

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

DAIRY FACILITY INFORMATION**A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:** Barreto & Silveira Dairy

Physical address of dairy:

11305 2nd Ave
Number and StreetHanford
CityKings
County93230
Zip Code

Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 01/01/1921Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0016-0100-0064-0000 0016-0100-0065-0000**B. OPERATORS**

Silveira, Anthony

Operator name: Silveira, AnthonyTelephone no.: (559) 308-0873Landline Cellular11409 2nd AVEHanford
CityCA
State93230
Zip Code

Mailing Address Number and Street

This operator is responsible for paying permit fees.**C. OWNERS**

Silveira, Anthony

Legal owner name: Silveira, AnthonyTelephone no.: (559) 308-0873Landline Cellular11409 2nd AVEHanford
CityCA
State93230
Zip Code

Mailing Address Number and Street

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	0	0	0	0
Number under roof	0	0	0	0	0	0
Maximum number	0	0	0	0	0	0
Average number	0	0	0	0	0	0
Avg live weight (lbs)	0	0	0	0		

Predominant milk cow breed: Holstein

Average milk production: 1 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 1.00 tons per reporting period

Total nitrogen from manure: 1.00 lbs per reporting period

After ammonia losses (30% loss applied): 0.70 lbs per reporting period

Total phosphorus from manure: 1.00 lbs per reporting period

Total potassium from manure: 1.00 lbs per reporting period

Total salt from manure: 0.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: gallons

Total nitrogen generated: lbs

Total phosphorus generated: lbs

Total potassium generated: lbs

Total salt generated: lbs

	<u>0 gallons applied</u>
+	<u>0 gallons exported</u>
-	<u>0 gallons imported</u>
=	<u>0 gallons generated</u>

D. FRESH WATER SOURCES

Source Description	Type
Barn	Ground water
Canal	Surface water
Houses	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	38	38	2	manure	X016-X100-X010-XXXX
10	77	77	0	none	X016-X110-X003-XXXX
11	73	73	0	none	X028-X060-X002-XXXX
12	75	75	0	none	X028-X180-X005-XXXX
14	160	160	1	manure	X016-X090-X007-XXXX
18&19	104	104	2	none	X016-X090-X005-XXXX
2	37	37	2	manure	X016-X100-X065-XXXX
3	20	20	2	manure	X016-X100-X064-XXXX
					X016-X100-X065-XXXX
4&5	90	90	2	manure	X016-X100-X044-XXXX
					X016-X100-X045-XXXX
					X016-X100-X046-XXXX
					X016-X100-X058-XXXX
6	19	19	2	manure	X016-X100-X023-XXXX
7	23	23	2	manure	X016-X100-X026-XXXX
8	78	78	2	manure	X016-X100-X034-XXXX
9	77	77	2	manure	X016-X110-X002-XXXX
Totals for areas that were used for application	542	542	17		
Totals for areas that were not used for application	329	329	2		
Land application area totals	871	871	19		

B. CROPS AND HARVESTS

1

Field name: 1

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1

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage

Acres planted: 38 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	913.52 ton	Dry-weight		60.8	19,800.00	3,500.00	23,500.00		10.59

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	24.04	373.18	65.97	442.91	1,995.94

06/01/2023: Corn, silage

Crop: Corn, silage

Acres planted: 38 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	1,084.90 ton	Dry-weight		65.0	14,900.00	4,200.00	14,300.00		7.24

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.55	297.78	83.94	285.79	1,446.91

14

Field name: 14

06/01/2023: Corn, silage

Crop: Corn, silage

Acres planted: 160 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	4,568.00 ton	Dry-weight		65.9	22,400.00	3,900.00	15,800.00		5.31

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.55	436.15	75.94	307.64	1,033.92

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18&19

Field name: 18&19

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 104 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	2,500.16 ton	Dry-weight		64.8	20,100.00	3,300.00	24,300.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	24.04	340.18	55.85	411.26	1,709.34

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 104 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	2,934.20 ton	Dry-weight		70.2	21,400.00	3,400.00	18,500.00		7.22

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.21	359.85	57.17	311.08	1,214.06

2

Field name: 2

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 37 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	889.48 ton	Dry-weight		60.9	17,200.00	2,900.00	22,000.00		16.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	24.04	323.35	54.52	413.58	3,139.48

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2

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	1,056.35 ton	Dry-weight		66.0	21,500.00	3,500.00	16,100.00		5.13

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.55	417.40	67.95	312.57	995.94

3

Field name: 3

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 20 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	480.80 ton	Dry-weight		70.7	14,000.00	4,000.00	29,200.00		10.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	24.04	197.22	56.35	411.35	1,493.27

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 20 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	571.00 ton	Dry-weight		65.9	23,600.00	3,100.00	12,900.00		6.98

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.55	459.52	60.36	251.18	1,359.08

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4&5

Field name: 4&5

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 90 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	2,163.60 ton	Dry-weight		60.5	9,500.00	2,400.00	17,300.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	24.04	180.42	45.58	328.55	1,918.15

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 90 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	2,569.50 ton	Dry-weight		69.3	27,300.00	3,800.00	18,600.00		6.52

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.55	478.56	66.61	326.05	1,142.94

6

Field name: 6

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 19 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	456.76 ton	Dry-weight		60.9	8,800.00	1,800.00	20,000.00		10.26

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	24.04	165.43	33.84	375.99	1,928.81

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6

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 19 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	542.20 ton	Dry-weight		65.1	25,500.00	3,500.00	14,200.00		6.12

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.54	507.93	69.72	282.85	1,219.03

7

Field name: 7

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 23 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/05/2023	552.92 ton	Dry-weight		60.4	18,900.00	2,100.00	11,800.00		8.61

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	24.04	359.85	39.98	224.67	1,639.32

07/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 23 Plant date: 07/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	656.65 ton	Dry-weight		65.7	25,500.00	3,500.00	10,900.00		5.35

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.55	499.43	68.55	213.48	1,047.81

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8

Field name: 8

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 78 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,875.20 ton	Dry-weight		60.7	11,800.00	3,500.00	21,400.00		8.84

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	24.04	222.98	66.14	404.38	1,670.43

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	2,226.90 ton	Dry-weight		65.5	24,700.00	3,400.00	13,600.00		5.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.55	486.58	66.98	267.91	1,063.77

9

Field name: 9

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 77 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/05/2023	1,851.20 ton	Dry-weight		67.2	20,900.00	2,600.00	15,600.00		10.14

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	24.04	329.62	41.01	246.03	1,599.21

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9

07/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 07/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/03/2023	2,198.35 <i>ton</i>	Dry-weight		71.0	12,100.00	1,800.00	16,800.00		7.36

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.55	200.36	29.81	278.19	1,218.74

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NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 11/01/2022: Wheat, silage, boot stage

Field name: 1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/25/2022	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	294.74	152.63	550.00	15,758.05	500.00 <i>ton</i>
Application event totals		294.74	152.63	550.00	15,758.05	

02/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.65	4,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.65	

03/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.65	4,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.65	

1 - 06/01/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/25/2023	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	294.74	152.63	550.00	15,758.05	500.00 <i>ton</i>
Application event totals		294.74	152.63	550.00	15,758.05	

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1 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.65	4,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.65	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.65	4,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.65	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.65	4,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.65	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.65	4,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.65	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.65	4,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.65	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.65	4,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.65	

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1 - 06/01/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
09/02/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.65	4,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.65	

09/12/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.65	4,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.65	

14 - 06/01/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/25/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	210.00	108.75	391.88	11,227.61	1,500.00 <i>ton</i>
Application event totals		210.00	108.75	391.88	11,227.61	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.55	16,860,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.55	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.55	16,860,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.55	

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14 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.55	16,860,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.55	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.55	16,860,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.55	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.55	16,860,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.55	
08/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.55	16,860,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.55	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.55	16,860,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.55	
09/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.55	16,860,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.55	

18&19 - 11/01/2022: Wheat, silage, boot stage

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18&19 - 11/01/2022: Wheat, silage, boot stage

Field name: 18&19

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
12/28/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	4.87	5,060,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	4.87	
01/26/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	4.87	5,060,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	4.87	
02/26/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	4.87	5,060,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	4.87	
03/25/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	4.87	5,060,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	4.87	

18&19 - 06/01/2023: Corn, silage

Field name: 18&19

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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18&19 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.36	10,760,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.36	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.36	10,760,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.36	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.36	10,760,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.36	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.36	10,760,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.36	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.36	10,760,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.36	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.36	10,760,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.36	

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18&19 - 06/01/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/28/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.36	10,760,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.36	
09/08/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.36	10,760,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.36	
09/18/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.36	10,760,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.36	

2 - 11/01/2022: Wheat, silage, boot stage

Field name: 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following		
10/25/2022	Plow/disc		No precipitation	No precipitation		No precipitation		
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure			Corral solids	302.70	156.76	564.86	16,183.95	500.00 <i>ton</i>
Application event totals				302.70	156.76	564.86	16,183.95	
02/25/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation		
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water	0.00	0.00	0.00	10.93	4,040,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	10.93	

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2 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following							
03/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation							
					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
					Canal	Surface water	0.00	0.00	0.00	10.93	4,040,000.00 <i>gal</i>
					Application event totals		0.00	0.00	0.00	10.93	

2 - 06/01/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/25/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	302.70	156.76	564.86	16,183.95	500.00 <i>ton</i>
Application event totals		302.70	156.76	564.86	16,183.95	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.93	4,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.93	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.93	4,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.93	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.93	4,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.93	

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2 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.93	4,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.93	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.93	4,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.93	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.93	4,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.93	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.93	4,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.93	
09/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.93	4,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.93	

3 - 11/01/2022: Wheat, silage, boot stage

Field name: 3

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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3 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/25/2022	Plow/disc		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure		Corral solids	224.00	116.00	418.00	11,976.12	200.00 <i>ton</i>
Application event totals			224.00	116.00	418.00	11,976.12	
02/28/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	7.71	1,540,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	7.71	
03/26/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	7.71	1,540,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	7.71	

3 - 06/01/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Plow/disc		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure		Corral solids	448.00	232.00	836.00	23,952.24	400.00 <i>ton</i>
Application event totals			448.00	232.00	836.00	23,952.24	
07/08/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.21	2,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.21	

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3 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	2,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.21	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	2,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.21	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	2,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.21	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	2,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.21	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	2,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.21	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	2,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.21	

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3 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	2,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.21	

4&5 - 11/01/2022: Wheat, silage, boot stage

Field name: 4&5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/25/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	124.44	64.44	232.22	6,653.40	500.00 <i>ton</i>
Application event totals		124.44	64.44	232.22	6,653.40	
02/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	6.23	5,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.23	
03/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	6.23	5,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.23	

4&5 - 06/01/2023: Corn, silage

Field name: 4&5

Crop: Corn, silage

Plant date: 06/01/2023

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4&5 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/25/2023	Plow/disc	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Dry Manure	Corral solids	248.89	128.89	464.44	13,306.80	1,000.00 <i>ton</i>	
Application event totals		248.89	128.89	464.44	13,306.80		
07/10/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	9.57	8,600,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	9.57		
07/20/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	9.57	8,600,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	9.57		
07/30/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	9.57	8,600,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	9.57		
08/10/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	9.57	8,600,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	9.57		
08/20/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	9.57	8,600,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	9.57		

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4&5 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.57	8,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.57	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.57	8,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.57	
09/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.57	8,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.57	

6 - 11/01/2022: Wheat, silage, boot stage

Field name: 6

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
10/25/2022	Plow/disc		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure		Corral solids	176.84	91.58	330.00	9,454.83	150.00 <i>ton</i>
Application event totals			176.84	91.58	330.00	9,454.83	
02/23/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	5.48	1,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	5.48	

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6 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	5.48	1,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	5.48	

6 - 06/01/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
05/25/2023	Plow/disc		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure			Corral solids		353.68	183.16	660.00	18,909.66	300.00 <i>ton</i>
Application event totals					353.68	183.16	660.00	18,909.66	
07/11/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water		0.00	0.00	0.00	13.39	2,540,000.00 <i>gal</i>
Application event totals					0.00	0.00	0.00	13.39	
07/21/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water		0.00	0.00	0.00	13.39	2,540,000.00 <i>gal</i>
Application event totals					0.00	0.00	0.00	13.39	
08/01/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water		0.00	0.00	0.00	13.39	2,540,000.00 <i>gal</i>
Application event totals					0.00	0.00	0.00	13.39	

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6 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
08/11/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	13.39	2,540,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.39	
08/21/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	13.39	2,540,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.39	
09/01/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	13.39	2,540,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.39	
09/11/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	13.39	2,540,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.39	

7 - 11/01/2022: Wheat, silage, boot stage

Field name: 7

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
10/25/2022	Plow/disc	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure		Corral solids	292.17	151.30	545.22	15,621.03	300.00 <i>ton</i>
Application event totals			292.17	151.30	545.22	15,621.03	

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7 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
04/05/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water		0.00	0.00	0.00	6.71	1,540,000.00 <i>gal</i>
Application event totals					0.00	0.00	0.00	6.71	
05/08/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water		0.00	0.00	0.00	6.71	1,540,000.00 <i>gal</i>
Application event totals					0.00	0.00	0.00	6.71	

7 - 07/15/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 07/15/2023

Application date	Application method		Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
08/03/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Canal		Surface water	0.00	0.00	0.00	13.24	3,040,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	13.24			
08/13/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Canal		Surface water	0.00	0.00	0.00	13.24	3,040,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	13.24			
08/23/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Canal		Surface water	0.00	0.00	0.00	13.24	3,040,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	13.24			

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7 - 07/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
09/03/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	13.24	3,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.24	
09/13/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	13.24	3,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.24	
09/23/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	13.24	3,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.24	
10/03/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	13.24	3,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.24	

8 - 11/01/2022: Wheat, silage, boot stage

Field name: 8

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/25/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	143.59	74.36	267.95	7,677.00	500.00 <i>ton</i>
Application event totals		143.59	74.36	267.95	7,677.00	

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8 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
02/15/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
	Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
	Canal		Surface water	0.00	0.00	0.00	5.78	4,500,000.00 <i>gal</i>
	Application event totals			0.00	0.00	0.00	5.78	
03/18/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
	Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
	Canal		Surface water	0.00	0.00	0.00	5.78	4,500,000.00 <i>gal</i>
	Application event totals			0.00	0.00	0.00	5.78	

8 - 06/01/2023: Corn, silage

Field name: 8

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
05/25/2023	Plow/disc		No precipitation	No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure			Corral solids	287.18	148.72	535.90	15,354.00	1,000.00 <i>ton</i>
Application event totals				287.18	148.72	535.90	15,354.00	
07/12/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water	0.00	0.00	0.00	10.91	8,500,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	10.91	
07/22/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water	0.00	0.00	0.00	10.91	8,500,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	10.91	

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8 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	8,500,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.91	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	8,500,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.91	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	8,500,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.91	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	8,500,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.91	
09/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	8,500,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.91	

9 - 11/01/2022: Wheat, silage, boot stage

Field name: 9

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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9 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
10/25/2022	Plow/disc		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Dry Manure		Corral solids	145.45	75.32	271.43	7,776.70	500.00 <i>ton</i>	
Application event totals			145.45	75.32	271.43	7,776.70		
03/16/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	11.05	8,500,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	11.05		
04/22/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	11.05	8,500,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	11.05		

9 - 07/15/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 07/15/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
08/04/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	11.05	8,500,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	11.05	
08/14/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	11.05	8,500,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	11.05	

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9 - 07/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
08/24/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	11.05	8,500,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	11.05		
09/04/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	11.05	8,500,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	11.05		
09/14/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	11.05	8,500,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	11.05		
09/24/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	11.05	8,500,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	11.05		
10/04/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	11.05	8,500,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	11.05		
10/14/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal	Surface water	0.00	0.00	0.00	11.05	8,500,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	11.05		

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Reporting period 01/01/2023 to 12/31/2023.

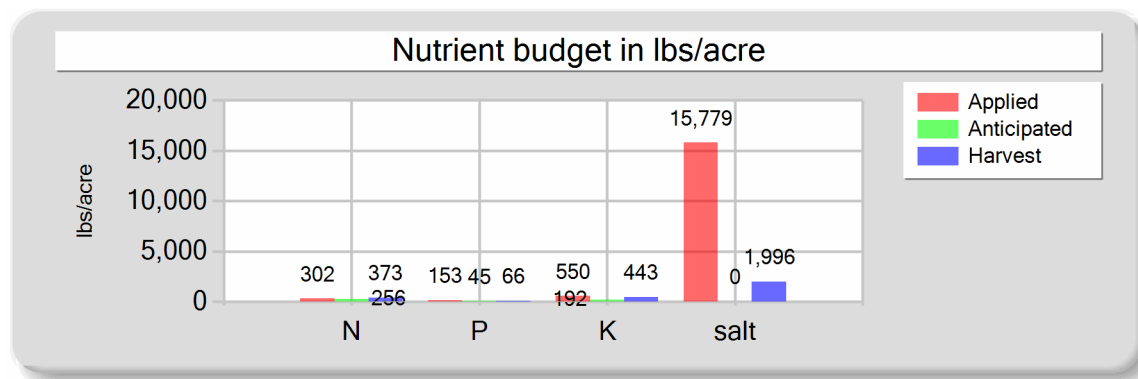
B. NUTRIENT BUDGET

1 - 11/01/2022: Wheat, silage, boot stage

Field name: 1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	294.74	152.63	550.00	15,758.05
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	21.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	301.74	152.63	550.00	15,779.35
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	373.18	65.97	442.91	1,995.94
Nutrient balance	-71.44	86.67	107.09	13,783.41
Applied to removed ratio	0.81	2.31	1.24	7.91

Fresh water applied
8,080,000.00 gallons
297.56 acre-inches
7.83 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

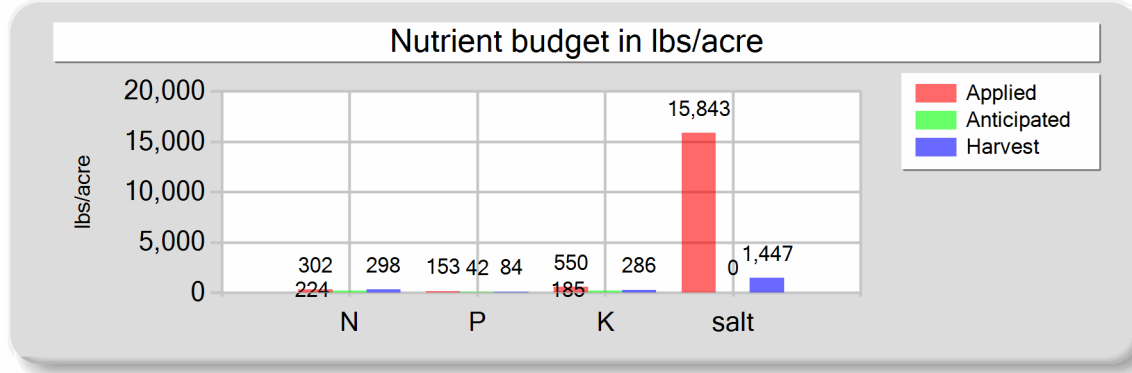
Total harvests for the crop
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

1 - 06/01/2023: Corn, silage

Field name: 1 Crop: Corn, silage Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	32,320,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,190.24 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	31.32 <i>inches/acre</i>
Dry manure	294.74	152.63	550.00	15,758.05	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	85.17	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	301.74	152.63	550.00	15,843.22	
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	297.78	83.94	285.79	1,446.91	
Nutrient balance	3.96	68.69	264.21	14,396.31	
Applied to removed ratio	1.01	1.82	1.92	10.95	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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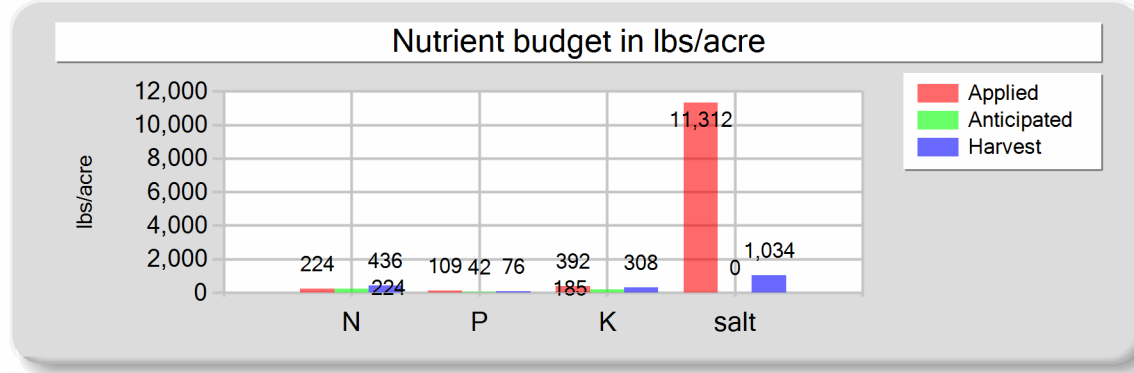
Reporting period 01/01/2023 to 12/31/2023.

14 - 06/01/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	134,880,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	4,967.17 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	31.04 <i>inches/acre</i>
Dry manure	210.00	108.75	391.88	11,227.61	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	84.42	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	224.00	108.75	391.88	11,312.03	
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	436.15	75.94	307.64	1,033.92	
Nutrient balance	-212.15	32.81	84.23	10,278.12	
Applied to removed ratio	0.51	1.43	1.27	10.94	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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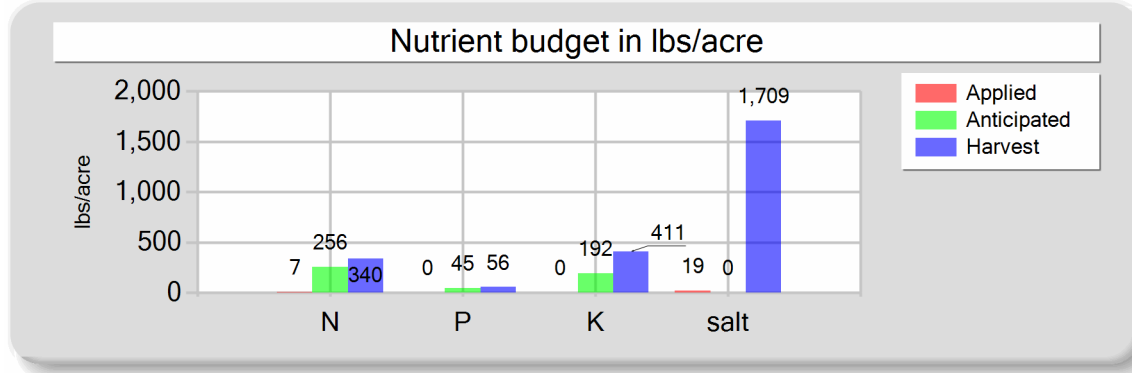
Reporting period 01/01/2023 to 12/31/2023.

18&19 - 11/01/2022: Wheat, silage, boot stage

Field name: 18&19

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	20,240,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	745.37 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	7.17 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	19.49	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	7.00	0.00	0.00	19.49	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	340.18	55.85	411.26	1,709.34	
Nutrient balance	-333.18	-55.85	-411.26	-1,689.85	
Applied to removed ratio	0.02	0.00	0.00	0.01	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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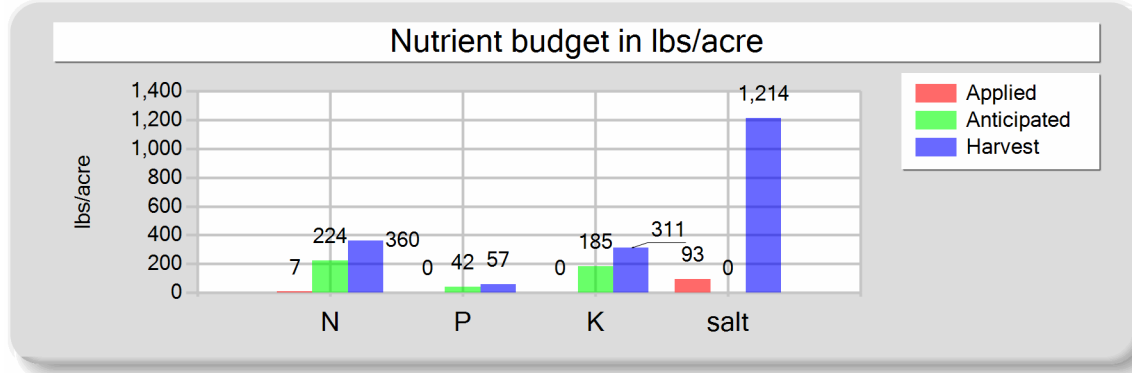
Reporting period 01/01/2023 to 12/31/2023.

18&19 - 06/01/2023: Corn, silage

Field name: 18&19

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	96,840,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	3,566.29 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	34.29 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	93.25	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	7.00	0.00	0.00	93.25	
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	359.85	57.17	311.08	1,214.06	
Nutrient balance	-352.85	-57.17	-311.08	-1,120.81	
Applied to removed ratio	0.02	0.00	0.00	0.08	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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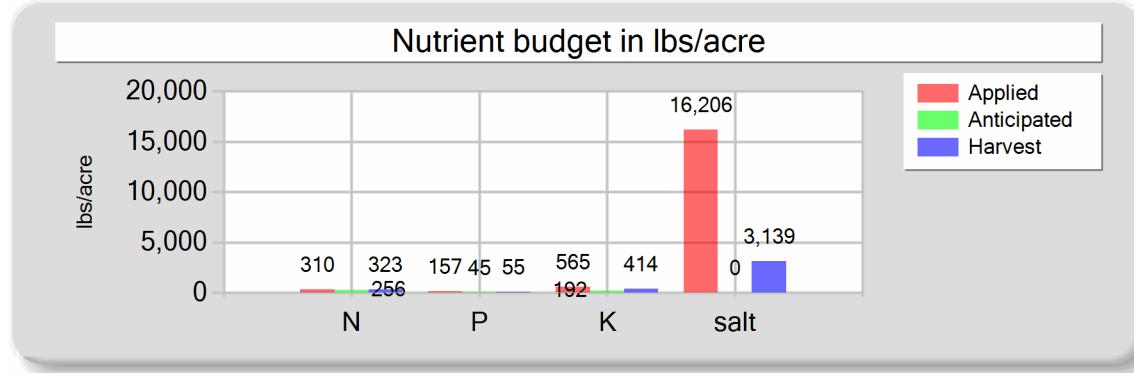
Reporting period 01/01/2023 to 12/31/2023.

2 - 11/01/2022: Wheat, silage, boot stage

Field name: 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	302.70	156.76	564.86	16,183.95
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	21.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	309.70	156.76	564.86	16,205.81
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	323.35	54.52	413.58	3,139.48
Nutrient balance	-13.64	102.24	151.28	13,066.33
Applied to removed ratio	0.96	2.88	1.37	5.16

Fresh water applied
8,080,000.00 <i>gallons</i>
297.56 <i>acre-inches</i>
8.04 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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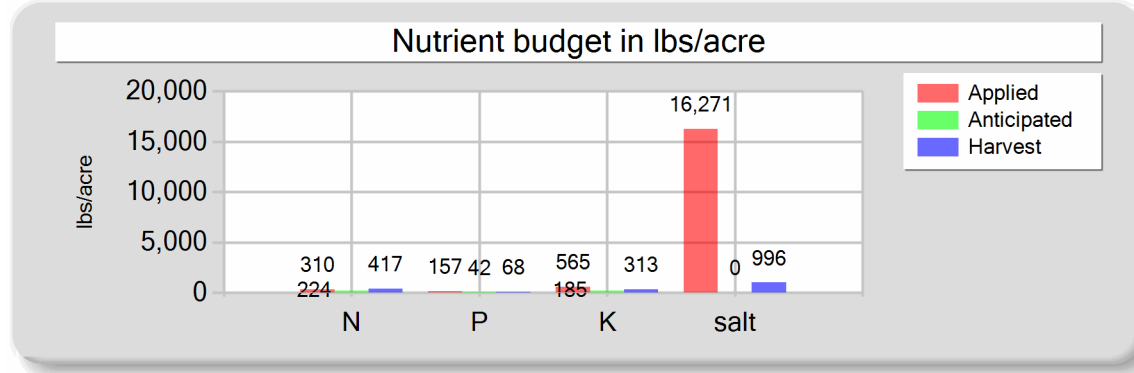
Reporting period 01/01/2023 to 12/31/2023.

2 - 06/01/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	32,320,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,190.24 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	32.17 <i>inches/acre</i>
Dry manure	302.70	156.76	564.86	16,183.95	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	87.47	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	309.70	156.76	564.86	16,271.42	
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	417.40	67.95	312.57	995.94	
Nutrient balance	-107.70	88.81	252.30	15,275.48	
Applied to removed ratio	0.74	2.31	1.81	16.34	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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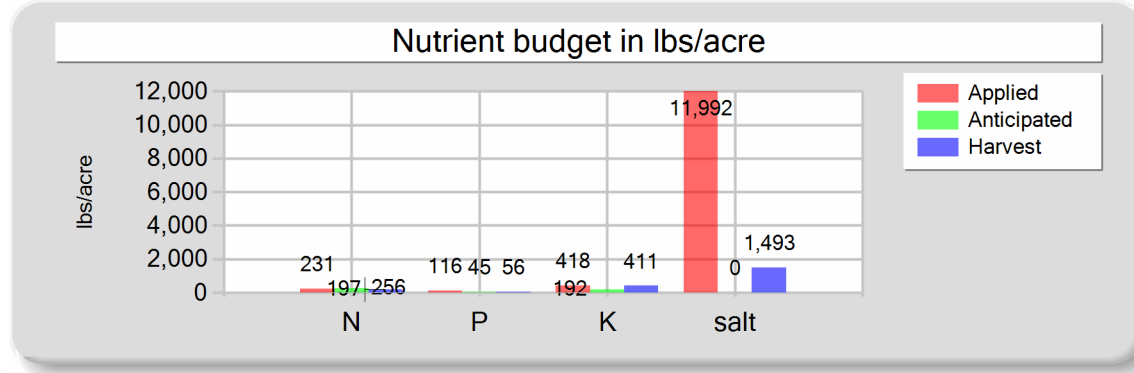
Reporting period 01/01/2023 to 12/31/2023.

3 - 11/01/2022: Wheat, silage, boot stage

Field name: 3

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	224.00	116.00	418.00	11,976.12
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	15.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	231.00	116.00	418.00	11,991.54
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	197.22	56.35	411.35	1,493.27
Nutrient balance	33.78	59.65	6.65	10,498.27
Applied to removed ratio	1.17	2.06	1.02	8.03

Fresh water applied
3,080,000.00 <i>gallons</i>
113.43 <i>acre-inches</i>
5.67 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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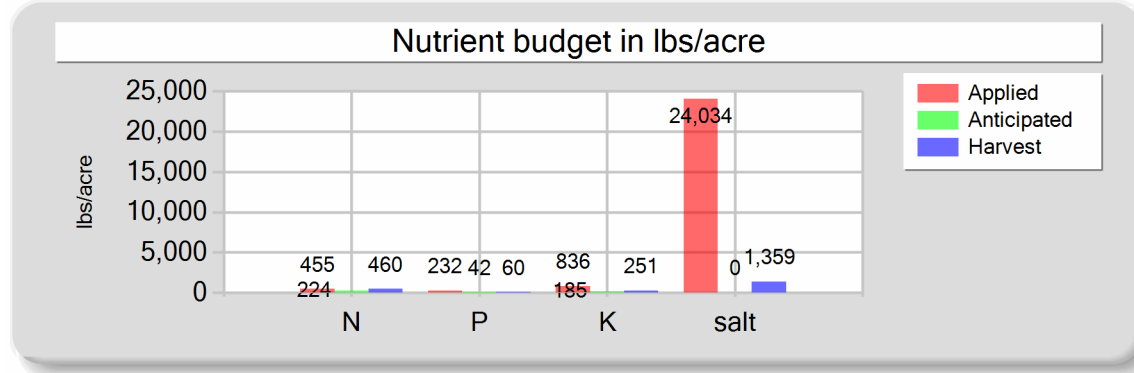
Reporting period 01/01/2023 to 12/31/2023.

3 - 06/01/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	448.00	232.00	836.00	23,952.24
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	81.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	455.00	232.00	836.00	24,033.95
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	459.52	60.36	251.18	1,359.08
Nutrient balance	-4.52	171.64	584.82	22,674.87
Applied to removed ratio	0.99	3.84	3.33	17.68

Fresh water applied
16,320,000.00 <i>gallons</i>
601.01 <i>acre-inches</i>
30.05 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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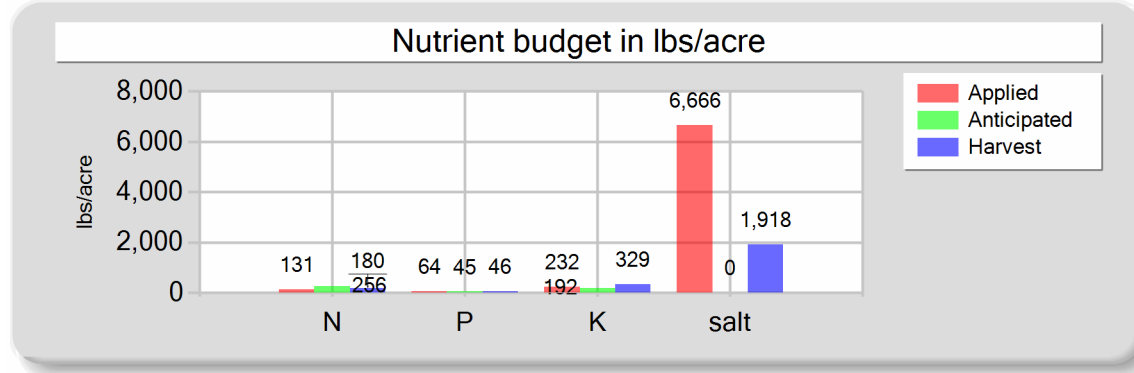
Reporting period 01/01/2023 to 12/31/2023.

4&5 - 11/01/2022: Wheat, silage, boot stage

Field name: 4&5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	11,200,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	412.46 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.58 <i>inches/acre</i>
Dry manure	124.44	64.44	232.22	6,653.40	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	12.46	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	131.44	64.44	232.22	6,665.86	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	180.42	45.58	328.55	1,918.15	
Nutrient balance	-48.98	18.86	-96.33	4,747.71	
Applied to removed ratio	0.73	1.41	0.71	3.48	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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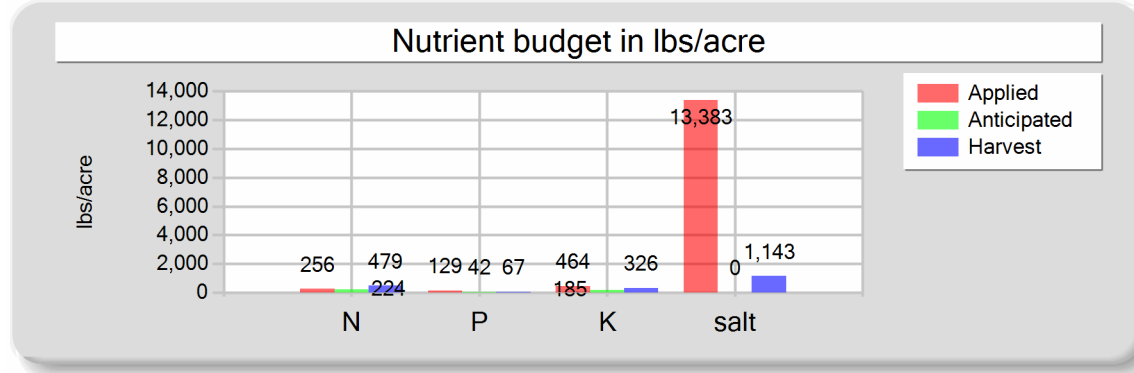
Reporting period 01/01/2023 to 12/31/2023.

4&5 - 06/01/2023: Corn, silage

Field name: 4&5

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	248.89	128.89	464.44	13,306.80
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	76.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	255.89	128.89	464.44	13,383.35
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	478.56	66.61	326.05	1,142.94
Nutrient balance	-222.67	62.28	138.39	12,240.42
Applied to removed ratio	0.53	1.93	1.42	11.71

Fresh water applied
68,800,000.00 <i>gallons</i>
2,533.67 <i>acre-inches</i>
28.15 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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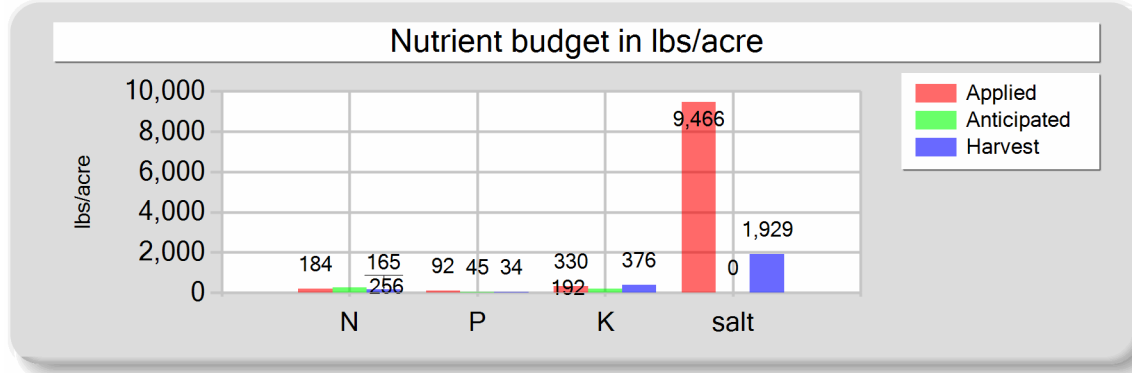
Reporting period 01/01/2023 to 12/31/2023.

6 - 11/01/2022: Wheat, silage, boot stage

Field name: 6

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	176.84	91.58	330.00	9,454.83
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	10.96
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	183.84	91.58	330.00	9,465.79
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	165.43	33.84	375.99	1,928.81
Nutrient balance	18.41	57.74	-45.99	7,536.99
Applied to removed ratio	1.11	2.71	0.88	4.91

Fresh water applied
2,080,000.00 <i>gallons</i>
76.60 <i>acre-inches</i>
4.03 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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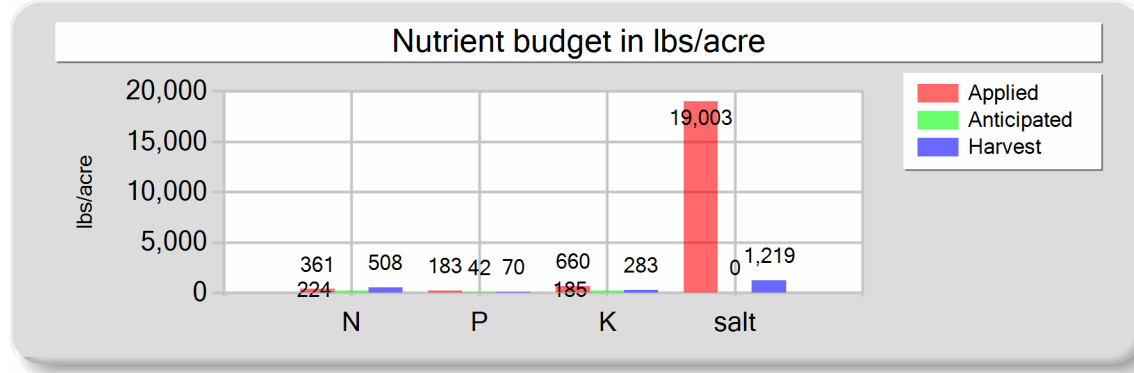
Reporting period 01/01/2023 to 12/31/2023.

6 - 06/01/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	353.68	183.16	660.00	18,909.66
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	93.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	360.68	183.16	660.00	19,003.37
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	507.93	69.72	282.85	1,219.03
Nutrient balance	-147.24	113.44	377.15	17,784.35
Applied to removed ratio	0.71	2.63	2.33	15.59

Fresh water applied
17,780,000.00 gallons
654.78 acre-inches
34.46 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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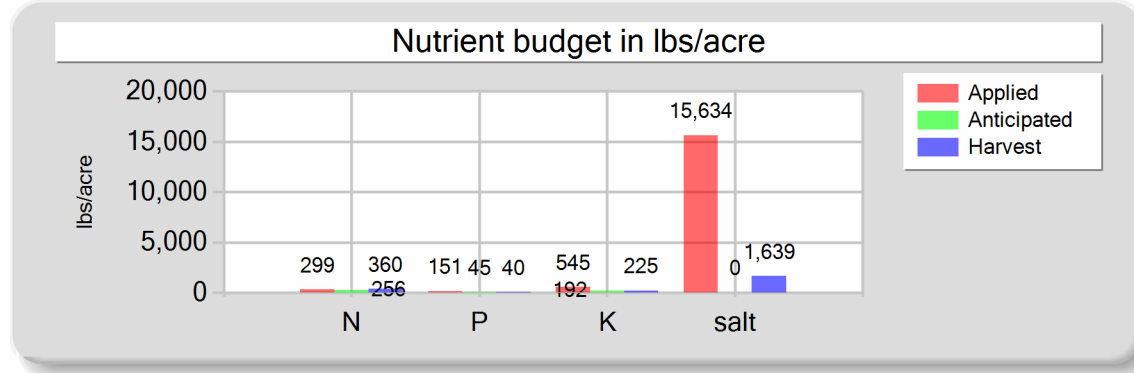
Reporting period 01/01/2023 to 12/31/2023.

7 - 11/01/2022: Wheat, silage, boot stage

Field name: 7

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	3,080,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	113.43 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.93 <i>inches/acre</i>
Dry manure	292.17	151.30	545.22	15,621.03	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	13.41	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	299.17	151.30	545.22	15,634.44	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	359.85	39.98	224.67	1,639.32	
Nutrient balance	-60.68	111.32	320.55	13,995.12	
Applied to removed ratio	0.83	3.78	2.43	9.54	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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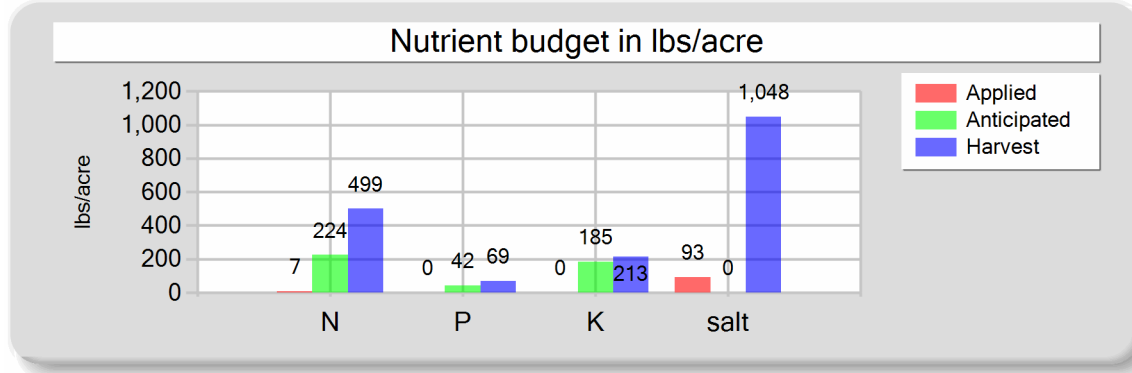
Reporting period 01/01/2023 to 12/31/2023.

7 - 07/15/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 07/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	21,280,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	783.67 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	34.07 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	92.65	0.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Total nutrients applied	7.00	0.00	0.00	92.65	0.00 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	499.43	68.55	213.48	1,047.81	
Nutrient balance	-492.43	-68.55	-213.48	-955.16	
Applied to removed ratio	0.01	0.00	0.00	0.09	
					Total harvests for the crop
					1 <i>harvests</i>

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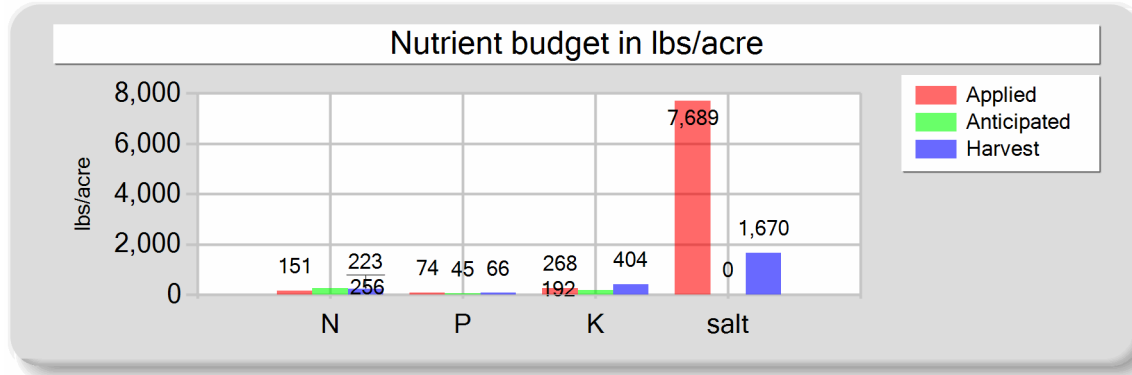
Reporting period 01/01/2023 to 12/31/2023.

8 - 11/01/2022: Wheat, silage, boot stage

Field name: 8

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	9,000,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	331.44 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.25 <i>inches/acre</i>
Dry manure	143.59	74.36	267.95	7,677.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	11.55	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	150.59	74.36	267.95	7,688.55	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	222.98	66.14	404.38	1,670.43	
Nutrient balance	-72.39	8.22	-136.43	6,018.13	
Applied to removed ratio	0.68	1.12	0.66	4.60	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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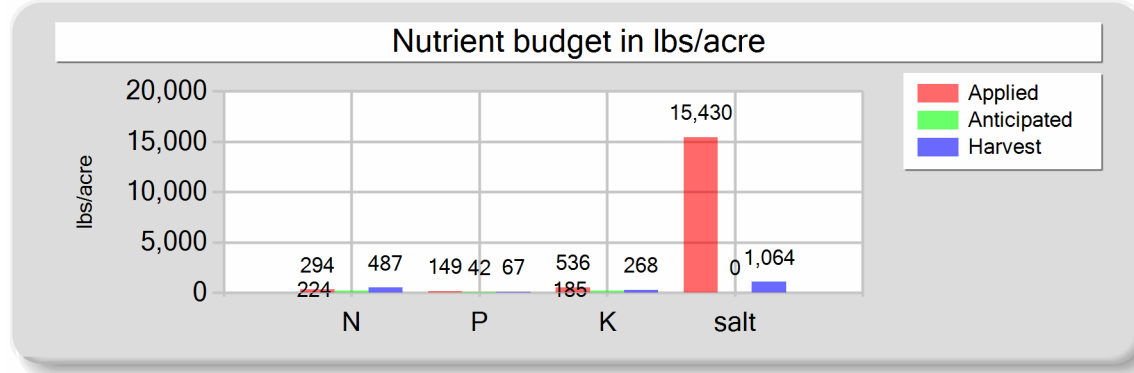
Reporting period 01/01/2023 to 12/31/2023.

8 - 06/01/2023: Corn, silage

Field name: 8

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	287.18	148.72	535.90	15,354.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	76.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	294.18	148.72	535.90	15,430.39
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	486.58	66.98	267.91	1,063.77
Nutrient balance	-192.40	81.74	267.98	14,366.62
Applied to removed ratio	0.60	2.22	2.00	14.51

Fresh water applied
59,500,000.00 <i>gallons</i>
2,191.18 <i>acre-inches</i>
28.09 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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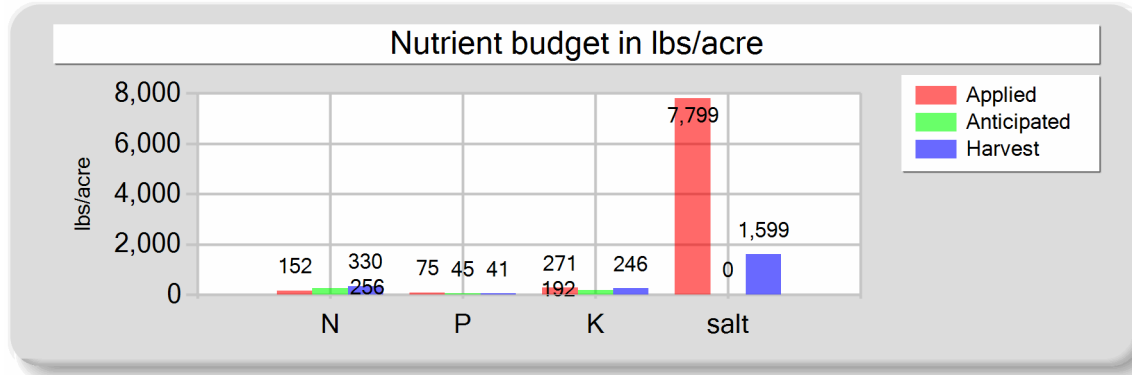
Reporting period 01/01/2023 to 12/31/2023.

9 - 11/01/2022: Wheat, silage, boot stage

Field name: 9

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	17,000,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	626.05 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	8.13 <i>inches/acre</i>
Dry manure	145.45	75.32	271.43	7,776.70	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	22.11	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	152.45	75.32	271.43	7,798.81	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	329.62	41.01	246.03	1,599.21	
Nutrient balance	-177.16	34.32	25.40	6,199.60	
Applied to removed ratio	0.46	1.84	1.10	4.88	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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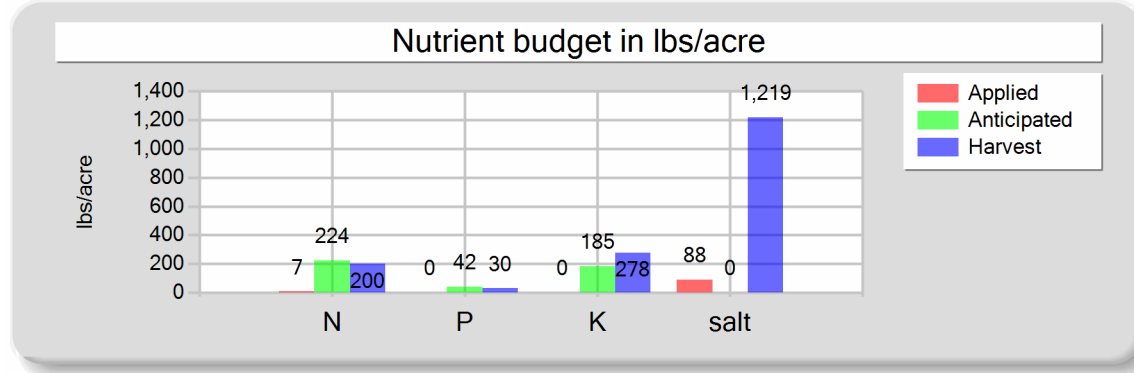
Reporting period 01/01/2023 to 12/31/2023.

9 - 07/15/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 07/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	68,000,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,504.21 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	32.52 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	88.44	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	7.00	0.00	0.00	88.44	
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	200.36	29.81	278.19	1,218.74	
Nutrient balance	-193.36	-29.81	-278.19	-1,130.31	
Applied to removed ratio	0.03	0.00	0.00	0.07	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT ANALYSES

A. MANURE ANALYSES

Dry Manure

Sample and source description: Dry ManureSample date: 06/09/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 14.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,200.00	5,800.00	20,900.00	15,600.00	9,000.00	6,900.00	4,500.00	1,097.90		70.20
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

B. PROCESS WASTEWATER ANALYSES

1st Qtr WW

Sample and source description: 1st Qtr WWSample date: 02/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.56

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	429.65	79.14	0.00	0.00	43.98	251.41								2,190.00	1,402
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

C. FRESH WATER ANALYSES

Barn

Barn

Sample description: BarnSample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										377.00	
DL	0.10										10.00	

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Canal**Canal**Sample description: CanalSample date: 08/17/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										20.00	
DL	0.10										10.00	

Houses**Houses**Sample description: HousesSample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										380.00	
DL	0.10										10.00	

D. SOIL ANALYSES*No soil analyses entered.***E. PLANT TISSUE ANALYSES**

1 - 11/01/2022: Wheat, silage, boot stage

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Reporting period 01/01/2023 to 12/31/2023.

1 - 11/01/2022: Wheat, silage, boot stage

1

Sample and source description: 1

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,800.00	3,500.00	23,500.00		10.59
DL	100.00	100.00	100.00		1.00

1 - 06/01/2023: Corn, silage

1

Sample and source description: 1

Sample date: 10/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,900.00	4,200.00	14,300.00		7.24
DL	100.00	100.00	100.00		1.00

14 - 06/01/2023: Corn, silage

14

Sample and source description: 14

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,400.00	3,900.00	15,800.00		5.31
DL	100.00	100.00	100.00		1.00

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Reporting period 01/01/2023 to 12/31/2023.

18&19 - 11/01/2022: Wheat, silage, boot stage

18&19

Sample and source description: 18&19

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,100.00	3,300.00	24,300.00		10.10
DL	100.00	100.00	100.00		1.00

18&19 - 06/01/2023: Corn, silage

18&19

Sample and source description: 18&19

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,400.00	3,400.00	18,500.00		7.22
DL	100.00	100.00	100.00		1.00

2 - 11/01/2022: Wheat, silage, boot stage

2

Sample and source description: 2

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,200.00	2,900.00	22,000.00		16.70
DL	100.00	100.00	100.00		1.00

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2 - 06/01/2023: Corn, silage

2

Sample and source description: 2

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,500.00	3,500.00	16,100.00		5.13
DL	100.00	100.00	100.00		1.00

3 - 11/01/2022: Wheat, silage, boot stage

3

Sample and source description: 3

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,000.00	4,000.00	29,200.00		10.60
DL	100.00	100.00	100.00		1.00

3 - 06/01/2023: Corn, silage

3

Sample and source description: 3

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,600.00	3,100.00	12,900.00		6.98
DL	100.00	100.00	100.00		1.00

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Reporting period 01/01/2023 to 12/31/2023.

4&5 - 11/01/2022: Wheat, silage, boot stage

4&5

Sample and source description: 4&5

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,500.00	2,400.00	17,300.00		10.10
DL	100.00	100.00	100.00		1.00

4&5 - 06/01/2023: Corn, silage

4

Sample and source description: 4

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	27,300.00	3,800.00	18,600.00		6.52
DL	100.00	100.00	100.00		1.00

6 - 11/01/2022: Wheat, silage, boot stage

6

Sample and source description: 6

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,800.00	1,800.00	20,000.00		10.26
DL	100.00	100.00	100.00		1.00

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Reporting period 01/01/2023 to 12/31/2023.

6 - 06/01/2023: Corn, silage

6

Sample and source description: 6

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,500.00	3,500.00	14,200.00		6.12
DL	100.00	100.00	100.00		1.00

7 - 11/01/2022: Wheat, silage, boot stage

7

Sample and source description: 7

Sample date: 07/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,900.00	2,100.00	11,800.00		8.61
DL	100.00	100.00	100.00		1.00

7 - 07/15/2023: Corn, silage

7

Sample and source description: 7

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,500.00	3,500.00	10,900.00		5.35
DL	100.00	100.00	100.00		1.00

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Reporting period 01/01/2023 to 12/31/2023.

8 - 11/01/2022: Wheat, silage, boot stage

8

Sample and source description: 8

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,800.00	3,500.00	21,400.00		8.84
DL	100.00	100.00	100.00		1.00

8 - 06/01/2023: Corn, silage

8

Sample and source description: 8

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,700.00	3,400.00	13,600.00		5.40
DL	100.00	100.00	100.00		1.00

9 - 11/01/2022: Wheat, silage, boot stage

9

Sample and source description: 9

Sample date: 07/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,900.00	2,600.00	15,600.00		10.14
DL	100.00	100.00	100.00		1.00

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Reporting period 01/01/2023 to 12/31/2023.

9 - 07/15/2023: Corn, silage

9

Sample and source description: 9

Sample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,100.00	1,800.00	16,800.00		7.36
DL	100.00	100.00	100.00		1.00

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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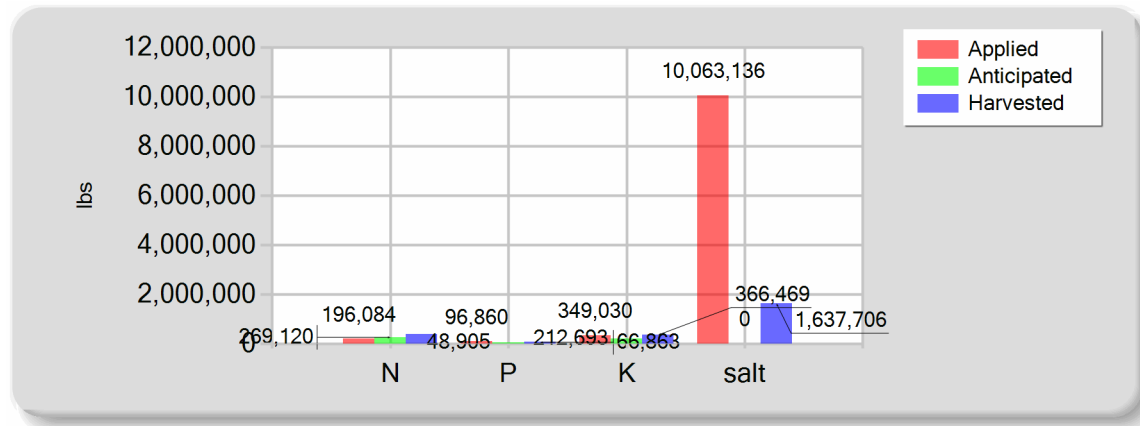
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

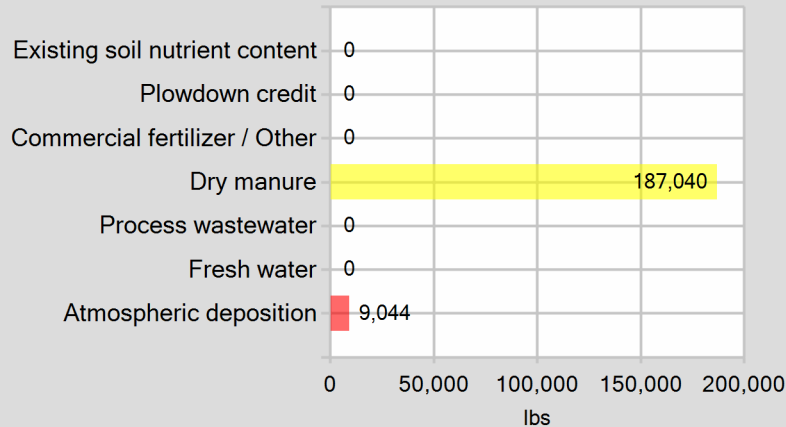
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	187,040.00	96,860.00	349,030.00	10,000,060.20
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	63,076.18
Atmospheric deposition	9,044.00	0.00	0.00	0.00
Total nutrients applied	196,084.00	96,860.00	349,030.00	10,063,136.38
Anticipated crop nutrient removal	269,120.00	48,904.80	212,692.80	0.00
Actual crop nutrient removal	396,644.80	66,862.56	366,468.70	1,637,706.19
Nutrient balance	-200,560.80	29,997.44	-17,438.70	8,425,430.19
Applied to removed ratio	0.49	1.45	0.95	6.14

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

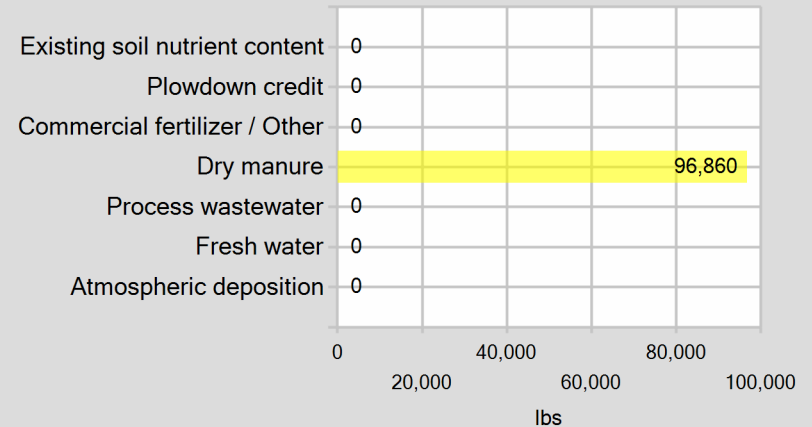


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

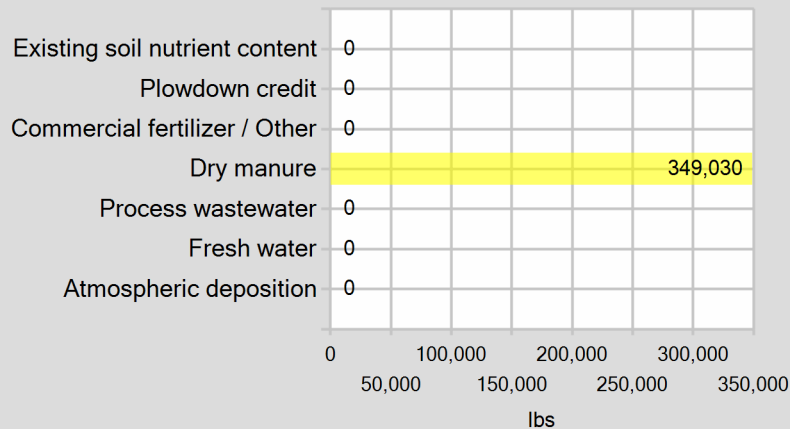
Pounds of nitrogen applied



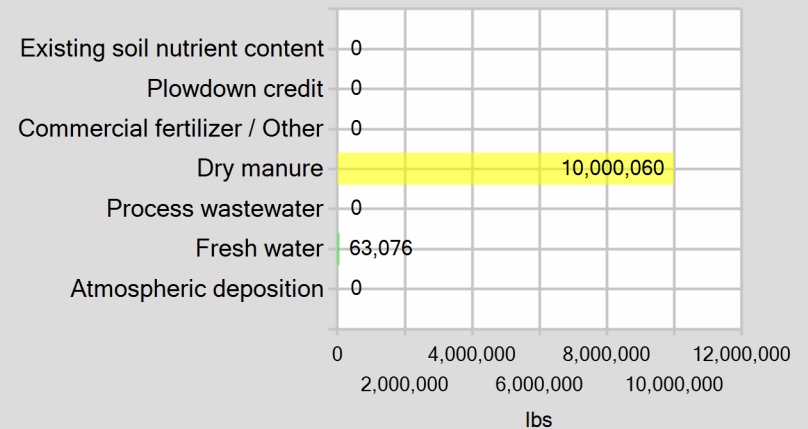
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

EXCEPTION REPORTING

A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

No manure or process wastewater discharges occurred during the reporting period.

B. STORM WATER DISCHARGES

The following is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility 's Nutrient Management Plan.

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

The following is a summary of all discharges from the land application area to surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient Management Plan.

No land application area to surface water discharges occurred during the reporting period.

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period? No

Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes

Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period? No

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

ADDITIONAL NOTES

A. NOTES

No cows so missing 2nd thru 4th Qtr WW and 2nd Dry Manure.

Wells were all negative for Ammonia which we tested onsite using a test strip .

We had an extremely wet year and had early flood release water and then Canal water thru the whole year so no wells were turned on .

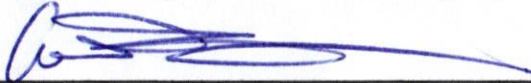
Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Anthony Silveira

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

06/14/24

DATE

DATE

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted .

Annual Dairy Facility Assessment

Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFa Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed .

Manure/Process Wastewater Tracking Manifests

Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.

Corrective Actions Documents

Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

Groundwater Monitoring

Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

Storm Water Monitoring

Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

Barreto & Silveira Dairy
11305 2nd Ave
Hanford, CA 93230

Account# 00-0025797
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 11:54

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0599-01	Barn	Ag Water	Christina		12/11/2023 14:40
23L0599-02	Houses	Ag Water	Christina		12/11/2023 14:50

Default Cooler Temperature on Receipt °C: 20.6
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken



Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

Barreto & Silveira Dairy
11305 2nd Ave
Hanford, CA 93230

Account# 00-0025797
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 11:54

Sample Results

Sample: Barn
23L0599-01 (Water)

Sampled: 12/11/2023 14:40
Sampled By: Christina

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.38	mmhos/cm	0.01	1		12/12/23 16:36	SM 2510 B		BEL0389
Electrical Conductivity umhos	377	umhos/cm	10.0	1		12/12/23 16:36	SM 2510 B		BEL0389
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/13/23 02:26	EPA 300.0		BEL0350

Barreto & Silveira Dairy
11305 2nd Ave
Hanford, CA 93230

Account# 00-0025797
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 11:54

Sample Results (Continued)

Sample: Houses
23L0599-02 (Water)

Sampled: 12/11/2023 14:50
Sampled By: Christina

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.38	mmhos/cm	0.01	1		12/12/23 16:37	SM 2510 B		BEL0389
Electrical Conductivity umhos	380	umhos/cm	10.0	1		12/12/23 16:37	SM 2510 B		BEL0389
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/13/23 02:47	EPA 300.0		BEL0350

Barreto & Silveira Dairy
11305 2nd Ave
Hanford, CA 93230

Account# 00-0025797
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 11:54

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0350									
Blank (BEL0350-BLK1)				Prepared & Analyzed: 12/12/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0350-BLK2)				Prepared & Analyzed: 12/12/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0350-BLK3)				Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0350-BLK4)				Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0350-BLK5)				Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
LCS (BEL0350-BS1)				Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.6	0.1	mg/L	5.000		92.8	90-110		
LCS (BEL0350-BS2)				Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000		107	90-110		
LCS (BEL0350-BS3)				Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.7	0.1	mg/L	5.000		94.3	90-110		
LCS (BEL0350-BS4)				Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.6	0.1	mg/L	5.000		92.7	90-110		
Duplicate (BEL0350-DUP1)				Source: 23L0592-01		Prepared: 12/12/2023 Analyzed: 12/13/2023			
Nitrate Nitrogen as NO3N	0.08	0.1	mg/L		0.08			0.00	10
Duplicate (BEL0350-DUP2)				Source: 23L0594-01		Prepared: 12/12/2023 Analyzed: 12/13/2023			
Nitrate Nitrogen as NO3N	0.09	0.1	mg/L		0.09			5.65	10
Duplicate (BEL0350-DUP3)				Source: 23L0724-01		Prepared: 12/12/2023 Analyzed: 12/13/2023			
Nitrate Nitrogen as NO3N	0.6	0.1	mg/L		0.6			1.23	10
Duplicate (BEL0350-DUP4)				Source: 23L0731-01		Prepared: 12/12/2023 Analyzed: 12/13/2023			
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		0.2			0.466	10
Matrix Spike (BEL0350-MS1)				Source: 23L0592-01		Prepared & Analyzed: 12/12/2023			
Nitrate Nitrogen as NO3N	4.6	0.1	mg/L	5.000	0.08	90.7	90-110		
Matrix Spike (BEL0350-MS2)				Source: 23L0594-01		Prepared: 12/12/2023 Analyzed: 12/13/2023			
Nitrate Nitrogen as NO3N	4.7	0.1	mg/L	5.000	0.09	91.7	90-110		

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Barreto & Silveira Dairy
11305 2nd Ave
Hanford, CA 93230

Account# 00-0025797
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 11:54

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0350 (Continued)									
Matrix Spike (BEL0350-MS4)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	0.2	93.7	90-110		
Reference (BEL0350-SRM1)									
Nitrate Nitrogen as NO3N	9.2		mg/L	10.00		92.0	90-110		
Reference (BEL0350-SRM2)									
Nitrate Nitrogen as NO3N	9.3		mg/L	10.00		92.6	90-110		
Reference (BEL0350-SRM3)									
Nitrate Nitrogen as NO3N	9.3		mg/L	10.00		92.7	90-110		
Reference (BEL0350-SRM4)									
Nitrate Nitrogen as NO3N	9.4		mg/L	10.00		93.6	90-110		
Reference (BEL0350-SRM5)									
Nitrate Nitrogen as NO3N	9.2		mg/L	10.00		92.2	90-110		

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Barreto & Silveira Dairy
11305 2nd Ave
Hanford, CA 93230

Account# 00-0025797
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 11:54

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0389									
Blank (BEL0389-BLK1)				Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEL0389-BLK2)				Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEL0389-BLK3)				Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEL0389-DUP1)				Source: 23L0597-03		Prepared & Analyzed: 12/12/2023			
Electrical Conductivity	6.61	0.01	mmhos/cm		6.45			2.40	10
Electrical Conductivity umhos	6610	10.0	umhos/cm		6450			2.40	10
Duplicate (BEL0389-DUP2)				Source: 23L0607-03		Prepared & Analyzed: 12/12/2023			
Electrical Conductivity	5.81	0.01	mmhos/cm		5.88			1.25	10
Electrical Conductivity umhos	5810	10.0	umhos/cm		5880			1.25	10
Reference (BEL0389-SRM1)				Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	445		umhos/cm	426.0		104	90-110		
Reference (BEL0389-SRM3)				Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	1070		umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
Reference (BEL0389-SRM4)				Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	1050		umhos/cm	1000		105	90-110		
Electrical Conductivity umhos	1050		umhos/cm	1000		105	90-110		
Reference (BEL0389-SRM5)				Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	1060		umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060		umhos/cm	1000		106	90-110		

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12/12/23 07:40

231 0599

WATER WORK REQUEST

Bill To: Acct No. 25797 Cons. 8

Purchase Order No. _____ Results Needed By _____

Client	Barreto & Silveira Dairy
Address	11305 2nd Ave
City, State, Zip	Hanford, CA 93230
Email	anthonysilveira@hotmail.com

Copy to: mel_tinamedeiros@yahoo.com

Requested by/Cell: Christina Medeiros/ 559-903-2490

Facility: _____

Date sampled 12/11/23

Sampled by Christina

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB

DESCRIPTION OF SA Bacon Temperature Upon Receipt
Hanford (°C): 20.6
Laboratory (°C): -2.3

2. Huises Temperature Upon Receipt
Hanford (°C): 21.6
Laboratory (°C): -2.0

4. Sampled From:

5. Sampled From:

6. Sampled From:

7. _____ Sampled From: _____

8. Sampled From:

IR Thermometer SN: 221511276

Correction Factor: 0°C

Calibration Due: 03/06/2024

Location: Hanford




IR Thermometer SN: 192603727

Correction Factor: 0°C

Calibration Due: 03/06/2024

Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				12/11/23 3:36
Second		DCI	12/11/23 3:36pm	
Third				
Fourth		DCI	12/12 07:47	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a default damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellaville Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternatives to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellaville Laboratory.

Invoicing Information:

Medeiros Pricing 2023

Shipping

Sampling Hrs	Miles	Consulting	\$	Out
--------------	-------	------------	----	-----

<u>Amt Paid</u>	<u>Rec By</u>	<u>Check No.</u>	<u>Date</u>
-----------------	---------------	------------------	-------------

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples		No. Bottles
Water Type:	<input type="checkbox"/> Drinking	<input type="checkbox"/> Wastewater
<input checked="" type="checkbox"/> Ag Water	<input type="checkbox"/> Ground Water	<input type="checkbox"/> Mon. Well
<input checked="" type="checkbox"/> Supply Water	<input type="checkbox"/> Other	

Analysis and Bottles Required: *(Please Indicate Analysis)*

☒ EC, NO₃-N
(1) 1 L plastic, unpreserved (white)

☐ DWW1: (EC, pH, NO₃-N, **NH₄-N Field Test**)
(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO₃-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other[illegible]

Signature _____

Sample received in cooler with ice?

☐ Yes ☐ No

ctt:update 2020



12/12/23 07:40

23L0599

Shipping Information: Shipped In <input checked="" type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>											
<input type="checkbox"/> Samples re Fridgerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest						
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>						
Samples Preserved with HNO₃ or H₂SO₄ were:					<input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory						
Type of Container(s) Received		Sample Number									
		1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	* pH Value										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
Other:											
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	500 mL HNO ₃ (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO ₃ (Red)										
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)										
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
	40mL VOA, H ₃ PO ₄ (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H ₂ SO ₄ (Yellow)										
	250 mL AG Na ₂ S ₂ O ₃ (Green)										
	250 mL AG Na ₂ S ₂ O ₃ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H ₂ SO ₄ (Yellow)										
	1 L AG Na ₂ S ₂ O ₃ (Green)										
Special	1 L AG HCl (Blue)										
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L AG or P NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
DO KIT											
Other:											
Other:											

Barreto & Silveira Dairy
11305 2nd Ave
Hanford, CA 93230

Account# 00-0025797
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:30
Reported: 08/23/2023 14:24

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1583-01	Canal	Ag Water			08/16/2023 15:50

Default Cooler Temperature on Receipt °C: 1.6
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken



Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02



Barreto & Silveira Dairy
11305 2nd Ave
Hanford, CA 93230

Account# 00-0025797
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:30
Reported: 08/23/2023 14:24

Sample Results

Sample: Canal
23H1583-01 (Water)

Sampled: 8/16/2023 15:50

Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.02	mmhos/cm	0.01	1		08/18/23 17:13	SM 2510 B		BEH0918
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/17/23 21:32	EPA 300.0		BEH0886

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Barreto & Silveira Dairy
11305 2nd Ave
Hanford, CA 93230

Account# 00-0025797
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:30
Reported: 08/23/2023 14:24

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0886									
Blank (BEH0886-BLK1)				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEH0886-BLK2)				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEH0886-BLK3)				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
LCS (BEH0886-BS1)				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.8	90-110		
LCS (BEH0886-BS2)				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.4	90-110		
Duplicate (BEH0886-DUP1)		Source: 23H0170-01		Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		0.2			0.475	10
Duplicate (BEH0886-DUP2)		Source: 23H1556-01		Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	5.8	0.1	mg/L		5.8			0.172	10
Matrix Spike (BEH0886-MS1)		Source: 23H0170-01		Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	0.2	99.6	90-110		
Matrix Spike (BEH0886-MS2)		Source: 23H1556-01		Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.8	0.1	mg/L	5.000	5.8	98.9	90-110		
Reference (BEH0886-SRM1)				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		98.8	90-110		
Reference (BEH0886-SRM2)				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.6	90-110		
Reference (BEH0886-SRM3)				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.6	90-110		

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Barreto & Silveira Dairy
11305 2nd Ave
Hanford, CA 93230

Account# 00-0025797
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:30
Reported: 08/23/2023 14:24

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0918									
Blank (BEH0918-BLK1)									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
Blank (BEH0918-BLK2)									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
Blank (BEH0918-BLK3)									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
Duplicate (BEH0918-DUP1)									
Electrical Conductivity	0.02	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		9.30	10
Duplicate (BEH0918-DUP2)									
Electrical Conductivity	0.02	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		0.00	10
Reference (BEH0918-SRM1)									
Electrical Conductivity	511		umhos/cm	538.0	Prepared: 8/17/2023	Analyzed: 8/18/2023	94.9	90-110	
Reference (BEH0918-SRM3)									
Electrical Conductivity	956		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	95.6	90-110	
Reference (BEH0918-SRM4)									
Electrical Conductivity	956		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	95.6	90-110	
Reference (BEH0918-SRM5)									
Electrical Conductivity	971		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	97.1	90-110	

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08/17/23 08:30

23H1583

WATER WORK REQUESTBill To: Acct No. 25797 Cons. 8

Purchase Order No. _____ Results Needed By _____

Client Barreto & Silveira Dairy
Address 11305 2nd Ave
City, State, Zip Hanford, CA 93230
Email anthonyasilveira@hotmail.comCopy to: mel_tinamedeiros@yahoo.comRequested by/Cell: Christina Medeiros/ 559-903-2490

Facility: _____

Date sampled _____

Sampled by _____

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB**DESCRIPTION OF SAMPLES**

1. <u>Canal</u>	Sampled From: _____
2. _____	Sampled From: _____
3. _____	Sampled From: _____
4. _____	Sampled From: _____
5. _____	Sampled From: _____
6. _____	Sampled From: _____
7. _____	Sampled From: _____
8. _____	Sampled From: _____
9. _____	Sampled From: _____
10. _____	Sampled From: _____

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>	<u>Medeiros</u>	<u>8/17/23 4:35pm</u>	<u>8/16/23</u>
Second	<u>[Signature]</u>	<u>DLI</u>	<u>8/16/23 4:35pm</u>	<u>8/16/23</u>
Third	<u>MM</u>	<u>DLI</u>	<u>8/17/23 8:30</u>	
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated delinquency fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of DellaValle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of DellaValle Laboratory.

Invoicing Information:		Shipping	
Medeiros Pricing 2023		\$ _____ In	
Sampling Hrs _____	Miles _____ Consulting _____	\$ _____ Out	
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

DELLAVALLE LABORATORY, INC.1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174No. of Samples _____ No. Bottles _____
Water Type: ☒ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____**Analysis and Bottles Required:** (Please Indicate Analysis)

- ☒ EC, NO₃-N
(1) 1 L plastic, unpreserved (white)
- ☐ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
(1) 1 L plastic, unpreserved (white)
- ☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)
- ☐ DCW1: (EC, NO₃-N, TDS)
(1) 1 L plastic, unpreserved (white)
- ☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)
- ☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
(1) 1 L plastic, unpreserved (white)

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
<u>8/17/23</u>	<u>3:30pm</u>		<u>1.6</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Signature [Signature]
Sample received in cooler with ice?
[] Yes [] No ctt:update 2020IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory



08/17/23 08:30

23H1583

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input checked="" type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO ₃ or H ₂ SO ₄ were:					<input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory					
Type of Container(s) Received		Sample Number								
		1	2	3	4	5	6	7	8	9
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	* pH Value									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	500 mL HNO ₃ (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO ₃ (Red)									
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)									
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H ₂ SO ₄ (Yellow)									
	250 mL AG Na ₂ S ₂ O ₃ (Green)									
	250 mL AG Na ₂ S ₂ O ₃ + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H ₂ SO ₄ (Yellow)									
	1 L AG Na ₂ S ₂ O ₃ (Green)									
	1 L AG HCl (Blue)									
Special	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
	Chlorite/Bromate - 250 mL AG with EDA									
	HAA5 - 250mL AG Ammonium Chlorite									
	DO KIT									
Other:										