

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:** Rio Blanco Dairy

Physical address of dairy:

5041 Ave. 192
Number and StreetTulare
CityTulare
County93274
Zip Code

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

Date facility was originally placed in operation: 03/05/1979Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0200-0110-0009-0000**B. OPERATORS**

Wilbur, Jeff

Operator name: Wilbur, JeffTelephone no.: (559) 686-7656 (559) 285-8868
Landline Cellular20280 Road 52Tulare
CityCA
State93274
Zip Code**This operator is responsible for paying permit fees.****C. OWNERS**

Wilbur, Jeff

Legal owner name: Wilbur, JeffTelephone no.: (559) 686-7656 (559) 285-8868
Landline Cellular20280 Road 52Tulare
CityCA
State93274
Zip Code**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	360	350	370	440	395
Number under roof	1,950	0	0	0	0	0
Maximum number	1,982	381	358	378	451	408
Average number	1,950	360	350	370	440	395
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Holstein

Average milk production: 75 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 66,549.53 tons per reporting period

Total nitrogen from manure: 845,648.68 lbs per reporting period

After ammonia losses (30% loss applied): 591,954.08 lbs per reporting period

Total phosphorus from manure: 136,720.56 lbs per reporting period

Total potassium from manure: 379,848.74 lbs per reporting period

Total salt from manure: 1,000,939.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 20,593,783 gallons

Total nitrogen generated: 127,748.39 lbs

Total phosphorus generated: 22,916.13 lbs

Total potassium generated: 129,376.80 lbs

Total salt generated: 619,509.43 lbs

20,593,783 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 20,593,783 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
IW 11	Ground water
IW 3	Ground water
IW 30	Ground water
IW 33	Ground water

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Source Description	Type
IW 34	Ground water
IW 35	Ground water
IW 37	Ground water
IW 38	Ground water
IW 6	Ground water
IW 7	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	36	36	2	both	X200-X100-X031-XXXX
10	34	34	2	both	X200-X110-X008-XXXX
2	37	37	1	both	X200-X100-X031-XXXX
24	37	37	0	none	X226-X010-X033-XXXX
25	37	37	2	both	X226-X010-X033-XXXX
26	52	52	2	both	X226-X010-X017-XXXX
27	52	52	1	both	X226-X010-X017-XXXX
28	41	41	1	both	X226-X010-X029-XXXX X226-X010-X031-XXXX X226-X010-X034-XXXX
29	33	33	0	none	X226-X010-X030-XXXX
3	38	38	0	none	X200-X100-X031-XXXX
30	40	40	0	none	X226-X010-X029-XXXX X226-X010-X031-XXXX X226-X010-X034-XXXX
31	22	22	0	none	X200-X130-X010-XXXX
32	25	25	0	none	X200-X130-X010-XXXX
33	29	29	0	none	X200-X130-X010-XXXX
4	35	35	2	both	X200-X100-X032-XXXX
5	40	40	2	both	X200-X280-X008-XXXX
6	37	37	2	both	X200-X280-X008-XXXX
7	55	55	1	both	X200-X280-X008-XXXX
9	37	37	2	both	X200-X110-X008-XXXX
Totals for areas that were used for application	493	493	20		
Totals for areas that were not used for application	224	224	0		
Land application area totals	717	717	20		

B. CROPS AND HARVESTS

1

Field name: 1

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1

11/25/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 11/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	720.00 ton	As-is		66.3	6,100.00	1,300.00	9,800.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	244.00	52.00	392.00	1,361.48

06/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 06/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/21/2023	1,152.00 ton	As-is		67.7	3,700.00	800.00	4,200.00		5.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.00	236.80	51.20	268.80	1,074.94

10

Field name: 10

11/21/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 34 Plant date: 11/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	680.00 ton	As-is		64.7	5,700.00	1,000.00	6,900.00		8.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	228.00	40.00	276.00	1,256.68

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06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 34 Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	1,020.00 ton	As-is		68.6	4,400.00	800.00	5,200.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	264.00	48.00	312.00	1,356.48

2

Field name: 2

11/14/2022: Sugar beets

Crop: Sugar beets Acres planted: 37 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/01/2023	1,295.00 ton	As-is		50.0	3,500.00	1,500.00	22,400.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	40.00	280.00	36.00	600.00	0.00
Total actual harvest content	35.00	245.00	105.00	1,568.00	3,535.00

24

Field name: 24

11/20/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 37 Plant date: 11/20/2021

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

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Field name: 25

11/26/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 37 Plant date: 11/26/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	777.00 ton	As-is		64.2	5,800.00	1,100.00	7,200.00		8.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	21.00	243.60	46.20	302.40	1,278.06

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	1,110.00 ton	As-is		68.9	4,100.00	700.00	4,600.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	246.00	42.00	276.00	1,194.24

26

Field name: 26

11/02/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 52 Plant date: 11/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	1,040.00 ton	As-is		66.1	6,400.00	1,200.00	9,200.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	256.00	48.00	368.00	1,342.44

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26

06/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 52 Plant date: 06/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/21/2023	1,612.00 ton	As-is		67.7	4,100.00	800.00	4,700.00		8.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	31.00	254.20	49.60	291.40	1,622.11

27

Field name: 27

04/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 52 Plant date: 04/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/16/2023	1,456.00 ton	As-is		62.5	5,200.00	1,100.00	5,700.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	28.00	291.20	61.60	319.20	1,302.00

28

Field name: 28

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04/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 41 Plant date: 04/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/16/2023	1,148.00 ton	As-is		65.3	4,800.00	900.00	5,300.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	28.00	268.80	50.40	296.80	1,399.10

29

Field name: 29

03/01/2021: Pistachios

Crop: Pistachios Acres planted: 33 Plant date: 03/01/2021

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	2.00	150.00	40.00	200.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

3

Field name: 3

11/28/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 38 Plant date: 11/28/2020

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

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30

Field name: 30

03/01/2021: Pistachios

Crop: Pistachios Acres planted: 40 Plant date: 03/01/2021

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	2.00	150.00	40.00	200.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

31

Field name: 31

10/15/2015: Almond, in shell

Crop: Almond, in shell Acres planted: 22 Plant date: 10/15/2015

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.40	182.00	22.40	140.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

32

Field name: 32

10/15/2015: Almond, in shell

Crop: Almond, in shell Acres planted: 25 Plant date: 10/15/2015

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.40	182.00	22.40	140.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

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33

Field name: 33

10/10/2015: Almond, in shell

Crop: Almond, in shell Acres planted: 29 Plant date: 10/10/2015

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.40	182.00	22.40	140.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

4

Field name: 4

11/21/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 35 Plant date: 11/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	665.00 ton	As-is		65.9	6,600.00	1,200.00	9,100.00		9.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	19.00	250.80	45.60	345.80	1,243.97

06/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 35 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/21/2023	1,120.00 ton	As-is		68.3	3,800.00	700.00	3,900.00		5.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.00	243.20	44.80	249.60	1,054.98

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5

Field name: 5

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 40 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	760.00 ton	As-is		65.5	6,300.00	1,300.00	10,400.00		9.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	19.00	239.40	49.40	395.20	1,271.67

06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	1,200.00 ton	As-is		68.2	4,300.00	800.00	5,500.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	258.00	48.00	330.00	1,297.44

6

Field name: 6

11/24/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 37 Plant date: 11/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	740.00 ton	As-is		64.9	6,100.00	1,200.00	7,200.00		9.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	244.00	48.00	288.00	1,263.60

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06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/21/2023	1,110.00 ton	As-is		67.5	3,900.00	700.00	4,100.00		5.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	234.00	42.00	246.00	1,072.50

7

Field name: 7

04/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 55 Plant date: 04/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/16/2023	1,760.00 ton	As-is		67.2	4,400.00	1,000.00	5,400.00		6.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	32.00	281.60	64.00	345.60	1,406.46

9

Field name: 9

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9

11/03/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 37 Plant date: 11/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	740.00 ton	As-is		64.7	6,600.00	1,200.00	7,200.00		9.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	264.00	48.00	288.00	1,313.16

06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	1,147.00 ton	As-is		68.2	4,100.00	1,000.00	4,900.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	31.00	254.20	62.00	303.80	1,498.42

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NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 11/25/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
07/27/2022	Broadcast/incorporate	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	96.00	33.60	136.80	0.00	108.00 <i>ton</i>
Application event totals			96.00	33.60	136.80	0.00	
11/26/2022	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
Process Wastewater		Process wastewater	90.69	18.18	74.74	341.57	433,381.83 <i>gal</i>
IW 6		Ground water	27.79	0.00	0.00	426.67	3,600,653.55 <i>gal</i>
IW 30		Ground water	27.97	0.00	0.00	490.13	5,972,848.83 <i>gal</i>
Application event totals			146.45	18.18	74.74	1,258.37	
03/04/2023	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
Process Wastewater		Process wastewater	30.27	6.06	37.75	222.01	286,748.88 <i>gal</i>
Canal		Surface water	0.51	0.00	0.00	135.63	11,039,831.88 <i>gal</i>
Application event totals			30.78	6.06	37.75	357.64	

1 - 06/24/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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1 - 06/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	90.00	26.40	90.00	0.00	108.00 <i>ton</i>
Application event totals		90.00	26.40	90.00	0.00	
06/03/2023	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
Process Wastewater	Process wastewater	155.83	26.93	148.69	515.14	505,069.05 <i>gal</i>
Canal	Surface water	1.84	0.00	0.00	488.72	39,779,890.08 <i>gal</i>
Application event totals		157.67	26.93	148.69	1,003.87	
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
Process Wastewater	Process wastewater	34.86	4.71	39.13	272.53	358,436.10 <i>gal</i>
Application event totals		34.86	4.71	39.13	272.53	

10 - 11/21/2022: Wheat, silage, soft dough

Field name: 10

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/11/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	96.00	33.60	136.80	0.00	102.00 <i>ton</i>
Application event totals		96.00	33.60	136.80	0.00	

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10 - 11/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/22/2022	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
Process Wastewater	Process wastewater	63.53	12.74	52.36	239.29	286,748.88 <i>gal</i>
IW 6	Ground water	24.29	0.00	0.00	372.87	2,971,761.12 <i>gal</i>
IW 37	Ground water	6.71	0.00	0.00	273.93	5,471,038.29 <i>gal</i>
Application event totals		94.53	12.74	52.36	886.09	
03/07/2023	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
Process Wastewater	Process wastewater	80.49	16.12	100.39	590.34	720,130.71 <i>gal</i>
Canal	Surface water	0.51	0.00	0.00	134.24	10,319,701.17 <i>gal</i>
Application event totals		81.00	16.12	100.39	724.59	

10 - 06/16/2023: Corn, silage

Field name: 10

Crop: Corn, silage

Plant date: 06/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	90.00	26.40	90.00	0.00	102.00 <i>ton</i>
Application event totals		90.00	26.40	90.00	0.00	
05/28/2023	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
Process Wastewater	Process wastewater	141.58	24.47	135.09	468.03	433,381.83 <i>gal</i>
Canal	Surface water	1.84	0.00	0.00	487.12	37,446,796.92 <i>gal</i>
Application event totals		143.42	24.47	135.09	955.15	

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10 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
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
Process Wastewater		Process wastewater	59.06	7.98	66.30	461.69	573,497.76 <i>gal</i>
Application event totals			59.06	7.98	66.30	461.69	

2 - 11/14/2022: Sugar beets

Field name: 2

Crop: Sugar beets

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/04/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	128.00	44.80	182.40	0.00	148.00 <i>ton</i>
Application event totals		128.00	44.80	182.40	0.00	
11/15/2022	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
Process Wastewater	Process wastewater	58.38	11.71	48.12	219.89	286,748.88 <i>gal</i>
IW 6	Ground water	27.04	0.00	0.00	415.14	3,600,653.55 <i>gal</i>
IW 30	Ground water	27.21	0.00	0.00	476.88	5,972,848.83 <i>gal</i>
Application event totals		112.64	11.71	48.12	1,111.91	
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
Process Wastewater	Process wastewater	29.45	5.90	36.73	216.01	286,748.88 <i>gal</i>
Canal	Surface water	1.22	0.00	0.00	324.15	27,117,320.22 <i>gal</i>
Application event totals		30.68	5.90	36.73	540.16	

24 - 11/20/2021: Alfalfa, hay

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24 - 11/20/2021: Alfalfa, hay

Field name: 24

Crop: Alfalfa, hay

Plant date: 11/20/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/08/2023	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	2.52	0.00	0.00	666.88	55,788,949.71 gal
Application event totals		2.52	0.00	0.00	666.88	

25 - 11/26/2022: Wheat, silage, soft dough

Field name: 25

Crop: Wheat, silage, soft dough

Plant date: 11/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/19/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	128.00	44.80	182.40	0.00	148.00 ton
Application event totals		128.00	44.80	182.40	0.00	

11/27/2022	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
Process Wastewater	Process wastewater	65.68	13.17	54.13	247.38	322,592.49 gal
IW 33	Ground water	4.94	0.00	0.00	188.63	5,340,697.89 gal
IW 38	Ground water	0.26	0.00	0.00	118.89	3,887,402.43 gal
Application event totals		70.88	13.17	54.13	554.90	

03/02/2023	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
Process Wastewater	Process wastewater	73.97	14.81	92.25	542.48	720,130.71 gal
Canal	Surface water	0.51	0.00	0.00	134.85	11,280,961.62 gal
Application event totals		74.47	14.81	92.25	677.33	

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25 - 06/14/2023: Corn, silage

Field name: 25

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
05/25/2023	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
Process Wastewater		Process wastewater	64.56	11.16	61.60	213.42	215,061.66 <i>gal</i>
Canal		Surface water	1.85	0.00	0.00	490.55	41,037,674.94 <i>gal</i>
Application event totals			66.41	11.16	61.60	703.97	
05/21/2023	Broadcast/incorporate		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	180.00	52.80	180.00	0.00	222.00 <i>ton</i>
Application event totals			180.00	52.80	180.00	0.00	
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
Process Wastewater		Process wastewater	50.88	6.88	57.11	397.74	537,654.15 <i>gal</i>
Application event totals			50.88	6.88	57.11	397.74	

26 - 11/02/2022: Wheat, silage, soft dough

Field name: 26

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/27/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	160.00	56.00	228.00	0.00	260.00 <i>ton</i>
Application event totals		160.00	56.00	228.00	0.00	

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26 - 11/02/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
11/03/2022	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	
Process Wastewater		Process wastewater	41.54	8.33	34.24	156.46	286,748.88 <i>gal</i>	
IW 33		Ground water	5.21	0.00	0.00	198.83	7,911,662.28 <i>gal</i>	
IW 38		Ground water	0.28	0.00	0.00	125.37	5,761,045.68 <i>gal</i>	
Application event totals			47.02	8.33	34.24	480.66		
03/06/2023	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	
Process Wastewater		Process wastewater	78.82	15.79	98.31	578.12	1,078,566.81 <i>gal</i>	
Canal		Surface water	0.50	0.00	0.00	131.67	15,481,181.01 <i>gal</i>	
Application event totals			79.32	15.79	98.31	709.79		

26 - 06/29/2023: Corn, silage

Field name: 26

Crop: Corn, silage

Plant date: 06/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	90.00	26.40	90.00	0.00	156.00 <i>ton</i>
Application event totals		90.00	26.40	90.00	0.00	
06/06/2023	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
Process Wastewater	Process wastewater	138.51	23.93	132.16	457.88	648,443.49 <i>gal</i>
Canal	Surface water	1.83	0.00	0.00	484.85	57,004,373.94 <i>gal</i>
Application event totals		140.34	23.93	132.16	942.73	

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26 - 06/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Process Wastewater	Process wastewater	77.67	10.50	87.19	607.18	1,153,512.54 <i>gal</i>
Application event totals		77.67	10.50	87.19	607.18	

27 - 04/21/2023: Corn, silage

Field name: 27

Crop: Corn, silage

Plant date: 04/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/11/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	96.00	33.60	136.80	0.00	156.00 <i>ton</i>
Application event totals		96.00	33.60	136.80	0.00	
03/28/2023	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
Process Wastewater	Process wastewater	70.97	14.21	88.51	520.48	971,035.98 <i>gal</i>
Canal	Surface water	1.97	0.00	0.00	522.10	61,383,811.38 <i>gal</i>
Application event totals		72.94	14.21	88.51	1,042.58	
05/20/2023	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
Process Wastewater	Process wastewater	138.51	23.93	132.16	457.88	648,443.49 <i>gal</i>
Application event totals		138.51	23.93	132.16	457.88	

28 - 04/22/2023: Corn, silage

Field name: 28

Crop: Corn, silage

Plant date: 04/22/2023

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28 - 04/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/19/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	96.00	33.60	136.80	0.00	123.00 <i>ton</i>
Application event totals		96.00	33.60	136.80	0.00	
03/30/2023	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
Process Wastewater	Process wastewater	53.46	10.71	66.68	392.09	576,756.27 <i>gal</i>
Canal	Surface water	2.02	0.00	0.00	536.47	49,731,379.62 <i>gal</i>
Application event totals		55.48	10.71	66.68	928.56	
05/22/2023	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
Process Wastewater	Process wastewater	145.65	25.17	138.98	481.50	537,654.15 <i>gal</i>
Application event totals		145.65	25.17	138.98	481.50	

29 - 03/01/2021: Pistachios

Field name: 29

Crop: Pistachios

Plant date: 03/01/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/05/2023	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	0.54	0.00	0.00	143.51	10,707,463.86 <i>gal</i>
Application event totals		0.54	0.00	0.00	143.51	

3 - 11/28/2020: Alfalfa, hay

Field name: 3

Crop: Alfalfa, hay

Plant date: 11/28/2020

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3 - 11/28/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
03/06/2023	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	2.50	0.00	0.00	663.29	56,988,081.39 <i>gal</i>
Application event totals			2.50	0.00	0.00	663.29	

30 - 03/01/2021: Pistachios

Field name: 30

Crop: Pistachios

Plant date: 03/01/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
03/05/2023	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	0.55	0.00	0.00	145.24	13,135,053.81 <i>gal</i>
Application event totals			0.55	0.00	0.00	145.24	

31 - 10/15/2015: Almond, in shell

Field name: 31

Crop: Almond, in shell

Plant date: 10/15/2015

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
03/01/2023	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	2.21	0.00	0.00	585.25	29,111,528.34 <i>gal</i>
Application event totals			2.21	0.00	0.00	585.25	

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31 - 10/15/2015: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Commercial Fertilizer	Liquid commercial fertilizer	185.00	0.00	0.00	0.00	
Application event totals		185.00	0.00	0.00	0.00	

32 - 10/15/2015: Almond, in shell

Field name: 32

Crop: Almond, in shell

Plant date: 10/15/2015

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
03/01/2023	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	2.20	0.00	0.00	584.32	33,028,257.36 <i>gal</i>
Application event totals			2.20	0.00	0.00	584.32	
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
Commercial Fertilizer		Liquid commercial fertilizer	185.00	0.00	0.00	0.00	
Application event totals			185.00	0.00	0.00	0.00	

33 - 10/10/2015: Almond, in shell

Field name: 33

Crop: Almond, in shell

Plant date: 10/10/2015

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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33 - 10/10/2015: Almond, in shell

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following		
03/01/2023	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	2.22	0.00	0.00	587.96	38,551,431.81 <i>gal</i>
Application event totals				2.22	0.00	0.00	587.96	
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
Commercial Fertilizer			Liquid commercial fertilizer	180.00	0.00	0.00	0.00	
Application event totals				180.00	0.00	0.00	0.00	

4 - 11/21/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/04/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	96.00	33.60	136.80	0.00	105.00 <i>ton</i>
Application event totals		96.00	33.60	136.80	0.00	
11/22/2022	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
Process Wastewater	Process wastewater	154.99	31.08	127.74	583.78	720,130.71 <i>gal</i>
IW 37	Ground water	10.30	0.00	0.00	420.32	8,641,568.52 <i>gal</i>
Application event totals		165.30	31.08	127.74	1,004.10	

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4 - 11/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/05/2023	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
Process Wastewater	Process wastewater	15.57	3.12	19.42	114.18	143,374.44 <i>gal</i>
Canal	Surface water	0.53	0.00	0.00	139.51	11,039,831.88 <i>gal</i>
Application event totals		16.09	3.12	19.42	253.68	

4 - 06/26/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	90.00	26.40	90.00	0.00	105.00 <i>ton</i>
Application event totals		90.00	26.40	90.00	0.00	
06/05/2023	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
Process Wastewater	Process wastewater	160.28	27.70	152.94	529.86	505,069.05 <i>gal</i>
Canal	Surface water	1.82	0.00	0.00	483.05	38,225,580.81 <i>gal</i>
Application event totals		162.11	27.70	152.94	1,012.91	
07/23/2023	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
Process Wastewater	Process wastewater	43.03	5.81	48.30	336.38	430,123.32 <i>gal</i>
Application event totals		43.03	5.81	48.30	336.38	

5 - 11/22/2022: Wheat, silage, soft dough

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5 - 11/22/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/04/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	96.00	33.60	136.80	0.00	120.00 <i>ton</i>
Application event totals		96.00	33.60	136.80	0.00	
11/22/2022	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
Process Wastewater	Process wastewater	101.87	20.43	83.96	383.68	540,912.66 <i>gal</i>
IW 6	Ground water	25.83	0.00	0.00	396.52	3,717,959.91 <i>gal</i>
IW 30	Ground water	25.99	0.00	0.00	455.55	6,168,359.43 <i>gal</i>
Application event totals		153.69	20.43	83.96	1,235.75	
03/08/2023	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
Process Wastewater	Process wastewater	17.03	3.41	21.24	124.88	179,218.05 <i>gal</i>
Canal	Surface water	0.54	0.00	0.00	142.61	12,897,182.58 <i>gal</i>
Application event totals		17.57	3.41	21.24	267.49	

5 - 06/16/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/27/2023	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
Process Wastewater	Process wastewater	140.25	24.24	133.82	463.63	505,069.05 <i>gal</i>
Canal	Surface water	1.86	0.00	0.00	492.96	44,582,933.82 <i>gal</i>
Application event totals		142.11	24.24	133.82	956.59	

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5 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	90.00	26.40	90.00	0.00	120.00 <i>ton</i>
Application event totals		90.00	26.40	90.00	0.00	
07/13/2023	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
Process Wastewater	Process wastewater	62.75	8.48	70.44	490.55	716,872.20 <i>gal</i>
Application event totals		62.75	8.48	70.44	490.55	

6 - 11/24/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/04/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	96.00	33.60	136.80	0.00	111.00 <i>ton</i>
Application event totals		96.00	33.60	136.80	0.00	
11/25/2022	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
Process Wastewater	Process wastewater	88.23	17.69	72.72	332.33	433,381.83 <i>gal</i>
IW 34	Ground water	1.93	0.00	0.00	189.40	4,744,390.56 <i>gal</i>
IW 37	Ground water	5.12	0.00	0.00	208.70	4,535,845.92 <i>gal</i>
Application event totals		95.28	17.69	72.72	730.43	

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6 - 11/24/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/09/2023	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
Process Wastewater	Process wastewater	73.97	14.81	92.25	542.48	720,130.71 <i>gal</i>
Canal	Surface water	0.51	0.00	0.00	134.85	11,280,961.62 <i>gal</i>
Application event totals		74.47	14.81	92.25	677.33	

6 - 06/20/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	150.00	44.00	150.00	0.00	185.00 <i>ton</i>
Application event totals		150.00	44.00	150.00	0.00	
05/31/2023	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
Process Wastewater	Process wastewater	64.56	11.16	61.60	213.42	215,061.66 <i>gal</i>
Canal	Surface water	1.85	0.00	0.00	489.19	40,923,627.09 <i>gal</i>
Application event totals		66.41	11.16	61.60	702.61	
07/15/2023	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
Process Wastewater	Process wastewater	41.01	5.54	46.04	320.60	433,381.83 <i>gal</i>
Application event totals		41.01	5.54	46.04	320.60	

7 - 04/20/2023: Corn, silage

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7 - 04/20/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 04/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/19/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	96.00	33.60	136.80	0.00	165.00 <i>ton</i>
Application event totals		96.00	33.60	136.80	0.00	
03/28/2023	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
Process Wastewater	Process wastewater	56.06	11.23	69.92	411.18	811,368.99 <i>gal</i>
Canal	Surface water	1.98	0.00	0.00	524.99	65,284,247.85 <i>gal</i>
Application event totals		58.04	11.23	69.92	936.16	
06/02/2023	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
Process Wastewater	Process wastewater	152.67	26.38	145.67	504.69	755,974.32 <i>gal</i>
Application event totals		152.67	26.38	145.67	504.69	

9 - 11/03/2022: Wheat, silage, soft dough

Field name: 9

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/27/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	160.00	56.00	228.00	0.00	185.00 <i>ton</i>
Application event totals		160.00	56.00	228.00	0.00	

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9 - 11/03/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/04/2022	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
Process Wastewater	Process wastewater	21.89	4.39	18.04	82.46	107,530.83 <i>gal</i>
IW 6	Ground water	21.14	0.00	0.00	324.60	2,815,352.64 <i>gal</i>
IW 35	Ground water	8.33	0.00	0.00	336.79	6,481,176.39 <i>gal</i>
Application event totals		51.37	4.39	18.04	743.85	
03/04/2023	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
Process Wastewater	Process wastewater	73.97	14.81	92.25	542.48	720,130.71 <i>gal</i>
Canal	Surface water	0.51	0.00	0.00	134.85	11,280,961.62 <i>gal</i>
Application event totals		74.47	14.81	92.25	677.33	

9 - 06/16/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 06/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/27/2023	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
Process Wastewater	Process wastewater	75.32	13.02	71.87	248.99	250,905.27 <i>gal</i>
Canal	Surface water	1.88	0.00	0.00	497.68	41,633,982.27 <i>gal</i>
Application event totals		77.20	13.02	71.87	746.67	
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	180.00	52.80	180.00	0.00	222.00 <i>ton</i>
Application event totals		180.00	52.80	180.00	0.00	

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9 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Process Wastewater	Process wastewater	50.88	6.88	57.11	397.74	537,654.15 <i>gal</i>
Application event totals		50.88	6.88	57.11	397.74	

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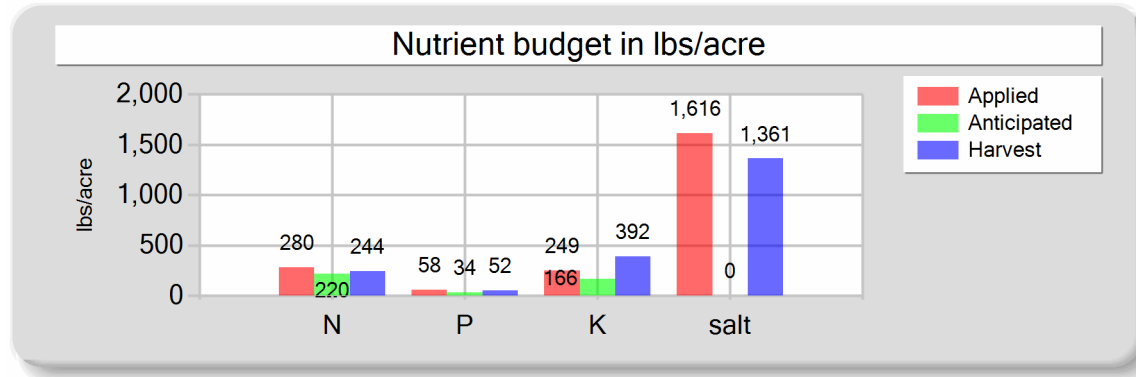
B. NUTRIENT BUDGET

1 - 11/25/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022



	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	20,613,334.26 gallons
Plowdown credit	0.00	0.00	0.00	0.00	759.12 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	21.09 inches/acre
Dry manure	96.00	33.60	136.80	0.00	
Process wastewater	120.96	24.25	112.50	563.57	
Fresh water	56.27	0.00	0.00	1,052.43	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	280.23	57.85	249.30	1,616.01	
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00	
Actual crop nutrient removal	244.00	52.00	392.00	1,361.48	
Nutrient balance	36.23	5.85	-142.70	254.53	
Applied to removed ratio	1.15	1.11	0.64	1.19	
					Process wastewater applied
					720,130.71 gallons
					26.52 acre-inches
					0.74 inches/acre
					Total harvests for the crop
					1 harvests

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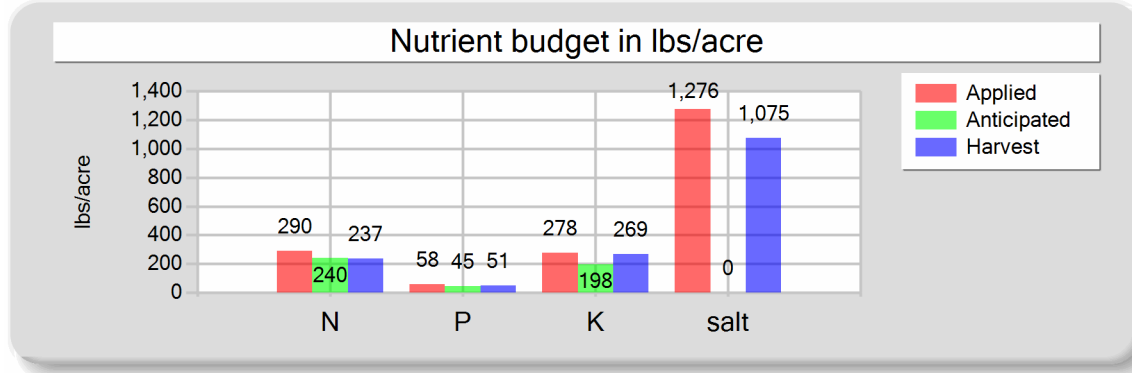
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1 - 06/24/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/24/2023



	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	90.00	26.40	90.00	0.00
Process wastewater	190.69	31.64	187.82	787.67
Fresh water	1.84	0.00	0.00	488.72
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	289.54	58.04	277.82	1,276.39
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	236.80	51.20	268.80	1,074.94
Nutrient balance	52.74	6.84	9.02	201.45
Applied to removed ratio	1.22	1.13	1.03	1.19

Fresh water applied
39,779,890.08 gallons
1,464.96 acre-inches
40.69 inches/acre

Process wastewater applied
863,505.15 gallons
31.80 acre-inches
0.88 inches/acre

Total harvests for the crop
1 harvests

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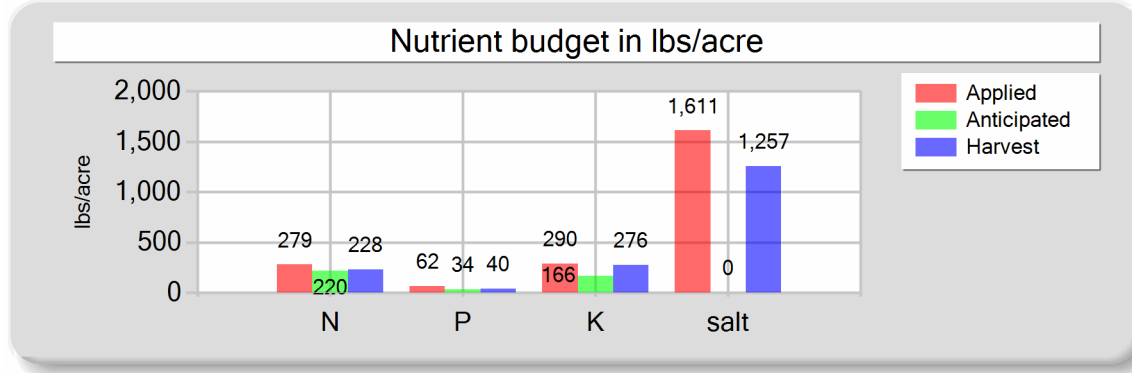
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10 - 11/21/2022: Wheat, silage, soft dough

Field name: 10

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022



	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	96.00	33.60	136.80	0.00
Process wastewater	144.02	28.86	152.76	829.64
Fresh water	31.51	0.00	0.00	781.04
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	278.53	62.46	289.56	1,610.68
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	228.00	40.00	276.00	1,256.68
Nutrient balance	50.53	22.46	13.56	354.00
Applied to removed ratio	1.22	1.56	1.05	1.28

Fresh water applied
18,762,500.58 gallons
690.96 acre-inches
20.32 inches/acre

Process wastewater applied
1,006,879.59 gallons
37.08 acre-inches
1.09 inches/acre

Total harvests for the crop
1 harvests

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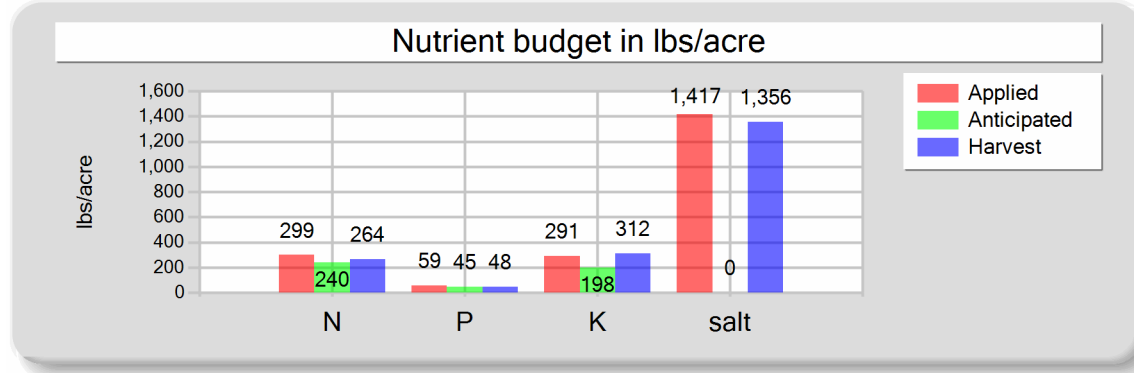
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10 - 06/16/2023: Corn, silage

Field name: 10

Crop: Corn, silage

Plant date: 06/16/2023



	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	37,446,796.92 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,379.04 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	40.56 inches/acre
Dry manure	90.00	26.40	90.00	0.00	
Process wastewater	200.64	32.45	201.39	929.72	
Fresh water	1.84	0.00	0.00	487.12	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	299.48	58.85	291.39	1,416.84	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	264.00	48.00	312.00	1,356.48	
Nutrient balance	35.48	10.85	-20.61	60.36	
Applied to removed ratio	1.13	1.23	0.93	1.04	
					Process wastewater applied
					1,006,879.59 gallons
					37.08 acre-inches
					1.09 inches/acre
					Total harvests for the crop
					1 harvests

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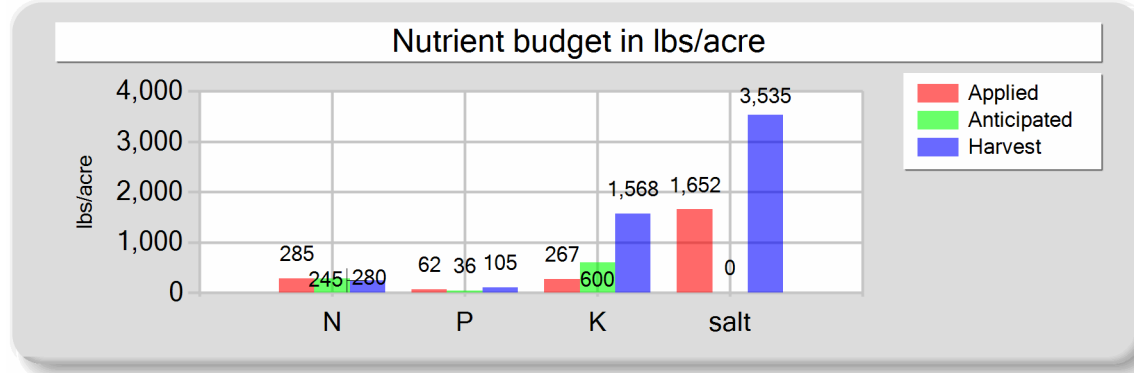
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2 - 11/14/2022: Sugar beets

Field name: 2

Crop: Sugar beets

Plant date: 11/14/2022



	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	128.00	44.80	182.40	0.00
Process wastewater	87.83	17.60	84.85	435.90
Fresh water	55.48	0.00	0.00	1,216.17
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	285.31	62.40	267.25	1,652.07
Anticipated crop nutrient removal	280.00	36.00	600.00	0.00
Actual crop nutrient removal	245.00	105.00	1,568.00	3,535.00
Nutrient balance	40.31	-42.60	-1,300.75	-1,882.93
Applied to removed ratio	1.16	0.59	0.17	0.47

Fresh water applied
36,690,822.60 gallons
1,351.20 acre-inches
36.52 inches/acre

Process wastewater applied
573,497.76 gallons
21.12 acre-inches
0.57 inches/acre

Total harvests for the crop
1 harvests

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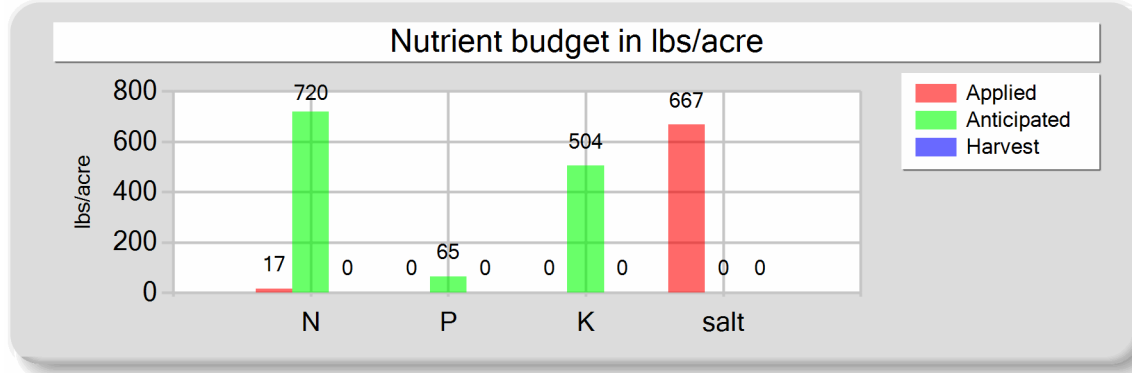
Reporting period 01/01/2023 to 12/31/2023.

24 - 11/20/2021: Alfalfa, hay

Field name: 24

Crop: Alfalfa, hay

Plant date: 11/20/2021



	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	55,788,949.71 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,054.52 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	55.53 <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	2.52	0.00	0.00	666.88	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	16.52	0.00	0.00	666.88	
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	16.52	0.00	0.00	666.88	
Applied to removed ratio	0.00	0.00	0.00	0.00	
					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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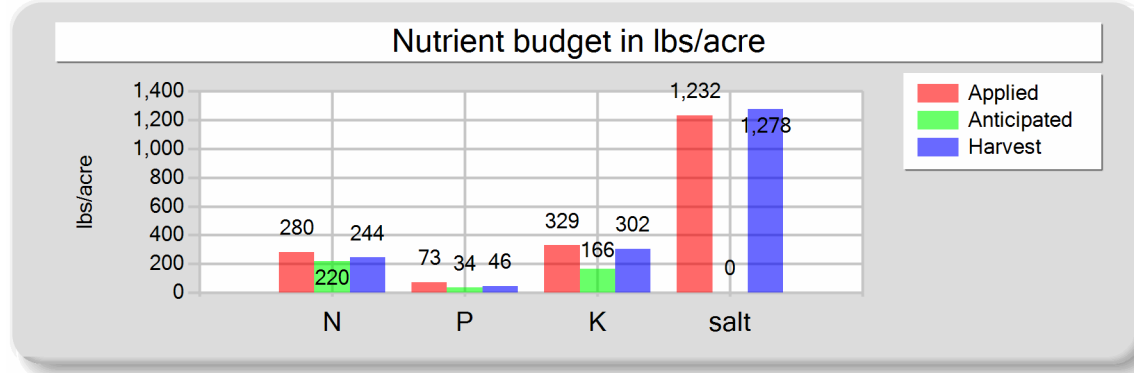
Reporting period 01/01/2023 to 12/31/2023.

25 - 11/26/2022: Wheat, silage, soft dough

Field name: 25

Crop: Wheat, silage, soft dough

Plant date: 11/26/2022



	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	128.00	44.80	182.40	0.00
Process wastewater	139.64	27.98	146.39	789.85
Fresh water	5.71	0.00	0.00	442.37
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	280.35	72.78	328.79	1,232.22
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	243.60	46.20	302.40	1,278.06
Nutrient balance	36.75	26.58	26.39	-45.84
Applied to removed ratio	1.15	1.58	1.09	0.96

Fresh water applied
20,509,061.94 gallons
755.28 acre-inches
20.41 inches/acre

Process wastewater applied
1,042,723.20 gallons
38.40 acre-inches
1.04 inches/acre

Total harvests for the crop
1 harvests

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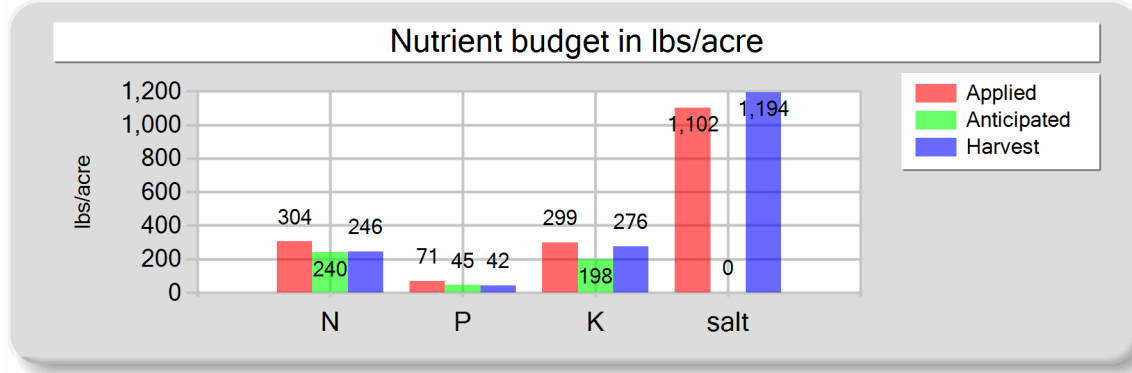
Reporting period 01/01/2023 to 12/31/2023.

25 - 06/14/2023: Corn, silage

Field name: 25

Crop: Corn, silage

Plant date: 06/14/2023



	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	180.00	52.80	180.00	0.00
Process wastewater	115.44	18.03	118.72	611.16
Fresh water	1.85	0.00	0.00	490.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.29	70.83	298.72	1,101.71
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	246.00	42.00	276.00	1,194.24
Nutrient balance	58.29	28.83	22.72	-92.53
Applied to removed ratio	1.24	1.69	1.08	0.92

Fresh water applied
41,037,674.94 gallons
1,511.28 acre-inches
40.85 inches/acre

Process wastewater applied
752,715.81 gallons
27.72 acre-inches
0.75 inches/acre

Total harvests for the crop
1 harvests

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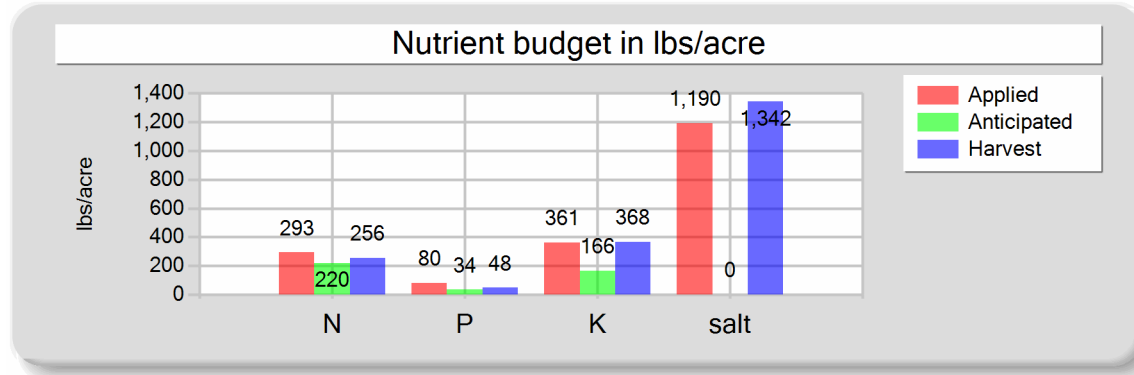
Reporting period 01/01/2023 to 12/31/2023.

26 - 11/02/2022: Wheat, silage, soft dough

Field name: 26

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022



	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	160.00	56.00	228.00	0.00
Process wastewater	120.36	24.11	132.55	734.58
Fresh water	5.98	0.00	0.00	455.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	293.34	80.11	360.55	1,190.45
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	256.00	48.00	368.00	1,342.44
Nutrient balance	37.34	32.11	-7.45	-151.99
Applied to removed ratio	1.15	1.67	0.98	0.89

Fresh water applied
29,153,888.97 <i>gallons</i>
1,073.64 <i>acre-inches</i>
20.65 <i>inches/acre</i>

Process wastewater applied
1,365,315.69 <i>gallons</i>
50.28 <i>acre-inches</i>
0.97 <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.

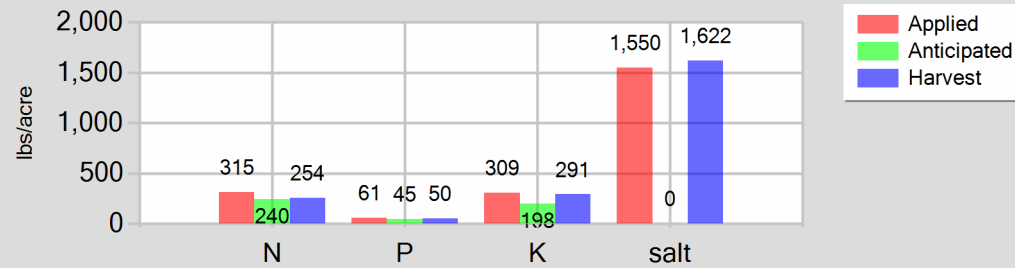
26 - 06/29/2023: Corn, silage

Field name: 26

Crop: Corn, silage

Plant date: 06/29/2023

Nutrient budget in lbs/acre



	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	90.00	26.40	90.00	0.00
Process wastewater	216.18	34.43	219.35	1,065.06
Fresh water	1.83	0.00	0.00	484.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	315.01	60.83	309.35	1,549.91
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	254.20	49.60	291.40	1,622.11
Nutrient balance	60.81	11.23	17.95	-72.20
Applied to removed ratio	1.24	1.23	1.06	0.96

Fresh water applied
57,004,373.94 gallons
2,099.28 acre-inches
40.37 inches/acre
Process wastewater applied
1,801,956.03 gallons
66.36 acre-inches
1.28 inches/acre
Total harvests for the crop
1 harvests

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

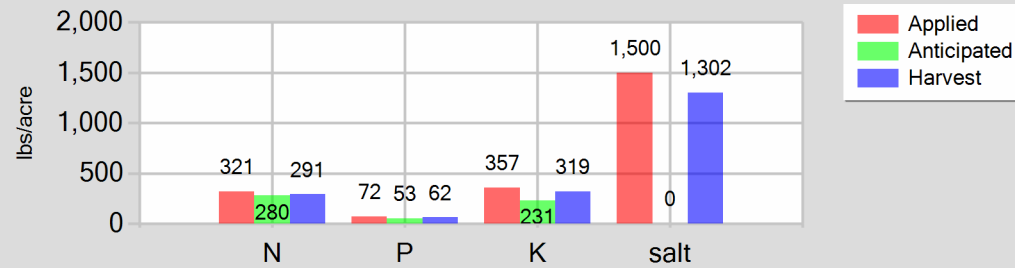
27 - 04/21/2023: Corn, silage

Field name: 27

Crop: Corn, silage

Plant date: 04/21/2023

Nutrient budget in lbs/acre



	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	96.00	33.60	136.80	0.00
Process wastewater	209.47	38.15	220.67	978.36
Fresh water	1.97	0.00	0.00	522.10
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	321.44	71.75	357.47	1,500.46
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	291.20	61.60	319.20	1,302.00
Nutrient balance	30.24	10.15	38.27	198.46
Applied to removed ratio	1.10	1.16	1.12	1.15

Fresh water applied
61,383,811.38 <i>gallons</i>
2,260.56 <i>acre-inches</i>
43.47 <i>inches/acre</i>
Process wastewater applied
1,619,479.47 <i>gallons</i>
59.64 <i>acre-inches</i>
1.15 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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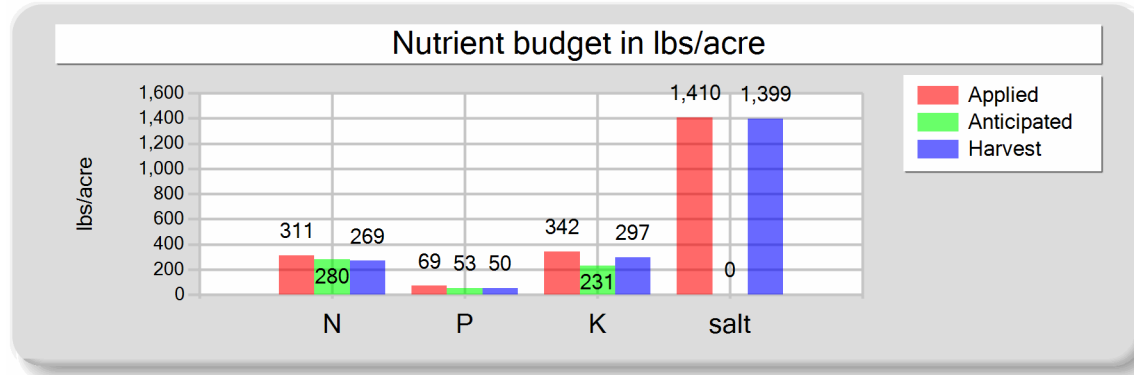
Reporting period 01/01/2023 to 12/31/2023.

28 - 04/22/2023: Corn, silage

Field name: 28

Crop: Corn, silage

Plant date: 04/22/2023



	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	96.00	33.60	136.80	0.00
Process wastewater	199.11	35.88	205.66	873.59
Fresh water	2.02	0.00	0.00	536.47
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	311.14	69.48	342.46	1,410.06
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	268.80	50.40	296.80	1,399.10
Nutrient balance	42.34	19.08	45.66	10.96
Applied to removed ratio	1.16	1.38	1.15	1.01

Fresh water applied
49,731,379.62 gallons
1,831.44 acre-inches
44.67 inches/acre

Process wastewater applied
1,114,410.42 gallons
41.04 acre-inches
1.00 inches/acre

Total harvests for the crop
1 harvests

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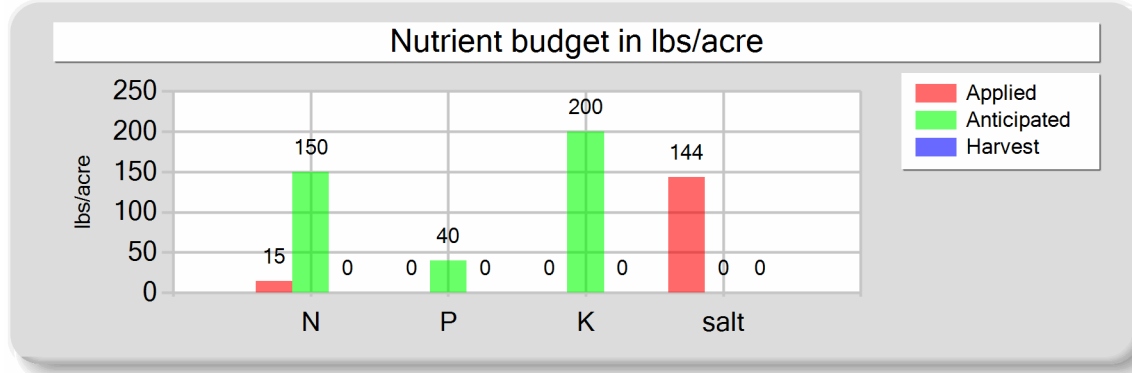
Reporting period 01/01/2023 to 12/31/2023.

29 - 03/01/2021: Pistachios

Field name: 29

Crop: Pistachios

Plant date: 03/01/2021



	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	10,707,463.86 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	394.32 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	11.95 <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	0.54	0.00	0.00	143.51	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	14.54	0.00	0.00	143.51	
Anticipated crop nutrient removal	150.00	40.00	200.00	0.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	14.54	0.00	0.00	143.51	
Applied to removed ratio	0.00	0.00	0.00	0.00	
					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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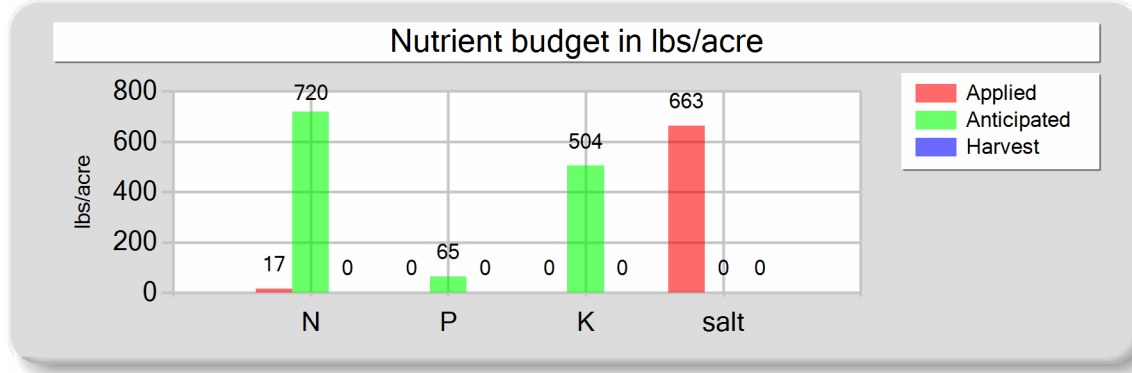
Reporting period 01/01/2023 to 12/31/2023.

3 - 11/28/2020: Alfalfa, hay

Field name: 3

Crop: Alfalfa, hay

Plant date: 11/28/2020



	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	56,988,081.39 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,098.68 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	55.23 <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	2.50	0.00	0.00	663.29	0.00 <i>gallons</i>
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Total nutrients applied	16.50	0.00	0.00	663.29	0.00 <i>inches/acre</i>
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	16.50	0.00	0.00	663.29	
Applied to removed ratio	0.00	0.00	0.00	0.00	
					Total harvests for the crop
					1 <i>harvests</i>

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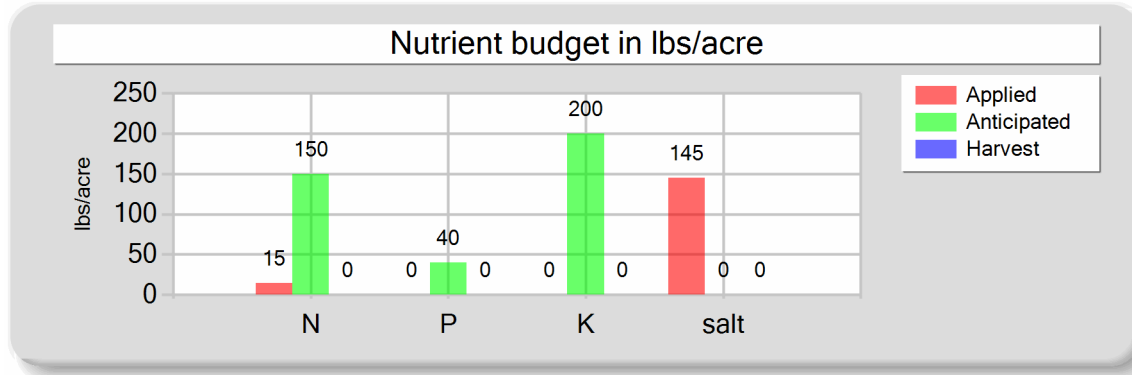
Reporting period 01/01/2023 to 12/31/2023.

30 - 03/01/2021: Pistachios

Field name: 30

Crop: Pistachios

Plant date: 03/01/2021



	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	13,135,053.81 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	483.72 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.09 <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	0.55	0.00	0.00	145.24	0.00 <i>gallons</i>
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Total nutrients applied	14.55	0.00	0.00	145.24	0.00 <i>inches/acre</i>
Anticipated crop nutrient removal	150.00	40.00	200.00	0.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	14.55	0.00	0.00	145.24	
Applied to removed ratio	0.00	0.00	0.00	0.00	
					Total harvests for the crop
					1 <i>harvests</i>

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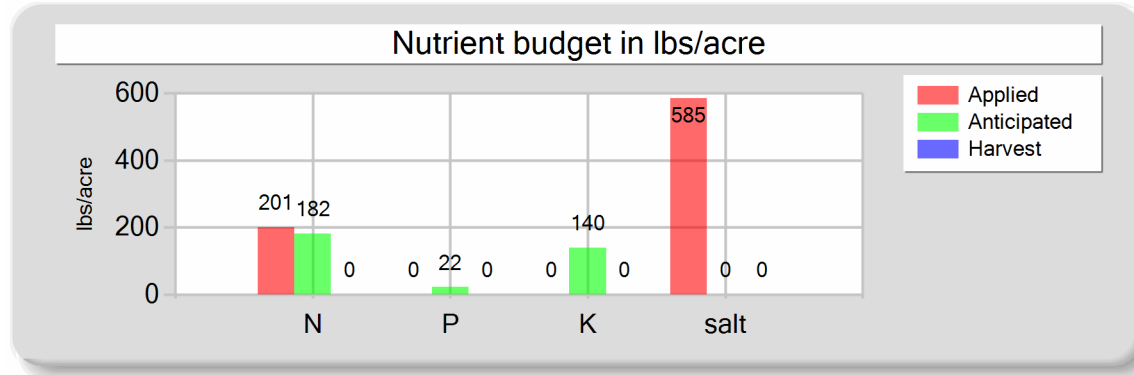
Reporting period 01/01/2023 to 12/31/2023.

31 - 10/15/2015: Almond, in shell

Field name: 31

Crop: Almond, in shell

Plant date: 10/15/2015



	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	29,111,528.34 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,072.08 <i>acre-inches</i>
Commercial fertilizer / Other	185.00	0.00	0.00	0.00	48.73 <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	2.21	0.00	0.00	585.25	0.00 <i>gallons</i>
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Total nutrients applied	201.21	0.00	0.00	585.25	0.00 <i>inches/acre</i>
Anticipated crop nutrient removal	182.00	22.40	140.00	0.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	201.21	0.00	0.00	585.25	
Applied to removed ratio	0.00	0.00	0.00	0.00	
					Total harvests for the crop
					1 <i>harvests</i>

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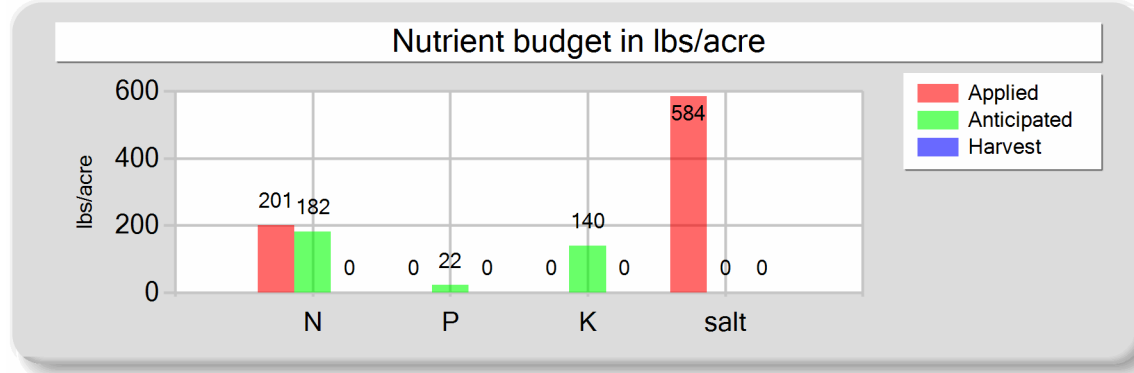
Reporting period 01/01/2023 to 12/31/2023.

32 - 10/15/2015: Almond, in shell

Field name: 32

Crop: Almond, in shell

Plant date: 10/15/2015



	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	33,028,257.36 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,216.32 <i>acre-inches</i>
Commercial fertilizer / Other	185.00	0.00	0.00	0.00	48.65 <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	2.20	0.00	0.00	584.32	0.00 <i>gallons</i>
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Total nutrients applied	201.20	0.00	0.00	584.32	0.00 <i>inches/acre</i>
Anticipated crop nutrient removal	182.00	22.40	140.00	0.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	201.20	0.00	0.00	584.32	
Applied to removed ratio	0.00	0.00	0.00	0.00	
					Total harvests for the crop
					1 <i>harvests</i>

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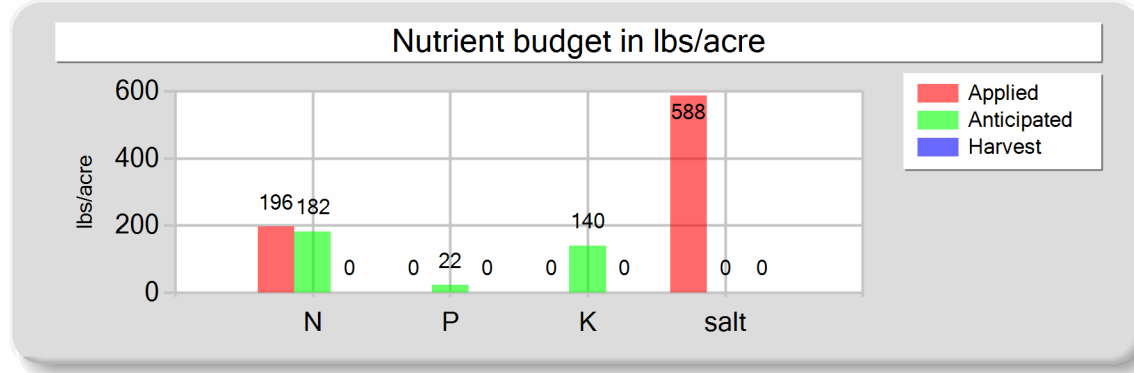
Reporting period 01/01/2023 to 12/31/2023.

33 - 10/10/2015: Almond, in shell

Field name: 33

Crop: Almond, in shell

Plant date: 10/10/2015



	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	38,551,431.81 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,419.72 <i>acre-inches</i>
Commercial fertilizer / Other	180.00	0.00	0.00	0.00	48.96 <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	2.22	0.00	0.00	587.96	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	196.22	0.00	0.00	587.96	
Anticipated crop nutrient removal	182.00	22.40	140.00	0.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	196.22	0.00	0.00	587.96	
Applied to removed ratio	0.00	0.00	0.00	0.00	
					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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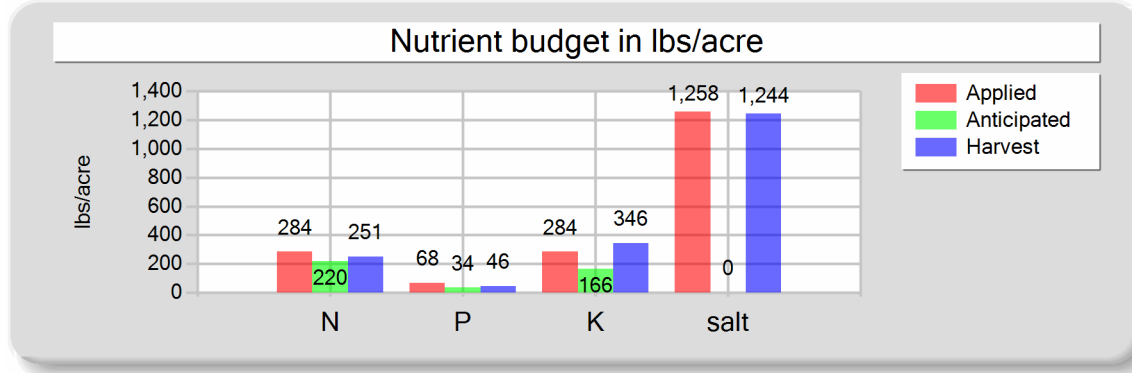
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/21/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022



	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	96.00	33.60	136.80	0.00
Process wastewater	170.56	34.20	147.16	697.96
Fresh water	10.83	0.00	0.00	559.83
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	284.39	67.80	283.96	1,257.78
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	250.80	45.60	345.80	1,243.97
Nutrient balance	33.59	22.20	-61.84	13.82
Applied to removed ratio	1.13	1.49	0.82	1.01

Fresh water applied
19,681,400.40 gallons
724.80 acre-inches
20.71 inches/acre

Process wastewater applied
863,505.15 gallons
31.80 acre-inches
0.91 inches/acre

Total harvests for the crop
1 harvests

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

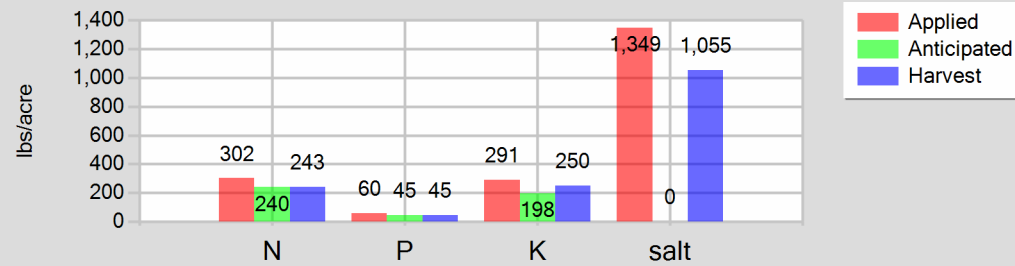
4 - 06/26/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/26/2023

Nutrient budget in lbs/acre



	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	90.00	26.40	90.00	0.00
Process wastewater	203.31	33.51	201.24	866.24
Fresh water	1.82	0.00	0.00	483.05
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	302.14	59.91	291.24	1,349.28
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	243.20	44.80	249.60	1,054.98
Nutrient balance	58.94	15.11	41.64	294.31
Applied to removed ratio	1.24	1.34	1.17	1.28

Fresh water applied
38,225,580.81 gallons
1,407.72 acre-inches
40.22 inches/acre
Process wastewater applied
935,192.37 gallons
34.44 acre-inches
0.98 inches/acre
Total harvests for the crop
1 harvests

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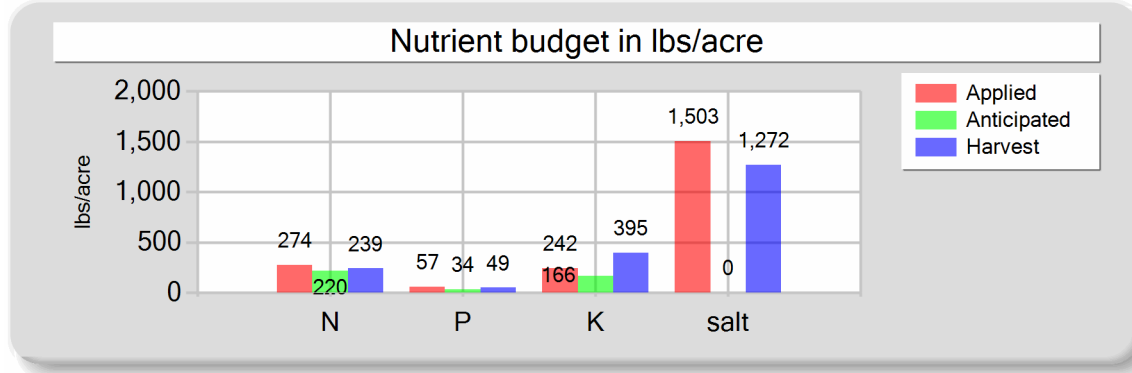
Reporting period 01/01/2023 to 12/31/2023.

5 - 11/22/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022



	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	96.00	33.60	136.80	0.00
Process wastewater	118.89	23.84	105.20	508.56
Fresh water	52.36	0.00	0.00	994.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	274.26	57.44	242.00	1,503.24
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	239.40	49.40	395.20	1,271.67
Nutrient balance	34.86	8.04	-153.20	231.57
Applied to removed ratio	1.15	1.16	0.61	1.18

Fresh water applied
22,783,501.92 gallons
839.04 acre-inches
20.98 inches/acre

Process wastewater applied
720,130.71 gallons
26.52 acre-inches
0.66 inches/acre

Total harvests for the crop
1 harvests

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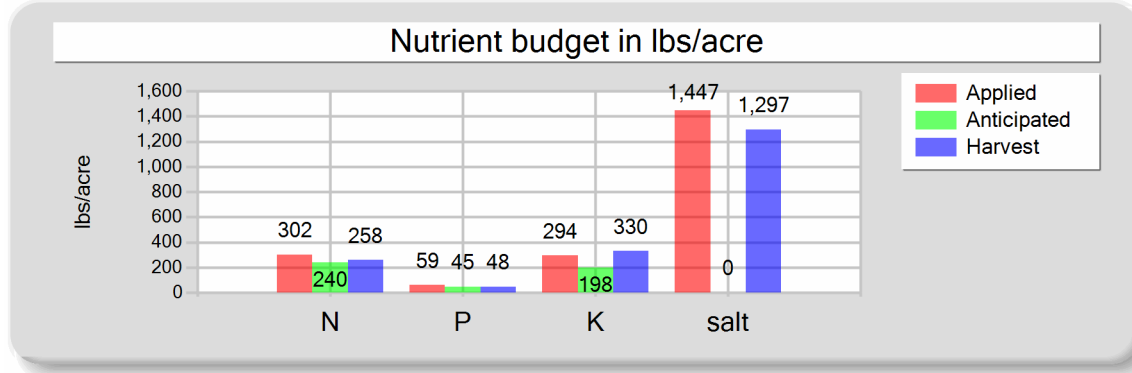
Reporting period 01/01/2023 to 12/31/2023.

5 - 06/16/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/16/2023



	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	44,582,933.82 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,641.84 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	41.05 inches/acre
Dry manure	90.00	26.40	90.00	0.00	
Process wastewater	203.00	32.72	204.26	954.18	
Fresh water	1.86	0.00	0.00	492.96	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	301.86	59.12	294.26	1,447.14	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	258.00	48.00	330.00	1,297.44	
Nutrient balance	43.86	11.12	-35.74	149.70	
Applied to removed ratio	1.17	1.23	0.89	1.12	
					Process wastewater applied
					1,221,941.25 gallons
					45.00 acre-inches
					1.12 inches/acre
					Total harvests for the crop
					1 harvests

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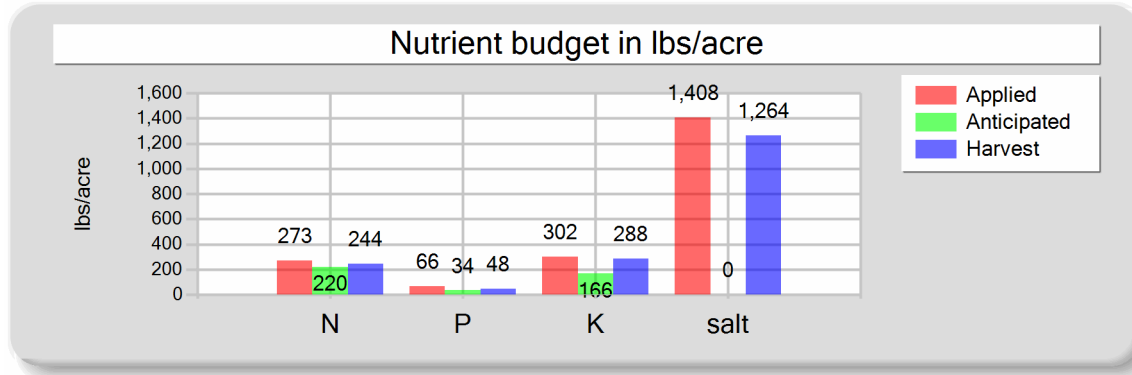
Reporting period 01/01/2023 to 12/31/2023.

6 - 11/24/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022



	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	96.00	33.60	136.80	0.00
Process wastewater	162.20	32.50	164.98	874.81
Fresh water	7.55	0.00	0.00	532.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.75	66.10	301.78	1,407.76
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	244.00	48.00	288.00	1,263.60
Nutrient balance	28.75	18.10	13.78	144.16
Applied to removed ratio	1.12	1.38	1.05	1.11

Fresh water applied
20,561,198.10 <i>gallons</i>
757.20 <i>acre-inches</i>
20.46 <i>inches/acre</i>

Process wastewater applied
1,153,512.54 <i>gallons</i>
42.48 <i>acre-inches</i>
1.15 <i>inches/acre</i>

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

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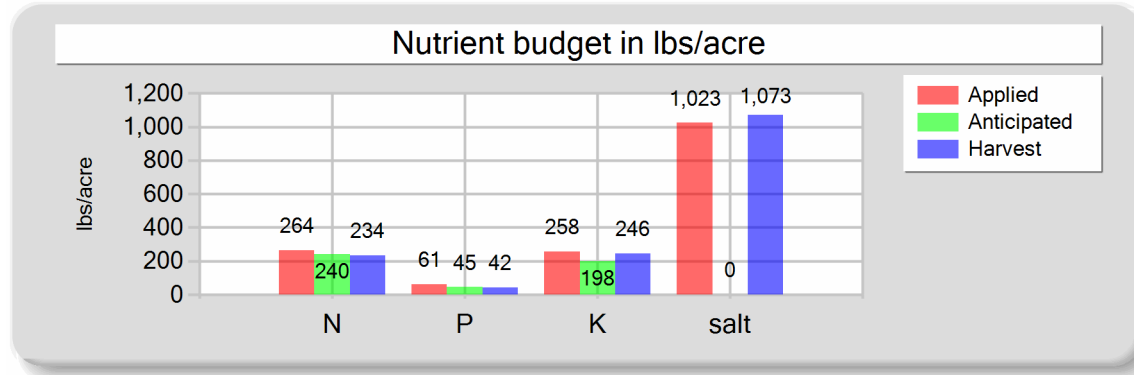
Reporting period 01/01/2023 to 12/31/2023.

6 - 06/20/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/20/2023



	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	150.00	44.00	150.00	0.00
Process wastewater	105.57	16.70	107.64	534.03
Fresh water	1.85	0.00	0.00	489.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.42	60.70	257.64	1,023.21
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	234.00	42.00	246.00	1,072.50
Nutrient balance	30.42	18.70	11.64	-49.29
Applied to removed ratio	1.13	1.45	1.05	0.95

Fresh water applied
40,923,627.09 gallons
1,507.08 acre-inches
40.73 inches/acre

Process wastewater applied
648,443.49 gallons
23.88 acre-inches
0.65 inches/acre

Total harvests for the crop
1 harvests

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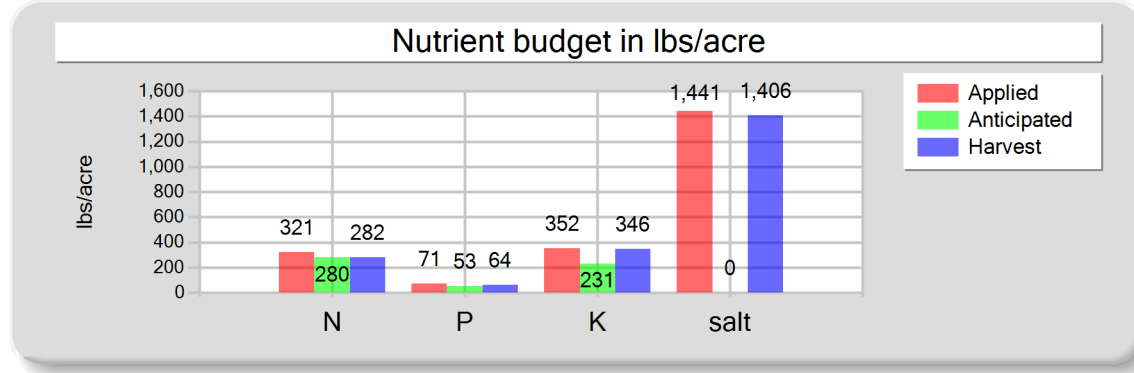
Reporting period 01/01/2023 to 12/31/2023.

7 - 04/20/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 04/20/2023



	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	65,284,247.85 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,404.20 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	43.71 inches/acre
Dry manure	96.00	33.60	136.80	0.00	
Process wastewater	208.73	37.61	215.60	915.87	
Fresh water	1.98	0.00	0.00	524.99	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	320.71	71.21	352.40	1,440.85	
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00	
Actual crop nutrient removal	281.60	64.00	345.60	1,406.46	
Nutrient balance	39.11	7.21	6.80	34.39	
Applied to removed ratio	1.14	1.11	1.02	1.02	
					Process wastewater applied
					1,567,343.31 gallons
					57.72 acre-inches
					1.05 inches/acre
					Total harvests for the crop
					1 harvests

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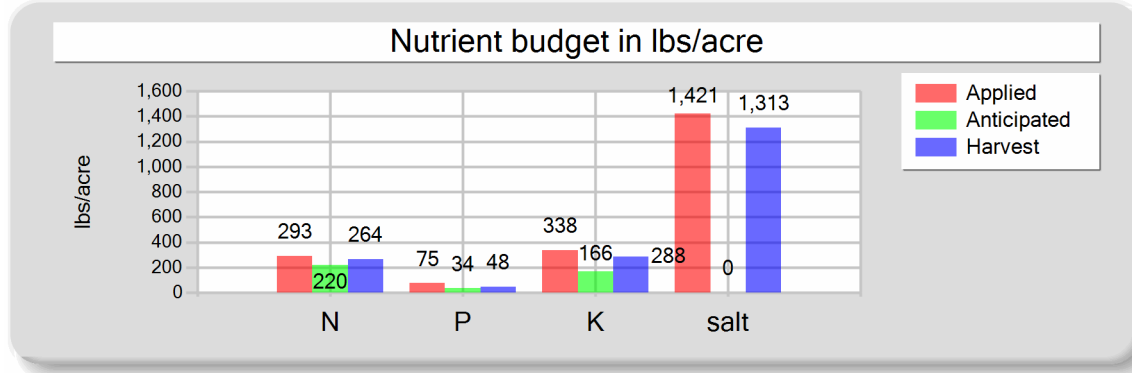
Reporting period 01/01/2023 to 12/31/2023.

9 - 11/03/2022: Wheat, silage, soft dough

Field name: 9

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022



	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	160.00	56.00	228.00	0.00
Process wastewater	95.86	19.20	110.30	624.94
Fresh water	29.99	0.00	0.00	796.24
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	292.84	75.20	338.30	1,421.18
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	264.00	48.00	288.00	1,313.16
Nutrient balance	28.84	27.20	50.30	108.02
Applied to removed ratio	1.11	1.57	1.17	1.08

Fresh water applied
20,577,490.65 gallons
757.80 acre-inches
20.48 inches/acre

Process wastewater applied
827,661.54 gallons
30.48 acre-inches
0.82 inches/acre

Total harvests for the crop
1 harvests

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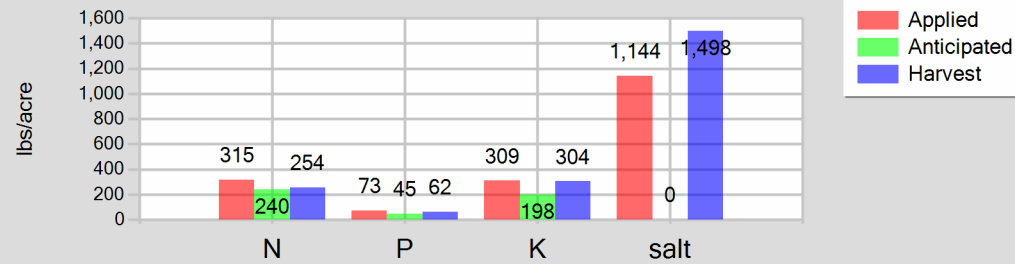
9 - 06/16/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 06/16/2023

Nutrient budget in lbs/acre



	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	180.00	52.80	180.00	0.00
Process wastewater	126.20	19.89	128.98	646.73
Fresh water	1.88	0.00	0.00	497.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	315.08	72.69	308.98	1,144.41
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	254.20	62.00	303.80	1,498.42
Nutrient balance	60.88	10.69	5.18	-354.00
Applied to removed ratio	1.24	1.17	1.02	0.76

Fresh water applied
41,633,982.27 gallons
1,533.24 acre-inches
41.44 inches/acre
Process wastewater applied
788,559.42 gallons
29.04 acre-inches
0.78 inches/acre
Total harvests for the crop
1 harvests

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

22I1948

Sample and source description: 22I1948

Sample date: 09/28/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 6.0 %

	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	16,000.00	5,600.00	22,800.00							0.00
DL	100.00	100.00	30.00							0.01

23F0952

Sample and source description: 23F0952

Sample date: 06/07/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 17.7 %

	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	15,000.00	4,400.00	15,000.00							0.00
DL	100.00	100.00	30.00							0.01

23K1056

Sample and source description: 23K1056

Sample date: 11/20/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.7 %

	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	18,200.00	6,600.00	21,300.00							0.00
DL	100.00	100.00	30.00							0.01

B. PROCESS WASTEWATER ANALYSES

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

22L0567

Sample and source description: 22L0567

Sample date: 12/07/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	900.00	418.00	0.00	2.70	181.00	744.00								8,720.00	3,400
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23C0960

Sample and source description: 23C0960

Sample date: 03/30/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	454.00	332.00	0.00	1.40	91.20	568.00								7,030.00	3,340
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23F0922

Sample and source description: 23F0922

Sample date: 06/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	1,330.00	481.00	0.00	1.00	230.00	1,270.00								15,600.00	4,400
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23I1784

Sample and source description: 23I1784

Sample date: 09/27/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	419.00	338.00	0.00	0.60	56.70	471.00								6,440.00	3,280
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

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

23K1063

Sample and source description: 23K1063

Sample date: 11/20/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	654.00	391.00	0.00	0.60	94.10	490.00								6,980.00	2,970
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

C. FRESH WATER ANALYSES

Canal

22G1354

Sample description: 22G1354

Sample date: 07/18/2022 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	0.00								80.00	46
DL		0.20	0.01								1.00	10

23E1020

Sample description: 23E1020

Sample date: 05/10/2023 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	0.20								70.00	53
DL		0.20	0.01								1.00	10

IW 11

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IW 11

22G2063

Sample description: 22G2063

Sample date: 07/26/2022 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	16.40								709.00	
DL		0.20	0.01								1.00	

IW 30

22G2083

Sample description: 22G2083

Sample date: 07/27/2022 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	20.20								590.00	
DL		0.20	0.01								1.00	

IW 33

22G2063

Sample description: 22G2063

Sample date: 07/26/2022 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	4.10								261.00	
DL		0.20	0.01								1.00	

IW 34

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

IW 34

22G2083

Sample description: 22G2083

Sample date: 07/27/2022 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	1.80								295.00	
DL		0.20	0.01								1.00	

IW 35

22G2083

Sample description: 22G2083

Sample date: 07/27/2022 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	5.70								384.00	
DL		0.20	0.01								1.00	

IW 37

22G2083

Sample description: 22G2083

Sample date: 07/27/2022 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	5.00								340.00	
DL		0.20	0.01								1.00	

IW 38

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

IW 38

22G2063

Sample description: 22G2063

Sample date: 07/26/2022 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	0.30								226.00	
DL		0.20	0.01								1.00	

IW 6

22G2063

Sample description: 22G2063

Sample date: 07/26/2022 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	33.30								852.00	
DL		0.20	0.01								1.00	

D. SOIL ANALYSES

1

23I1054

Sample and source description: 23I1054

Sample date: 09/15/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			52.00				
DL			1.10				

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10

23I1054

Sample and source description: 23I1054

Sample date: 09/15/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			43.00				
DL			1.10				

25

23I1054

Sample and source description: 23I1054

Sample date: 09/15/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			25.00				
DL			1.10				

26

23I1495

Sample and source description: 23I1495

Sample date: 09/22/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			49.00				
DL			1.10				

27

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27

23H1616

Sample and source description: 23H1616

Sample date: 08/17/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			74.00				
DL			1.10				

28

23H1616

Sample and source description: 23H1616

Sample date: 08/17/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			47.00				
DL			1.10				

4

23I1495

Sample and source description: 23I1495

Sample date: 09/22/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			79.00				
DL			1.10				

5

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

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

5

23I1054

Sample and source description: 23I1054

Sample date: 09/15/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			69.00				
DL			1.10				

6

23I1054

Sample and source description: 23I1054

Sample date: 09/15/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			46.00				
DL			1.10				

7

23H1616

Sample and source description: 23H1616

Sample date: 08/17/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			62.00				
DL			1.10				

9

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

9

2311054

Sample and source description: 2311054

Sample date: 09/15/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			57.00				
DL			1.10				

E. PLANT TISSUE ANALYSES

1 - 11/25/2022: Wheat, silage, soft dough

23E2231

Sample and source description: 23E2231

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,100.00	1,300.00	9,800.00		10.10
DL	0.10	0.10	0.10		0.01

1 - 06/24/2023: Corn, silage

2311428

Sample and source description: 2311428

Sample date: 09/21/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,700.00	800.00	4,200.00		5.20
DL	0.10	0.10	0.10		0.01

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

10 - 11/21/2022: Wheat, silage, soft dough

23E2231

Sample and source description: 23E2231

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,700.00	1,000.00	6,900.00		8.90
DL	0.10	0.10	0.10		0.01

10 - 06/16/2023: Corn, silage

23I0923

Sample and source description: 23I0923

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	800.00	5,200.00		7.20
DL	0.10	0.10	0.10		0.01

2 - 11/14/2022: Sugar beets

23SB0801

Sample and source description: 23SB0801

Sample date: 08/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 50.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,500.00	1,500.00	22,400.00		10.10
DL	0.10	0.10	0.10		0.01

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

25 - 11/26/2022: Wheat, silage, soft dough

23E2231

Sample and source description: 23E2231

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	1,100.00	7,200.00		8.50
DL	0.10	0.10	0.10		0.01

25 - 06/14/2023: Corn, silage

23I0923

Sample and source description: 23I0923

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	700.00	4,600.00		6.40
DL	0.10	0.10	0.10		0.01

26 - 11/02/2022: Wheat, silage, soft dough

23E2231

Sample and source description: 23E2231

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,400.00	1,200.00	9,200.00		9.90
DL	0.10	0.10	0.10		0.01

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

26 - 06/29/2023: Corn, silage

23I1428

Sample and source description: 23I1428

Sample date: 09/21/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	800.00	4,700.00		8.10
DL	0.10	0.10	0.10		0.01

27 - 04/21/2023: Corn, silage

23H1568

Sample and source description: 23H1568

Sample date: 08/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,200.00	1,100.00	5,700.00		6.20
DL	0.10	0.10	0.10		0.01

28 - 04/22/2023: Corn, silage

23H1568

Sample and source description: 23H1568

Sample date: 08/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	900.00	5,300.00		7.20
DL	0.10	0.10	0.10		0.01

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

4 - 11/21/2022: Wheat, silage, soft dough

23E2231

Sample and source description: 23E2231

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	1,200.00	9,100.00		9.60
DL	0.10	0.10	0.10		0.01

4 - 06/26/2023: Corn, silage

2311428

Sample and source description: 2311428

Sample date: 09/21/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,800.00	700.00	3,900.00		5.20
DL	0.10	0.10	0.10		0.01

5 - 11/22/2022: Wheat, silage, soft dough

23E2231

Sample and source description: 23E2231

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,300.00	1,300.00	10,400.00		9.70
DL	0.10	0.10	0.10		0.01

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

5 - 06/16/2023: Corn, silage

23I0923

Sample and source description: 23I0923

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	800.00	5,500.00		6.80
DL	0.10	0.10	0.10		0.01

6 - 11/24/2022: Wheat, silage, soft dough

23E2231

Sample and source description: 23E2231

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,100.00	1,200.00	7,200.00		9.00
DL	0.10	0.10	0.10		0.01

6 - 06/20/2023: Corn, silage

23I1428

Sample and source description: 23I1428

Sample date: 09/21/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,900.00	700.00	4,100.00		5.50
DL	0.10	0.10	0.10		0.01

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

7 - 04/20/2023: Corn, silage

23H1568

Sample and source description: 23H1568

Sample date: 08/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	1,000.00	5,400.00		6.70
DL	0.10	0.10	0.10		0.01

9 - 11/03/2022: Wheat, silage, soft dough

23E2231

Sample and source description: 23E2231

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	1,200.00	7,200.00		9.30
DL	0.10	0.10	0.10		0.01

9 - 06/16/2023: Corn, silage

23I0923

Sample and source description: 23I0923

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	1,000.00	4,900.00		7.60
DL	0.10	0.10	0.10		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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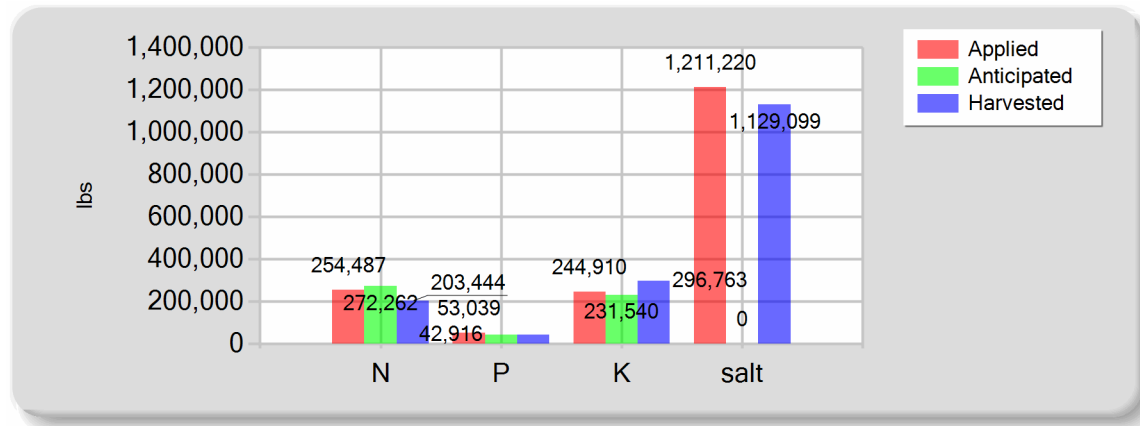
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

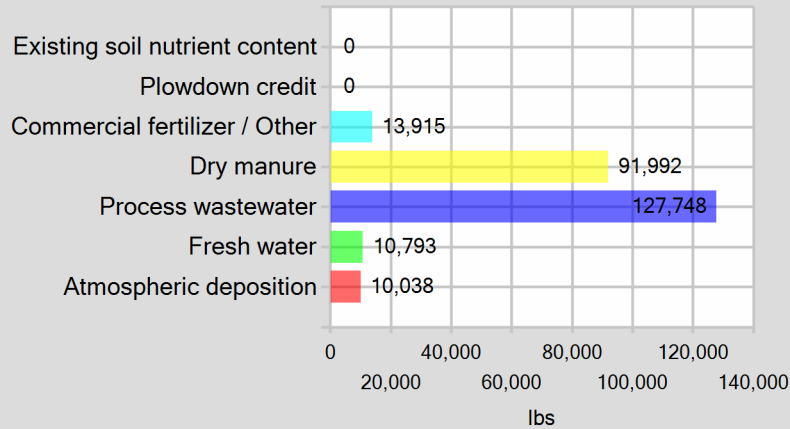
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	13,915.00	0.00	0.00	0.00
Dry manure	91,992.00	30,123.20	115,533.60	0.00
Process wastewater	127,748.39	22,916.13	129,376.80	619,509.43
Fresh water	10,793.40	0.00	0.00	591,710.83
Atmospheric deposition	10,038.00	0.00	0.00	0.00
Total nutrients applied	254,486.79	53,039.33	244,910.40	1,211,220.26
Anticipated crop nutrient removal	272,262.00	42,916.40	231,540.00	0.00
Actual crop nutrient removal	203,444.00	42,180.40	296,763.20	1,129,099.43
Nutrient balance	51,042.79	10,858.93	-51,852.80	82,120.82
Applied to removed ratio	1.25	1.26	0.83	1.07

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

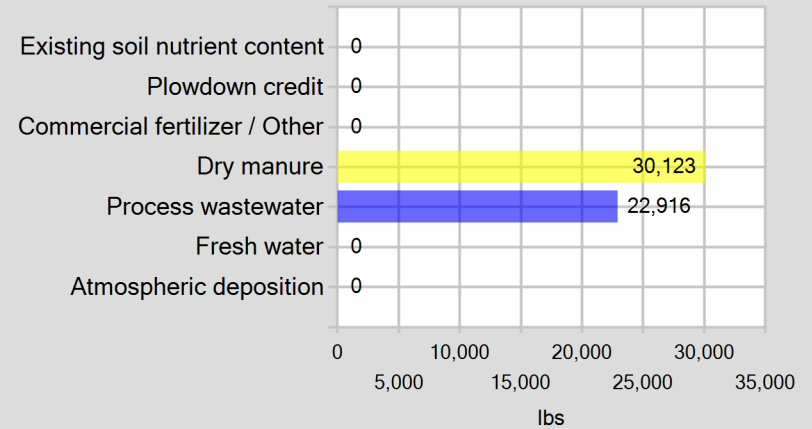


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

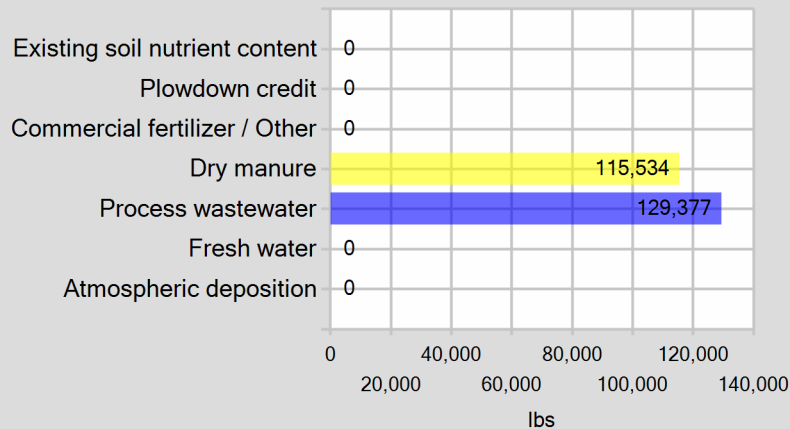
Pounds of nitrogen applied



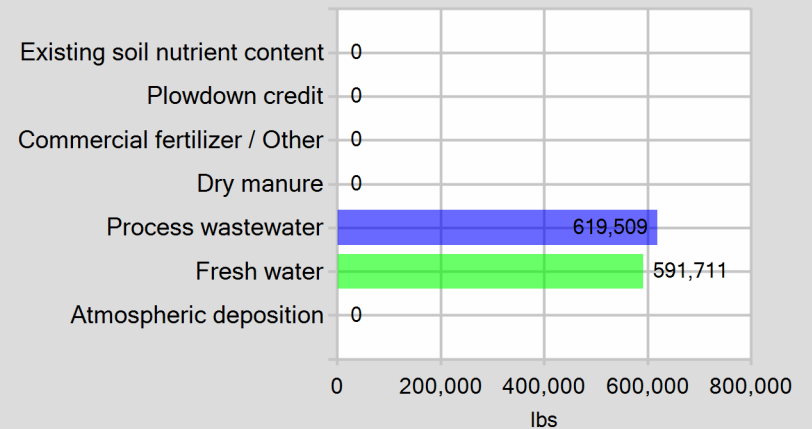
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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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? Yes

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

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

ADDITIONAL NOTES

A. NOTES

1. As stated in the Annual Report, and required by the General Order, the dairies onsite Nutrient Management Plan has been updated and completed by a certified agronomist. The dairy conducts its nutrient budgeting based on this certified plan, and only uses the Annual Report as a complimentary guide. Submission of the nutrient budget in this annual report is done solely to satisfy the requirements of the General Orders monitoring and reporting section.
2. All graphs in the annual report display an amount of applied and removed salt. There are many ways inputs and exports of salt can accounted for. The Merced County website does not account for all of them. The graphs convey a partial / incomplete portrayal of salts (depending on how salts are defined, measured, and evaluated).
3. The General Order requires the submission of all land applications in the "calendar year" of the reporting period. This has been submitted. However, land applications that occur post harvest of the Fall forage of the previous calendar year are intended for the use of the Spring forage of the following calendar year (reporting period) as crop cycles do not work on calendar year dates. When such land applications occur in the previous calendar year, previous years analytical data representing the applications have been inputted to represent nutrients intended for the reporting periods Spring crop. As such, any land application that occurs post harvest of the Fall forage in the reporting period that is intended for the Spring forage of the following calendar year will not be inputted until the following years Annual Report so that the Merced County reporting program software does not mistakenly apply these applications to the incorrect crops as there is no way to accurately differentiate and display this situation in the Annual Report software .
4. All wastewater land applications were summarized by quarter using the corresponding wastewater quarterly sample to represent nutrient amounts applied. One application date per quarter per crop has been selected to represent all applications of wastewater for that crop during that quarter. The Annual Reports' nutrient budget is accurate to the Merced County website standards as the proper quarterly sample has been selected to represent nutrients applied during that specific quarter. Day specific records are kept on site and available upon request.
- All fresh water land applications during the report period have been summarized into one application per source per crop. One application date has been selected to represent the reporting period for that crop. The Annual Reports' nutrient budget is accurate to the Merced County website standards as the proper source sample has been selected to represent nutrients applied during the reporting period. Day specific records are kept on site and available upon request.
5. The Annual Report program lists the possibility of the report being incomplete. The report is complete. There were no samples of alfalfa hay, almonds, or pistachios taken during the reporting period as no waste was applied to the crop.
6. Due to high volumes of available canal water, most, if not all wells remained idle during the growing season. Therefore little to no well samples exist. They will be sampled again when operable.

ANNUAL REPORT VALIDATION INFORMATION

A. VALIDATION ERRORS

The following sections contain validation errors and should be reviewed before submitting the Annual Report :

1. Harvest Events

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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.

Lisa Wilbur
SIGNATURE OF OWNER OF FACILITY

Jeff Wilbur
PRINT OR TYPE NAME

6-28-24
DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER
PRINT OR TYPE NAME

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.

Sola Consulting Inc
PO Box 190
Tipton, CA 93272

Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

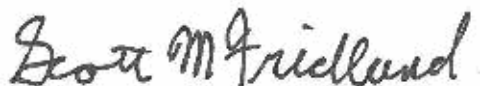
Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E1020-01	Tulare Canal	Ag Water	Moises Barajas		05/10/2023 12:16

Default Cooler Temperature on Receipt °C: -0.6
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.



Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

Sola Consulting Inc
PO Box 190
Tipton, CA 93272

Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Sample Results

Sample: Tulare Canal
23E1020-01 (Water)

Sampled: 5/10/2023 12:16
Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.07	mmhos/cm	0.01	1		05/11/23 14:09	SM 2510 B		BEE0443
Electrical Conductivity umhos	70.0	umhos/cm	10.0	1		05/11/23 14:09	SM 2510 B		BEE0443
Nitrate Nitrogen as NO3N	0.2	mg/L	0.1	1	10	05/11/23 17:09	EPA 300.0		BEE0425
pH	8.1	units	1.0	1		05/11/23 14:09	SM 4500-H+	H	BEE0443
Total Filterable Solids (TDS)	52.9	mg/L	10.0	1		06/02/23 12:10	SM 2540 C		BEE0466
Temperature	25.0	°C	0.0	1		05/11/23 14:09	SM 2510 B		BEE0443

Sola Consulting Inc
PO Box 190
Tipton, CA 93272

Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0425									
Blank (BEE0425-BLK1)				Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEE0425-BLK2)				Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEE0425-BLK3)				Prepared: 5/11/2023 Analyzed: 5/12/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
LCS (BEE0425-BS1)				Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000		108	90-110		
LCS (BEE0425-BS2)				Prepared: 5/11/2023 Analyzed: 5/12/2023					
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		103	90-110		
Duplicate (BEE0425-DUP1)		Source: 23E1023-01		Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	0.6	0.1	mg/L		0.6			1.74	10
Duplicate (BEE0425-DUP2)		Source: 23E1026-03		Prepared: 5/11/2023 Analyzed: 5/12/2023					
Nitrate Nitrogen as NO3N	27.9	0.1	mg/L		27.9			0.222	10
Matrix Spike (BEE0425-MS1)		Source: 23E1023-01		Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	5.7	0.1	mg/L	5.000	0.6	101	90-110		
Matrix Spike (BEE0425-MS2)		Source: 23E1026-03		Prepared: 5/11/2023 Analyzed: 5/12/2023					
Nitrate Nitrogen as NO3N	32.6	0.1	mg/L	5.000	27.9	92.5	90-110		
Reference (BEE0425-SRM1)				Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		100	90-110		
Reference (BEE0425-SRM2)				Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		

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Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0443									
Blank (BEE0443-BLK1)				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.5	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEE0443-BLK2)				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.6	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEE0443-BLK3)				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.7	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Duplicate (BEE0443-DUP1)				Source: 23E0842-01		Prepared & Analyzed: 5/11/2023			
pH	4.3	1.0	units		4.3			0.00	10
Electrical Conductivity	1.70	0.01	mmhos/cm		1.70			0.0588	10
Electrical Conductivity umhos	1700	10.0	umhos/cm		1700			0.0588	10
Duplicate (BEE0443-DUP2)				Source: 23E1024-01		Prepared & Analyzed: 5/11/2023			
Electrical Conductivity	0.07	0.01	mmhos/cm		0.07			0.578	10
pH	8.1	1.0	units		8.2			0.737	10
Electrical Conductivity umhos	69.0	10.0	umhos/cm		69.4			0.578	10
Reference (BEE0443-SRM2)				Prepared & Analyzed: 5/11/2023					
pH	7.8		units	7.790		100	.7163-101.28		
Reference (BEE0443-SRM3)				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1060		umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060		umhos/cm	1000		106	90-110		
Reference (BEE0443-SRM4)				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1060		umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060		umhos/cm	1000		106	90-110		
Reference (BEE0443-SRM5)				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1070		umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
Reference (BEE0443-SRM6)				Prepared & Analyzed: 5/11/2023					

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Sola Consulting Inc
PO Box 190
Tipton, CA 93272

Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0443 (Continued)									
Reference (BEE0443-SRM6)				Prepared & Analyzed: 5/11/2023					
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEE0443-SRM7)				Prepared & Analyzed: 5/11/2023					
pH	4.0		units	4.000		99.8	97.5-102.5		
Reference (BEE0443-SRM8)				Prepared & Analyzed: 5/11/2023					
pH	4.0		units	4.000		99.8	97.5-102.5		

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Sola Consulting Inc
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Tipton, CA 93272

Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0466									
Blank (BEE0466-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L	Prepared: 5/11/2023 Analyzed: 6/2/2023					
LCS (BEE0466-BS1)									
Total Filterable Solids (TDS)	21.2	10.0	mg/L	2000		1.06	0-200		
Duplicate (BEE0466-DUP1)									
Total Filterable Solids (TDS)	1260	10.0	mg/L	Prepared: 5/11/2023 Analyzed: 6/2/2023				1.60	5
Duplicate (BEE0466-DUP2)									
Total Filterable Solids (TDS)	4850	10.0	mg/L	Prepared: 5/11/2023 Analyzed: 6/2/2023				2.08	5
Reference (BEE0466-SRM1)									
Total Filterable Solids (TDS)	310		mg/L	325.0		95.4	90-110		

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05/11/23 08:59

23E1020

JG

WATER WORK REQUEST
 Bill To: Acct No. (For Login Not Billing) 20655 Cons 8

Purchase Order No. _____ Results Needed By _____

 Client Sola Consulting
 Canal Tulare Irrigation District
 Requested by Vince Sola

Copy to	Email	Acct #
Vince Sola	solaconsulting@gmail.com	N/A
Curti Family Farms	curtifamilyoffice@gmail.com	15771
Curti Family Inc	curtifamilyoffice@gmail.com	13258
Curtimade	bencurtifarms@yahoo.com	15775
Mancebo #1	onepasstillage@yahoo.com	19286

 Date sampled 5-10-23
☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB
DESCRIPTION OF SAMPLES
 1. Tulare Canal Sampled From: _____
 2. _____ Sampled From: _____
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 1 No. Bottles _____
Water Type: ☐ Drinking ☐ Wastewater
☒ Ag Water ☐ Ground Water ☐ Mon. Well
☐ Supply Water ☐ Other _____
Analysis and Bottles Required: (Please Indicate Analysis)
 (X) DCW1: (EC, NO3-N, TDS)
 (1) 1 L plastic, unpreserved (white)

Copy to	Email	Acct #
Mancebo #2	onepasstillage@yahoo.com	19287
Rio Blanco	Lisa/jeff/rafael@mayflowerco.com (PDF results - No mail)	13323
S&S	Mon.Scheenstra@gmail.com steve.scheenstra@gmail.com	15850

 Sampled by Maria Berueta

Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
<u>5-10-23</u>	<u>12:16pm</u>		<u>-0.6</u>

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Maria Berueta</u>	DLI	<u>5-10-23 12:16PM</u>	<u>2:02PM 5-10-23</u>
Second				
Third				
Fourth	<u>Jasmet A</u>	<u>DLI</u>	<u>5/11/23 8:59</u>	

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 attorney's 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 damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when the fee is due, a dispute exists concerning the product or services of Della Valle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc., locally. 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 attorney's fees of Della Valle Laboratory.

Invoicing Information:

Client	Acct #	Invoicing	
Curti Family Farms	15771	\$18.00	Price List
Curti Family Inc	13258	\$18.00	Price List
Curtimade	15775	\$18.00	Qrtly
Mancebo Holsteins #1	19286	\$18.00	Qrtly
Mancebo Holsteins #2	19287	\$18.00	Qrtly
Rio Blanco Dairy	13323	\$18.00	Qrtly
S&S Dairy	15850	\$18.00	Qrtly

 Signature _____
 Sample received in cooler with ice?
☐ Yes ☐ No

cct: update 2020

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input checked="" type="checkbox"/> <u>Hanford</u>											
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 <i>(Containers that go into the Lab)</i>											
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 <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>											
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:										
Other:											



05/11/23 08:59

23E1020

Rio Blanco Dairy
20280 Road 52
Tulare, CA 93274

Account# 00-0013323
Account Manager: Ben Nydam
Submitted By:
Ranch: 5041 Ave 192 Tulare

Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

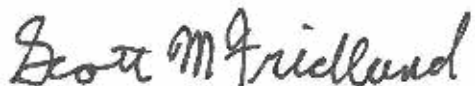
Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L1085-01	DW 1	Water	Client/Cynthia Tiemersma		12/18/2023 8:00
23L1085-02	DW 2	Water	Client/Cynthia Tiemersma		12/18/2023 7:30
23L1085-03	DW 3	Water	Client/Cynthia Tiemersma		12/18/2023 7:00
23L1085-04	DW 4	Water	Client/Cynthia Tiemersma		12/18/2023 8:00

Default Cooler Temperature on Receipt °C: 0.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.



Laboratory Director/Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02

Rio Blanco Dairy
20280 Road 52
Tulare, CA 93274

Account# 00-0013323
Account Manager: Ben Nydam
Submitted By:
Ranch: 5041 Ave 192 Tulare

Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Sample Results

Sample: DW 1
23L1085-01 (Water)

Sampled: 12/18/2023 8:00
Sampled By: Client/Cynthia Tiemersma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	153	mg/L	10.0	1		12/20/23 11:15	SM 2320 B		BEL0726
Calcium	52.7	mg/L	0.1	1		12/21/23 10:27	EPA 200.7		BEL0697
Chloride	26.2	mg/L	0.2	1	250	12/19/23 13:44	EPA 300.0		BEL0728
Carbonate as CaCO ₃	ND	mg/L	1	1		12/20/23 11:15	SM 2320 B		BEL0726
Electrical Conductivity	0.63	mmhos/cm	0.01	1		12/20/23 11:15	SM 2510 B		BEL0726
Electrical Conductivity umhos	627	umhos/cm	10.0	1		12/20/23 11:15	SM 2510 B		BEL0726
Bicarbonate as CaCO₃	153	mg/L	5.00	1		12/20/23 11:15	SM 2320 B		BEL0726
Potassium	0.956	mg/L	0.500	1		12/21/23 10:27	EPA 200.7		BEL0697
Magnesium	2.3	mg/L	0.1	1		12/21/23 10:27	EPA 200.7		BEL0697
Sodium	78	mg/L	1	1		12/21/23 10:27	EPA 200.7		BEL0697
Ammonia (as N)	*	mg/L	0.00	1		12/20/23 09:36	Field		BEL0765
Nitrate Nitrogen as NO₃N	16.4	mg/L	0.1	1	10	12/19/23 13:44	EPA 300.0		BEL0728
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		12/20/23 11:15	SM 2320 B		BEL0726
pH	7.7	units	1.0	1		12/20/23 11:15	SM 4500-H+	H	BEL0726
Temperature	25.0	units	0.0	1		12/20/23 11:15	SM 4500-H+	H	BEL0726
Sulfate (SO₄)	52.2	mg/L	0.5	1	250	12/19/23 13:44	EPA 300.0		BEL0728
Total Filterable Solids (TDS)	380	mg/L	10.0	1		12/20/23 12:54	SM 2540 C		BEL0717

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Rio Blanco Dairy
20280 Road 52
Tulare, CA 93274

Account# 00-0013323
Account Manager: Ben Nydam
Submitted By:
Ranch: 5041 Ave 192 Tulare

Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Sample Results (Continued)

Sample: DW 2
23L1085-02 (Water)

Sampled: 12/18/2023 7:30
Sampled By: Client/Cynthia Tiemersma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	339	mg/L	10.0	1		12/20/23 11:20	SM 2320 B		BEL0726
Calcium	181	mg/L	0.1	1		12/21/23 10:28	EPA 200.7		BEL0697
Chloride	41.8	mg/L	0.2	1	250	12/19/23 14:10	EPA 300.0		BEL0728
Carbonate as CaCO3	ND	mg/L	1	1		12/20/23 11:20	SM 2320 B		BEL0726
Electrical Conductivity	1.21	mmhos/cm	0.01	1		12/20/23 11:20	SM 2510 B		BEL0726
Electrical Conductivity umhos	1210	umhos/cm	10.0	1		12/20/23 11:20	SM 2510 B		BEL0726
Bicarbonate as CaCO3	339	mg/L	5.00	1		12/20/23 11:20	SM 2320 B		BEL0726
Potassium	0.772	mg/L	0.500	1		12/21/23 10:28	EPA 200.7		BEL0697
Magnesium	8.4	mg/L	0.1	1		12/21/23 10:28	EPA 200.7		BEL0697
Sodium	62	mg/L	1	1		12/21/23 10:28	EPA 200.7		BEL0697
Ammonia (as N)	*	mg/L	0.00	1		12/20/23 09:36	Field		BEL0765
Nitrate Nitrogen as NO3N	44.0	mg/L	0.1	1	10	12/19/23 14:10	EPA 300.0		BEL0728
Hydroxide as CaCO3	ND	mg/L	1.00	1		12/20/23 11:20	SM 2320 B		BEL0726
pH	7.2	units	1.0	1		12/20/23 11:20	SM 4500-H+	H	BEL0726
Temperature	25.0	units	0.0	1		12/20/23 11:20	SM 4500-H+	H	BEL0726
Sulfate (SO4)	64.7	mg/L	0.5	1	250	12/19/23 14:10	EPA 300.0		BEL0728
Total Filterable Solids (TDS)	880	mg/L	10.0	1		12/20/23 12:54	SM 2540 C		BEL0717

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Rio Blanco Dairy
20280 Road 52
Tulare, CA 93274

Account# 00-0013323
Account Manager: Ben Nydam
Submitted By:
Ranch: 5041 Ave 192 Tulare

Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Sample Results (Continued)

Sample: DW 3
23L1085-03 (Water)

Sampled: 12/18/2023 7:00
Sampled By: Client/Cynthia Tiemersma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	363	mg/L	10.0	1		12/20/23 11:29	SM 2320 B		BEL0726
Calcium	186	mg/L	0.1	1		12/21/23 10:29	EPA 200.7		BEL0697
Chloride	49.4	mg/L	0.2	1	250	12/19/23 14:30	EPA 300.0		BEL0728
Carbonate as CaCO3	ND	mg/L	1	1		12/20/23 11:29	SM 2320 B		BEL0726
Electrical Conductivity	1.54	mmhos/cm	0.01	1		12/20/23 11:29	SM 2510 B		BEL0726
Electrical Conductivity umhos	1540	umhos/cm	10.0	1		12/20/23 11:29	SM 2510 B		BEL0726
Bicarbonate as CaCO3	363	mg/L	5.00	1		12/20/23 11:29	SM 2320 B		BEL0726
Potassium	0.936	mg/L	0.500	1		12/21/23 10:29	EPA 200.7		BEL0697
Magnesium	11.4	mg/L	0.1	1		12/21/23 10:29	EPA 200.7		BEL0697
Sodium	130	mg/L	1	1		12/21/23 10:29	EPA 200.7		BEL0697
Ammonia (as N)	*	mg/L	0.00	1		12/20/23 09:36	Field		BEL0765
Nitrate Nitrogen as NO3N	59.8	mg/L	0.1	1	10	12/19/23 14:30	EPA 300.0		BEL0728
Hydroxide as CaCO3	ND	mg/L	1.00	1		12/20/23 11:29	SM 2320 B		BEL0726
pH	7.4	units	1.0	1		12/20/23 11:29	SM 4500-H+	H	BEL0726
Temperature	25.0	units	0.0	1		12/20/23 11:29	SM 4500-H+	H	BEL0726
Sulfate (SO4)	128	mg/L	0.5	1	250	12/19/23 14:30	EPA 300.0		BEL0728
Total Filterable Solids (TDS)	1020	mg/L	10.0	1		12/20/23 12:54	SM 2540 C		BEL0717

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Rio Blanco Dairy
20280 Road 52
Tulare, CA 93274

Account# 00-0013323
Account Manager: Ben Nydam
Submitted By:
Ranch: 5041 Ave 192 Tulare

Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Sample Results (Continued)

Sample: DW 4
23L1085-04 (Water)

Sampled: 12/18/2023 8:00
Sampled By: Client/Cynthia Tiemersma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	240	mg/L	10.0	1		12/20/23 11:37	SM 2320 B		BEL0726
Calcium	82.9	mg/L	0.1	1		12/21/23 10:30	EPA 200.7		BEL0697
Chloride	19.7	mg/L	0.2	1	250	12/19/23 14:50	EPA 300.0		BEL0728
Carbonate as CaCO3	ND	mg/L	1	1		12/20/23 11:37	SM 2320 B		BEL0726
Electrical Conductivity	0.67	mmhos/cm	0.01	1		12/20/23 11:37	SM 2510 B		BEL0726
Electrical Conductivity umhos	673	umhos/cm	10.0	1		12/20/23 11:37	SM 2510 B		BEL0726
Bicarbonate as CaCO3	240	mg/L	5.00	1		12/20/23 11:37	SM 2320 B		BEL0726
Potassium	ND	mg/L	0.500	1		12/21/23 10:30	EPA 200.7		BEL0697
Magnesium	4.3	mg/L	0.1	1		12/21/23 10:30	EPA 200.7		BEL0697
Sodium	57	mg/L	1	1		12/21/23 10:30	EPA 200.7		BEL0697
Ammonia (as N)	*	mg/L	0.00	1		12/20/23 09:36	Field		BEL0765
Nitrate Nitrogen as NO3N	9.8	mg/L	0.1	1	10	12/19/23 14:50	EPA 300.0		BEL0728
Hydroxide as CaCO3	ND	mg/L	1.00	1		12/20/23 11:37	SM 2320 B		BEL0726
pH	7.7	units	1.0	1		12/20/23 11:37	SM 4500-H+	H	BEL0726
Temperature	25.0	units	0.0	1		12/20/23 11:37	SM 4500-H+	H	BEL0726
Sulfate (SO4)	42.2	mg/L	0.5	1	250	12/19/23 14:50	EPA 300.0		BEL0728
Total Filterable Solids (TDS)	380	mg/L	10.0	1		12/20/23 12:54	SM 2540 C		BEL0717

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Rio Blanco Dairy
20280 Road 52
Tulare, CA 93274

Account# 00-0013323
Account Manager: Ben Nydam
Submitted By:
Ranch: 5041 Ave 192 Tulare

Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0697									
Blank (BEL0697-BLK1)									
				Prepared: 12/18/2023 Analyzed: 12/21/2023					
Calcium	ND	0.1	mg/L						
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
Blank (BEL0697-BLK2)									
				Prepared: 12/18/2023 Analyzed: 12/21/2023					
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
LCS (BEL0697-BS1)									
				Prepared: 12/18/2023 Analyzed: 12/21/2023					
Sodium	38	1	mg/L	35.71		107	90-110		
Potassium	37.4	0.500	mg/L	35.71		105	90-110		
Calcium	37.2	0.1	mg/L	35.71		104	90-110		
Magnesium	37.5	0.1	mg/L	35.71		105	90-110		
LCS (BEL0697-BS2)									
				Prepared: 12/18/2023 Analyzed: 12/21/2023					
Sodium	37	1	mg/L	35.71		104	90-110		
Calcium	37.4	0.1	mg/L	35.71		105	90-110		
Potassium	36.2	0.500	mg/L	35.71		101	90-110		
Magnesium	37.1	0.1	mg/L	35.71		104	90-110		
Duplicate (BEL0697-DUP1)									
				Source: 23L0778-01		Prepared: 12/18/2023 Analyzed: 12/21/2023			
Sodium	12	1	mg/L		12			5.67	15
Potassium	ND	0.500	mg/L		ND				15
Calcium	3.7	0.1	mg/L		3.5			5.77	15
Magnesium	0.8	0.1	mg/L		0.7			5.67	15
Matrix Spike (BEL0697-MS1)									
				Source: 23L0778-01		Prepared: 12/20/2023 Analyzed: 12/21/2023			
Potassium	38.2	0.500	mg/L	35.71	ND	107	90-110		
Sodium	51	1	mg/L	35.71	12	111	90-110		
Calcium	42.0	0.1	mg/L	35.71	3.5	108	90-110		
Magnesium	39.1	0.1	mg/L	35.71	0.7	107	90-110		
Matrix Spike (BEL0697-MS2)									
				Source: 23L1153-08		Prepared: 12/20/2023 Analyzed: 12/21/2023			
Sodium	127	1	mg/L	35.71	85	119	90-110		
Potassium	38.9	0.500	mg/L	35.71	0.980	106	90-110		
Calcium	191	0.1	mg/L	35.71	144	131	90-110		
Magnesium	46.7	0.1	mg/L	35.71	8.2	108	90-110		
Reference (BEL0697-SRM2)									
				Prepared: 12/18/2023 Analyzed: 12/21/2023					
Potassium	21.9		mg/L	21.90		100	90-110		

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Rio Blanco Dairy
20280 Road 52
Tulare, CA 93274

Account# 00-0013323
Account Manager: Ben Nydam
Submitted By:
Ranch: 5041 Ave 192 Tulare

Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEL0697 (Continued)

Reference (BEL0697-SRM2)

Sodium	93		mg/L	91.50		102	90-110		
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Reference (BEL0697-SRM3)

Calcium	46.7		mg/L	45.90		102	90-110		
Magnesium	36.2		mg/L	35.60		102	90-110		

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Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0717									
Blank (BEL0717-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L	Prepared: 12/19/2023 Analyzed: 12/20/2023					
LCS (BEL0717-BS1)									
Total Filterable Solids (TDS)	20.0	10.0	mg/L	2000		1.00	0-200		
Duplicate (BEL0717-DUP1)									
Total Filterable Solids (TDS)	550	10.0	mg/L	Prepared: 12/19/2023 Analyzed: 12/20/2023				0.00	10
Reference (BEL0717-SRM1)									
Total Filterable Solids (TDS)	383		mg/L	390.0		98.3	90-110		

Rio Blanco Dairy
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Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEL0726

Blank (BEL0726-BLK1)

Prepared: 12/19/2023 Analyzed: 12/20/2023

pH	5.1	1.0	units						
Hydroxide as CaCO3	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Alkalinity as CaCO3	ND	10.0	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	units						
Bicarbonate as CaCO3	ND	5.00	mg/L						

Blank (BEL0726-BLK2)

Prepared: 12/19/2023 Analyzed: 12/20/2023

Carbonate as CaCO3	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Hydroxide as CaCO3	ND	1.00	mg/L						
pH	5.4	1.0	units						
Alkalinity as CaCO3	ND	10.0	mg/L						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						

Duplicate (BEL0726-DUP1)

Source: 23L1085-04

Prepared: 12/19/2023 Analyzed: 12/20/2023

Alkalinity as CaCO3	236	10.0	mg/L		240		1.74	10
Hydroxide as CaCO3	ND	1.00	mg/L		ND			10
Carbonate as CaCO3	ND	1	mg/L		ND			10
Electrical Conductivity	0.67	0.01	mmhos/cm		0.67		0.237	10
pH	7.8	1.0	units		7.7		0.388	10
Electrical Conductivity umhos	675	10.0	umhos/cm		673		0.237	10

Duplicate (BEL0726-DUP2)

Source: 23L1094-01

Prepared: 12/19/2023 Analyzed: 12/20/2023

pH	7.1	1.0	units		7.1		0.281	10
Hydroxide as CaCO3	ND	1.00	mg/L		ND			10
Carbonate as CaCO3	ND	1	mg/L		ND			10
Electrical Conductivity	0.44	0.01	mmhos/cm		0.44		0.797	10
Alkalinity as CaCO3	117	10.0	mg/L		118		0.742	10
Electrical Conductivity umhos	441	10.0	umhos/cm		438		0.797	10

Reference (BEL0726-SRM1)

Prepared: 12/19/2023 Analyzed: 12/20/2023

Alkalinity as CaCO3	119	mg/L	128.0	92.8	90-110
Electrical Conductivity	440	umhos/cm	426.0	103	90-110

Reference (BEL0726-SRM2)

Prepared: 12/19/2023 Analyzed: 12/20/2023

Electrical Conductivity	436	umhos/cm	426.0	102	90-110
Alkalinity as CaCO3	126	mg/L	128.0	98.5	90-110

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Rio Blanco Dairy
20280 Road 52
Tulare, CA 93274

Account# 00-0013323
Account Manager: Ben Nydam
Submitted By:
Ranch: 5041 Ave 192 Tulare

Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0726 (Continued)									
Reference (BEL0726-SRM3)				Prepared: 12/19/2023 Analyzed: 12/20/2023					
Electrical Conductivity	449		umhos/cm	426.0		105	90-110		
Alkalinity as CaCO ₃	130		mg/L	128.0		101	90-110		
Reference (BEL0726-SRM4)				Prepared: 12/19/2023 Analyzed: 12/20/2023					
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEL0726-SRM5)				Prepared: 12/19/2023 Analyzed: 12/20/2023					
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEL0726-SRM6)				Prepared: 12/19/2023 Analyzed: 12/20/2023					
pH	4.0		units	4.000		99.8	97.5-102.5		
Reference (BEL0726-SRM7)				Prepared: 12/19/2023 Analyzed: 12/20/2023					
pH	7.5		units	7.520		99.9	67021-101.3;		

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20280 Road 52
Tulare, CA 93274

Account# 00-0013323
Account Manager: Ben Nydam
Submitted By:
Ranch: 5041 Ave 192 Tulare

Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0728									
Blank (BEL0728-BLK1)				Prepared & Analyzed: 12/19/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEL0728-BLK2)				Prepared & Analyzed: 12/19/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEL0728-BLK3)				Prepared & Analyzed: 12/19/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEL0728-BLK4)				Prepared & Analyzed: 12/20/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
LCS (BEL0728-BS1)				Prepared & Analyzed: 12/19/2023					
Chloride	4.8	0.2	mg/L	5.000		97.0	90-110		
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		101	90-110		
Sulfate (SO4)	4.6	0.5	mg/L	5.000		91.2	90-110		
LCS (BEL0728-BS2)				Prepared & Analyzed: 12/19/2023					
Chloride	4.9	0.2	mg/L	5.000		97.2	90-110		
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000		100	90-110		
Sulfate (SO4)	4.6	0.5	mg/L	5.000		91.6	90-110		
LCS (BEL0728-BS3)				Prepared & Analyzed: 12/20/2023					
Chloride	4.9	0.2	mg/L	5.000		97.9	90-110		
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		101	90-110		
Sulfate (SO4)	4.6	0.5	mg/L	5.000		92.1	90-110		
Duplicate (BEL0728-DUP1)				Source: 23L1090-01		Prepared & Analyzed: 12/19/2023			
Chloride	13.6	0.2	mg/L		13.6			0.346	10
Nitrate Nitrogen as NO3N	0.1	0.1	mg/L		0.1			6.90	10
Sulfate (SO4)	11.9	0.5	mg/L		11.9			0.428	10
Duplicate (BEL0728-DUP2)				Source: 23L1111-01		Prepared & Analyzed: 12/20/2023			
Chloride	1.5	0.2	mg/L		1.5			0.195	10
Nitrate Nitrogen as NO3N	0.5	0.1	mg/L		0.5			0.204	10
Sulfate (SO4)	4.9	0.5	mg/L		4.9			0.286	10

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20280 Road 52
Tulare, CA 93274

Account# 00-0013323
Account Manager: Ben Nydam
Submitted By:
Ranch: 5041 Ave 192 Tulare

Received: 12/18/2023 15:27
Reported: 12/26/2023 12:04

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0728 (Continued)									
Duplicate (BEL0728-DUP3)		Source: 23L1142-01		Prepared & Analyzed: 12/20/2023					
Chloride	85.0	0.2	mg/L		84.8			0.237	10
Nitrate Nitrogen as NO3N	6.1	0.1	mg/L		6.1			0.246	10
Sulfate (SO4)	42.1	0.5	mg/L		41.9			0.409	10
Matrix Spike (BEL0728-MS1)		Source: 23L1090-01		Prepared & Analyzed: 12/19/2023					
Chloride	18.5	0.2	mg/L	5.000	13.6	99.0	90-110		
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	0.1	101	90-110		
Sulfate (SO4)	17.0	0.5	mg/L	5.000	11.9	103	90-110		
Matrix Spike (BEL0728-MS2)		Source: 23L1111-01		Prepared & Analyzed: 12/19/2023					
Chloride	6.6	0.2	mg/L	5.000	1.5	102	90-110		
Nitrate Nitrogen as NO3N	5.6	0.1	mg/L	5.000	0.5	102	90-110		
Sulfate (SO4)	10.0	0.5	mg/L	5.000	4.9	102	90-110		
Matrix Spike (BEL0728-MS3)		Source: 23L1142-01		Prepared & Analyzed: 12/20/2023					
Chloride	88.9	0.2	mg/L	5.000	84.8	81.2	90-110		
Nitrate Nitrogen as NO3N	11.2	0.1	mg/L	5.000	6.1	102	90-110		
Sulfate (SO4)	47.0	0.5	mg/L	5.000	41.9	102	90-110		
Reference (BEL0728-SRM1)				Prepared & Analyzed: 12/19/2023					
Chloride	12.8		mg/L	12.50		102	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	9.9		mg/L	10.00		99.2	90-110		
Reference (BEL0728-SRM2)				Prepared & Analyzed: 12/19/2023					
Chloride	12.8		mg/L	12.50		103	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	9.9		mg/L	10.00		99.4	90-110		
Reference (BEL0728-SRM3)				Prepared & Analyzed: 12/20/2023					
Chloride	12.9		mg/L	12.50		103	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	10.0		mg/L	10.00		99.8	90-110		
Reference (BEL0728-SRM4)				Prepared & Analyzed: 12/20/2023					
Chloride	12.8		mg/L	12.50		102	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	9.9		mg/L	10.00		99.4	90-110		

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12/18/23 15:27

23L1085

**WATER WORK REQUEST**Acct No. 13323 Consultant No. 08 PO No. Client Rio Blanco Dairy
Address 20280 Road 52
City, State, ZIP Tulare, CA 93274
Cell/Office Phone 559-285-8869Email jeff@mayflowerco.comCopy to: @gmail.com; rafael@mayflowerco.com; lisa@rRequested By Project/Ranch 5041 Ave 192 TulareID Crop Water Type Ground WaterSampled By Client/Cynthia Tiemersma

Sampling Notes:

Picked up by Cynthia Tiemersma

No. Bottles 24 No. of Samples 4**Lab Analysis & Bottles Required**

DWW2

Lab/Office Notes:
Sola Quarterly**DESCRIPTION OF SAMPLES**

		Date Sampled	Time Sampled	Received Temp °C
1.	DW 1	12/18	8:00	0.8
2.	DW 2	"	7:30	1.3
3.	DW 3	"	7:00	1.5
4.	DW 4	"	8:00	0.7
5.				
6.				
7.				
8.				
9.				
10.				

IR Thermometer SN: 192603727
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory☒ QA/QC Doc ☒ Copy of Chain ☐ RWQCB ☐ CO Health Dept ☐ State Forms**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>CT</u>	<u>DLI</u>	<u>12/18/23 9:43</u>	<u>12/18/23 11:53</u>
Second	<u>B</u>	<u>DLB</u>	<u>12/18/23 2:04 pm</u>	
Third				
Fourth	<u>12</u>	<u>DLI</u>	<u>12/18/23 15:27</u>	

Shipping

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728 www.dellavallelab.com 559 233-6129

12/18/23 15:27

23L1085

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input checked="" type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input 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 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 <i>(Containers that go into the Lab)</i>											
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	1	1	1						
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
Sample Containers for Subcontracted ("Send Out") Analyses <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>											
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:										
Other:											