Index Value	100		99.41	%	Pass
		Phosphate, Available as P2O5	52		51.57	%	Pass
Product:	21-0-0-24						
Sample No:	20N009583		21		21.23	%	Pass
		Nitrogen, Total					
		Sulfur	24		24.35	%	Pass
Product:	46-0-0						
Sample No:	20N009581		46		45.16	%	Pass
		Nitrogen, Total					
Manufacturer:	SBM Life Science Corp						
Product:	NUTRI ONE All Purpose Plant Food						
Sample No:	20N003743						
		Commercial Value	60		60.40		
		Nitrogen, Total	10		10.43	%	Pass
	Analyte	Claim		Found	Unit		Disposition

Overall Index Value	100		%	Pass
		100.66		
Phosphate, Available as P2O5	10	9.61	%	Pass
Potash, Soluble	10	9.89	%	Pass
Sulfur	13.2	15.71	%	Pass
Manufacturer:	Scotts Miracle Gro			
Product:	Miracle Grow Plant Food vegetables			
Sample No:	20N009527	111		
Commercial Value		119.50		
Nitrogen, Total	18	21.09	%	Pass
Overall Index Value	100		%	Pass
		107.65		
Phosphate, Available as P2O5	18	17.84	%	Pass
Potash, Soluble	21	20.54	%	Pass
Product:	Miracle Grow Water Soluble Tomato			
Sample No:	20N009539	111		
Commercial Value		114.45		
Nitrogen, Total	18	18.45	%	Pass
Overall Index Value	100		%	Pass
		103.10		
Phosphate, Available as P2O5	18	18.93	%	Pass
Potash, Soluble	21	21.21	%	Pass
Product:	Miracle-Gro Liquid All Purpose Plan			
Sample No:	20N007952	52		
Commercial Value		52.19		
Nitrogen, Total	12	12.17	%	Pass
Overall Index Value	100		%	Pass
		100.37		
Phosphate, Available as P2O5	4	4.09	%	Pass
Potash, Soluble	8	7.49	%	Pass
Product:	Scotts Fall Lawn Fertilizer			
Sample No:	20N010800			
Commercial Value (STPB)		86.13		
Nitrogen, Total	24	25.25	%	Pass

		Overall Index Value (STPB)		100.20	%	Pass
Potash, Soluble		14		10.18	%	Deficient
		Potash, Soluble (STPB)	14	10.38	%	Deficient
		Sulfur	14	13.48	%	Pass
Manufacturer:	Shafer's Fisheries, Inc.					
Product:	SF Organics Organic Plant Nutrition					
	Analyte	Claim		Found	Unit	Disposition
Sample No:	20N003812	1.0		1.57	%	Pass
	Calcium					
Commercial Value		10		11.43		
Nitrogen, Total		2.0		2.24	%	Pass
Overall Index Value		100		114.33	%	Pass
		Phosphate, Available as P2O5	2	2.36	%	Pass
Manufacturer:	Simplot Grower Solutions-Bere					
Product:	AMS 21-0-0-24					
Sample No:	20N003818	21		20.60	%	Pass
Nitrogen, Total						
	Sulfur	24		24.38	%	Pass
Product:	AMS 21-0-0-24S					
Sample No:	20N010383	21		20.66	%	Pass
Nitrogen, Total						
	Sulfur	24		24.64	%	Pass
Product:	Boron 15					
Sample No:	20N010377	15		15.50	%	Pass
		Boron, Water Soluble				
Product:	custom formulation					
Sample No:	20N003820			125.00		
		Commercial Value (STPB)				
Nitrogen, Total		30.16		36.84	%	Pass
		Overall Index Value (STPB)		100.00	%	Pass

Phosphate, Available as P2O5 12.42 6.65 % **Deficient**

Potash, Soluble (STPB) 9.76 0.69 % **Deficient**

Product: **MAP 11-52-0**

Sample No: 20N003819

Commercial Value
Nitrogen, Total

137 140.15 11 11.33 % **Pass**

Overall Index Value 100 102.30 % **Pass**

Phosphate, Available as P2O5 52 53.08 % **Pass**

Sample No: 20N010385

Commercial Value 137 140.14

Nitrogen, Total 11 11.10 % **Pass**

Overall Index Value 100 102.29 % **Pass**

Phosphate, Available as P2O5 52 53.42 % **Pass**

Product:	Pell Lime					
Sample No:	20N003821	36	35.40	%	Pass	
	Calcium					
Product:	Pel-Lime 98G					
Sample No:	20N010386	85	92.69	%	Pass	
	Calcium					
Product:	Potash 0-0-60					
Sample No:	20N003823	60	59.39	%	Pass	
	Potash, Soluble					
Sample No:	20N010384	60	59.72	%	Pass	
	Potash, Soluble					
Product:	urea 46-0-0					
Sample No:	20N003822	46	45.61	%	Pass	
	Nitrogen, Total					
Sample No:	20N010387	46	45.55	%	Pass	
	Nitrogen, Total					
Product:	Zinc 35.5%					
Sample No:	20N010388	17.5	17.53	%	Pass	
	Sulfur					
	Zinc, Acid Soluble	35.5	31.29	%	Deficient	
Manufacturer:	Sinai Coop Elevator					
Product:	Customer Blend Fertilizer - Batch #1					
Sample No:	20N003386	117.83	123.26			
	Commercial Value (STPB)					
	Nitrogen, Total	22.61	25.47	%	Pass	
	Overall Index Value (STPB)		104.61	%	Pass	
	Phosphate, Available as P2O5	17.38	16.08	%	Deficient	
	Potash, Soluble (STPB)	15.24	14.68	%	Pass	
Product:	Customer Blend Fertilizer - Batch #2					
Sample No:	20N003572	117.59	125.00			
	Commercial Value (STPB)					
	Nitrogen, Total	22.61	26.02	%	Pass	

	Overall Index Value (STPB)		106.10	%	Pass
	Phosphate, Available as P2O5	17.38	16.76	%	Pass
	Potash, Soluble (STPB)	15	13.42	%	Deficient
Manufacturer:	Southeast Farmer's Coop-Burb				
Product:	AMS (21-0-0-24)				
Sample No:	20N011740	21	22.07	%	Pass
	Nitrogen, Total				
	Sulfur	24	23.96	%	Pass
Product:	MAP (11-52-0)				
Sample No:	20N011738	137	140.78		
Commercial Value	Nitrogen, Total	11	12.11	%	Pass
Overall Index Value		100	102.76	%	Pass
	Phosphate, Available as P2O5	52	52.22	%	Pass
Product:	Potash(0-0-60)				
Sample No:	20N011737	60	58.68	%	Pass
Potash, Soluble	Urea (46-0-0)				
Sample No:	20N011739	46	46.25	%	Pass
	Nitrogen, Total				
Manufacturer:	Tabor lumber Co.				
Product:	Custom blend				
Sample No:	20N004174	137.5	139.59		
Commercial Value	Nitrogen, Total	33.3	33.01	%	Pass
Overall Index Value		100	101.52	%	Pass
	Phosphate, Available as P2O5	18.8	20.28	%	Pass
Product:	MAP (11-52-0)				
Sample No:	20N004176	137	130.63		
Commercial Value	Nitrogen, Total	11	19.37	%	Pass

Overall Index Value		100	95.35	%	Deficient
	Phosphate, Available as P2O5	52	36.26	%	Deficient
Product:	Potash (0-0-60)				
Sample No:	20N004178	60	58.57	%	Pass
Potash, Soluble					
Product:	Urea (46-0-0)				
Sample No:	20N004173	46	46.22	%	Pass
	Nitrogen, Total				
Manufacturer:	The Espoma Company				
Product:	Berry-tone Fruit & Berry Food				
Sample No:	20N009537	22	24.93		
Commercial Value					
	Nitrogen, Total	4.0	4.02	%	Pass
Overall Index Value		100		%	Pass
	Phosphate, Available as P2O5	3.0	113.30		
			4.01	%	Pass
Potash, Soluble		4.0	4.85	%	Pass
Product:	Espoma Organic Chicken Manure				
Sample No:	20N004507	2.0	7.08	%	Pass
	Calcium				
Commercial Value		16	26.00		
	Nitrogen, Total	3.0	4.77	%	Pass
Overall Index Value		100		%	Pass
	Phosphate, Available as P2O5	2.0	162.00		
			2.89	%	Pass
Potash, Soluble		3.0	5.76	%	Pass
Product:	Espoma Organic Chicken Manure A				
Sample No:	20N008751	2	8.60	%	Pass
	Calcium				
Commercial Value		16	25.57		
	Nitrogen, Total	3	4.60	%	Pass
Overall Index Value		100		%	Pass
	Phosphate, Available as P2O5	2	159.79		
			3.01	%	Pass
Potash, Soluble		3	5.74	%	Pass

Product:	Espoma Organic Plant-tone All Purp				
Sample No:	20N008215	5	4.81	%	Pass
	Calcium				
Commercial Value		24	26.87		
	Magnesium, Water Soluble	1	1.62	%	Pass
	Nitrogen, Total	5	4.59	%	Pass
Overall Index Value		100		%	Pass
	Phosphate, Available as P2O5	3	111.94		
			3.83	%	Pass
Potash, Soluble		3	5.42	%	Pass
	Sulfur	1	2.40	%	Pass

Product: **Espoma Organic Rose tone**
Sample No: 20N008771

Calcium 3.0 3.17

Analyte	Claim	Found	Unit	Disposition
Commercial Value	20	26.54		
Magnesium, Water Soluble	0.5	0.60	%	Pass
Nitrogen, Total	4.0	4.88	%	Pass
Overall Index Value	100		%	Pass
		132.71		
Phosphate, Available as P2O5	3.0	4.11	%	Pass
Potash, Soluble	2.0	3.69	%	Pass
Manufacturer: The Hawthorne Gardening Co. Product: Whitney Farms Organic Bone Meal				
Sample No: 20N008214	7	7.52	%	Pass
Calcium				
Commercial Value	34	41.60		
Nitrogen, Total	6	8.33	%	Pass
Overall Index Value	100		%	Pass
		122.37		
Phosphate, Available as P2O5	8	8.31	%	Pass
Manufacturer: The Scotts Company Product: Osmocote Flower & Vegetable				
Sample No: 20N008222	84	89.98		
Commercial Value				
Nitrogen, Total	14	13.69	%	Pass
Overall Index Value	100		%	Pass
		107.12		
Phosphate, Available as P2O5	14	13.63	%	Pass
Potash, Soluble	14	21.67	%	Pass
Sample No: 20N009429	84	87.13		
Commercial Value				
Nitrogen, Total	14	14.83	%	Pass
Overall Index Value	100		%	Pass
		103.73		
Phosphate, Available as P2O5	14	14.49	%	Pass
Potash, Soluble	14	13.66	%	Pass
Product: Osmocote- Outdoor & Indoor				
Sample No: 20N009430				
Boron, Water Soluble	0.02	0.02	%	Pass

Commercial Value	75	79.35		
Copper	0.05	0.06 %	Pass	
Iron	0.46	0.41 %	Pass	
Magnesium, Water Soluble	1.3	1.30 %		
Manganese, Water Soluble	0.06	0.09		
Analyte	Claim	Found	Unit	Disposition
Nitrogen, Total	15	16.73 %		Pass
Overall Index Value	100	105.80 %		Pass
Phosphate, Available as P2O5	9	8.63 %		Pass
Potash, Soluble	12	11.89 %		Pass
Sulfur	6.0	6.95 %		Pass
Zinc, Water Soluble	0.05	0.07 %		Pass

Product: Osmocote Plus

Sample No: 20N000395

Commercial Value	75	80.88		
Nitrogen, Total	15	16.65 %	Pass	
Overall Index Value	100	107.84 %	Pass	
Phosphate, Available as P2O5	9	9.61 %	Pass	
Potash, Soluble	12	11.72 %	Pass	

Product: Osmocote Smart Release

Plant Foo

Sample No: 20N009525

Commercial Value	84	89.50		
Nitrogen, Total	14	15.65 %	Pass	
Overall Index Value	100	106.54 %	Pass	
Phosphate, Available as P2O5	14	14.46 %	Pass	
Potash, Soluble	14	13.62 %	Pass	

Product: Scotts Rose & Bloom

Sample No: 20N008224

Commercial Value	52	60.04		
Nitrogen, Total	12	13.30 %	Pass	
Overall Index Value	100	115.47 %	Pass	
Phosphate, Available as P2O5	4	5.52 %	Pass	

Potash, Soluble	8	9.12 %	Pass
Sulfur	2.2	3.03 %	Pass

Manufacturer: Ultra Yield
Micronutrients
Product: ultra yield 0-0-0-17.5-35z
Sample No: 20N010843

Sulfur	17.5	15.60 %	Deficient
Zinc, Acid Soluble	35	30.64 %	Deficient

Product: Ultra Yield Zinc Granular with Sulfur

Sample No: 20N011456

Sulfur	17.5	16.94
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Analyte	Claim	Found	Unit	Disposition
Zinc, Acid Soluble	35.5	35.90	%	Pass
Product: Zinc				
Sample No: 20N004585	17.5	17.71	%	Pass
Sulfur				
Zinc, Acid Soluble	35.5	38.18	%	Pass
Manufacturer: Upfront Agron omy				
Product: DAP 18-46-0				
Sample No: 21N000022	146	148.67		
Commercial Value				
Nitrogen, Total	18	18.40	%	Pass
Overall Index Value	100	101.83	%	Pass
Phosphate, Available as P2O5	46	46.74	%	Pass
Product: MAP 11-52-0				
Sample No: 21N000024	137	136.52		
Commercial Value				
Nitrogen, Total	11	10.99	%	Pass
Overall Index Value	100	99.65	%	Pass
Phosphate, Available as P2O5	52	51.78	%	Pass
Product: Pel Lime				

Sample No:	21N000102	36	36.38	%	Pass
	Calcium				
	Moisture	1	0.24	%	Pass
Product:	Potash 0-0-60				
Sample No:	21N000023	60	59.66	%	Pass
	Potash, Soluble				
Product:	Urea 46-0-0				
Sample No:	21N000021	46	45.36	%	Pass
	Nitrogen, Total				
Manufacturer:	Valley Ag Supply				
Product:	AMS (21-0-0-24)				
Sample No:	20N011744	21	22.40	%	Pass
	Nitrogen, Total				
	Sulfur	24	24.48	%	Pass
Product:	Calcium(17.8%) Sulfur(15.1%)				
Sample No:	20N011743				

Calcium

17.8

22.31

Analyte	Claim	Found	Unit	Disposition
Sulfur	15.1	18.42	%	Pass
Product: MAP (11-52-0)				
Sample No: 20N011742	137	143.18		
Commercial Value				
Nitrogen, Total	11	12.53	%	Pass
Overall Index Value	100		%	Pass
Phosphate, Available as P2O5	52	104.51		
		52.79	%	Pass
Product: Potash (0-0-60)				
Sample No: 20N011741	60	58.68	%	Pass
Potash, Soluble				
Manufacturer: Valley Ag Supply-Gayville				
Product: AMS (21-0-0-24)				
Sample No: 20N011752	21	21.02	%	Pass
Nitrogen, Total				
Sulfur	24	24.68	%	Pass
Product: Customer Blend				
Sample No: 20N011749	86.81	85.87		
Commercial Value				
Nitrogen, Total	7.91	7.69	%	Pass
Overall Index Value	100	98.92	%	Pass
Phosphate, Available as P2O5	17.89	17.18	%	Pass
Potash, Soluble	27.3	28.44	%	Pass
Sulfur	4.82	5.53	%	Pass
Product: MAP (11-52-0)				
Sample No: 20N011750	137	136.64		
Commercial Value				
Nitrogen, Total	11	10.63	%	Pass
Overall Index Value	100	99.73	%	Pass
Phosphate, Available as P2O5	52	52.37	%	Pass
Product: Potash (0-0-60)				

Sample No:	20N011751	60	59.41	%	Pass
Potash, Soluble					
Product:	Sulfur (90%)				
Sample No:	20N011763	90	90.03	%	Pass
Sulfur					
Product:	Urea (46-0-0)				
	Analyte	Claim	Found	Unit	Disposition
Sample No:	20N011753	46	47.02	%	Pass
Nitrogen, Total					
Manufacturer:	Valley Ag-Spin	k/Elk Point			
Product:	28-0-0				
Sample No:	20N004208	28	29.02	%	Pass
Nitrogen, Total					
Product:	AMS 11-0-0-24				
Sample No:	20N004205	11	21.55	%	Pass
Nitrogen, Total					
	Sulfur	24	23.78	%	Pass
Product:	Custom #47825				
Sample No:	20N004200	114	113.00		
Commercial Value					
	Nitrogen, Total	25.23	25.97	%	Pass
Overall Index Value					
	Phosphate, Available as P2O5	100	99.00	%	Pass
Potash, Soluble					
	Phosphate, Available as P2O5	14.72	12.67	%	Deficient
Potash, Soluble					
	Sulfur	8.41	9.21	%	Pass
Sulfur					
Product:	custom formula #47845				
Sample No:	20N004215	121	123.60		
Commercial Value					
	Nitrogen, Total	26.61	26.74	%	Pass
Overall Index Value					
	Phosphate, Available as P2O5	100	102.00	%	Pass
Potash, Soluble					
	Phosphate, Available as P2O5	18.77	19.51	%	Pass
Potash, Soluble					
	Sulfur	3.72	4.35	%	Pass
Sulfur					
	Sulfur	3.744	4.28	%	Pass

Product:	gypsum				
Sample No:	20N004219	21	17.82	%	Deficient
	Calcium				
	Sulfur	16	15.08	%	Pass
Product:	MAP 11-52-0				
Sample No:	20N004207				
	Commercial Value	137	144.00		
	Nitrogen, Total	11	11.76	%	Pass
	Overall Index Value	100	105.00	%	Pass
	Phosphate, Available as P2O5	52	54.54		
	Analyte	Claim	Found Unit		Disposition
Product:	Potash 0-0-60				
Sample No:	20N004217	60	59.10	%	Pass
	Potash, Soluble				
Product:	urea 46-0-0				
Sample No:	20N004218	46	47.47	%	Pass
	Nitrogen, Total				
Product:	Zinc 62%				
Sample No:	20N004203	62	70.44	%	Pass
	Zinc, Acid Soluble				
Manufacturer:	Valley Central Cooperative				
Product:	AMS 21-0-0-24				
Sample No:	20N010841	21	21.96	%	Pass
	Nitrogen, Total				
	Sulfur	24	24.37	%	Pass
Product:	AMS- 21-0-0-24				
Sample No:	20N013145	21	21.32	%	Pass
	Nitrogen, Total				
	Sulfur	24	24.66	%	Pass
Product:	MAP 11-52-0				
Sample No:	20N010840	137	142.64		
	Commercial Value				
	Nitrogen, Total	11	11.70	%	Pass

		Overall Index Value	100		%	Pass
				104.12		
		Phosphate, Available as P2O5	52	53.77	%	Pass
Sample No:	20N013146		137			
		Commercial Value		138.26		
		Nitrogen, Total	11	11.47	%	Pass
		Overall Index Value	100		%	Pass
				100.92		
		Phosphate, Available as P2O5	52	51.92	%	Pass
Product:	Potash 0-0-60					
Sample No:	20N010839		60	59.48	%	Pass
		Potash, Soluble				
Sample No:	20N013144		60	64.92	%	Pass
		Potash, Soluble				
Product:	Urea 46-0-0					
Sample No:	20N010838					
		Analyte	Claim	Found	Unit	Disposition
Nitrogen, Total			46	46.08	%	Pass
Manufacturer:	Valley Spring Farmers Coop					
Product:	AMS 21-0-0-24					
Sample No:	20N004192		21	20.96	%	Pass
Nitrogen, Total						
		Sulfur	24	24.35	%	Pass
Product:	Boron 18.5%					
Sample No:	20N004212		18.5	18.98	%	Pass
Boron, Acid Soluble						
Product:	Custom #53488					
Sample No:	20N004194		116			
		Commercial Value		115.00		
Nitrogen, Total			8.02	8.05	%	Pass
Overall Index Value			100	99.00	%	Pass
		Phosphate, Available as P2O5	37.92	36.74	%	Deficient
Potash, Soluble			16.25	17.01	%	Pass
Product:	Custom #54002					

Sample No: 20N004191

120.43

117.86

Commercial Value

Nitrogen, Total	31.28	28.67	%	Deficient
Overall Index Value	100	97.86	%	Deficient
Phosphate, Available as P2O5	8.69	10.93	%	Pass
Potash, Soluble	9.21	9.98	%	Pass
Sulfur	1.739	3.72	%	Pass

Product: Custom #54054

Sample No: 20N004190

126.75

128.32

Commercial Value

Nitrogen, Total	42.25	42.77	%	Pass
Overall Index Value	100	101.24	%	Pass
Sulfur	3.6	5.36	%	Pass

Product: MAP 11-52-0

Sample No: 20N004198

Commercial Value	137	138.00		
Nitrogen, Total	11	10.91	%	Pass
Overall Index Value	100	101.00	%	Pass
Phosphate, Available as P2O5	52	52.67		

Product:	Analyte	Claim	Found	Unit	Disposition
Product: Pel Lime 98G					
Sample No:	20N004196	36	35.00	%	Pass
	Calcium				
Product: Potash 0-0-60					
Sample No:	20N004197	60	58.75	%	Pass
	Potash, Soluble				
Product: Sulfur 85%					
Sample No:	20N004193	85	85.21	%	Pass
	Sulfur				
Product: Urea 46-0-0					
Sample No:	20N004195	46	46.87	%	Pass
	Nitrogen, Total				
Product: Zinc 62%					
Sample No:	20N004213	62	62.38	%	Pass
	Zinc, Acid Soluble				
Manufacturer: Verdesian Life Sciences Product: MicroSync Pro 0-0-0-9.5-7.5z-5ca-5					
Sample No:	20N010829	1.25	1.09	%	Pass
Boron, Acid Soluble					
	Calcium	5	5.99	%	Pass
	Manganese, Acid Soluble	5	4.77	%	Pass
	Sulfur	9.5	9.95	%	Pass
Zinc, Acid Soluble					
		7.5	7.65	%	Pass
Manufacturer: Vogel Seed and Fertilizer					
Product: 12-16-8					
Sample No:	20N012060	76	78.38		
Commercial Value					
	Iron	0.05	0.78	%	Pass
	Nitrogen, Total	12	12.08	%	Pass
Overall Index Value					
		100	103.14	%	Pass
	Phosphate, Available as P2O5	16	17.30	%	Pass
Potash, Soluble					
		8	7.54	%	Pass

	Sulfur	4.28	5.25	%	Pass
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Product: **17-2-8**

Sample No: 20N011987

Analyte	Claim	Found	Unit	Disposition
Boron, Acid Soluble	0.10	0.13		
Calcium	1.16	1.18	%	Pass
Commercial Value	63	69.42		
Copper	0.25	0.27	%	Pass
Iron	1.22	1.32	%	Pass
Manganese, Acid Soluble	0.25	0.38	%	Pass
Molybdenum	0.0025	0.00	%	Pass
Nitrogen, Total	17	18.67	%	Pass
Overall Index Value			%	Pass
Phosphate, Available as P2O5	2	1.90	%	Pass
Potash, Soluble	8	9.61	%	Pass
Sulfur	3.23	4.59	%	Pass
Zinc, Acid Soluble	0.25	0.36	%	Pass

Product: **19-3-6**

Sample No: 20N011988

Calcium	1.10	2.71	%	Pass
Commercial Value (STPB)		69.68		
Iron	0.69	0.71	%	Pass
Nitrogen, Total	19	19.97	%	Pass
Overall Index Value (STPB)			%	Pass
Phosphate, Available as P2O5	3	2.97	%	Pass
Potash, Soluble (STPB)	6	3.84	%	Deficient
Sulfur	3.74	3.46	%	Pass

Product: **24-3-8**

Sample No:	20N011989	86	91.69		
	Commercial Value (STPB)				
	Iron	2	2.00	%	Pass
	Nitrogen, Total	24	26.75	%	Pass
	Overall Index Value (STPB)		106.62	%	Pass
	Phosphate, Available as P2O5	3	2.35	%	Pass
	Potash, Soluble (STPB)	8	6.75	%	Deficient
	Sulfur	4.67	4.45	%	Pass

Manufacturer: Volga Ag Center
 Product: **Customer Blend Fertilizer**

Sample No: 20N004432

Commercial Value	101	107.30
Nitrogen, Total	23	22.54

Analyte	Claim	Found	Unit	Disposition
Overall Index Value	100	106.00	%	Pass
Phosphate, Available as P2O5	8	10.18	%	Pass
Potash, Soluble	16	19.34	%	Pass
Sulfur	3	3.76	%	Pass
Sample No:	20N004433	101		
Commercial Value		102.00		
Nitrogen, Total	23	22.34	%	Pass
Overall Index Value	100	101.00	%	Pass
Phosphate, Available as P2O5	8	9.46	%	Pass
Potash, Soluble	16	16.38	%	Pass

	Sulfur	3	2.72	%	Pass
Sample No:	20N004440	108			
	Commercial Value		115.00		
	Nitrogen, Total	19	20.93	%	Pass
	Overall Index Value	100		%	Pass
			107.00		
	Phosphate, Available as P2O5	19	19.38	%	Pass
	Potash, Soluble	13	13.85	%	Pass
	Sulfur	2	2.64	%	Pass
Sample No:	20N004441				
	Commercial Value (STPB)		135.00		
	Nitrogen, Total	19	25.57	%	Pass
	Overall Index Value (STPB)			%	Pass
			125.00		
	Phosphate, Available as P2O5	19	25.22	%	Pass
	Potash, Soluble (STPB)	13	7.34	%	Deficient
	Sulfur	2	1.53	%	Deficient
Manufacturer:	VPG				
Product:	All Purpose Fertilizer				
Sample No:	20N003576	39	38.56		
	Commercial Value				
	Nitrogen, Total	6	6.24	%	Pass
	Overall Index Value	100	98.88	%	Pass
	Phosphate, Available as P2O5	7	6.47	%	Pass
	Potash, Soluble	7	6.89	%	Pass
Manufacturer:	Wheaton Dumont				
Product:	0-0-60 POTASH				
Sample No:	20N000279				

	Analyte	Claim	Found	Unit	Disposition
Product: 11-52-0 MAP	Potash, Soluble	60	59.67	%	Pass
Sample No: 20N000278					
	Commercial Value	137	136.32		
	Nitrogen, Total	11	11.03	%	Pass
	Overall Index Value	100	99.50	%	Pass
	Phosphate, Available as P2O5	52	51.61	%	Pass
Product: 18-46-0 DAP					
Sample No: 20N000277					
	Commercial Value	146	148.31		
	Nitrogen, Total	18	17.83	%	Pass
	Overall Index Value	100		%	Pass
	Phosphate, Available as P2O5	46	101.58	%	
			47.41	%	Pass
Product: 21-0-0-24					
Sample No: 20N000280					
	Nitrogen, Total	21	20.35	%	Pass
	Sulfur	24	24.10	%	Pass
Product: 46-0-0 UREA					
Sample No: 20N000276					
	Nitrogen, Total	46	45.82	%	Pass
Manufacturer: Wilbur Ellis Product: AMS 21-0-0-24S					
Sample No: 20N009514					
Nitrogen, Total		21	21.18	%	Pass
	Sulfur	24	24.10	%	Pass
Product: MAP 11-52-0-0					
Sample No: 20N009517					
Commercial Value		137	139.75		
Nitrogen, Total		11	11.72	%	Pass
Overall Index Value		100		%	Pass
	Phosphate, Available as P2O5	52	102.01	%	
			52.29	%	Pass
Product: Pot Ash 0-0-60					
Sample No: 20N009515					
	Potash, Soluble (STPB)	60	56.96	%	Deficient

Manufacturer: Wilbur Ellis- Tulare						
Product: 0-0-60						
	Analyte	Claim	Found	Unit	Disposition	
Sample No:	20N011476					
	Potash, Soluble	60	59.23	%	Pass	
Product: 11-52-0						
Sample No:	20N011477					
	Commercial Value	137	139.40			
	Nitrogen, Total	11	11.41	%	Pass	
	Overall Index Value	100		%	Pass	
	Phosphate, Available as P2O5	52	101.75			
			52.58	%	Pass	
Product: 21-0-0-24						
Sample No:	20N011478					
	Nitrogen, Total	21	21.61	%	Pass	
	Sulfur	24	24.89	%	Pass	
Product: 46-0-0						
Sample No:	20N011479					
	Nitrogen, Total	46	46.44	%	Pass	
Manufacturer: Wilbur Ellis-Salem						
Product: Map 11-52-0						
Sample No:	20N010832					
	Commercial Value	137	139.56			
	Nitrogen, Total	11	11.43	%	Pass	
	Overall Index Value	100		%	Pass	
	Phosphate, Available as P2O5	52	101.87			
			52.63	%	Pass	
Product: Potash 0-0-60						
Sample No:	20N010831					
	Potash, Soluble	60	59.38	%	Pass	
Product: urea 46-0-0						
Sample No:	20N010830					
	Nitrogen, Total	46	45.75	%	Pass	
Manufacturer: Winfield Solutions- St. Paul						
Product: Boron 15%						

Sample No:	20N004060				
Boron, Acid Soluble		15		15.04 %	Pass
Product:	GROUNDWORK ALL-PURPOSE FE				

Sample No:	20N003807				
		Commercial Value (STPB)		72.90	
		Nitrogen, Total	12	12.35 %	Pass
		Analyte	Claim	Found	Unit
		Overall Index Value (STPB)		101.00	%
		Phosphate, Available as P2O5	12	12.51	%
		Potash, Soluble (STPB)	12	10.75	%
Product:	GROUNDWORK LAWN FOOD 24-0				

Sample No:	20N003715				
		Commercial Value (STPB)	76	67.69	
		Iron	2	2.31	%
Nitrogen, Total			24	21.27	%
		Overall Index Value (STPB)		89.06	%
		Potash, Soluble (STPB)	4	3.89	%
Product:	GROUNDWORK STARTER FERTIL				

Sample No:	20N003700				
		Commercial Value	108	105.78	
		Nitrogen, Total	18.0	18.40	%
		Overall Index Value		97.94	%
		Phosphate, Available as P2O5	24	22.36	%
		Potash, Soluble	6.0	5.85	%
Product:	Potash				

Sample No:	20N004051				
		Potash, Soluble	60	59.06	%
Product:	Winfield Copper 0-0-0-6-5zn				

Sample No:	20N010825				
		Sulfur	6	7.57	%
Zinc, Acid Soluble			5	0.15	%
Manufacturer:	Zinc Nacional, SA Product: Zinc Sulfate Maximo				

Sample No:

21N000025

Sulfur

17.5

18.17 %

Pass

Zinc, Acid Soluble

35.5

35.00 %

Tonnage Summary Report Report Year 2020

Grade	Total
07-38-00	0.01
10-8-6	0.01
00-0-12	0.02
3-1-1	0.02
4-2-0	0.02
10-08-10	0.03
11-11-11	0.03
2-4-.5	0.06
1-4-3	0.08
00-00-60	0.10
18-24-6	0.11
3-1-3	0.11
00-7-00	0.12
08-00-00	0.13
1-4-.5	0.15
02-10-00	0.20
7-23-1	0.20
8-12-4	0.20
0-45-0	0.24
2-4-0	0.27
30-0-4	0.36
13-3-40	0.38
00-00-00	0.40
5-20-9	0.47
21-22-4	0.50
4-13-17	0.51
4-10-3	0.53
1-20-10	0.55
02-15-19	0.59
27-0-2	0.61
2-0-1	0.62
20-20-20	0.64
00-00-07	0.80
35-0-10	0.80
04-00-00	0.90

0-0-1	1.00
0-29-5	1.00
09-22-16	1.00
10-18-20	1.00
12-12-12-4-3	1.00
14-00-44	1.00
15-0-4	1.00
15-0-6	1.00
19-0-0	1.00
21-0-8	1.00
3-0-34	1.00
34-00-00	1.00
5-0-2	1.00
5-15-7	1.00
28-03-10	1.00
00-00-00	1.05
12-0-10	1.08
01-00-00	1.32
6-4-3	1.34
4-0-0	1.38
20-0-0	1.44
00-00-52	1.50
08-10-12	1.54
0-0-25	1.68
02-00-06	2.00
10-22-22	2.00
10-5-3-6	2.00
35-0-6	2.00
12-10-10	2.05
28-5-5	2.05
33-00-05	2.10
7-17-0	2.41
1-0-1	2.49
21-00-06	2.65
07-12-01	2.90
20-3-5	3.00
9-00-00	3.00
00-00-00-10	3.08
1-0-3	3.11
16-00-00	3.14
0.1-0-0.5	3.20

15-00-00	3.20
16-0-8	3.24
22-0-11	3.28
00-1-.5	3.89
30-10-10	4.00
20-12-8	4.10
18	4.12
24-0-8	4.16
0.19-0.09-0.09	4.44
03-00-00-5.25	4.50
09-15-06	4.95
13-0-6	5.00
14-00-08	5.00
18-46-0	5.00
21-0-4	5.00
28-0-10	5.00
29-0-3	5.00
3-0-0	5.00
6-24-24	5.00
00-00-00	5.05
25-00-00-64	5.05
2-1-0	5.66
.4-0-0	5.73
0.05-0.03-0.06	5.94
10-18-6	6.00
11-0-024	6.00
12-22-10	6.00
17-0-0	6.00
17-02-08	6.00
20-0-8	6.00
30-00-10	6.03
00-00-20	6.14
2-5-0	6.26
15-0-5	6.68
12-0-0	6.84
00-60-00	7.00
00-00-00-3.3	7.88
14-0-0	8.00
15-23-10	8.00
19-19-19	8.00
6-18-5	8.92
18-3-2	9.00

26-0-0	9.00
19-0-06	9.00
3-10-3	9.28
11-28-18	9.60
9-23-30	9.90
24-03-08	9.98
18-24-12	10.00
22-0-6	10.00
34-00-00	10.00
12-28-12	10.10
722	10.11
03-03-00	10.40
03-03-09	10.84
36-0-6	10.90
10-34-00	11.44
0-0-14	11.50
12-44-10	11.50
4-3-0	11.60
40-0-0	12.03
24-00-04	13.45
0-60-20	13.50
21-0-0	14.00
17-0-0-0-8	14.00
7-0-1	14.40
10-00-00	14.50
20-7-10	15.00
3-0-1	15.00
26-00-00	15.23
38-0-0	15.33
15-0-0	15.50
22-0-0	16.00
08-24-04	16.57
9-18-9	16.86
25-0-6	18.00
18-0-6	18.10
46-0-0	19.20
1-0-0	20.00
15-9-12	20.00
30-4-8	20.00
30-00-03	20.00
18-0-3	21.00
21-0-5	21.00

12-24-6	21.10
8-24-0	21.50
8-24-4	21.50
27-0-0-1	22.00
32-0-4	22.10
27-0-8	22.20
12-16-08	22.28
10-4-3	22.54
32-7-7	23.00
34-0-6	23.20
07-00-00	23.30
7-20-3	24.00
7-22-5-2	24.11
8-26-3	24.74
19-03-06	24.89
16-16-16	24.90
30-7-10	25.00
00-00-25-17	25.04
00-00-00-25-17	25.04
28-0-0-8	25.25
02-20-15	25.80
00-00-22	27.20
8-0-0	28.47
22-0-5	29.00
12-12-12	30.10
15-25-10	30.15
3-18-18	30.18
22-0-10	30.40
00-00-2	31.28
13-0-5	31.30
09-20-05-01-.25	32.78
6-18-6	33.70
7-17-3	35.50
2-00-00	37.58
24-0-3	39.00
6-24-06	40.56
16-00-04	44.00
17-00-00	46.35
5-10-27	49.00
15-00-05	49.23
12-0-0-26	54.00
20-14-12	58.83

19-00-06	59.54
8-20-5	59.97
11-0-0	60.08
33-0-5	65.00
03-18-18	65.48
32-5-7	66.00
3-1-10	67.00
00-00-25	79.09
11-0-0-24	80.00
12-61-0	81.90
26-0-4	82.40
08-19-03	84.26
28-0-3	86.50
3-4-5-2	87.00
22-0-4	87.40
1240-0-6	87.42
30-0-10	89.00
25-0-8	93.18
30-0-3	97.10
21-00-00	97.16
5-5-0	102.78
17-00-05	105.00
30-00-00	105.88
26-0-3	108.40
06-24-06	110.36
7-29-5	111.00
9-20-5	115.70
6-22-2	117.90
3-0-4	123.00
09-18-09	131.50
18-0-4	132.10
19-0-2	133.00
00-54-00	138.54
11-52-0	144.59
13-13-13	146.00
10-10-10	155.13
06-16-11	160.51
21-0-0-24	170.67
19-0-6	171.10
6-24-9	177.00
25-00-05	180.00
24-0-4	181.50

00-00-00	187.98
2-0-10	190.00
12-40-0-10-1	191.00
12-40-00-10-01	191.00
12-3-3	192.00
02-02-00	220.22
09-00-00	220.98
02-02-01	221.82
7-0-0-8	222.00
46-00-00	225.00
25-0-5	230.90
00-00-64	246.00
24-5-10	253.10
28-3-10	260.03
38-00-00	263.00
10-28-0-4.5	278.00
06-02-01	289.98
12-39-0-6	297.18
7-0-0	325.00
00-03-00	333.15
25-0-15	338.29
26-00-00	351.44
24-0-0	420.00
06-00-00	440.36
28-0-0-5	482.00
10-34-0	492.78
00-54-00	548.03
32-0-0	552.00
6-24-6	605.85
10-34-0	622.32
15-60-00	760.37
2-1-6	813.00
00-00-60	872.07
11-0-0-24	913.03
20-00-00	1,046.34
12-40-0-6	1,179.78
20-00-00	1,287.84
28-0-0	1,357.00
16-20-00	1,451.00
11-48-00	1,469.54
28-00-00	1,637.00
00-00-62	1,788.79

10-34-00	1,803.79
15-00-00	1,910.30
00-00-50	1,966.84
21-0-0-24	2,783.90
24-0-0-4	2,847.00
20-00-00	2,969.55
21-00-00	3,144.39
12-40-0	3,410.41
12-00-00	3,638.52
11-52-0	6,722.49
00-68-00	7,690.43
9-24-3	7,824.80
15-00-16	8,955.68
27-0-0	9,419.00
12-00-00	16,769.41
82-00-00	17,969.29
18-46-00	33,197.40
10-34-00	35,942.87
12-51-00	48,349.56
00-00-00	179,678.05
21-00-00	161,703.16
32-00-00	164,398.39
28-00-00	211,477.18
00-00-60	226,096.13
11-52-00	275,558.47
46-00-00	561,852.54
.Manure	30,537.17

Total tons:
2,059,664.29

