

## DAIRY FACILITY INFORMATION

**A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:**Bear Mountain Dairy

Physical address of dairy:

4551 Bear Mountain Blvd

Number and Street

Bakersfield

City

Kern

County

93313

Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation:

01-01-2000

Regional Water Quality Control Board Basin Plan designation:

Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0184-0450-0033-0000 0184-0450-0048-0000 0184-0450-0050-0000 0184-0450-0051-0000 0184-0450-0052-0000 0184-0450-0053-0000**B. OPERATORS**Ramon Echeverria

Operator Name:

Ramon Echeverria

Telephone no.:

(661) 074-7063

Landline

Cellular

4551 Bear Mountain Blvd

Mailing Address Number and Street

Bakersfield

City

Kern

County

93313

Zip Code

**C. OWNERS**Ramon Echeverria

Owner Name:

Ramon Echeverria

Telephone no.:

(661) 074-7063

Landline

Cellular

4551 Bear Mountain Blvd

Mailing Address Number and Street

Bakersfield

City

Kern

County

93313

Zip Code

# 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	2,548	623	898	988	392	374
Number under roof	0	0	0	0	0	0
Maxiumu number	2,550	630	915	1,010	400	380
Average number	2,548	623	898	988	392	374
Average live weight (lbs)	1400	1450	1000	300		

Predominant milk cow breed: Holsteins

Average Milk Production: 70 pounds per cow per day

## B. MANURE GENERATED

Total manure excreted by the herd: 94,561.99 tons per reporting period

Total nitrogen from manure: 1,186,369.99 lbs per reporting period

After ammonia losses (30% loss applied): 830,459.00 lbs per reporting period

Total phosphorus from manure: 192,735.09 lbs per reporting period

Total potassium from manure: 487,965.51 lbs per reporting period

Total salt from manure: 1,342,984.65 lbs per reporting period

## C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 21,752,778.98 gallons

Total nitrogen generated: 59,700.73 lbs

Total phosphorus generated: 114,531,007.50 lbs

Total potassium generated: 144,444.05 lbs

Total salt generated: 1,017,311.68 lbs

	21,752,778.98 gallons applied
+	0 gallons exported
-	0 gallons imported
=	21,752,778.98 gallons generated

## D. FRESH WATER SOURCES

Source Description	Type
BM-DW2	Ground Water
Canal - Kern Island	Surface Water
W300-12	Ground Water
W300-2	Ground Water
W300-7	Ground Water
W300-8	Ground Water
W300-9	Ground Water

## E. SUBSURFACE (TILE) DRAINAGE SOURCES

No fresh water 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

Date	Material type	Quantity	Reporting basis	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	TFS (%)
02/18/2023	Separator solids	5,741 tons	as-is	67.4	24,400.00	9,270.00	24,660.00	30.00
06/13/2023	Separator solids	3,165 tons	as-is	68.2	20,110.00	7,250.00	14,770.00	35.00
06/25/2023	Separator solids	3,198 tons	as-is	69.4	20,110.00	7,250.00	14,770.00	35.00
06/25/2023	Separator solids	4,216 tons	as-is	63.8	20,110.00	7,250.00	14,770.00	35.00
08/19/2023	Separator solids	5,508 tons	as-is	67.8	20,110.00	7,250.00	14,770.00	35.00
09/05/2023	Separator solids	11,563 tons	as-is	68.2	20,110.00	7,250.00	14,770.00	35.00
09/22/2023	Separator solids	7,345 tons	as-is	70.1	17,800.00	5,550.00	18,920.00	50.00
11/27/2023	Separator solids	1,211 tons	as-is	65.4	17,800.00	5,550.00	18,920.00	50.00
12/11/2023	Separator solids	8,326 tons	as-is	68.4	17,800.00	5,550.00	18,920.00	50.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	1,993,243.00	694,753.34	1,738,742.00	39,681,600.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	1,993,243.00	694,753.34	1,738,742.00	39,681,600.00

## APPLICATION AREA

## A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
36-3	78.38	78.00	1	BOTH	0184-0450-0052-0000
36-4	74.06	71.84	1	BOTH	0184-0450-0052-0000
36-5	80.44	78.00	8	NONE	0184-0450-0050-0000
36-6	83.59	81.08	8	NONE	0184-0450-0051-0000
36-7	86.08	84.00	1	BOTH	0184-0450-0053-0000
36-8	86.56	86.00	1	BOTH	0184-0450-0053-0000
36-1	61.67	56.00	1	BOTH	0184-0450-0048-0000, 0184-0450-0050-0000
36-2	76.77	74.47	8	PROCESS WASTEWATER	0184-0450-0051-0000
Totals for areas that were used for application	627.55	609.39	29.00		
Totals for areas that were not used for application	18.16	18.16			
Land application area totals	627.55	627.55	29.00		

**B. CROPS AND HARVESTS****35-9**Field Name: 35-9**05/01/2023: Corn Silage**Crop: Corn Silage Acres planted: 36.19 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/07/2023	718.73 ton	As-is		0.00	5,288.50	1,123.50	6,380.50	45.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	19.86	210.06	44.63	253.43	0.00

Field Name: 36-3

**11/06/2022: Triticale**

Crop: Triticale Acres planted: 78 Plant date: 11/06/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/28/2023	1,436.53 ton	As-is		0.00	6,332.40	961.20	7,052.40	363.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	18.42	233.25	35.40	259.77	0.00

Field Name: 36-4

**11/09/2022: Triticale**

Crop: Triticale Acres planted: 71.84 Plant date: 11/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,423.94 ton	As-is		0.00	5,637.60	900.00	7,041.60	428.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	19.82	223.49	35.68	279.14	0.00

Field Name: 36-7

**11/07/2022: Triticale**

Crop: Triticale Acres planted: 84 Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/29/2023	1,498.31 ton	As-is		0.00	6,375.60	982.80	6,469.20	284.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	17.84	227.44	35.06	230.78	0.00



Field Name: 36-8

**11/09/2022: Triticale**

Crop: Triticale Acres planted: 86 Plant date: 11/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,714.41 ton	As-is		0.00	5,702.40	874.80	6,130.80	248.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	19.93	227.35	34.88	244.43	0.00

Field Name: 36-1

**11/01/2022: Triticale**

Crop: Triticale Acres planted: 56 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/07/2023	1,063.44 ton	As-is		0.00	5,637.60	900.00	7,041.60	428.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	18.99	214.12	34.18	267.44	0.00

Field Name: 36-5

**01/02/2019: Alfalfa**

Crop: Alfalfa Acres planted: 78 Plant date: 01/02/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/05/2023	105.30 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
05/06/2023	95.94 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
06/05/2023	103.74 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
07/04/2023	110.76 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
08/03/2023	121.68 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
09/01/2023	109.20 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
09/29/2023	101.40 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
10/31/2023	78.00 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00

	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	240.00
Total actual harvest content	10.59	218.48	43.26	238.65	0.00

Field Name: 36-6

**10/15/2020: Alfalfa**

Crop: Alfalfa Acres planted: 81.08 Plant date: 10/15/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/30/2023	109.46 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
04/30/2023	97.30 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
05/30/2023	109.46 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
06/28/2023	115.94 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
07/28/2023	124.86 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
08/26/2023	113.51 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
09/23/2023	105.40 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
10/25/2023	81.08 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00

	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	240.00
Total actual harvest content	10.57	218.07	43.18	238.20	0.00

Field Name: 36-3

**05/01/2023: Corn Silage**

Crop: Corn Silage Acres planted: 78 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/09/2023	1,517.41 ton	As-is		0.00	4,441.50	955.50	4,882.50	24.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	19.45	172.81	37.18	189.97	0.00

Field Name: 36-4

**05/01/2023: Corn Silage**

Crop: Corn Silage Acres planted: 71.84 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	1,719.49 ton	As-is		0.00	5,348.00	948.50	6,132.00	31.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	23.93	256.01	45.40	293.54	0.00

Field Name: 36-7

**05/01/2023: Corn Silage**

Crop: Corn Silage Acres planted: 84 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/15/2023	2,355.61 ton	As-is		0.00	5,008.50	773.50	5,761.00	28.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	28.04	280.91	43.38	323.11	0.00

Field Name: 36-8

**05/01/2023: Corn Silage**

Crop: Corn Silage Acres planted: 86 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/14/2023	2,217.68 ton	As-is		0.00	4,893.00	924.00	6,566.00	31.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	25.79	252.35	47.65	338.63	0.00



Field Name: 36-2

**05/01/2023: Corn Silage**

Crop: Corn Silage Acres planted: 74.47 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/17/2023	1,463.71 ton	As-is		0.00	4,595.50	1,011.50	5,649.00	35.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	19.66	180.65	39.76	222.06	0.00

# NUTRIENT BUDGET

## A. LAND APPLICATIONS

35-9

Field name: 35-9 Crop: Corn Silage Plant date: 05/01/2023

### 05/01/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/20/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	506.66 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

05/10/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,154.77	28,753.68	109.70	5,007,908.02 <i>gal</i>
Application event totals		0.00	1,154.77	28,753.68	109.70	

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
Canal Water	Ground water	0.00	1,144.34	28,494.14	108.71	4,962,703.66 <i>gal</i>
Lagoon Water Effluent	Process wastewater	46.62	86,217.73	122.57	871.10	644,660.11 <i>gal</i>
Application event totals		46.62	87,362.07	28,616.71	979.81	

06/08/2023	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 Water	Ground water	0.00	1,359.62	33,854.42	129.16	5,896,281.35 <i>gal</i>
Lagoon Water Effluent	Process wastewater	59.34	109,743.60	156.01	1,108.79	820,565.80 <i>gal</i>
Application event totals		59.34	111,103.22	34,010.43	1,237.95	

06/22/2023	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
Lagoon Water Effluent	Process wastewater	61.40	113,555.06	161.43	1,147.30	849,064.54 <i>gal</i>
Well Water	Ground water	0.00	1,390.43	1.62	337.18	6,029,930.55 <i>gal</i>
Application event totals		61.40	114,945.49	163.05	1,484.48	

07/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,417.17	1.65	343.66	6,145,890.78 <i>gal</i>
Lagoon Water Effluent	Process wastewater	67.51	124,857.99	177.50	1,261.50	933,577.87 <i>gal</i>
Application event totals		67.51	126,275.16	179.15	1,605.16	

07/20/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,189.66	1.39	288.49	5,159,246.18 <i>gal</i>
Application event totals		0.00	1,189.66	1.39	288.49	

Field name: 36-1

Crop: Triticale

Plant date: 11/01/2022

**11/01/2022: Triticale**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/15/2022	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
Corral Solids	Corral Solids	190.71	68.08	214.47	2,266.64	224.00 <i>ton</i>
Application event totals		190.71	68.08	214.47	2,266.64	
11/01/2022	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
Well Water	Ground water	0.76	1,099.02	1.93	383.56	7,375,103.82 <i>gal</i>
Application event totals		0.76	1,099.02	1.93	383.56	
11/27/2022	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
Well Water	Ground water	0.70	1,019.71	1.79	355.88	6,842,879.97 <i>gal</i>
Lagoon Water Effluent	Process wastewater	25.68	56,599.87	46.90	393.53	407,531.53 <i>gal</i>
Application event totals		26.38	57,619.58	48.69	749.41	
12/27/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.35	0.00	26,506.74	183.87	6,669,526.52 <i>gal</i>
Application event totals		0.35	0.00	26,506.74	183.87	
01/22/2023	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
Well Water	Ground water	0.00	1,196.46	1.40	290.14	8,028,979.49 <i>gal</i>
Application event totals		0.00	1,196.46	1.40	290.14	
02/17/2023	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
Lagoon Water Effluent	Process wastewater	29.21	61,547.51	47.69	250.89	526,141.42 <i>gal</i>
Canal Water	Ground water	0.00	940.40	23,415.97	89.34	6,310,656.12 <i>gal</i>
Application event totals		29.21	62,487.91	23,463.66	340.23	

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		
Well Water	Ground water	0.00	1,008.38	1.18	244.53	6,766,847.68 <i>gal</i>		
Application event totals		0.00	1,008.38	1.18	244.53			

03/25/2023	Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Lagoon Water Effluent	Process wastewater	20.94	44,114.98	34.18	179.83	377,118.71 <i>gal</i>		
Canal Water	Ground water	0.00	929.07	23,133.85	88.26	6,234,623.83 <i>gal</i>		
Application event totals		20.94	45,044.05	23,168.03	268.09			

Field name: 36-2

Crop: Corn Silage

Plant date: 05/01/2023

**05/01/2023: Corn Silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/20/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,042.58 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

05/01/2023	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
Well Water	Ground water	0.00	1,190.12	1.39	288.60	10,620,487.40 <i>gal</i>
Application event totals		0.00	1,190.12	1.39	288.60	

05/05/2023	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
Well Water	Ground water	0.00	1,155.67	1.35	280.25	10,313,116.18 <i>gal</i>
Application event totals		0.00	1,155.67	1.35	280.25	

05/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,110.35	27,647.77	105.48	9,908,680.63 <i>gal</i>
Application event totals		0.00	1,110.35	27,647.77	105.48	

05/30/2023	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
Well Water	Ground water	0.00	1,359.62	1.59	329.71	12,133,078.09 <i>gal</i>
Lagoon Water Effluent	Process wastewater	78.17	144,572.41	205.53	1,460.68	2,224,397.70 <i>gal</i>
Application event totals		78.17	145,932.03	207.12	1,790.39	

06/13/2023	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
Lagoon Water Effluent	Process wastewater	87.41	161,658.24	229.82	1,633.31	2,487,281.05 <i>gal</i>
Canal Water	Ground water	0.00	1,363.69	33,955.98	129.55	12,169,477.58 <i>gal</i>
Application event totals		87.41	163,021.93	34,185.80	1,762.86	

06/27/2023		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			
Well Water	Ground water	0.00	1,323.59	1.55	320.97	11,811,551.68 <i>gal</i>			
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	372.35 <i>Gal.</i>			
Application event totals		17.70	1,323.59	1.55	320.97				

07/11/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Canal Water	Ground water	0.00	1,178.33	29,340.49	111.94	10,515,333.96 <i>gal</i>			
Application event totals		0.00	1,178.33	29,340.49	111.94				

Field name: 36-3

Crop: Corn Silage

Plant date: 05/01/2023

**05/01/2023: Corn Silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/20/2023	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
Corral Solids	Corral Solids	103.49	29.58	90.55	3,586.80	390.00 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,092.00 <i>Lbs</i>
Application event totals		117.49	29.58	90.55	3,586.80	

05/01/2023	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 Water	Ground water	0.00	1,190.12	29,633.90	113.06	11,123,915.71 <i>gal</i>
Application event totals		0.00	1,190.12	29,633.90	113.06	

05/05/2023	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
Well Water	Ground water	0.75	1,155.67	18,259.63	135.79	10,801,974.61 <i>gal</i>
Application event totals		0.75	1,155.67	18,259.63	135.79	

05/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,155.67	28,776.25	109.79	10,801,974.61 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.00 <i>Gal.</i>
Application event totals		17.70	1,155.67	28,776.25	109.79	

05/30/2023	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
Lagoon Water Effluent	Process wastewater	62.32	115,263.63	163.86	1,164.56	1,857,516.01 <i>gal</i>
Canal Water	Ground water	0.00	1,373.21	34,192.96	130.46	12,835,287.60 <i>gal</i>
Application event totals		62.32	116,636.84	34,356.82	1,295.02	

06/13/2023	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
--------------------	---------------	--------------	--------------	--------------	-----------------	--------



Lagoon Water Effluent	Process wastewater	12.72	23,525.87	33.44	237.69	379,128.15 <i>gal</i>
Well Water	Ground water	0.86	1,336.95	21,123.89	157.09	12,496,402.44 <i>gal</i>
Application event totals		13.58	24,862.82	21,157.33	394.78	

06/27/2023	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
Well Water	Ground water	0.89	1,377.06	21,757.60	161.80	12,871,294.60 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.00 <i>Gal.</i>
Application event totals		18.59	1,377.06	21,757.60	161.80	

07/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.78	1,200.99	18,975.70	141.12	11,225,582.07 <i>gal</i>
Application event totals		0.78	1,200.99	18,975.70	141.12	

#### 11/06/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2022	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
Corral Solids	Corral Solids	238.39	85.10	268.09	2,833.30	390.00 <i>ton</i>
Application event totals		238.39	85.10	268.09	2,833.30	

11/06/2022	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
Lagoon Water Effluent	Process wastewater	14.56	32,101.42	26.60	223.19	321,941.20 <i>gal</i>
Canal Water	Ground water	0.36	0.00	27,431.40	190.28	9,613,757.66 <i>gal</i>
Application event totals		14.92	32,101.42	27,458.00	413.47	

12/02/2022	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
Well Water	Ground water	1.04	929.07	1.47	235.36	8,683,940.33 <i>gal</i>
Application event totals		1.04	929.07	1.47	235.36	

01/01/2023	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 Water	Ground water	0.00	1,019.71	25,390.81	96.87	9,531,154.25 <i>gal</i>
Application event totals		0.00	1,019.71	25,390.81	96.87	

01/27/2023	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
Canal Water	Ground water	0.00	1,114.88	27,760.62	105.91	10,420,728.80 <i>gal</i>
Application event totals		0.00	1,114.88	27,760.62	105.91	

02/22/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.00 <i>Gal.</i>
Well Water	Ground water	0.64	997.05	15,753.41	117.15	9,319,351.02 <i>gal</i>
Application event totals		18.34	997.05	15,753.41	117.15	

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
Well Water	Ground water	0.59	906.41	14,321.28	106.50	8,472,137.11 <i>gal</i>
Lagoon Water Effluent	Process wastewater	18.41	38,778.49	30.05	158.08	461,731.46 <i>gal</i>
Application event totals		19.00	39,684.90	14,351.33	264.58	

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
Well Water	Ground water	0.64	985.72	15,574.39	115.82	9,213,448.90 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	24.77	0.00	0.00	0.00	546.00 <i>Gal.</i>
Application event totals		25.41	985.72	15,574.39	115.82	

Field name: 36-4

Crop: Corn Silage

Plant date: 05/01/2023

**05/01/2023: Corn Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/20/2023	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
Corral Solids	Corral Solids	103.49	29.58	90.55	3,586.80	359.20 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,005.76 <i>Lbs</i>
Application event totals		117.49	29.58	90.55	3,586.80	
05/01/2023	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
Well Water	Ground water	0.76	1,178.33	18,617.66	138.45	10,143,971.27 <i>gal</i>
Application event totals		0.76	1,178.33	18,617.66	138.45	
05/05/2023	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 Water	Ground water	0.00	1,121.68	27,929.89	106.56	9,656,280.33 <i>gal</i>
Application event totals		0.00	1,121.68	27,929.89	106.56	
05/16/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,110.35	27,647.77	105.48	9,558,742.70 <i>gal</i>
Lagoon Water Effluent	Process wastewater	55.86	103,303.56	146.86	1,043.72	1,533,300.36 <i>gal</i>
Application event totals		55.86	104,413.91	27,794.63	1,149.20	
05/30/2023	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
Lagoon Water Effluent	Process wastewater	67.23	124,332.27	176.75	1,256.18	1,845,422.49 <i>gal</i>
Well Water	Ground water	0.87	1,346.02	21,267.10	158.16	11,587,536.95 <i>gal</i>
Application event totals		68.10	125,678.29	21,443.85	1,414.34	
06/13/2023	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
Lagoon Water Effluent	Process wastewater	70.64	130,640.89	185.72	1,319.92	1,939,059.23 <i>gal</i>
Canal Water	Ground water	0.00	1,363.69	33,955.98	129.55	11,739,696.66 <i>gal</i>

Application event totals		70.64	132,004.58	34,141.70	1,449.47	
--------------------------	--	-------	------------	-----------	----------	--

06/27/2023	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
Well Water	Ground water	0.89	1,377.06	21,757.60	161.80	11,854,791.75 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	359.20 <i>Gal.</i>
Application event totals		18.59	1,377.06	21,757.60	161.80	

07/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.77	1,189.66	18,796.68	139.79	10,241,509.83 <i>gal</i>
Application event totals		0.77	1,189.66	18,796.68	139.79	

#### 11/09/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2022	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
Corral Solids	Corral Solids	238.39	85.10	268.09	2,833.30	359.20 <i>ton</i>
Application event totals		238.39	85.10	268.09	2,833.30	

11/09/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.39	0.00	29,310.92	203.32	9,461,204.14 <i>gal</i>
Application event totals		0.39	0.00	29,310.92	203.32	

12/05/2022	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
Lagoon Water Effluent	Process wastewater	13.22	29,144.71	24.15	202.64	269,205.39 <i>gal</i>
Canal Water	Ground water	0.35	0.00	26,591.35	184.45	8,583,360.81 <i>gal</i>
Application event totals		13.57	29,144.71	26,615.50	387.09	

01/04/2023	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
Well Water	Ground water	0.59	917.74	14,500.30	107.83	7,900,593.67 <i>gal</i>

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	359.20 <i>Gal.</i>
Application event totals		18.29	917.74	14,500.30	107.83	

01/30/2023	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
Well Water	Ground water	0.74	1,143.44	18,066.29	134.35	9,843,554.03 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	359.20 <i>Gal.</i>
Application event totals		18.44	1,143.44	18,066.29	134.35	

02/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.63	974.39	15,395.38	114.49	8,388,284.62 <i>gal</i>
Application event totals		0.63	974.39	15,395.38	114.49	

03/12/2023	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
Well Water	Ground water	0.64	985.72	15,574.39	115.82	8,485,822.25 <i>gal</i>
Application event totals		0.64	985.72	15,574.39	115.82	

04/02/2023	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
Lagoon Water Effluent	Process wastewater	13.68	28,817.04	22.33	117.47	316,023.73 <i>gal</i>
Canal Water	Ground water	0.00	1,132.56	28,200.73	107.59	9,749,917.65 <i>gal</i>
Application event totals		13.68	29,949.60	28,223.06	225.06	

Field name: 36-5

Crop: Alfalfa

Plant date: 01/02/2019

**01/02/2019: Alfalfa**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,092.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/14/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,107.63	27,580.06	105.23	10,352,951.57 <i>gal</i>
Application event totals		0.00	1,107.63	27,580.06	105.23	
03/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.71	1,099.02	17,364.55	129.14	10,272,466.04 <i>gal</i>
Application event totals		0.71	1,099.02	17,364.55	129.14	
04/03/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,099.02	27,365.65	104.41	10,272,466.04 <i>gal</i>
Application event totals		0.00	1,099.02	27,365.65	104.41	
05/04/2023	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
Well Water	Ground water	0.75	1,155.67	18,259.63	135.79	10,801,974.61 <i>gal</i>
Application event totals		0.75	1,155.67	18,259.63	135.79	
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
Canal Water	Ground water	0.00	1,155.67	28,776.25	109.79	10,801,974.61 <i>gal</i>
Application event totals		0.00	1,155.67	28,776.25	109.79	
07/01/2023	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

Well Water	Ground water	0.75	1,167.00	18,438.65	137.12	10,907,876.73 <i>gal</i>
Application event totals		0.75	1,167.00	18,438.65	137.12	

08/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.93	1,441.19	22,770.83	169.34	13,470,698.28 <i>gal</i>
Application event totals		0.93	1,441.19	22,770.83	169.34	

08/29/2023	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 Water	Ground water	0.00	1,441.19	35,885.68	136.91	13,470,698.28 <i>gal</i>
Application event totals		0.00	1,441.19	35,885.68	136.91	

09/26/2023	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
Well Water	Ground water	0.89	1,373.21	21,696.74	161.35	12,835,287.60 <i>gal</i>
Application event totals		0.89	1,373.21	21,696.74	161.35	

10/28/2023	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
Well Water	Ground water	0.87	1,346.02	21,267.10	158.16	12,581,123.73 <i>gal</i>
Application event totals		0.87	1,346.02	21,267.10	158.16	

Field name: 36-6

Crop: Alfalfa

Plant date: 10/15/2020

**10/15/2020: Alfalfa**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,135.12 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/14/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	954.45	23,765.80	90.67	9,273,431.81 <i>gal</i>
Application event totals		0.00	954.45	23,765.80	90.67	
03/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,065.03	26,519.29	101.18	10,347,846.35 <i>gal</i>
Application event totals		0.00	1,065.03	26,519.29	101.18	
04/03/2023	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
Well Water	Ground water	0.70	1,076.36	17,006.52	126.47	10,457,930.25 <i>gal</i>
Application event totals		0.70	1,076.36	17,006.52	126.47	
05/04/2023	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
Well Water	Ground water	0.73	1,133.01	17,901.60	133.13	11,008,347.63 <i>gal</i>
Application event totals		0.73	1,133.01	17,901.60	133.13	
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
Well Water	Ground water	0.73	1,133.01	17,901.60	133.13	11,008,347.63 <i>gal</i>
Application event totals		0.73	1,133.01	17,901.60	133.13	
07/01/2023	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 Water	Ground water	0.00	1,178.33	29,340.49	111.94	11,448,681.12 <i>gal</i>
Application event totals		0.00	1,178.33	29,340.49	111.94	
08/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.91	1,414.00	22,341.19	166.14	13,738,417.34 <i>gal</i>
Application event totals		0.91	1,414.00	22,341.19	166.14	
08/29/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.91	1,400.40	22,126.38	164.55	13,606,317.29 <i>gal</i>
Application event totals		0.91	1,400.40	22,126.38	164.55	
09/26/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,346.02	33,515.87	127.87	13,077,917.11 <i>gal</i>
Application event totals		0.00	1,346.02	33,515.87	127.87	
10/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.85	1,318.83	20,837.46	154.96	12,813,717.02 <i>gal</i>
Application event totals		0.85	1,318.83	20,837.46	154.96	

Field name: 36-7

Crop: Corn Silage

Plant date: 05/01/2023

**05/01/2023: Corn Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.38	0.00	29,008.75	201.22	10,948,608.39 <i>gal</i>
Corral Solids	Corral Solids	206.98	59.15	181.10	7,173.60	840.00 <i>ton</i>
Application event totals		207.36	59.15	29,189.85	7,374.82	
04/22/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,176.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
05/03/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,201.90	29,927.30	114.18	12,098,211.56 <i>gal</i>
Application event totals		0.00	1,201.90	29,927.30	114.18	
05/16/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	1,260.00 <i>Gal.</i>
Application event totals		53.09	0.00	0.00	0.00	
05/21/2023	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
Well Water	Ground water	0.74	1,144.34	18,080.62	134.46	11,518,848.39 <i>gal</i>
Application event totals		0.74	1,144.34	18,080.62	134.46	
06/01/2023	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 Water	Ground water	0.00	1,155.67	28,776.25	109.79	11,632,895.73 <i>gal</i>
Application event totals		0.00	1,155.67	28,776.25	109.79	

06/15/2023	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
Lagoon Water Effluent	Process wastewater	16.84	31,148.78	44.28	314.71	540,587.53 <i>gal</i>
Well Water	Ground water	0.87	1,346.02	21,267.10	158.16	13,548,902.47 <i>gal</i>
Application event totals		17.71	32,494.80	21,311.38	472.87	

06/29/2023	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
Well Water	Ground water	0.88	1,363.69	21,546.37	160.23	13,726,817.51 <i>gal</i>
Lagoon Water Effluent	Process wastewater	14.07	26,023.03	36.99	262.92	451,630.08 <i>gal</i>
Application event totals		14.95	27,386.72	21,583.36	423.15	

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
Canal Water	Ground water	0.00	1,323.59	32,957.27	125.74	13,323,087.49 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	1,260.00 <i>Gal.</i>
Application event totals		53.09	1,323.59	32,957.27	125.74	

07/29/2023	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
Well Water	Ground water	0.78	1,200.99	18,975.70	141.12	12,089,088.38 <i>gal</i>
Application event totals		0.78	1,200.99	18,975.70	141.12	

#### 11/07/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2022	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
Corral Solids	Corral Solids	238.39	85.10	268.09	2,833.30	420.00 <i>ton</i>
Application event totals		238.39	85.10	268.09	2,833.30	

11/07/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.37	0.00	28,404.40	197.03	10,720,511.52 <i>gal</i>
Application event totals		0.37	0.00	28,404.40	197.03	

12/03/2022	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
Lagoon Water Effluent	Process wastewater	13.60	29,989.48	24.85	208.51	323,896.33 <i>gal</i>
Well Water	Ground water	1.08	963.06	1.52	243.98	9,694,079.96 <i>gal</i>
Application event totals		14.68	30,952.54	26.37	452.49	

01/02/2023	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
Well Water	Ground water	0.60	929.07	14,679.31	109.17	9,351,935.74 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	420.00 <i>Gal.</i>
Application event totals		18.30	929.07	14,679.31	109.17	

01/28/2023	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
Well Water	Ground water	0.72	1,117.15	17,650.98	131.27	11,245,133.45 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	420.00 <i>Gal.</i>
Application event totals		18.42	1,117.15	17,650.98	131.27	

02/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.72	1,110.35	17,543.57	130.47	11,176,704.17 <i>gal</i>
Application event totals		0.72	1,110.35	17,543.57	130.47	

03/10/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,042.37	25,955.05	99.03	10,492,415.74 <i>gal</i>
Application event totals		0.00	1,042.37	25,955.05	99.03	

03/31/2023	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
--------------------	---------------	--------------	--------------	--------------	-----------------	--------

Lagoon Water Effluent	Process wastewater	16.38	34,509.30	26.74	140.67	442,506.25 <i>gal</i>
Canal Water	Ground water	0.00	959.21	23,884.29	91.12	9,655,303.19 <i>gal</i>
Application event totals		16.38	35,468.51	23,911.03	231.79	

Field name: 36-8

Crop: Corn Silage

Plant date: 05/01/2023

**05/01/2023: Corn Silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/20/2023	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
Corral Solids	Corral Solids	206.98	59.15	181.10	7,173.60	860.00 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,204.00 <i>Lbs</i>
Application event totals		220.98	59.15	181.10	7,173.60	

05/01/2023	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 Water	Ground water	0.00	1,110.81	27,659.06	105.53	11,447,486.37 <i>gal</i>
Application event totals		0.00	1,110.81	27,659.06	105.53	

05/05/2023	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
Well Water	Ground water	0.69	1,064.58	16,820.34	125.09	10,971,091.60 <i>gal</i>
Application event totals		0.69	1,064.58	16,820.34	125.09	

05/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,402.90	34,932.12	133.28	14,457,647.63 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	860.00 <i>Gal.</i>
Application event totals		35.39	1,402.90	34,932.12	133.28	

05/30/2023	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
Lagoon Water Effluent	Process wastewater	13.64	25,234.46	35.87	254.96	448,371.57 <i>gal</i>
Well Water	Ground water	0.95	1,465.21	23,150.35	172.16	15,099,846.71 <i>gal</i>
Application event totals		14.59	26,699.67	23,186.22	427.12	

06/13/2023	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
--------------------	---------------	--------------	--------------	--------------	-----------------	--------

Lagoon Water Effluent	Process wastewater	18.62	34,434.52	48.95	347.91	611,840.35 <i>gal</i>
Canal Water	Ground water	0.00	1,450.26	36,111.38	137.77	14,945,719.02 <i>gal</i>
Application event totals		18.62	35,884.78	36,160.33	485.68	

06/27/2023	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
Well Water	Ground water	0.98	1,507.81	23,823.45	177.17	15,538,876.55 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	860.00 <i>Gal.</i>
Application event totals		36.37	1,507.81	23,823.45	177.17	

07/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.75	1,166.32	18,427.91	137.04	12,019,626.90 <i>gal</i>
Application event totals		0.75	1,166.32	18,427.91	137.04	

#### 11/09/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2022	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
Corral Solids	Corral Solids	238.39	85.10	268.09	2,833.30	430.00 <i>ton</i>
Application event totals		238.39	85.10	268.09	2,833.30	

11/09/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.31	0.00	23,333.91	161.86	9,016,472.06 <i>gal</i>
Application event totals		0.31	0.00	23,333.91	161.86	

12/05/2022	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
Well Water	Ground water	1.16	1,041.69	1.64	263.90	10,735,229.86 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.43	34,002.16	28.18	236.41	375,978.23 <i>gal</i>
Application event totals		16.59	35,043.85	29.82	500.31	

01/04/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	430.00 <i>Gal.</i>
Canal Water	Ground water	0.00	852.25	21,221.08	80.96	8,782,944.87 <i>gal</i>
Application event totals		17.70	852.25	21,221.08	80.96	

01/30/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	430.00 <i>Gal.</i>
Well Water	Ground water	0.75	1,162.24	18,363.46	136.56	11,977,592.89 <i>gal</i>
Application event totals		18.45	1,162.24	18,363.46	136.56	

02/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.74	1,139.58	18,005.43	133.90	11,744,065.14 <i>gal</i>
Application event totals		0.74	1,139.58	18,005.43	133.90	

03/12/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	894.40	22,270.56	84.97	9,217,305.07 <i>gal</i>
Application event totals		0.00	894.40	22,270.56	84.97	

04/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
------------	----------------------	------------------	------------------	------------------

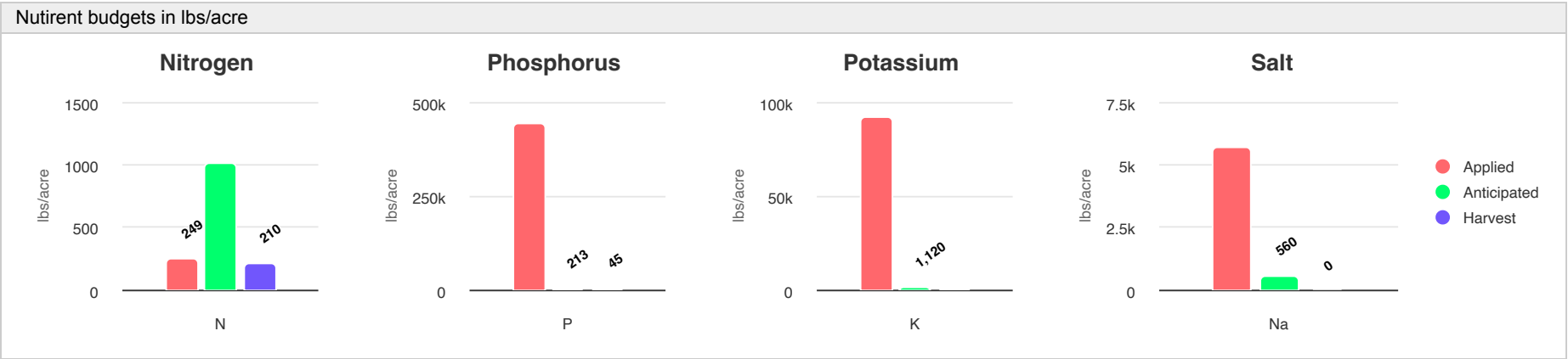
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.85	1,307.27	20,654.87	153.60	13,472,164.46 <i>gal</i>
Lagoon Water Effluent	Process wastewater	13.17	27,749.75	21.50	113.12	364,301.90 <i>gal</i>
Application event totals		14.02	29,057.02	20,676.37	266.72	



**B. NUTRIENT BUDGET**

35-9 - 05/01/2023: Corn Silage

Field name: 35-9      Crop: Corn Silage      Plant date: 05/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	234.87	434,374.38	617.51	4,388.69
Fresh water	0.00	7,655.99	91,106.90	1,316.90
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	248.87	442,030.37	91,724.41	5,705.59
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	210.06	44.63	253.43	0.00
Nutrient balance	38.81	441,985.74	91,470.98	5,705.59
Applied to removed ratio	1.18	9,905.35	361.93	0.00

Fresh water applied	
33,201,960.54	gallons
1,222.72	acre-inches
33.79	inches/acre

Process wastewater applied	
3,247,868.32	gallons
119.61	acre-inches
3.31	inches/acre

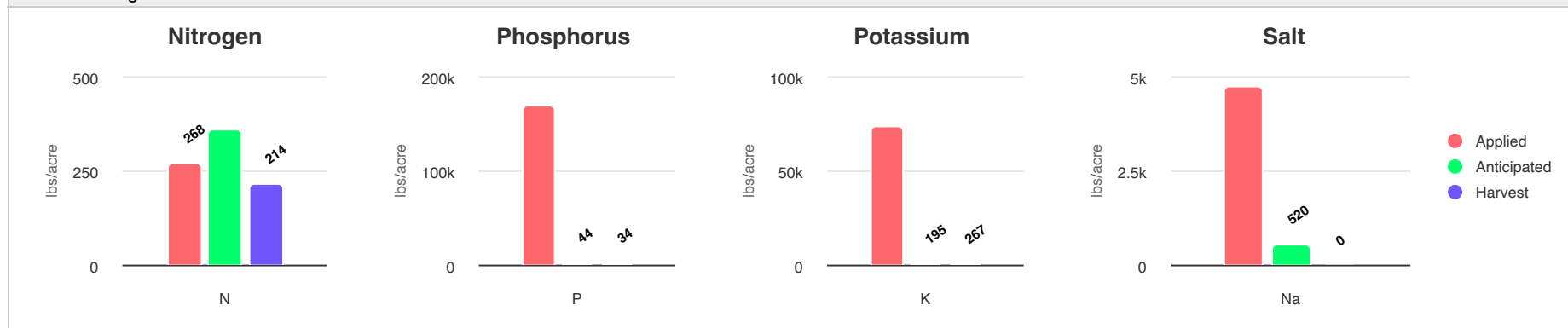
Total Harvests for the crop	
1	harvests

Field name: 36-1

Crop: Triticale

Plant date: 11/01/2022

## Nutrient budgets 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	190.71	68.08	214.47	2,266.64
Process wastewater	75.83	162,262.36	128.77	824.25
Fresh water	1.81	6,193.04	73,062.86	1,635.58
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	268.35	168,523.48	73,406.10	4,726.47
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	214.12	34.18	267.44	0.00
Nutrient balance	54.23	168,489.30	73,138.66	4,726.47
Applied to removed ratio	1.25	4,930.18	274.48	0.00

## Fresh water applied

48,228,617.43 gallons  
 1,776.10 acre-inches  
 31.72 inches/acre

## Process wastewater applied

1,310,791.66 gallons  
 48.27 acre-inches  
 0.86 inches/acre

## Total Harvests for the crop

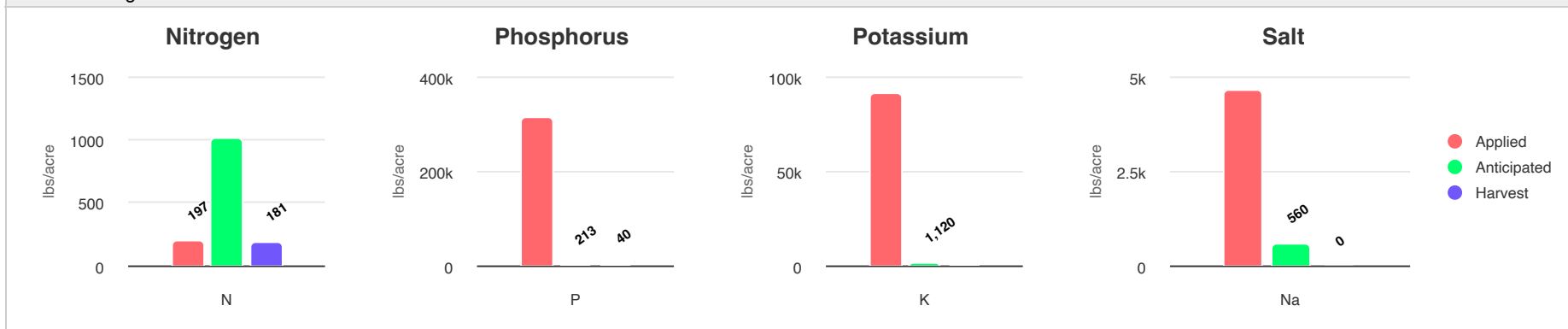
1 harvests

Field name: 36-2

Crop: Corn Silage

Plant date: 05/01/2023

## Nutrient budgets 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	17.70	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	165.58	306,230.65	435.35	3,093.99
Fresh water	0.00	8,681.37	90,950.12	1,566.50
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	197.28	314,912.02	91,385.47	4,660.49
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	180.65	39.76	222.06	0.00
Nutrient balance	16.63	314,872.26	91,163.41	4,660.49
Applied to removed ratio	1.09	7,919.91	411.53	0.00

## Fresh water applied

77,471,725.53 gallons  
 2,853.02 acre-inches  
 38.31 inches/acre

## Process wastewater applied

4,711,678.75 gallons  
 173.52 acre-inches  
 2.33 inches/acre

## Total Harvests for the crop

1 harvests

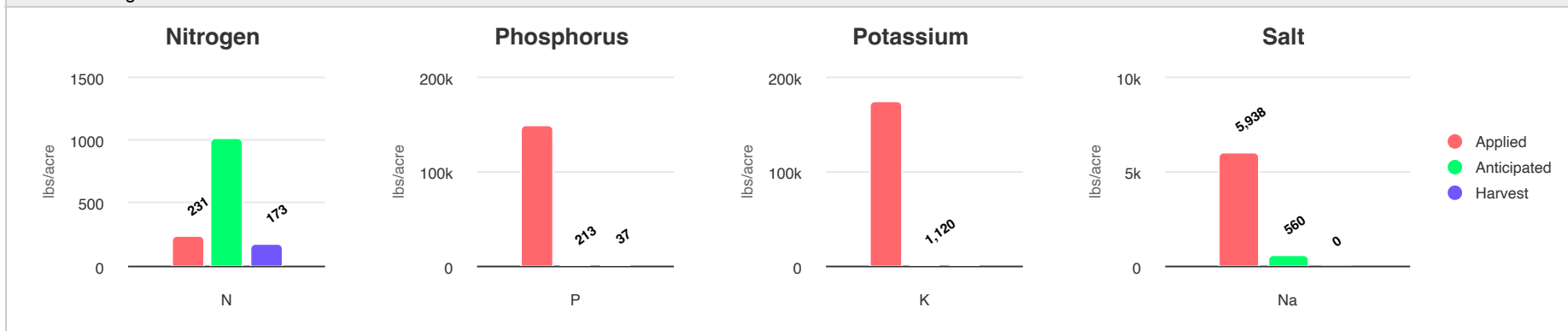
### 36-3 - 05/01/2023: Corn Silage

Field name: 36-3

Crop: Corn Silage

Plant date: 05/01/2023

#### Nutrient budgets 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	35.40	0.00	0.00	0.00
Dry manure	103.49	29.58	90.55	3,586.80
Process wastewater	75.04	138,789.50	197.30	1,402.25
Fresh water	3.28	8,789.67	172,719.93	949.11
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	231.21	147,608.75	173,007.78	5,938.16
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	172.81	37.18	189.97	0.00
Nutrient balance	58.40	147,571.57	172,817.81	5,938.16
Applied to removed ratio	1.34	3,970.48	910.72	0.00

Fresh water applied	
82,156,431.64	gallons
3,025.54	acre-inches
38.79	inches/acre

Process wastewater applied	
2,236,644.15	gallons
82.37	acre-inches
1.06	inches/acre

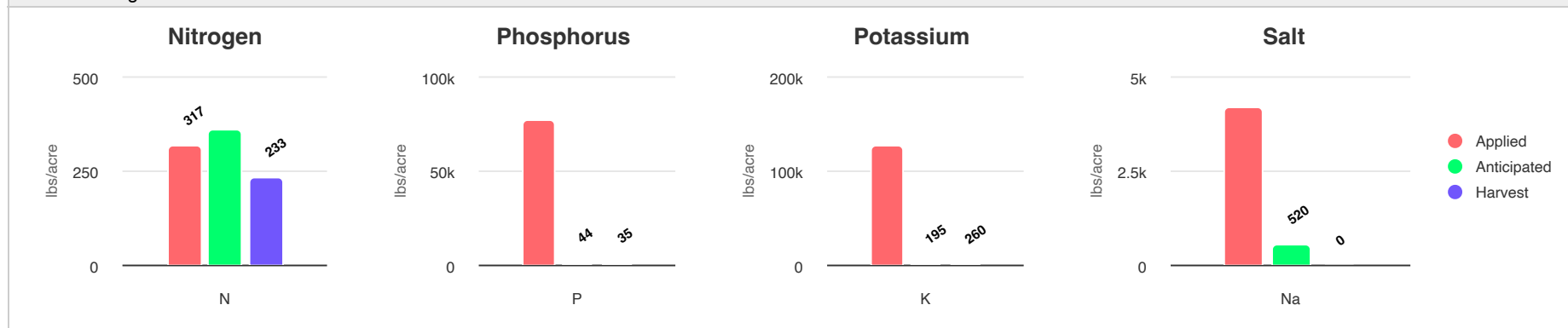
Total Harvests for the crop	
1	harvests

Field name: 36-3

Crop: Triticale

Plant date: 11/06/2022

## Nutrient budgets 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	42.47	0.00	0.00	0.00
Dry manure	238.39	85.10	268.09	2,833.30
Process wastewater	32.97	70,879.91	56.65	381.27
Fresh water	3.27	5,952.84	126,233.38	967.89
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	317.10	76,917.85	126,558.12	4,182.46
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	233.25	35.40	259.77	0.00
Nutrient balance	83.85	76,882.44	126,298.35	4,182.46
Applied to removed ratio	1.36	2,172.52	487.20	0.00

## Fresh water applied

65,254,518.07 gallons  
 2,403.10 acre-inches  
 30.81 inches/acre

## Process wastewater applied

783,672.66 gallons  
 28.86 acre-inches  
 0.37 inches/acre

## Total Harvests for the crop

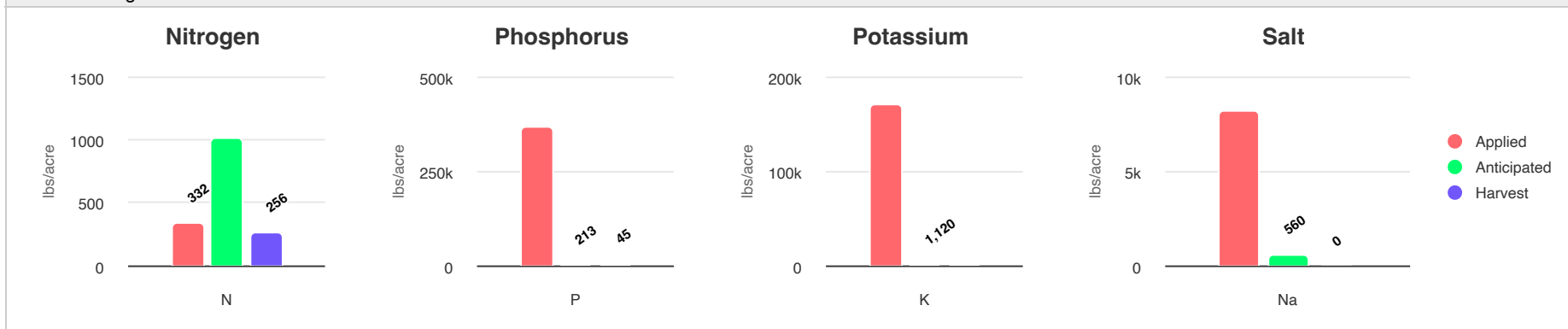
1 harvests

Field name: 36-4

Crop: Corn Silage

Plant date: 05/01/2023

## Nutrient budgets 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	17.70	0.00	0.00	0.00
Dry manure	103.49	29.58	90.55	3,586.80
Process wastewater	193.73	358,276.72	509.33	3,619.82
Fresh water	3.29	8,686.79	169,972.68	939.79
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	332.21	366,993.09	170,572.56	8,146.41
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	256.01	45.40	293.54	0.00
Nutrient balance	76.20	366,947.68	170,279.02	8,146.41
Applied to removed ratio	1.30	8,082.71	581.09	0.00

## Fresh water applied

74,782,529.51 gallons  
 2,753.99 acre-inches  
 38.34 inches/acre

## Process wastewater applied

5,317,782.08 gallons  
 195.84 acre-inches  
 2.73 inches/acre

## Total Harvests for the crop

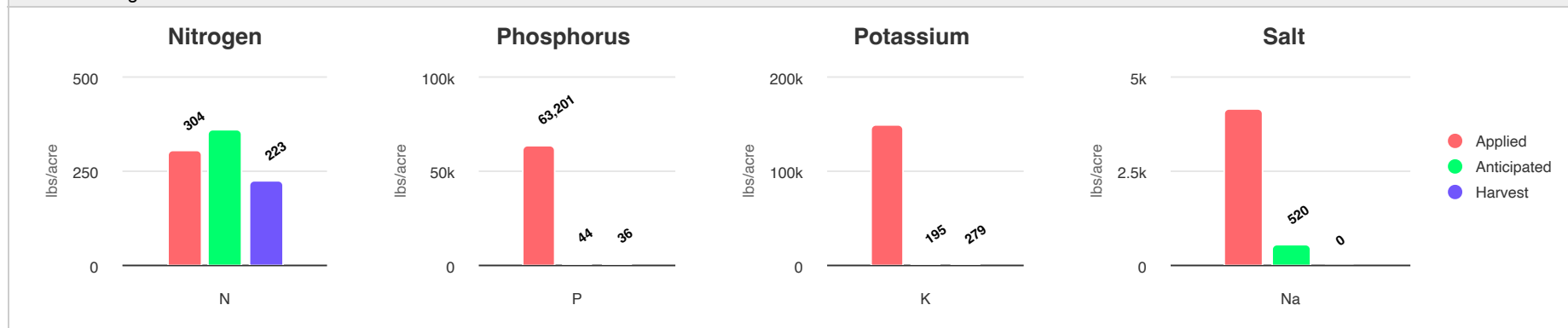
1 harvests

Field name: 36-4

Crop: Triticale

Plant date: 11/09/2022

## Nutrient budgets 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	35.40	0.00	0.00	0.00
Dry manure	238.39	85.10	268.09	2,833.30
Process wastewater	26.90	57,961.75	46.48	320.11
Fresh water	3.34	5,153.85	147,639.36	967.85
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	304.03	63,200.70	147,953.93	4,121.26
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	223.49	35.68	279.14	0.00
Nutrient balance	80.54	63,165.02	147,674.79	4,121.26
Applied to removed ratio	1.36	1,771.43	530.03	0.00

## Fresh water applied

62,412,737.16 gallons  
 2,298.45 acre-inches  
 31.99 inches/acre

## Process wastewater applied

585,229.13 gallons  
 21.55 acre-inches  
 0.30 inches/acre

## Total Harvests for the crop

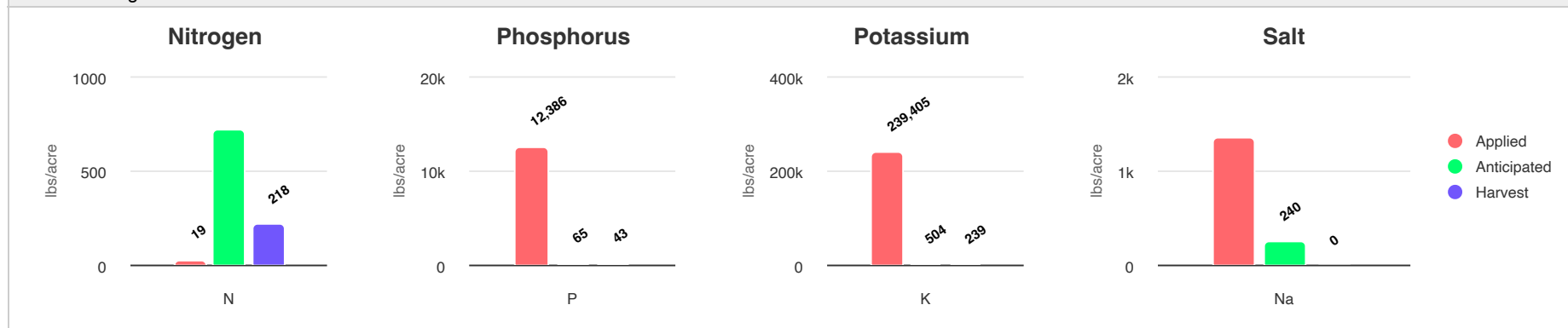
1 harvests

Field name: 36-5

Crop: Alfalfa

Plant date: 01/02/2019

## Nutrient budgets 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	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	4.90	12,385.62	239,405.14	1,347.24
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>18.90</b>	<b>12,385.62</b>	<b>239,405.14</b>	<b>1,347.24</b>
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	218.48	43.26	238.65	0.00
<b>Nutrient balance</b>	<b>-199.58</b>	<b>12,342.36</b>	<b>239,166.49</b>	<b>1,347.24</b>
Applied to removed ratio	0.09	286.32	1,003.16	0.00

## Fresh water applied

115,767,517.49 *gallons*  
 4,263.32 *acre-inches*  
 54.66 *inches/acre*

## Process wastewater applied

0.00 *gallons*  
 0.00 *acre-inches*  
 0.00 *inches/acre*

## Total Harvests for the crop

8 *harvests*

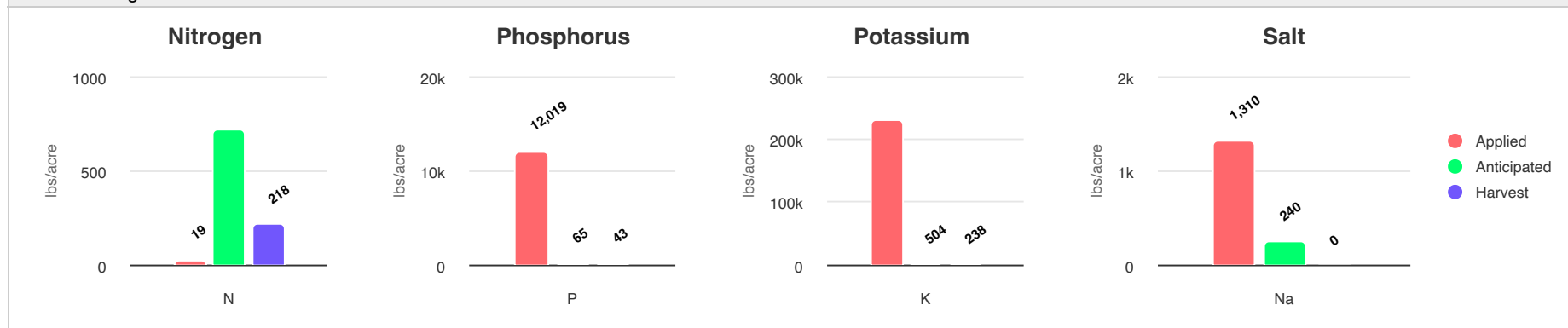


Field name: 36-6

Crop: Alfalfa

Plant date: 10/15/2020

## Nutrient budgets 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	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	4.83	12,019.44	231,256.20	1,310.04
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>18.83</b>	<b>12,019.44</b>	<b>231,256.20</b>	<b>1,310.04</b>
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	218.07	43.18	238.20	0.00
<b>Nutrient balance</b>	<b>-199.24</b>	<b>11,976.26</b>	<b>231,018.00</b>	<b>1,310.04</b>
Applied to removed ratio	0.09	278.38	970.85	0.00

## Fresh water applied

116,780,953.55 gallons  
 4,300.65 acre-inches  
 53.04 inches/acre

## Process wastewater applied

0.00 gallons  
 0.00 acre-inches  
 0.00 inches/acre

## Total Harvests for the crop

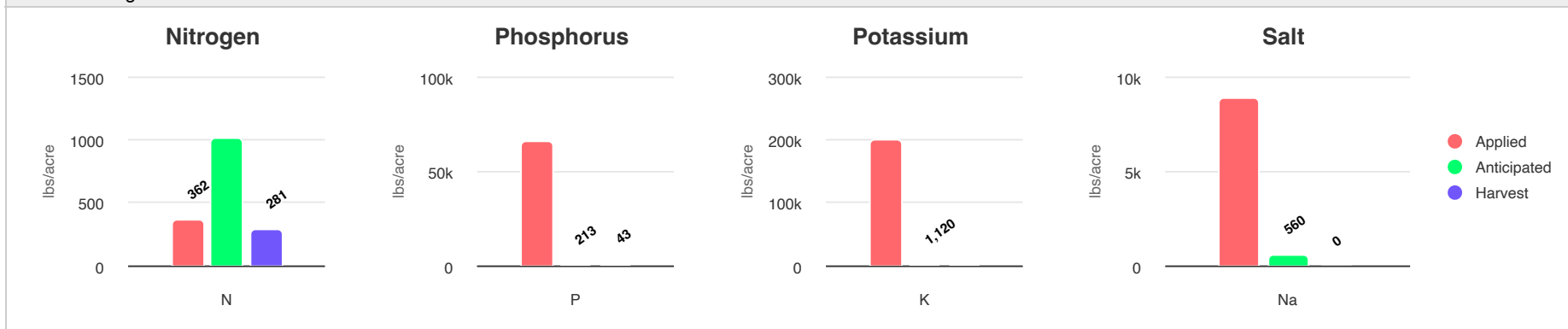
8 harvests

Field name: 36-7

Crop: Corn Silage

Plant date: 05/01/2023

## Nutrient budgets 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	106.18	0.00	0.00	0.00
Dry manure	206.98	59.15	181.10	7,173.60
Process wastewater	30.91	57,171.81	81.27	577.63
Fresh water	3.65	8,736.20	200,539.36	1,144.90
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	361.72	65,967.16	200,801.73	8,896.13
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	280.91	43.38	323.11	0.00
Nutrient balance	80.81	65,923.78	200,478.62	8,896.13
Applied to removed ratio	1.29	1,520.59	621.46	0.00

## Fresh water applied

98,886,459.93 gallons  
 3,641.65 acre-inches  
 43.35 inches/acre

## Process wastewater applied

992,217.60 gallons  
 36.54 acre-inches  
 0.44 inches/acre

## Total Harvests for the crop

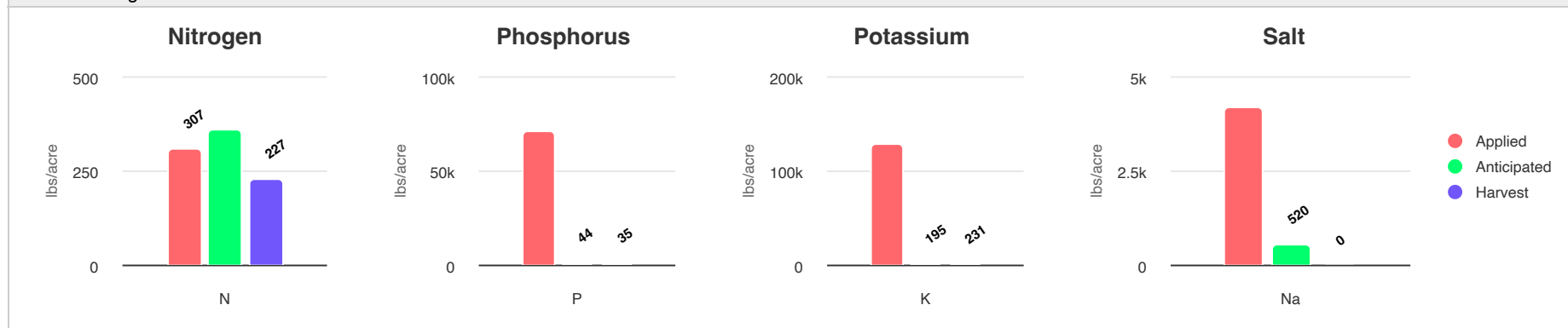
1 harvests

Field name: 36-7

Crop: Triticale

Plant date: 11/07/2022

## Nutrient budgets 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	35.40	0.00	0.00	0.00
Dry manure	238.39	85.10	268.09	2,833.30
Process wastewater	29.98	64,498.78	51.59	349.18
Fresh water	3.49	6,121.21	128,119.12	1,002.07
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	307.26	70,705.09	128,438.80	4,184.55
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	227.44	35.06	230.78	0.00
Nutrient balance	79.81	70,670.03	128,208.02	4,184.55
Applied to removed ratio	1.35	2,016.66	556.54	0.00

## Fresh water applied

72,336,083.77 gallons  
 2,663.89 acre-inches  
 31.71 inches/acre

## Process wastewater applied

766,402.58 gallons  
 28.22 acre-inches  
 0.34 inches/acre

## Total Harvests for the crop

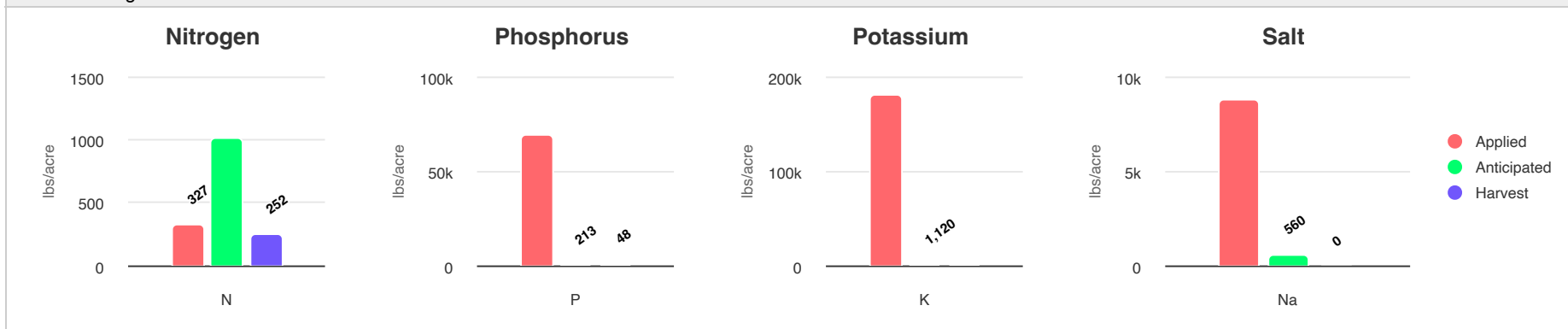
1 harvests

Field name: 36-8

Crop: Corn Silage

Plant date: 05/01/2023

## Nutrient budgets 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	70.78	0.00	0.00	0.00
Dry manure	206.98	59.15	181.10	7,173.60
Process wastewater	32.26	59,668.98	84.82	602.87
Fresh water	3.37	9,167.89	180,924.61	988.04
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	327.39	68,896.02	181,190.53	8,764.51
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	252.35	47.65	338.63	0.00
Nutrient balance	75.03	68,848.37	180,851.90	8,764.51
Applied to removed ratio	1.30	1,445.74	535.06	0.00

## Fresh water applied

94,480,294.78 gallons  
 3,479.39 acre-inches  
 40.46 inches/acre

## Process wastewater applied

1,060,211.92 gallons  
 39.04 acre-inches  
 0.45 inches/acre

## Total Harvests for the crop

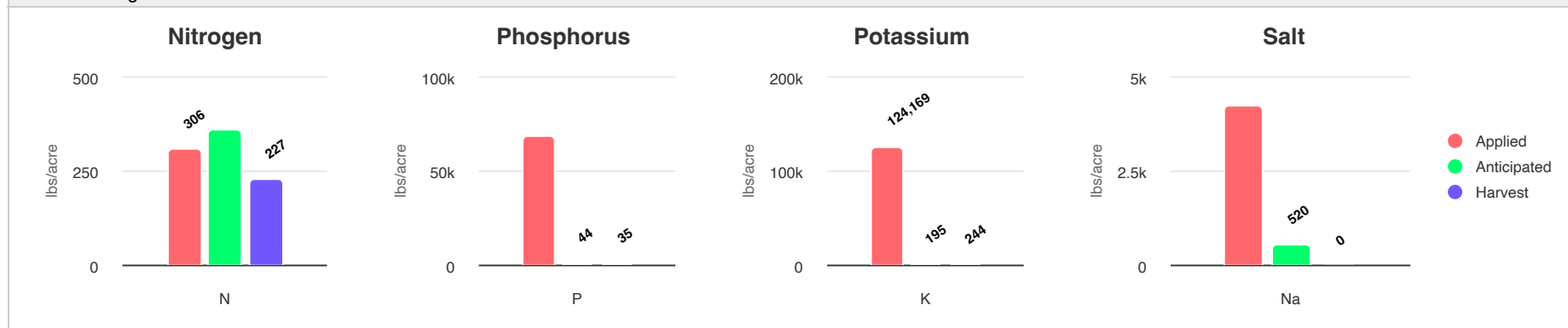
1 harvests

Field name: 36-8

Crop: Triticale

Plant date: 11/09/2022

## Nutrient budgets 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	35.40	0.00	0.00	0.00
Dry manure	238.39	85.10	268.09	2,833.30
Process wastewater	28.60	61,751.91	49.68	349.53
Fresh water	3.81	6,397.43	123,850.95	1,015.75
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	306.20	68,234.44	124,168.72	4,198.58
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	227.35	34.88	244.43	0.00
Nutrient balance	78.84	68,199.56	123,924.28	4,198.58
Applied to removed ratio	1.35	1,956.36	507.98	0.00

## Fresh water applied

74,945,774.35 gallons  
 2,760.00 acre-inches  
 32.09 inches/acre

## Process wastewater applied

740,280.14 gallons  
 27.26 acre-inches  
 0.32 inches/acre

## Total Harvests for the crop

1 harvests

## NUTRIENT ANALYSES

## A. MANURE ANALYSES

T3090018A

Sample and source description name: T3090018A

Sample date: 03/17/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 41.2%

	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 (%)
<b>Value</b>	17,600.00	5,030.00	15,400.00	13,430.00	9,230.00	5,600.00	3,400.00	1,087.00	15,400.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167042A

Sample and source description name: T3167042A

Sample date: 06/12/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 6.3%

	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 (%)
<b>Value</b>	20,110.00	7,250.00	14,770.00	14,680.00	7,380.00	5,700.00	3,100.00	1,165.00	14,770.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263098A

Sample and source description name: T3263098A

Sample date: 09/15/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 4.5%

	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 (%)
<b>Value</b>	17,800.00	5,550.00	18,920.00	16,680.00	11,270.00	5,330.00	6,590.00	1,258.00	18,920.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362030A

Sample and source description name: T3362030A

Sample date: 12/22/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 22.7%

	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 (%)
<b>Value</b>	23,340.00	8,260.00	13,870.00	7,570.00	5,510.00	4,840.00	3,320.00	709.00	13,870.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

## B. PROCESS WASTEWATER ANALYSES

T3089031A

Sample and source description name: T3089031A

Sample date: 03/17/2023 Material type: Process wastewater Source of analysis: Lab Analysis pH: 0

	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 (mmhos/cm)	TDS (mg/L)
<b>Value</b>	372.40	0.00	201.60	0.19	78.50	608.29	190.39	76.76	191.39	0.00	0.00	144.74	267.48	4.44	3,200.00
<b>DL</b>	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

T3167024A

Sample and source description name: T3167024A

Sample date: 06/12/2023 Material type: Process wastewater Source of analysis: Lab Analysis pH: 0

	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 (mmhos/cm)	TDS (mg/L)
<b>Value</b>	313.60	0.00	260.40	0.00	58.00	824.54	150.05	104.25	370.38	0.00	0.00	292.33	355.61	5.94	5,860.00
<b>DL</b>	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

T3263060A

Sample and source description name: T3263060A

Sample date: 09/15/2023 Material type: Process wastewater Source of analysis: Lab Analysis pH: 0

	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 (mmhos/cm)	TDS (mg/L)
<b>Value</b>	291.20	0.00	212.80	0.00	61.80	284.40	78.29	60.06	187.39	0.00	0.00	146.44	189.53	4.14	2,260.00
<b>DL</b>	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

## C. FRESH WATER ANALYSES

Canal - Kern Island

T3362072D-164-86

Sample and source description name: T3362072D-164-86

Sample date: 12/27/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
<b>Value</b>	5.60	0.00	0.00	16.04	6.16	23.62	0.00	0.00	21.17	28.02	0.28	95.00
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

BM-DW2

T3362062A

Sample and source description name: T3362062A

Sample date: 12/27/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
<b>Value</b>	2.86	0.00	0.06	24.54	0.73	68.34	0.00	0.00	58.42	12.23	0.41	155.00
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

W300-9

T3362062B

Sample and source description name: T3362062B

Sample date: 12/27/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
<b>Value</b>	4.09	0.00	1.29	11.43	0.12	65.92	0.00	0.00	72.41	25.71	0.36	140.00
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

## D. SOIL ANALYSES



36-3

3671\_1

Sample

description: 3671\_1

Sample date: 09/19/2022

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	8.57	0.00	0.00	0.00	0.34	2.06	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

36-4

3501\_2

Sample

description: 3501\_2

Sample date: 09/15/2022

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	15.22	0.00	0.00	0.00	0.51	2.88	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

36-5

7360\_3

Sample

description: 7360\_3

Sample date: 03/31/2023

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	8.00	0.00	0.00	0.00	0.24	0.00	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

36-6

7360\_4

Sample  
description: 7360\_4

Sample date: 03/31/2023 Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	5.00	0.00	0.00	0.00	0.37	0.00	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

36-7

2873\_4

Sample  
description: 2873\_4

Sample date: 09/01/2022 Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	21.66	0.00	0.00	0.00	0.44	1.51	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

36-8

2873\_5

Sample  
description: 2873\_5

Sample date: 09/01/2022 Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	23.68	0.00	0.00	0.00	0.43	1.12	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

35-9

3501\_1

Sample

description: 3501\_1

Sample date: 09/15/2022

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	19.93	0.00	0.00	0.00	0.55	2.23	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

36-1

7360\_2

Sample

description: 7360\_2

Sample date: 03/31/2023

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	7.00	0.00	0.00	0.00	0.31	0.00	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

36-2

3344\_6

Sample

description: 3344\_6

Sample date: 09/13/2022

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	23.68	0.00	0.00	0.00	0.44	1.65	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

## E. PLANT TISSUE ANALYSES

36-8 - 10/15/2022: Triticale

T3167031F

Sample description: T3167031F  
Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry  
Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	15,840.00	2,430.00	17,030.00	690.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

36-7 - 10/15/2022: Triticale

T3167031E

Sample description: T3167031E  
Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry  
Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	17,710.00	2,730.00	17,970.00	790.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

36-3 - 10/15/2022: Triticale

T3167031C

Sample description: T3167031C  
Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry  
Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	17,590.00	2,670.00	19,590.00	1,010.00	0.00

<b>DL</b>	100.00	200.00	500.00		0.10
-----------	--------	--------	--------	--	------

36-4 - 10/15/2022: Triticale

T3167031D

Sample description: T3167031D

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	15,660.00	2,500.00	19,560.00	1,190.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

36-7 - 04/20/2023: Corn Silage

T3342013B

Sample description: T3342013B

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

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	14,310.00	2,210.00	16,460.00	80.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

36-8 - 04/20/2023: Corn Silage

T3342013C

Sample description: T3342013C

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

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	13,980.00	2,640.00	18,760.00	90.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

#### 35-9 - 04/20/2023: Corn Silage

T3348012A

Sample description: T3348012A  
Sample date: 11/03/2023 Source of analysis: Lab Analysis Method of reporting: Dry  
Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	15,110.00	3,210.00	18,230.00	130.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

#### 36-4 - 04/20/2023: Corn Silage

T3342013A

Sample description: T3342013A  
Sample date: 11/03/2023 Source of analysis: Lab Analysis Method of reporting: Dry  
Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	15,280.00	2,710.00	17,520.00	90.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

#### 36-2 - 04/20/2023: Corn Silage

T3348012B

Sample description: T3348012B  
Sample date: 11/03/2023 Source of analysis: Lab Analysis Method of reporting: Dry  
Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	13,130.00	2,890.00	16,140.00	100.00	0.00
DL	100.00	200.00	500.00		0.10

36-3 - 04/20/2023: Corn Silage

T3348012C

Sample description: T3348012C  
Sample date: 11/03/2023 Source of analysis: Lab Analysis Method of reporting: Dry  
Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	12,690.00	2,730.00	13,950.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

36-5 - 01/01/2023: Alfalfa

ATS-T3342014E

Sample description: ATS-T3342014E  
Sample date: 11/03/2023 Source of analysis: Lab Analysis Method of reporting: Dry  
Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	14,950.00	2,960.00	16,330.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

36-6 - 01/01/2023: Alfalfa

ATS-T3342014E-2

Sample  
description:      ATS-T3342014E-2

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

Mositure:      0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	14,950.00	2,960.00	16,330.00	70.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

36-1 - 10/15/2022: Triticale

ATS-T3167031D

Sample  
description:      ATS-T3167031D

Sample date:      06/09/2023      Source of analysis:      Lab Analysis      Method of reporting:      Dry

Mositure:      0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	15,660.00	2,500.00	19,560.00	1,190.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

#### F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.



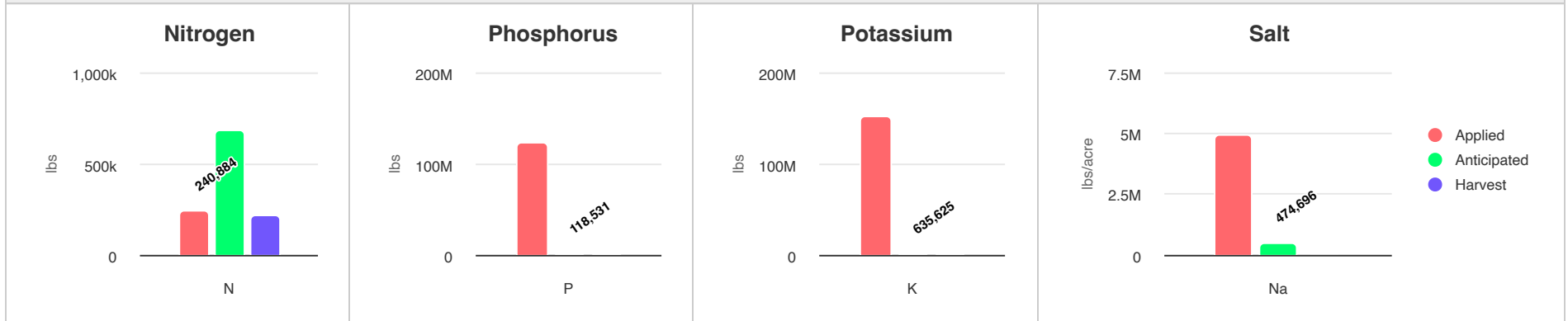
# NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

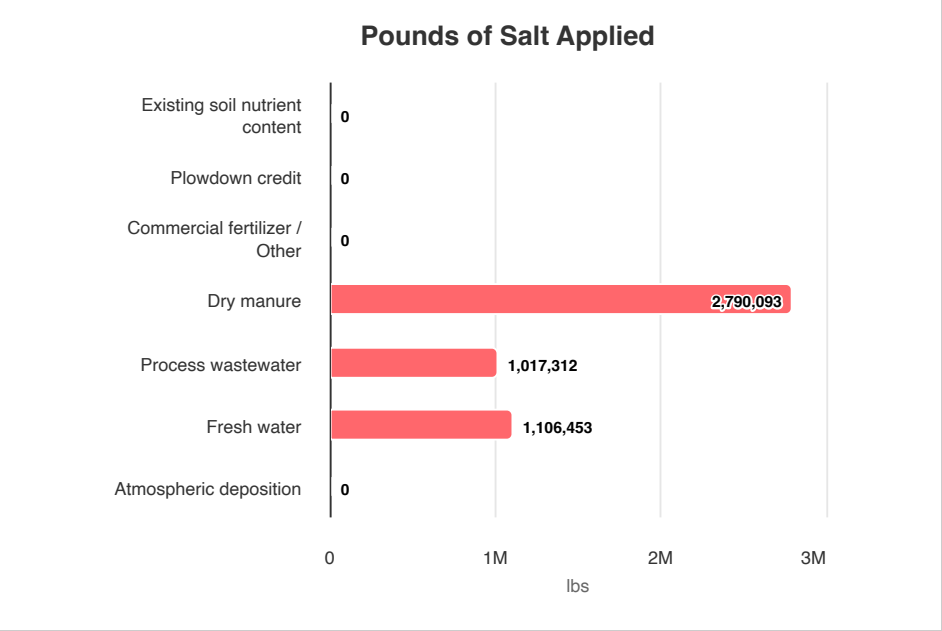
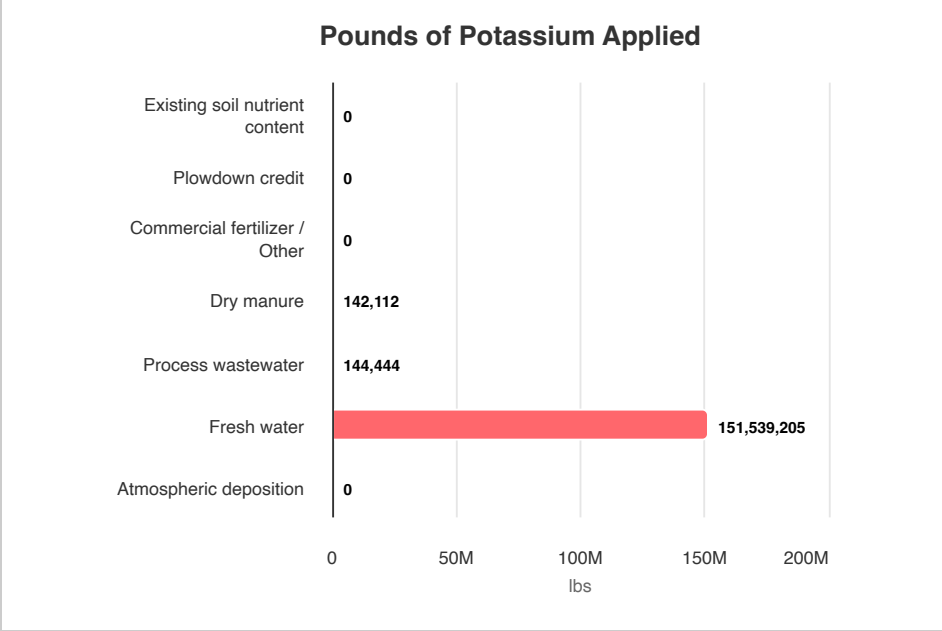
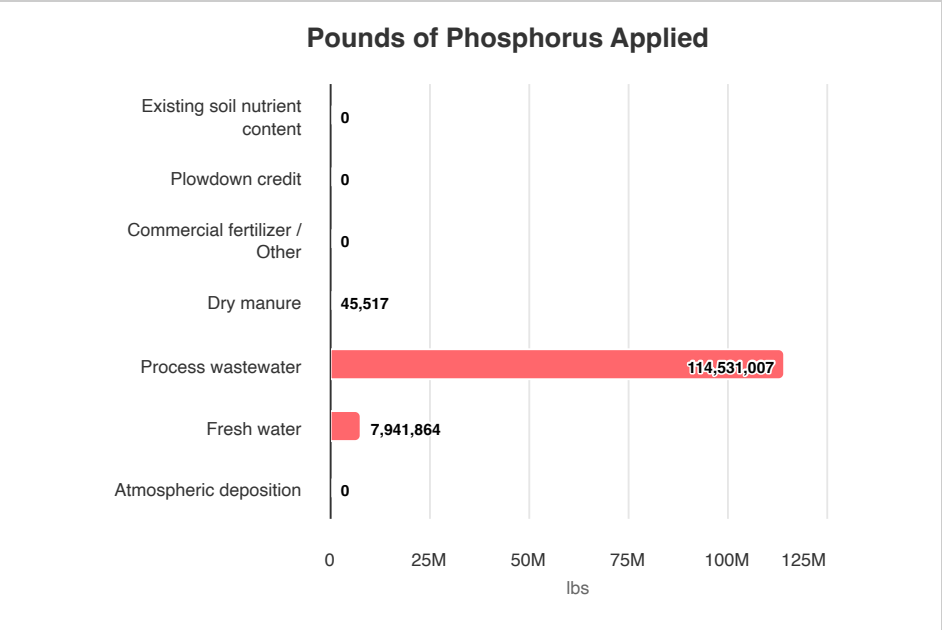
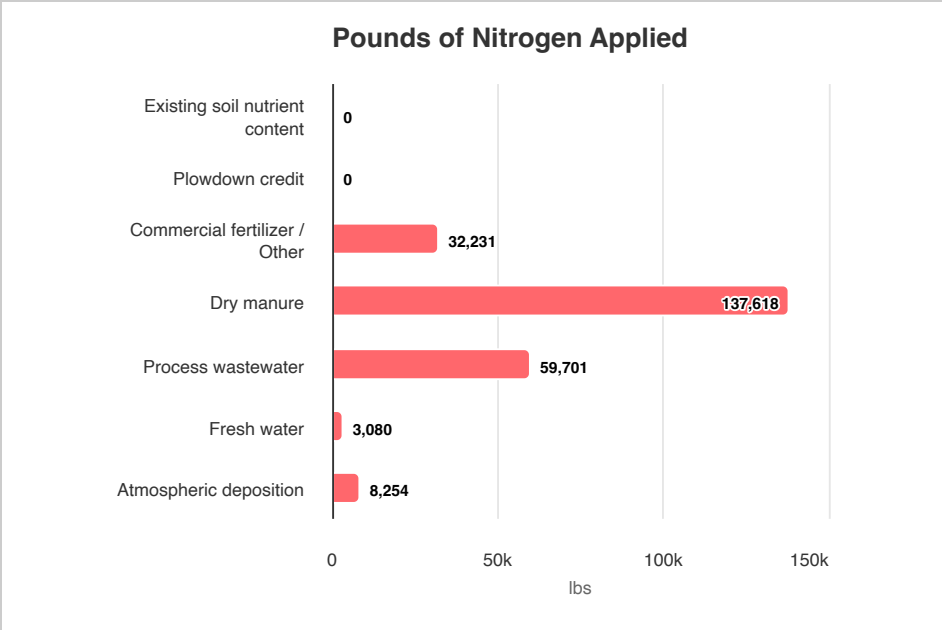
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	32,230.88	0.00	0.00	0.00
Dry manure	137,618.36	45,517.36	142,111.89	2,833.30
Process wastewater	59,700.73	114,531,007.50	144,444.05	349.53
Fresh water	3,079.62	7,941,863.99	151,539,204.78	1,015.75
Atmospheric deposition	8,254.12	0.00	0.00	0.00
Total nutrients applied	240,883.71	122,518,388.85	151,825,760.72	4,913,857.66
Anticipated crop nutrient removal	683,332.98	118,530.91	635,625.11	474,696.00
Actual crop nutrient removal	217,843.69	38,538.46	251,505.23	0.00
Nutrient balance	23,040.02	122,479,850.38	151,574,255.49	4,913,857.66
Applied to removed ratio	1.11	3,179.12	603.67	0.00

## B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

Nutrient budgets in lbs/acre



C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE



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

**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?	<u>No</u>
---	-----------

ADDITIONAL NOTES

**A. NOTES**

**Well Specific Notes**

**2023 Non Op Wells: W300-12, W300-2, W300-7, W300-8**

CERTIFICATION

**A. OWNER AND/OR OPERATOR CERTIFICATION**

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



SIGNATURE OF OWNER OF FACILITY

**Ramon Echeverria**

PRINT OR TYPE NAME

**6/29/2024**

DATE



SIGNATURE OF OPERATOR OF FACILITY

**Ramon Echeverria**

PRINT OR TYPE NAME

**6/29/2024**

DATE

## REQUIRED 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 PDF/A 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.

#### Discharge Maps

Provide map(s) showing the discharge and sample locations for each discharge or release of waste to land areas (land application areas or otherwise) or surface water.

#### Discharge Lab Reports

Provide copies of laboratory analyses of all discharges (manure, process wastewater, or tailwater), surface water (upstream and downstream of a discharge), and storm water, including chain-of-custody forms and laboratory quality assurance/quality control results.

#### 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.

# Solid/Liquid Manure Tracking Manifest

## Waste Generator Information:

Name: Ramon Echeverria  
Facility Name: Bear Mountain Dairy  
Facility Address: 4551 Bear Mountain Blvd  
Facility City/State: Bakersfield, CA 93313

## Contact:

Name: Ramon Echeverria  
Number: (661) 074-7063

## Manure Hauler / Processor Information:

Name: Brachena Ag Services, Inc  
Facility Address: 9442 Bear Mountain Blvd.  
Facility City/State: Bakersfield, CA 93311

## Contact:

Name: Fred Amirfar  
Number: (661) 978-9321

Manure Destination Farmer

## Destination Information:

Name: Grimmway Farms  
Facility Address: PO Box 81498  
Facility City/State: Bakersfield, CA

## Contact:

Name: Grimmway Farms  
Number: (661) 845-5289

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Jun 1, 2023 - Jun, 30 2023	3,165	ton	68 %
Aug 1, 2023 - Aug, 31 2023	5,508	ton	68 %
<b>Total</b>	8,673		

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

**Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO**

*I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.*

**Signature of Owner:**



**Date:**

12/30/2023

**Signature of Hauler:**



**Date:**

12/30/2023





# Solid/Liquid Manure Tracking Manifest

## Waste Generator Information:

Name: Ramon Echeverria  
Facility Name: Bear Mountain Dairy  
Facility Address: 4551 Bear Mountain Blvd  
Facility City/State: Bakersfield, CA 93313

## Contact:

Name: Ramon Echeverria  
Number: (661) 074-7063

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO

*I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.*

## Manure Hauler / Processor Information:

Name: Brachena Ag Services, Inc  
Facility Address: 9442 Bear Mountain Blvd.  
Facility City/State: Bakersfield, CA 93311

## Contact:

Name: Fred Amirfar  
Number: (661) 978-9321

Manure Destination Farmer

## Destination Information:

Name: American Ag, Inc.  
Facility Address: PO Box 20370  
Facility City/State: Bakersfield, CA

## Contact:

Name: American Ag, Inc.  
Number:

## Signature of Owner:



Date:

12/30/2023

## Signature of Hauler:



Date:

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Jun 1, 2023 - Jun, 30 2023	4,216	ton	64 %
Sep 1, 2023 - Sep, 30 2023	11,563	ton	68 %
Dec 1, 2023 - Dec, 31 2023	8,326	ton	68 %
<b>Total</b>	<b>24,105</b>		



# Solid/Liquid Manure Tracking Manifest

## Waste Generator Information:

Name: Ramon Echeverria  
Facility Name: Bear Mountain Dairy  
Facility Address: 4551 Bear Mountain Blvd  
Facility City/State: Bakersfield, CA 93313

## Contact:

Name: Ramon Echeverria  
Number: (661) 074-7063

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO

*I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.*

## Manure Hauler / Processor Information:

Name: Brachena Ag Services, Inc  
Facility Address: 9442 Bear Mountain Blvd.  
Facility City/State: Bakersfield, CA 93311

## Contact:

Name: Fred Amirfar  
Number: (661) 978-9321

Manure Destination Farmer

## Destination Information:

Name: Kirschenman Enterprises  
Facility Address: Po Box 27  
Facility City/State: Edison, CA

## Contact:

Name: Kirschenman Enterprises  
Number:

## Signature of Owner:



Date:

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Feb 1, 2023 - Feb, 28 2023	5,741	ton	67 %
Nov 1, 2023 - Nov, 30 2023	1,211	ton	65 %
Total	6,952		

## Signature of Hauler:



Date:

12/30/2023



# Solid/Liquid Manure Tracking Manifest

## Waste Generator Information:

Name: Ramon Echeverria  
Facility Name: Bear Mountain Dairy  
Facility Address: 4551 Bear Mountain Blvd  
Facility City/State: Bakersfield, CA 93313

## Contact:

Name: Ramon Echeverria  
Number: (661) 074-7063

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO

*I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.*

## Manure Hauler / Processor Information:

Name: Brachena Ag Services, Inc  
Facility Address: 9442 Bear Mountain Blvd.  
Facility City/State: Bakersfield, CA 93311

## Contact:

Name: Fred Amirfar  
Number: (661) 978-9321

Manure Destination Farmer

## Destination Information:

Name: Ag Now Corp.  
Facility Address: 9442 Bear Mountain Blvd.  
Facility City/State: Bakersfield , CA

## Contact:

Name: Fred Amirfar  
Number: (661) 978-9321

## Signature of Owner:



## Date:

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Sep 1, 2023 - Sep, 30 2023	7,345	ton	70 %
Total	7,345		

## Signature of Hauler:



## Date:

12/30/2023



# Solid/Liquid Manure Tracking Manifest

## Waste Generator Information:

Name: Ramon Echeverria  
Facility Name: Bear Mountain Dairy  
Facility Address: 4551 Bear Mountain Blvd  
Facility City/State: Bakersfield, CA 93313

## Contact:

Name: Ramon Echeverria  
Number: (661) 074-7063

## Manure Hauler / Processor Information:

Name: Brachena Ag Services, Inc  
Facility Address: 9442 Bear Mountain Blvd.  
Facility City/State: Bakersfield, CA 93311

## Contact:

Name: Fred Amirfar  
Number: (661) 978-9321

Manure Destination Farmer

## Destination Information:

Name: Greg Tesch  
Facility Address: 200 Hume Lane  
Facility City/State: Bakersfield, CA

## Contact:

Name: Tesch farms  
Number: (661) 345-5735

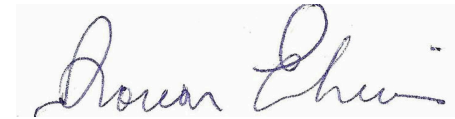
Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Jun 1, 2023 - Jun, 30 2023	3,198	ton	69 %
Total	3,198		

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? **NO**

*I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.*

Signature of Owner:



Date:

12/30/2023

Signature of Hauler:



Date:

12/30/2023





**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380  
Phone (209) 634-9055 - Fax (209) 634-9057  
www.denelelabs.com

40 N. East Street, Woodland, CA 95776  
Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

**Customer**

Bear Mountain Dairy  
4551 Bear Mountain Blvd.  
Bakersfield, CA 93313

**Grower****Consultant:**

Icon Ag  
9530 Hageman Rd, Ste B. #292  
Bakersfield, CA 93312

**PURCHASE ORDER:**

RECEIVED DATE: 12/28/23 12:00 PM  
SUBMITTED BY: Courier  
ANALYZED DATE: 1/3/24

Boron (B)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BM-DW2	T3362062A	Boron (B)	EPA 200.7	0.170	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.



## Denele Analytical, Inc.

865 South Kilroy Avenue Turlock, CA 95380  
Phone (209) 634-9055 - Fax (209) 634-9057  
www.denelelabs.com

40 N. East Street, Woodland, CA 95776  
Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

### Customer

Bear Mountain Dairy  
4551 Bear Mountain Blvd.  
Bakersfield, CA 93313

### Grower

### Consultant:

Icon Ag  
9530 Hageman Rd, Ste B. #292  
Bakersfield, CA 93312

### PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM  
SUBMITTED BY: Courier  
ANALYZED DATE: 1/2/24

Irrigation /Ground Water (H14)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BM-DW2	T3362062A	Electrical Conductivity (EC)	EPA 120.1 and	0.413	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	116	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO <sub>4</sub> )	EPA 375.2	58.4	mg/L
		Sodium (Na)	EPA 200.7	68.3	mg/L
		Ammonia Nitrogen (NH <sub>3</sub> -N)	SM 4500-NH <sub>3</sub> D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	0.730	mg/L
		Nitrate Nitrogen (NO <sub>3</sub> -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	155	mg/L
		Calcium (Ca)	EPA 200.7	24.5	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	12.2	mg/L
		Soluble Salts (SALT-SOL)	Calculation	264	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH <sub>3</sub> -N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO <sub>3</sub> -N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO <sub>4</sub> )	102	111 (W4002001A)	108 (W4002001A)			3.31
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380  
Phone (209) 634-9055 - Fax (209) 634-9057  
www.denelelabs.com

40 N. East Street, Woodland, CA 95776  
Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

**Customer**

Bear Mountain Dairy  
4551 Bear Mountain Blvd.  
Bakersfield, CA 93313

**Grower****Consultant:**

Icon Ag  
9530 Hageman Rd, Ste B. #292  
Bakersfield, CA 93312

**PURCHASE ORDER:**

RECEIVED DATE: 12/28/23 12:00 PM  
SUBMITTED BY: Courier  
ANALYZED DATE: 1/8/24

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BM-DW2	T3362062A	pH (pH)	SM4500-H+ B-2000	7.8	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380  
Phone (209) 634-9055 - Fax (209) 634-9057  
www.denelelabs.com

40 N. East Street, Woodland, CA 95776  
Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

**Customer**

Bear Mountain Dairy  
4551 Bear Mountain Blvd.  
Bakersfield, CA 93313

**Grower****Consultant:**

Icon Ag  
9530 Hageman Rd, Ste B. #292  
Bakersfield, CA 93312

**PURCHASE ORDER:**

RECEIVED DATE: 12/28/23 12:00 PM  
SUBMITTED BY: Courier  
ANALYZED DATE: 1/4/24

Total Nitrogen (TN)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BM-DW2	T3362062A	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.86	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380  
Phone (209) 634-9055 - Fax (209) 634-9057  
www.denelelabs.com

40 N. East Street, Woodland, CA 95776  
Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

**Customer**

Bear Mountain Dairy  
4551 Bear Mountain Blvd.  
Bakersfield, CA 93313

**Grower****Consultant:**

Icon Ag  
9530 Hageman Rd, Ste B. #292  
Bakersfield, CA 93312

**PURCHASE ORDER:**

RECEIVED DATE: 12/28/23 12:00 PM  
SUBMITTED BY: Courier  
ANALYZED DATE: 1/3/24

**Boron (B)**

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-9	T3362062B	Boron (B)	EPA 200.7	0.110	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380  
Phone (209) 634-9055 - Fax (209) 634-9057  
www.denelelabs.com

40 N. East Street, Woodland, CA 95776  
Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

**Customer**

Bear Mountain Dairy  
4551 Bear Mountain Blvd.  
Bakersfield, CA 93313

**Grower****Consultant:**

Icon Ag  
9530 Hageman Rd, Ste B. #292  
Bakersfield, CA 93312

**PURCHASE ORDER:**

RECEIVED DATE: 12/28/23 12:00 PM  
SUBMITTED BY: Courier  
ANALYZED DATE: 1/2/24

Irrigation /Ground Water (H14)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-9	T3362062B	Electrical Conductivity (EC)	EPA 120.1 and	0.359	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	60.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO <sub>4</sub> )	EPA 375.2	72.4	mg/L
		Sodium (Na)	EPA 200.7	65.9	mg/L
		Ammonia Nitrogen (NH <sub>3</sub> -N)	SM 4500-NH <sub>3</sub> D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO <sub>3</sub> -N)	EPA 353.2	1.29	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	140	mg/L
		Calcium (Ca)	EPA 200.7	11.4	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	25.7	mg/L
		Soluble Salts (SALT-SOL)	Calculation	230	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH <sub>3</sub> -N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO <sub>3</sub> -N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO <sub>4</sub> )	102	111 (W4002001A)	108 (W4002001A)			3.31
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380  
Phone (209) 634-9055 - Fax (209) 634-9057  
www.denelelabs.com

40 N. East Street, Woodland, CA 95776  
Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

**Customer**

Bear Mountain Dairy  
4551 Bear Mountain Blvd.  
Bakersfield, CA 93313

**Grower****Consultant:**

Icon Ag  
9530 Hageman Rd, Ste B. #292  
Bakersfield, CA 93312

**PURCHASE ORDER:**

RECEIVED DATE: 12/28/23 12:00 PM  
SUBMITTED BY: Courier  
ANALYZED DATE: 1/2/24

**Icon Sampling Fee (ISF)**

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-9	T3362062B	Icon Sampling Fee (ISF)	N/A	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.



**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380  
Phone (209) 634-9055 - Fax (209) 634-9057  
www.denelelabs.com

40 N. East Street, Woodland, CA 95776  
Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

**Customer**

Bear Mountain Dairy  
4551 Bear Mountain Blvd.  
Bakersfield, CA 93313

**Grower****Consultant:**

Icon Ag  
9530 Hageman Rd, Ste B. #292  
Bakersfield, CA 93312

**PURCHASE ORDER:**

RECEIVED DATE: 12/28/23 12:00 PM  
SUBMITTED BY: Courier  
ANALYZED DATE: 1/8/24

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-9	T3362062B	pH (pH)	SM4500-H+ B-2000	7.5	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380  
Phone (209) 634-9055 - Fax (209) 634-9057  
www.denelelabs.com

40 N. East Street, Woodland, CA 95776  
Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

**Customer**

Bear Mountain Dairy  
4551 Bear Mountain Blvd.  
Bakersfield, CA 93313

**Grower****Consultant:**

Icon Ag  
9530 Hageman Rd, Ste B. #292  
Bakersfield, CA 93312

**PURCHASE ORDER:**

RECEIVED DATE: 12/28/23 12:00 PM  
SUBMITTED BY: Courier  
ANALYZED DATE: 1/4/24

Total Nitrogen (TN)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-9	T3362062B	Total Nitrogen (TN)	SM 4500-NH3 D,C	4.09	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

# Irrigation / Ground / Tile Water



9530 Hageman Rd. Ste B, #292 Bakersfield, CA 93312

**Dominic Patino**

(661) 333-7776

(661) 215-5168

dpatino@iconaginc.com

Date

12-27-23

Sampled By

TONY

Lab Name

Denise

## Bear Mountain Dairy

Ranch: Bear Mtn Ranch

\*\*\*Required Field Measurement

NH4-N ☒ Check here if performed

## Analysis Types

**W5** - Ag Suitability (Non-Compliance)

**W2** - W1 + Ca, Mg, Na, Bicard, SO4, Cl, B

**W4** - pH, SpCon, TDS, Ca, CO3, Ca, Mg, Na, K, SO4, Cl, B (Reg 3 comp)

**W1** - EC, pH, NO3-N, TN, TDS, NH4-N\*\*\* (Reg 5 comp)

**W3** - W2 + TP, NH4-N, Carb (tile drain)

## Weather Conditions

**SH** - Sunny & Hot

**CC** - Cold & Cloudy

**SW** - Sunny & Warm

**CCL** - Cold & Clear

**R** - Rainy

1.	Location:				<b>CHAIN</b>	<b>Bear Mountain Dairy</b> <b>BM-DW2</b> <b>W</b> Ranch: Bear Mtn Ranch Date: 12-27-23 pm <b>IW</b> 35.206723, -119.054417	
Analysis	Weather	Temp (°F)	# of Bags/Bottles	W2		CC	65
2.	Location:				<b>CHAIN</b>	<b>Bear Mountain Dairy</b> <b>W300-9</b> <b>W</b> Ranch: Bear Mtn Ranch Date: 12/27/23 1300 <b>IW</b> 35.190434, -119.021150	
Analysis	Weather	Temp (°F)	# of Bags/Bottles				
3.	Location:				Place <b>CHAIN</b> Label Here Place additional labels on sample bags/bottles		
Analysis	Weather	Temp (°F)	# of Bags/Bottles				
4.	Location:				Place <b>CHAIN</b> Label Here Place additional labels on sample bags/bottles		
Analysis	Weather	Temp (°F)	# of Bags/Bottles				
5.	Location:				Place <b>CHAIN</b> Label Here Place additional labels on sample bags/bottles		
Analysis	Weather	Temp (°F)	# of Bags/Bottles				
6.	Location:				Place <b>CHAIN</b> Label Here Place additional labels on sample bags/bottles		
Analysis	Weather	Temp (°F)	# of Bags/Bottles				

## Chain of Custody Recording Log

	Signature	Company	Received Date/Time	Relinquished Date/Time	Laboratory Use Only	
1st	Antonio Mora	Icon Ag		12-27-23 3:00 pm	Logged in By:	Laboratory #
2nd	Dante	Flen	12/28 5:30A	12/28 10:15A		
3rd	Albert Morison Jr.			12-28-23 10:15		
4th	Denise		12-28-23 12:00		T 3362062	