

# DAIRY FACILITY INFORMATION

## A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:

T&W Farms 1

Physical address of dairy:

18346 Old River Rd

Bakersfield

Kern

93311

Number and Street

City

County

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:

0184-0460-0050-0000 0184-0460-0051-0000 0184-0460-0053-0000 0184-0460-0054-0000 0184-0460-0055-0000 0184-0460-0056-0000 0184-0460-0057-0000  
0184-0460-0058-0000 0295-0080-0004-0000 0295-0080-0007-0000 0295-0080-0009-0000

## B. OPERATORS

Brian Wind

Operator Name:

Brian Wind

Telephone no.:

(661) 477-2973

Landline

Cellular

18000 Old River Rd

Bakersfield

Kern

93311

Mailing Address Number and Street

City

County

Zip Code

## C. OWNERS

Brian Wind

Owner Name:

Brian Wind

Telephone no.:

(661) 477-2973

Landline

Cellular

18000 Old River Rd

Bakersfield

Kern

93311

Mailing Address Number and Street

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# AVAILABLE NUTRIENTS

## A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo.to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	700	1,495	1,225	447	427
Number under roof	4,271	0	0	0	0	0
Maxiumu number	4,273	714	1,510	1,238	462	448
Average number	4,271	700	1,495	1,225	447	427
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: 148,432.31 tons per reporting period  
Total nitrogen from manure: 1,862,947.81 lbs per reporting period After ammonia losses (30% loss applied): 1,304,063.46 lbs per reporting period  
Total phosphorus from manure: 306,202.53 lbs per reporting period  
Total potassium from manure: 817,935.91 lbs per reporting period  
Total salt from manure: 2,171,965.35 lbs per reporting period

## C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 88,201,210.99 gallons  
Total nitrogen generated: 354,507.59 lbs  
Total phosphorus generated: 340,931,514.30 lbs  
Total potassium generated: 561,801.07 lbs  
Total salt generated: 3,190,060.74 lbs

	88,201,210.99 gallons applied
+	0 gallons exported
-	0 gallons imported
=	88,201,210.99 gallons generated

## D. FRESH WATER SOURCES

Source Description	Type
Canal - Kern Delta	Surface Water
TW1-1	Ground Water
TW1-2	Ground Water
TW1-3	Ground Water
TW1-4	Ground Water
TW1-6	Ground Water
TW1-DW1	Ground Water
TW1-DW2	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 (%)
01/08/2023	Separator solids	6,223 tons	as-is	65.8	18,300.00	2,440.00	6,210.00	10.00
02/02/2023	Separator solids	8,815 tons	as-is	70.1	18,300.00	2,440.00	6,210.00	10.00
04/10/2023	Separator solids	6,251 tons	as-is	67.8	11,260.00	4,190.00	21,840.00	64.00
05/29/2023	Separator solids	7,004 tons	as-is	68.4	11,260.00	4,190.00	21,840.00	64.00
06/20/2023	Separator solids	5,133 tons	as-is	64.8	17,390.00	1,790.00	2,810.00	8.00
07/07/2023	Separator solids	3,597 tons	as-is	70.8	17,390.00	1,790.00	2,810.00	8.00
07/27/2023	Separator solids	4,315 tons	as-is	68.2	17,390.00	1,790.00	2,810.00	8.00
08/05/2023	Separator solids	4,469 tons	as-is	70.3	17,390.00	1,790.00	2,810.00	8.00
08/24/2023	Separator solids	6,857 tons	as-is	63.8	17,390.00	1,790.00	2,810.00	8.00
09/20/2023	Separator solids	8,451 tons	as-is	67.1	18,100.00	5,510.00	47,210.00	52.00
11/04/2023	Separator solids	5,195 tons	as-is	67.6	18,100.00	5,510.00	47,210.00	52.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	2,190,501.98	422,089.44	2,191,170.70	38,065,200.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	2,190,501.98	422,089.44	2,191,170.70	38,065,200.00

## APPLICATION AREA

## A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
41	76.04	76.00	2	BOTH	0184-0460-0055-0000
42	71.58	69.43	2	BOTH	0184-0460-0056-0000
43	72.50	70.32	2	BOTH	0184-0460-0057-0000
44	72.90	70.71	2	BOTH	0184-0460-0058-0000
45	7.10	6.00	2	PROCESS WASTEWATER	0184-0460-0053-0000
47	14.73	14.73	2	BOTH	0184-0460-0054-0000
48	49.68	48.00	2	PROCESS WASTEWATER	0184-0460-0051-0000, 0184-0460-0054-0000
51	152.25	150.00	2	BOTH	0295-0080-0004-0000
52	145.19	143.00	2	PROCESS WASTEWATER	0295-0080-0004-0000
53	94.81	93.00	2	BOTH	0295-0080-0007-0000, 0295-0080-0009-0000
54	96.94	92.00	2	BOTH	0295-0080-0007-0000
55	26.26	20.00	2	BOTH	0184-0460-0050-0000
Totals for areas that were used for application	879.98	853.19	24.00		
Totals for areas that were not used for application	26.79	26.79			
Land application area totals	879.98	879.98	24.00		

**B. CROPS AND HARVESTS**

41

Field Name: 41

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 76 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/13/2023	1,762.44 ton	As-is		0.00	7,344.00	2,052.00	18,000.00	0.00	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	23.19	340.61	95.17	834.84	0.00

**05/10/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 76 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/21/2023	1,957.00 ton	As-is		0.00	4,696.80	1,276.80	6,961.60	34.20	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	25.75	241.89	65.76	358.52	0.00

Field Name: 42

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 69.43 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,697.56 ton	As-is		0.00	7,344.00	1,512.00	19,800.00	0.00	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	24.45	359.12	73.94	968.22	0.00

**05/10/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 69.43 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/21/2023	1,514.27 ton	As-is		0.00	5,483.40	729.60	5,616.40	34.20	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	21.81	239.19	31.83	244.99	0.00

Field Name: 43

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 70.32 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,767.14 ton	As-is		0.00	7,020.00	1,584.00	15,840.00	0.01	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	25.13	352.83	79.61	796.12	0.00

**05/10/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 70.32 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/07/2023	1,750.97 ton	As-is		0.00	4,366.20	942.40	5,703.80	72.20	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	24.90	217.44	46.93	284.05	0.00

Field Name: 44

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 70.71 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	1,896.44 ton	As-is		0.00	6,516.00	1,656.00	17,280.00	0.01	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	26.82	349.52	88.83	926.90	0.00

**05/10/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 70.71 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/17/2023	1,793.21 ton	As-is		0.00	4,385.20	953.80	5,304.80	76.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	25.36	222.42	48.38	269.06	0.00



Field Name: 45

**10/28/2022: Triticale**

Crop: Triticale Acres planted: 6 Plant date: 10/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	147.24 ton	As-is		0.00	6,516.00	1,656.00	17,280.00	0.01	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	24.54	319.81	81.28	848.10	0.00

**04/25/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 6 Plant date: 04/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	132.42 ton	As-is		0.00	2,960.20	1,166.60	6,266.20	87.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	22.07	130.66	51.49	276.59	0.00

Field Name: 47

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 14.73 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/14/2023	361.62 ton	As-is		0.00	7,272.00	1,620.00	17,280.00	0.01	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	24.55	357.06	79.54	848.45	0.00

**05/10/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 14.73 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	345.86 ton	As-is		0.00	4,670.20	1,071.60	5,791.20	79.80	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	23.48	219.31	50.32	271.95	0.00

Field Name: 48

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 48 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,135.20 ton	As-is		0.00	6,732.00	1,620.00	18,720.00	0.01	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	23.65	318.42	76.63	885.46	0.00

**05/10/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 48 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/14/2023	1,146.72 ton	As-is		0.00	5,620.20	1,064.00	5,836.80	76.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	23.89	268.53	50.84	278.88	0.00

Field Name: 51

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 150 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	3,657.00 ton	As-is		0.00	6,624.00	1,656.00	20,520.00	0.01	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	24.38	322.99	80.75	1,000.56	0.00

**05/10/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 150 Plant date: 05/10/2023

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	3,528.00 ton	As-is		0.00	3,644.20	1,147.60	5,582.20	76.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	23.52	171.42	53.98	262.59	0.00

Field Name: 52

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 143 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	3,161.73 ton	As-is		0.00	6,588.00	1,620.00	17,280.00	0.01	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	22.11	291.32	71.64	764.12	0.00

**05/15/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 143 Plant date: 05/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	3,369.08 ton	As-is		0.00	5,190.80	988.00	1,155.20	68.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	23.56	244.59	46.55	54.43	0.00

Field Name: 53

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 93 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/05/2023	2,280.36 ton	As-is		0.00	6,840.00	1,692.00	15,840.00	0.01	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	24.52	335.43	82.98	776.79	0.00

**05/10/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 93 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,707.48 ton	As-is		0.00	3,617.60	999.40	5,228.80	76.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	18.36	132.84	36.70	192.00	0.00

Field Name: 54

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 92 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/05/2023	1,931.08 ton	As-is		0.00	6,804.00	1,476.00	16,200.00	0.01	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	20.99	285.63	61.96	680.08	0.00

**05/10/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 92 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,976.16 ton	As-is		0.00	4,936.20	1,048.80	5,339.00	76.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	21.48	212.06	45.06	229.36	0.00

Field Name: 55

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 20 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	473.00 ton	As-is		0.00	6,732.00	1,764.00	16,560.00	0.01	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	23.65	318.42	83.44	783.29	0.00

**05/10/2023: Corn, Late Silage**

Crop: Corn, Late Silage Acres planted: 20 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	477.80 ton	As-is		0.00	4,579.00	1,295.80	1,109.60	68.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	23.89	218.78	61.91	53.02	0.00



# NUTRIENT BUDGET

## A. LAND APPLICATIONS

41

Field name: 41 Crop: Corn, Late Silage Plant date: 05/10/2023

### 05/10/2023: Corn, Late Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,064.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

05/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	141.90	14.61	22.93	652.80	1,520.00 <i>ton</i>
Application event totals		141.90	14.61	22.93	652.80	

05/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	760.00 <i>Gal.</i>
Application event totals		35.39	0.00	0.00	0.00	

06/07/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	15.50	11,905.70	28.15	166.68	293,049.06 <i>gal</i>
Application event totals		15.50	11,905.70	28.15	166.68	

06/22/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,386.81	0.86	658.73	12,630,001.08 <i>gal</i>
Application event totals		0.00	1,386.81	0.86	658.73	

07/05/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
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Lagoon Water Effluent	Process wastewater	13.65	10,480.37	24.78	146.73	257,965.71 <i>gal</i>
Application event totals		13.65	10,480.37	24.78	146.73	

07/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	32.97	25,320.56	59.88	354.49	623,245.13 <i>gal</i>
Well Water	Ground water	0.00	1,189.66	0.74	565.09	10,834,559.95 <i>gal</i>
Application event totals		32.97	26,510.22	60.62	919.58	

07/31/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,321.09	0.82	627.52	12,031,520.71 <i>gal</i>
Application event totals		0.00	1,321.09	0.82	627.52	

08/13/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,308.63	0.81	621.60	11,918,016.15 <i>gal</i>
Application event totals		0.00	1,308.63	0.81	621.60	

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/29/2022	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	1.19	0.00	1.68	458.32	11,032,678.02 <i>gal</i>
Lagoon Water Effluent	Process wastewater	48.56	35,575.69	56.61	372.70	734,686.36 <i>gal</i>
Application event totals		49.75	35,575.69	58.29	831.02	

11/26/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	88.53	64,855.68	103.20	679.44	1,339,357.96 <i>gal</i>
Application event totals		88.53	64,855.68	103.20	679.44	

12/24/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	1.12	0.00	1.58	432.09	10,401,177.48 <i>gal</i>
Lagoon Water Effluent	Process wastewater	89.22	65,355.34	104.00	684.67	1,349,676.58 <i>gal</i>
Application event totals		90.34	65,355.34	105.58	1,116.76	

01/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	79.53	58,260.19	92.71	610.34	1,203,152.10 <i>gal</i>
Application event totals		79.53	58,260.19	92.71	610.34	

02/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,250.85	0.78	594.15	11,391,765.86 <i>gal</i>
Lagoon Water Effluent	Process wastewater	74.54	80,799.44	153.11	713.50	1,756,230.60 <i>gal</i>
Application event totals		74.54	82,050.29	153.89	1,307.65	

Field name: 42

Crop: Corn, Late Silage

Plant date: 05/10/2023

**05/10/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	972.02 <i>Lbs</i>
Corral Solids	Corral Solids	106.43	10.95	17.20	489.60	1,041.45 <i>ton</i>
Application event totals		120.43	10.95	17.20	489.60	
05/24/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	347.15 <i>Gal.</i>
Application event totals		17.70	0.00	0.00	0.00	
06/07/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	62.01	47,622.79	112.62	666.72	1,070,862.96 <i>gal</i>
Application event totals		62.01	47,622.79	112.62	666.72	
06/21/2023	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	0.00	1,359.62	0.85	645.82	11,311,932.34 <i>gal</i>
Application event totals		0.00	1,359.62	0.85	645.82	
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
Lagoon Water Effluent	Process wastewater	49.35	37,897.00	89.62	530.56	852,165.56 <i>gal</i>
Application event totals		49.35	37,897.00	89.62	530.56	
07/18/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,178.33	0.73	559.71	9,803,674.34 <i>gal</i>

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	347.15 <i>Gal.</i>
Application event totals		17.70	1,178.33	0.73	559.71	

08/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,308.63	0.81	621.60	10,887,735.06 <i>gal</i>
Lagoon Water Effluent	Process wastewater	21.12	40,534.66	15.72	146.48	301,651.52 <i>gal</i>
Application event totals		21.12	41,843.29	16.53	768.08	

08/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,321.09	0.82	627.52	10,991,427.45 <i>gal</i>
Application event totals		0.00	1,321.09	0.82	627.52	

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/02/2022	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
Corral Solids	Corral Solids	120.20	48.56	332.23	2,223.70	347.15 <i>ton</i>
Well Water	Ground water	1.23	0.00	1.75	476.24	10,472,963.71 <i>gal</i>
Application event totals		121.43	48.56	333.98	2,699.94	

10/30/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	347.15 <i>Gal.</i>
Application event totals		17.70	0.00	0.00	0.00	

11/29/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	1.13	0.00	1.60	437.23	9,615,142.31 <i>gal</i>
Lagoon Water Effluent	Process wastewater	87.85	64,356.02	102.41	674.21	1,214,147.39 <i>gal</i>
Application event totals		88.98	64,356.02	104.01	1,111.44	

01/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,059.37	0.66	503.20	8,813,880.98 <i>gal</i>
Lagoon Water Effluent	Process wastewater	57.28	62,094.98	117.67	548.33	1,233,000.60 <i>gal</i>
Application event totals		57.28	63,154.35	118.33	1,051.53	

02/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	74.01	80,229.76	152.03	708.47	1,593,097.19 <i>gal</i>
Application event totals		74.01	80,229.76	152.03	708.47	

Field name: 43

Crop: Corn, Late Silage

Plant date: 05/10/2023

**05/10/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	984.48 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
05/02/2023	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
Corral Solids	Corral Solids	106.43	10.95	17.20	489.60	1,054.80 <i>ton</i>
Application event totals		106.43	10.95	17.20	489.60	
05/23/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	351.60 <i>Gal.</i>
Application event totals		17.70	0.00	0.00	0.00	
06/07/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	36.46	28,003.54	66.22	392.05	637,769.43 <i>gal</i>
Application event totals		36.46	28,003.54	66.22	392.05	
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
Well Water	Ground water	0.00	1,359.62	0.85	645.82	11,456,936.13 <i>gal</i>
Application event totals		0.00	1,359.62	0.85	645.82	
07/05/2023	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
Lagoon Water Effluent	Process wastewater	43.67	33,537.17	79.31	469.52	763,795.75 <i>gal</i>
Application event totals		43.67	33,537.17	79.31	469.52	

07/18/2023	Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Well Water	Ground water	0.00	1,178.33	0.73	559.71	9,929,344.28 <i>gal</i>		
Lagoon Water Effluent	Process wastewater	45.85	35,214.03	83.27	493.00	801,985.50 <i>gal</i>		
Application event totals		45.85	36,392.36	84.00	1,052.71			
07/31/2023	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		
Well Water	Ground water	0.00	1,321.09	0.82	627.52	11,132,322.79 <i>gal</i>		
Application event totals		0.00	1,321.09	0.82	627.52			
08/13/2023	Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Well Water	Ground water	0.00	1,296.17	0.81	615.68	10,922,278.71 <i>gal</i>		
Application event totals		0.00	1,296.17	0.81	615.68			

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/29/2022	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	1.15	0.00	1.63	444.43	9,898,792.85 <i>gal</i>
Lagoon Water Effluent	Process wastewater	60.43	44,269.75	70.44	463.78	845,903.76 <i>gal</i>
Application event totals		61.58	44,269.75	72.07	908.21	
11/26/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	79.94	58,559.99	93.18	613.49	1,118,960.81 <i>gal</i>
Application event totals		79.94	58,559.99	93.18	613.49	
12/24/2022	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	1.07	0.00	1.51	411.51	9,165,549.27 <i>gal</i>
Lagoon Water Effluent	Process wastewater	87.99	64,455.95	102.57	675.25	1,231,620.60 <i>gal</i>
Application event totals		89.06	64,455.95	104.08	1,086.76	
01/23/2023	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
Lagoon Water Effluent	Process wastewater	93.17	68,253.36	108.61	715.04	1,304,181.28 <i>gal</i>
Application event totals		93.17	68,253.36	108.61	715.04	

02/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,223.65	0.76	581.24	10,311,242.70 <i>gal</i>
Lagoon Water Effluent	Process wastewater	61.84	67,032.20	127.03	591.93	1,348,099.43 <i>gal</i>
Application event totals		61.84	68,255.85	127.79	1,173.17	

Field name: 44

Crop: Corn, Late Silage

Plant date: 05/10/2023

**05/10/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	989.94 <i>Lbs</i>
Corral Solids	Corral Solids	147.51	54.89	286.10	8,384.00	707.10 <i>ton</i>
Application event totals		161.51	54.89	286.10	8,384.00	
05/24/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	353.55 <i>Gal.</i>
Application event totals		17.70	0.00	0.00	0.00	
06/07/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	26.53	20,373.83	48.18	285.23	466,579.32 <i>gal</i>
Application event totals		26.53	20,373.83	48.18	285.23	
06/21/2023	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	0.00	1,414.00	0.88	671.65	11,981,295.70 <i>gal</i>
Application event totals		0.00	1,414.00	0.88	671.65	
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
Lagoon Water Effluent	Process wastewater	22.49	17,271.64	40.84	241.80	395,536.38 <i>gal</i>
Application event totals		22.49	17,271.64	40.84	241.80	
07/18/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,200.99	0.75	570.47	10,176,421.77 <i>gal</i>

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	353.55 <i>Gal.</i>
Application event totals		17.70	1,200.99	0.75	570.47	

08/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,283.70	0.80	609.76	10,877,250.35 <i>gal</i>
Lagoon Water Effluent	Process wastewater	22.44	43,068.08	16.70	155.63	326,413.52 <i>gal</i>
Application event totals		22.44	44,351.78	17.50	765.39	

08/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,283.70	0.80	609.76	10,877,250.35 <i>gal</i>
Application event totals		0.00	1,283.70	0.80	609.76	

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/30/2022	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	1.22	0.00	1.73	471.91	10,569,077.49 <i>gal</i>
Application event totals		1.22	0.00	1.73	471.91	

11/29/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	93.31	68,353.29	108.77	716.08	1,313,334.41 <i>gal</i>
Application event totals		93.31	68,353.29	108.77	716.08	

12/29/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	1.16	0.00	1.64	447.52	10,022,814.64 <i>gal</i>
Lagoon Water Effluent	Process wastewater	91.67	67,154.11	106.86	703.52	1,290,293.41 <i>gal</i>
Application event totals		92.83	67,154.11	108.50	1,151.04	

01/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	77.86	84,407.40	159.95	745.36	1,706,950.68 <i>gal</i>
Application event totals		77.86	84,407.40	159.95	745.36	

02/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,332.42	0.83	632.90	11,290,067.74 <i>gal</i>
Lagoon Water Effluent	Process wastewater	72.70	78,805.56	149.34	695.90	1,593,665.96 <i>gal</i>
Application event totals		72.70	80,137.98	150.17	1,328.80	

Field name: 45

Crop: Corn, Late Silage

Plant date: 04/25/2023

**04/25/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	84.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
04/16/2023	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
Well Water	Ground water	0.00	1,196.46	0.74	568.32	860,247.80 <i>gal</i>
Application event totals		0.00	1,196.46	0.74	568.32	
05/08/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,121.68	0.70	532.80	806,482.25 <i>gal</i>
Application event totals		0.00	1,121.68	0.70	532.80	
05/24/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	60.00 <i>Gal.</i>
Well Water	Ground water	0.00	1,332.42	0.83	632.90	958,003.21 <i>gal</i>
Application event totals		35.39	1,332.42	0.83	632.90	
06/21/2023	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	0.00	1,283.70	0.80	609.76	922,974.16 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	90.00 <i>Gal.</i>
Application event totals		53.09	1,283.70	0.80	609.76	
07/19/2023	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	30.00 <i>Gal.</i>
Application event totals		17.70	0.00	0.00	0.00	

#### 10/28/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
11/26/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	1.38	0.00	1.95	532.82	1,012,583.33 <i>gal</i>
Application event totals		1.38	0.00	1.95	532.82	
12/26/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	93.03	68,153.43	108.45	713.99	111,115.33 <i>gal</i>
Application event totals		93.03	68,153.43	108.45	713.99	
01/25/2023	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	74.10	80,324.70	152.21	709.31	137,835.16 <i>gal</i>
Well Water	Ground water	0.00	1,364.83	0.85	648.29	981,301.53 <i>gal</i>
Application event totals		74.10	81,689.53	153.06	1,357.60	
02/24/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	77.78	84,312.45	159.77	744.53	144,678.04 <i>gal</i>
Application event totals		77.78	84,312.45	159.77	744.53	
03/17/2023	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	75.94	82,318.58	155.99	726.92	141,256.59 <i>gal</i>
Well Water	Ground water	0.00	1,327.44	0.83	630.53	954,418.80 <i>gal</i>
Application event totals		75.94	83,646.02	156.82	1,357.45	

Field name: 47

Crop: Corn, Late Silage

Plant date: 05/10/2023

**05/10/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	206.22 <i>Lbs</i>
Corral Solids	Corral Solids	118.00	43.91	228.88	6,707.20	117.84 <i>ton</i>
Application event totals		132.00	43.91	228.88	6,707.20	

05/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	73.65 <i>Gal.</i>
Application event totals		17.70	0.00	0.00	0.00	

06/07/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,373.21	0.85	652.28	2,423,894.62 <i>gal</i>
Application event totals		0.00	1,373.21	0.85	652.28	

07/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,283.70	0.80	609.76	2,265,901.50 <i>gal</i>
Application event totals		0.00	1,283.70	0.80	609.76	

07/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	147.30 <i>Gal.</i>
Application event totals		35.39	0.00	0.00	0.00	

08/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
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Well Water	Ground water	0.00	1,283.70	0.80	609.76	2,265,901.50 <i>gal</i>
Lagoon Water Effluent	Process wastewater	82.11	157,578.48	61.11	569.42	248,789.18 <i>gal</i>
Application event totals		82.11	158,862.18	61.91	1,179.18	

08/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,283.70	0.80	609.76	2,265,901.50 <i>gal</i>
Application event totals		0.00	1,283.70	0.80	609.76	

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/01/2022	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
Corral Solids	Corral Solids	192.32	77.70	531.57	3,557.92	117.84 <i>ton</i>
Application event totals		192.32	77.70	531.57	3,557.92	

10/24/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	1.42	0.00	2.00	546.97	2,551,889.13 <i>gal</i>
Application event totals		1.42	0.00	2.00	546.97	

11/21/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.14	0.00	0.20	54.35	253,588.98 <i>gal</i>
Application event totals		0.14	0.00	0.20	54.35	

01/03/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,130.07	0.70	536.78	1,994,713.29 <i>gal</i>
Lagoon Water Effluent	Process wastewater	57.84	42,371.05	67.42	443.89	169,592.63 <i>gal</i>
Application event totals		57.84	43,501.12	68.12	980.67	

02/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	42.48	46,049.03	87.26	406.64	193,991.57 <i>gal</i>
Application event totals		42.48	46,049.03	87.26	406.64	



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
Lagoon Water Effluent	Process wastewater	43.18	46,808.60	88.70	413.35	197,191.43 <i>gal</i>
Application event totals		43.18	46,808.60	88.70	413.35	
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
Well Water	Ground water	0.00	1,388.62	0.86	659.59	2,451,093.37 <i>gal</i>
Lagoon Water Effluent	Process wastewater	20.41	22,122.52	41.92	195.35	93,195.95 <i>gal</i>
Application event totals		20.41	23,511.14	42.78	854.94	

Field name: 48

Crop: Corn, Late Silage

Plant date: 05/10/2023

**05/10/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	672.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

05/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	240.00 <i>Gal.</i>
Application event totals		17.70	0.00	0.00	0.00	

06/07/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,386.81	0.86	658.73	7,976,842.79 <i>gal</i>
Lagoon Water Effluent	Process wastewater	65.61	50,389.60	119.16	705.45	783,346.85 <i>gal</i>
Application event totals		65.61	51,776.41	120.02	1,364.18	

06/21/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	65.72	50,473.45	119.36	706.63	784,650.23 <i>gal</i>
Application event totals		65.72	50,473.45	119.36	706.63	

07/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,308.63	0.81	621.60	7,527,168.09 <i>gal</i>
Lagoon Water Effluent	Process wastewater	73.04	56,090.92	132.64	785.27	871,978.46 <i>gal</i>
Application event totals		73.04	57,399.55	133.45	1,406.87	

07/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
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Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	480.00 <i>Gal.</i>
Application event totals		35.39	0.00	0.00	0.00	

08/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,308.63	0.81	621.60	7,527,168.09 <i>gal</i>
Lagoon Water Effluent	Process wastewater	54.52	104,630.09	40.58	378.09	538,306.54 <i>gal</i>
Application event totals		54.52	105,938.72	41.39	999.69	

08/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,308.63	0.81	621.60	7,527,168.09 <i>gal</i>
Application event totals		0.00	1,308.63	0.81	621.60	

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/01/2022	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	240.00 <i>Gal.</i>
Application event totals		17.70	0.00	0.00	0.00	

12/31/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	88.40	64,755.75	103.04	678.39	844,606.90 <i>gal</i>
Application event totals		88.40	64,755.75	103.04	678.39	

01/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	69.02	74,817.81	141.78	660.68	1,027,083.68 <i>gal</i>
Well Water	Ground water	0.00	1,169.27	0.73	555.40	6,725,573.26 <i>gal</i>
Application event totals		69.02	75,987.08	142.51	1,216.08	

03/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	96.34	104,441.10	197.91	922.27	1,433,746.31 <i>gal</i>
Well Water	Ground water	0.00	1,021.98	0.64	485.44	5,878,360.05 <i>gal</i>
Application event totals		96.34	105,463.08	198.55	1,407.71	

03/22/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,128.48	0.70	536.03	6,490,960.45 <i>gal</i>
Lagoon Water Effluent	Process wastewater	98.97	107,289.49	203.31	947.43	1,472,848.44 <i>gal</i>
Application event totals		98.97	108,417.97	204.01	1,483.46	

Field name: 51

Crop: Corn, Late Silage

Plant date: 05/10/2023

**05/10/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Corral Solids	Corral Solids	70.95	7.30	11.46	326.40	1,500.00 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	2,100.00 <i>Lbs</i>
Application event totals		84.95	7.30	11.46	326.40	

05/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,428.73	3.67	114.30	25,681,164.91 <i>gal</i>
Application event totals		0.05	1,428.73	3.67	114.30	

05/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	750.00 <i>Gal.</i>
Canal Water	Ground water	0.04	1,013.14	2.60	81.05	18,211,022.43 <i>gal</i>
Application event totals		17.74	1,013.14	2.60	81.05	

06/07/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,242.46	1.19	443.14	22,333,041.38 <i>gal</i>
Application event totals		0.00	1,242.46	1.19	443.14	

06/21/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,176.29	3.02	94.10	21,143,684.42 <i>gal</i>
Application event totals		0.04	1,176.29	3.02	94.10	

07/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,437.79	1.38	512.81	25,844,090.47 <i>gal</i>

Application event totals		0.00	1,437.79	1.38	512.81	
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07/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	1,500.00 <i>Gal.</i>
Canal Water	Ground water	0.03	918.87	2.36	73.51	16,516,593.52 <i>gal</i>
Application event totals		35.42	918.87	2.36	73.51	

08/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,500.56	1.44	535.20	26,972,352.77 <i>gal</i>
Lagoon Water Effluent	Process wastewater	66.27	127,177.49	49.32	459.57	2,044,717.60 <i>gal</i>
Application event totals		66.27	128,678.05	50.76	994.77	

08/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,126.89	1.08	401.93	20,255,739.55 <i>gal</i>
Application event totals		0.00	1,126.89	1.08	401.93	

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/01/2022	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
Corral Solids	Corral Solids	240.40	97.12	664.47	4,447.40	1,500.00 <i>ton</i>
Application event totals		240.40	97.12	664.47	4,447.40	

10/29/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,258.78	33,055.48	119.58	22,626,307.78 <i>gal</i>
Application event totals		0.00	1,258.78	33,055.48	119.58	

11/26/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	10.97	0.00	1.68	489.41	21,775,022.42 <i>gal</i>

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	750.00 <i>Gal.</i>
Application event totals		28.67	0.00	1.68	489.41	

12/26/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	57.84	42,371.05	67.42	443.89	1,727,012.54 <i>gal</i>
Canal Water	Ground water	0.00	1,278.04	33,561.28	121.41	22,972,525.07 <i>gal</i>
Application event totals		57.84	43,649.09	33,628.70	565.30	

01/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,114.88	1.07	397.64	20,039,863.08 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	750.00 <i>Gal.</i>
Application event totals		17.70	1,114.88	1.07	397.64	

02/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,121.68	29,455.38	106.56	20,162,056.28 <i>gal</i>
Lagoon Water Effluent	Process wastewater	38.63	41,871.39	79.35	369.75	1,796,256.05 <i>gal</i>
Application event totals		38.63	42,993.07	29,534.73	476.31	

03/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,210.06	1.16	431.59	21,750,583.39 <i>gal</i>
Lagoon Water Effluent	Process wastewater	18.22	19,748.86	37.42	174.39	847,213.73 <i>gal</i>
Application event totals		18.22	20,958.92	38.58	605.98	

Field name: 52

Crop: Corn, Late Silage

Plant date: 05/15/2023

**05/15/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	2,002.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
05/02/2023	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	0.00	1,233.85	1.18	440.07	21,143,277.83 <i>gal</i>
Application event totals		0.00	1,233.85	1.18	440.07	
05/23/2023	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	0.00	1,133.01	1.08	404.11	19,415,314.20 <i>gal</i>
Application event totals		0.00	1,133.01	1.08	404.11	
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
Lagoon Water Effluent	Process wastewater	64.74	49,718.86	117.57	696.06	2,302,656.24 <i>gal</i>
Canal Water	Ground water	0.05	1,359.62	3.49	108.77	23,298,377.04 <i>gal</i>
Application event totals		64.79	51,078.48	121.06	804.83	
06/23/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,377.06	3.54	110.17	23,597,373.43 <i>gal</i>
Application event totals		0.05	1,377.06	3.54	110.17	
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
Lagoon Water Effluent	Process wastewater	81.77	62,798.36	148.51	879.18	2,908,414.12 <i>gal</i>
Well Water	Ground water	0.00	1,283.70	1.23	457.85	21,997,550.85 <i>gal</i>
Application event totals		81.77	64,082.06	149.74	1,337.03	



07/21/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,167.00	3.00	93.36	19,997,774.00 <i>gal</i>
Lagoon Water Effluent	Process wastewater	100.00	76,800.13	181.62	1,075.20	3,556,885.60 <i>gal</i>
Application event totals		100.04	77,967.13	184.62	1,168.56	
08/03/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,308.63	1.25	466.74	22,424,688.28 <i>gal</i>
Lagoon Water Effluent	Process wastewater	40.13	77,015.85	29.87	278.30	1,180,451.07 <i>gal</i>
Application event totals		40.13	78,324.48	31.12	745.04	
08/16/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,308.63	3.36	104.69	22,424,688.28 <i>gal</i>
Application event totals		0.05	1,308.63	3.36	104.69	

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/30/2022	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	11.18	0.00	1.71	498.48	21,143,277.83 <i>gal</i>
Application event totals		11.18	0.00	1.71	498.48	
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
Canal Water	Ground water	0.00	1,199.18	31,490.48	113.92	20,549,169.69 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	715.00 <i>Gal.</i>
Application event totals		17.70	1,199.18	31,490.48	113.92	
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
Lagoon Water Effluent	Process wastewater	85.26	62,457.32	99.39	654.31	2,426,914.28 <i>gal</i>
Well Water	Ground water	11.46	0.00	1.75	510.83	21,667,490.36 <i>gal</i>

Application event totals		96.72	62,457.32	101.14	1,165.14	
01/26/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	85.57	92,762.69	175.78	819.15	3,793,752.39 <i>gal</i>
Canal Water	Ground water	0.00	1,101.29	28,919.83	104.62	18,871,685.92 <i>gal</i>
Application event totals		85.57	93,863.98	29,095.61	923.77	
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	0.00	1,021.98	0.98	364.51	17,512,614.30 <i>gal</i>
Lagoon Water Effluent	Process wastewater	96.34	104,441.10	197.91	922.27	4,271,369.22 <i>gal</i>
Application event totals		96.34	105,463.08	198.89	1,286.78	
03/18/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	70.59	76,526.84	145.02	675.77	3,129,748.63 <i>gal</i>
Canal Water	Ground water	0.00	1,087.69	28,562.80	103.33	18,638,702.38 <i>gal</i>
Application event totals		70.59	77,614.53	28,707.82	779.10	

Field name: 53

Crop: Corn, Late Silage

Plant date: 05/10/2023

**05/10/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,302.00 <i>Lbs</i>
Corral Solids	Corral Solids	35.48	3.65	5.73	163.20	465.00 <i>ton</i>
Application event totals		49.48	3.65	5.73	163.20	
05/02/2023	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	0.04	1,190.12	3.06	95.21	13,263,130.28 <i>gal</i>
Application event totals		0.04	1,190.12	3.06	95.21	
05/24/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,121.68	2.88	89.73	12,500,474.89 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	465.00 <i>Gal.</i>
Application event totals		17.74	1,121.68	2.88	89.73	
06/07/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,359.62	3.49	108.77	15,152,091.36 <i>gal</i>
Lagoon Water Effluent	Process wastewater	42.58	32,698.74	77.33	457.78	984,885.90 <i>gal</i>
Application event totals		42.63	34,058.36	80.82	566.55	
06/21/2023	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	0.00	1,400.40	1.34	499.48	15,606,653.67 <i>gal</i>
Application event totals		0.00	1,400.40	1.34	499.48	
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

Canal Water	Ground water	0.05	1,296.17	3.33	103.69	14,444,993.24 <i>gal</i>
Lagoon Water Effluent	Process wastewater	21.83	16,768.59	39.65	234.76	505,069.72 <i>gal</i>
Application event totals		21.88	18,064.76	42.98	338.45	

07/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,189.66	1.14	424.31	13,258,079.94 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	465.00 <i>Gal.</i>
Application event totals		17.70	1,189.66	1.14	424.31	

08/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	19.80	38,001.24	14.74	137.32	378,802.30 <i>gal</i>
Well Water	Ground water	0.00	1,321.09	1.26	471.19	14,722,781.92 <i>gal</i>
Application event totals		19.80	39,322.33	16.00	608.51	

08/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,296.17	1.24	462.30	14,444,993.24 <i>gal</i>
Application event totals		0.00	1,296.17	1.24	462.30	

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/02/2022	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	11.07	0.00	1.69	493.44	13,611,628.41 <i>gal</i>
Application event totals		11.07	0.00	1.69	493.44	

10/30/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,185.58	31,133.45	112.63	13,212,623.35 <i>gal</i>
Application event totals		0.00	1,185.58	31,133.45	112.63	

11/29/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
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Lagoon Water Effluent	Process wastewater	83.62	61,258.14	97.48	641.75	1,548,038.61 <i>gal</i>
Well Water	Ground water	10.22	0.00	1.56	455.91	12,576,235.88 <i>gal</i>
Application event totals		93.84	61,258.14	99.04	1,097.66	

12/29/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,155.67	30,347.97	109.79	12,879,277.42 <i>gal</i>
Lagoon Water Effluent	Process wastewater	96.72	70,851.58	112.74	742.25	1,790,472.11 <i>gal</i>
Application event totals		96.72	72,007.25	30,460.71	852.04	

01/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,096.76	1.05	391.18	12,222,687.42 <i>gal</i>
Lagoon Water Effluent	Process wastewater	77.34	83,837.72	158.87	740.33	2,229,882.82 <i>gal</i>
Application event totals		77.34	84,934.48	159.92	1,131.51	

02/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	86.89	94,186.88	178.48	831.72	2,505,145.73 <i>gal</i>
Canal Water	Ground water	0.00	1,196.46	31,419.08	113.66	13,333,840.93 <i>gal</i>
Application event totals		86.89	95,383.34	31,597.56	945.38	

Field name: 54

Crop: Corn, Late Silage

Plant date: 05/10/2023

**05/10/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,288.00 <i>Lbs</i>
Corral Solids	Corral Solids	70.95	7.30	11.46	326.40	920.00 <i>ton</i>
Application event totals		84.95	7.30	11.46	326.40	
05/02/2023	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	0.00	1,166.55	1.12	416.07	12,860,703.54 <i>gal</i>
Application event totals		0.00	1,166.55	1.12	416.07	
05/24/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,121.68	1.07	400.07	12,366,061.19 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	460.00 <i>Gal.</i>
Application event totals		17.70	1,121.68	1.07	400.07	
06/07/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	53.06	40,747.67	96.36	570.47	1,214,122.42 <i>gal</i>
Well Water	Ground water	0.00	1,414.00	1.35	504.33	15,588,731.71 <i>gal</i>
Application event totals		53.06	42,161.67	97.71	1,074.80	
06/21/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,386.81	3.56	110.94	15,288,948.68 <i>gal</i>
Application event totals		0.05	1,386.81	3.56	110.94	
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	1,308.63	1.25	466.74	14,427,072.18 <i>gal</i>
Lagoon Water Effluent	Process wastewater	46.62	35,800.93	84.66	501.21	1,066,728.92 <i>gal</i>
Application event totals		46.62	37,109.56	85.91	967.95	

07/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	460.00 <i>Gal.</i>
Canal Water	Ground water	0.05	1,307.72	3.36	104.62	14,417,078.93 <i>gal</i>
Application event totals		17.75	1,307.72	3.36	104.62	

08/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,296.17	3.33	103.69	14,289,670.73 <i>gal</i>
Lagoon Water Effluent	Process wastewater	58.08	111,470.31	43.23	402.81	1,099,205.48 <i>gal</i>
Application event totals		58.13	112,766.48	46.56	506.50	

08/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,321.09	3.40	105.69	14,564,472.43 <i>gal</i>
Application event totals		0.05	1,321.09	3.40	105.69	

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/02/2022	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
Canal Water	Ground water	0.00	1,258.78	33,055.48	119.58	13,877,468.77 <i>gal</i>
Corral Solids	Corral Solids	120.20	48.56	332.23	2,223.70	460.00 <i>ton</i>
Application event totals		120.20	1,307.34	33,387.71	2,343.28	

10/30/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,235.89	32,454.48	117.41	13,625,151.57 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	460.00 <i>Gal.</i>

Application event totals		17.70	1,235.89	32,454.48	117.41	
11/29/2022	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	0.00	1,114.88	29,276.86	105.91	12,291,116.02 <i>gal</i>
Lagoon Water Effluent	Process wastewater	69.98	51,264.97	81.58	537.06	1,281,573.69 <i>gal</i>
Application event totals		69.98	52,379.85	29,358.44	642.97	
12/29/2022	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	460.00 <i>Gal.</i>
Well Water	Ground water	10.96	0.00	1.68	488.86	13,340,357.81 <i>gal</i>
Application event totals		28.66	0.00	1.68	488.86	
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
Lagoon Water Effluent	Process wastewater	48.96	53,075.07	100.58	468.68	1,396,490.64 <i>gal</i>
Well Water	Ground water	0.00	1,071.83	1.03	382.29	11,816,458.97 <i>gal</i>
Application event totals		48.96	54,146.90	101.61	850.97	
02/18/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,182.87	1.13	421.89	13,040,573.59 <i>gal</i>
Lagoon Water Effluent	Process wastewater	51.59	55,923.46	105.97	493.83	1,471,436.39 <i>gal</i>
Application event totals		51.59	57,106.33	107.10	915.72	



Field name: 55

Crop: Corn, Late Silage

Plant date: 05/10/2023

**05/10/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Corral Solids	Corral Solids	70.95	7.30	11.46	326.40	200.00 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	280.00 <i>Lbs</i>
Application event totals		84.95	7.30	11.46	326.40	

05/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,154.77	2.97	92.38	2,767,564.64 <i>gal</i>
Application event totals		0.04	1,154.77	2.97	92.38	

05/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	100.00 <i>Gal.</i>
Canal Water	Ground water	0.04	1,121.68	2.88	89.73	2,688,274.17 <i>gal</i>
Application event totals		17.74	1,121.68	2.88	89.73	

06/07/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,373.21	3.53	109.86	3,291,099.38 <i>gal</i>
Lagoon Water Effluent	Process wastewater	53.06	40,747.67	96.36	570.47	263,939.66 <i>gal</i>
Application event totals		53.11	42,120.88	99.89	680.33	

06/21/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,359.62	1.04	448.67	3,258,514.27 <i>gal</i>
Application event totals		0.00	1,359.62	1.04	448.67	

07/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
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Lagoon Water Effluent	Process wastewater	54.48	41,837.62	98.94	585.73	270,999.78 <i>gal</i>
Canal Water	Ground water	0.05	1,283.70	3.30	102.70	3,076,580.54 <i>gal</i>
Application event totals		54.53	43,121.32	102.24	688.43	

07/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,178.33	0.90	388.85	2,824,045.60 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	100.00 <i>Gal.</i>
Application event totals		17.70	1,178.33	0.90	388.85	

08/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,283.70	0.98	423.62	3,076,580.54 <i>gal</i>
Lagoon Water Effluent	Process wastewater	57.42	110,203.60	42.74	398.23	236,242.29 <i>gal</i>
Application event totals		57.42	111,487.30	43.72	821.85	

08/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,308.63	1.00	431.85	3,136,320.04 <i>gal</i>
Application event totals		0.00	1,308.63	1.00	431.85	

#### 10/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/27/2022	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	0.00	1,258.78	33,055.48	119.58	3,016,841.04 <i>gal</i>
Application event totals		0.00	1,258.78	33,055.48	119.58	

11/24/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	1.31	0.00	1.65	424.33	2,844,682.91 <i>gal</i>
Application event totals		1.31	0.00	1.65	424.33	

12/24/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
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Lagoon Water Effluent	Process wastewater	94.26	69,052.81	109.88	723.41	375,272.22 <i>gal</i>
Canal Water	Ground water	0.00	1,087.69	28,562.80	103.33	2,606,811.52 <i>gal</i>
Application event totals		94.26	70,140.50	28,672.68	826.74	

01/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	88.40	64,755.75	103.04	678.39	351,919.54 <i>gal</i>
Well Water	Ground water	0.00	1,087.69	0.83	358.94	2,606,811.52 <i>gal</i>
Application event totals		88.40	65,843.44	103.87	1,037.33	

02/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,071.83	28,146.25	101.82	2,568,795.43 <i>gal</i>
Lagoon Water Effluent	Process wastewater	91.97	99,693.77	188.92	880.35	570,239.97 <i>gal</i>
Application event totals		91.97	100,765.60	28,335.17	982.17	

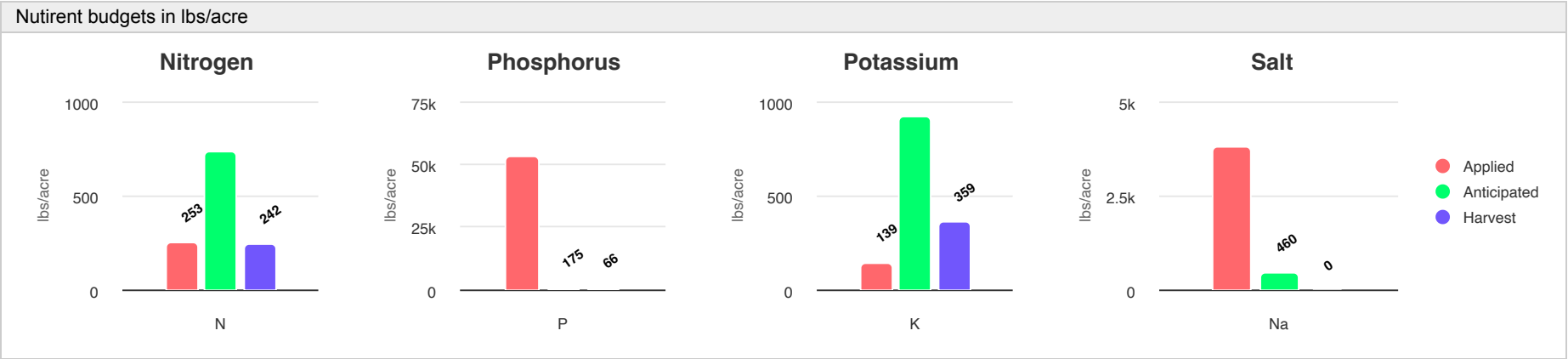
03/29/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,114.88	0.85	367.91	2,671,981.74 <i>gal</i>
Lagoon Water Effluent	Process wastewater	82.86	89,819.35	170.21	793.15	513,759.07 <i>gal</i>
Application event totals		82.86	90,934.23	171.06	1,161.06	

**B. NUTRIENT BUDGET**

41 - 05/10/2023: Corn, Late Silage

Field name: 41 Crop: Corn, Late Silage Plant date: 05/10/2023



	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	35.39	0.00	0.00	0.00
Dry manure	141.90	14.61	22.93	652.80
Process wastewater	62.12	47,706.63	112.81	667.90
Fresh water	0.00	5,206.19	3.23	2,472.94
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	253.41	52,927.43	138.97	3,793.64
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	241.89	65.76	358.52	0.00
Nutrient balance	11.53	52,861.67	-219.55	3,793.64
Applied to removed ratio	1.05	804.92	0.39	0.00

Fresh water applied	
47,414,097.89	gallons
1,746.10	acre-inches
22.97	inches/acre

Process wastewater applied	
1,174,259.91	gallons
43.24	acre-inches
0.57	inches/acre

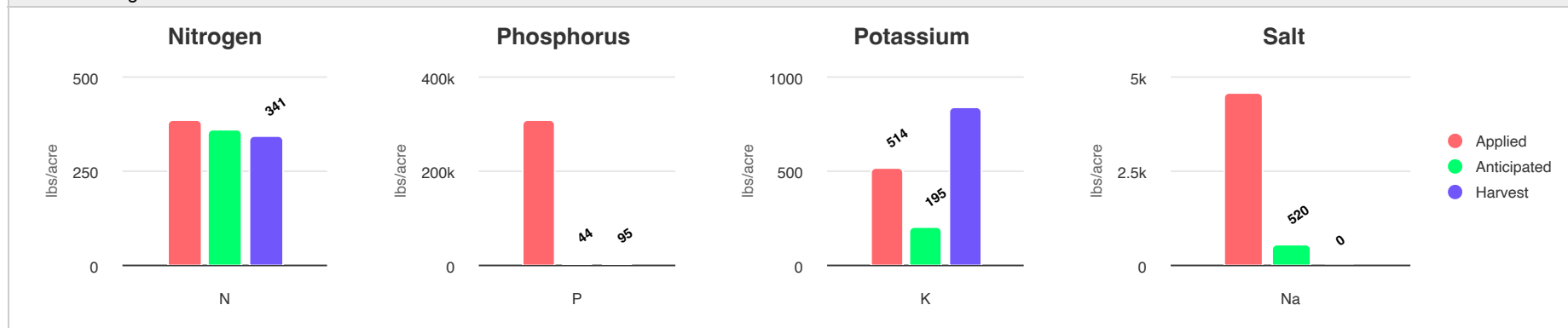
Total Harvests for the crop	
1	harvests

Field name: 41

Crop: Triticale

Plant date: 10/01/2022

## 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	0.00	0.00	0.00	0.00
Process wastewater	380.38	304,846.34	509.63	3,060.65
Fresh water	2.31	1,250.85	4.04	1,484.56
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	382.69	306,097.19	513.67	4,545.21
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	340.61	95.17	834.84	0.00
Nutrient balance	42.08	306,002.02	-321.17	4,545.21
Applied to removed ratio	1.12	3,216.26	0.62	0.00

## Fresh water applied

32,825,621.36 *gallons*  
 1,208.86 *acre-inches*  
 15.91 *inches/acre*

## Process wastewater applied

6,383,103.60 *gallons*  
 235.07 *acre-inches*  
 3.09 *inches/acre*

## Total Harvests for the crop

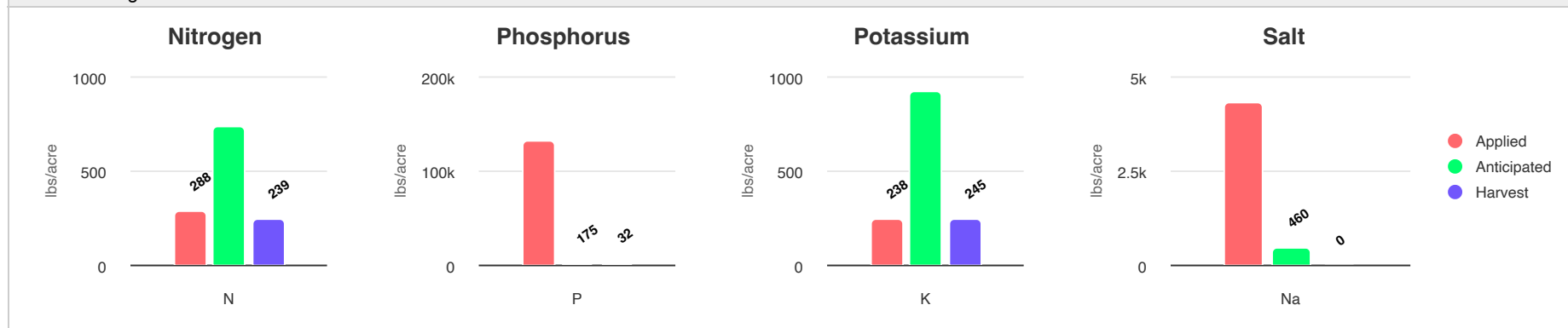
1 *harvests*

Field name: 42

Crop: Corn, Late Silage

Plant date: 05/10/2023

## 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	106.43	10.95	17.20	489.60
Process wastewater	132.48	126,054.45	217.96	1,343.76
Fresh water	0.00	5,167.67	3.21	2,454.65
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>288.31</b>	<b>131,233.07</b>	<b>238.37</b>	<b>4,288.01</b>
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	239.19	31.83	244.99	0.00
<b>Nutrient balance</b>	<b>49.12</b>	<b>131,201.25</b>	<b>-6.62</b>	<b>4,288.01</b>
Applied to removed ratio	1.21	4,123.56	0.97	0.00

## Fresh water applied

42,994,769.20 gallons  
 1,583.35 acre-inches  
 22.80 inches/acre

## Process wastewater applied

2,224,680.04 gallons  
 81.93 acre-inches  
 1.18 inches/acre

## Total Harvests for the crop

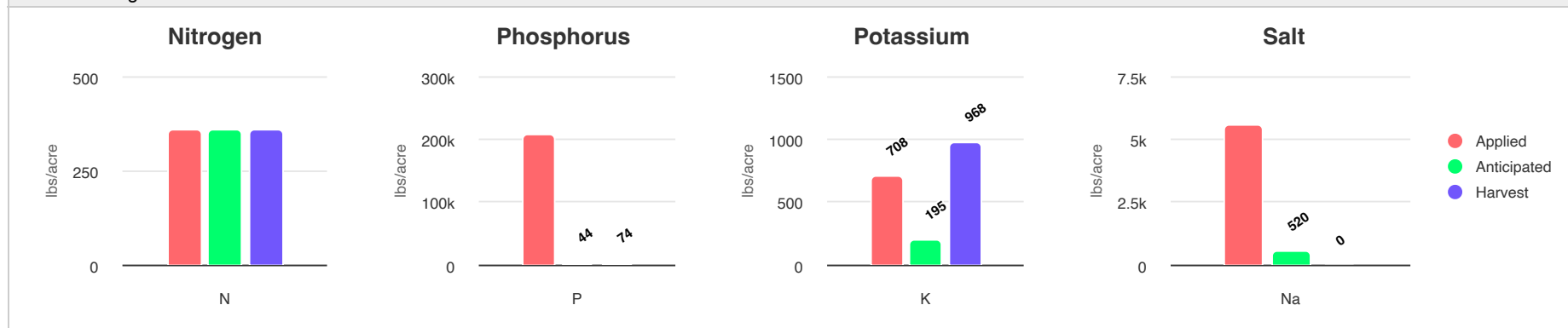
1 harvests

Field name: 42

Crop: Triticale

Plant date: 10/01/2022

## 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	17.70	0.00	0.00	0.00
Dry manure	120.20	48.56	332.23	2,223.70
Process wastewater	219.14	206,680.76	372.11	1,931.01
Fresh water	2.36	1,059.37	4.01	1,416.67
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	359.40	207,788.69	708.35	5,571.38
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	359.12	73.94	968.22	0.00
Nutrient balance	0.28	207,714.75	-259.87	5,571.38
Applied to removed ratio	1.00	2,810.36	0.73	0.00

## Fresh water applied

28,901,987.00 gallons  
 1,064.36 acre-inches  
 15.33 inches/acre

## Process wastewater applied

4,040,245.18 gallons  
 148.79 acre-inches  
 2.14 inches/acre

## Total Harvests for the crop

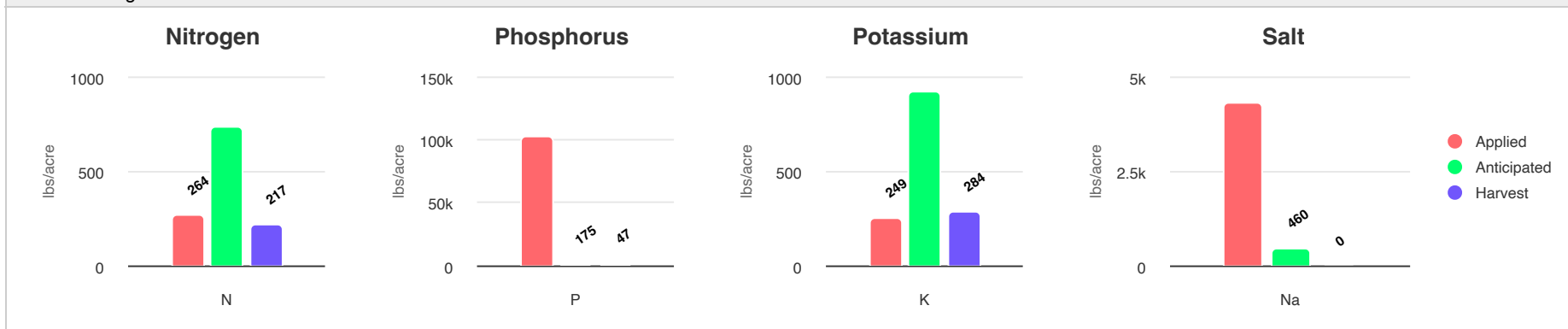
1 harvests

Field name: 43

Crop: Corn, Late Silage

Plant date: 05/10/2023

## 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	106.43	10.95	17.20	489.60
Process wastewater	125.98	96,754.74	228.80	1,354.57
Fresh water	0.00	5,155.21	3.21	2,448.73
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	264.11	101,920.90	249.21	4,292.90
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	217.44	46.93	284.05	0.00
Nutrient balance	46.67	101,873.97	-34.84	4,292.90
Applied to removed ratio	1.21	2,171.69	0.88	0.00

## Fresh water applied

43,440,881.92 gallons  
 1,599.78 acre-inches  
 22.75 inches/acre

## Process wastewater applied

2,203,550.69 gallons  
 81.15 acre-inches  
 1.15 inches/acre

## Total Harvests for the crop

1 harvests

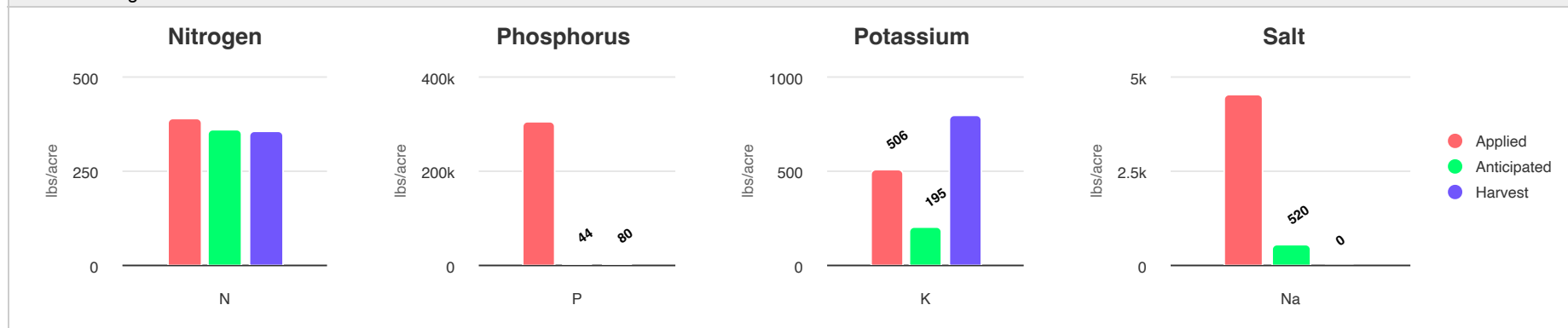


Field name: 43

Crop: Triticale

Plant date: 10/01/2022

## 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	0.00	0.00	0.00	0.00
Process wastewater	383.37	302,571.25	501.83	3,059.49
Fresh water	2.22	1,223.65	3.90	1,437.18
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	385.59	303,794.90	505.73	4,496.67
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	352.83	79.61	796.12	0.00
Nutrient balance	32.76	303,715.29	-290.39	4,496.67
Applied to removed ratio	1.09	3,815.95	0.64	0.00

## Fresh water applied

29,375,584.81 gallons  
 1,081.80 acre-inches  
 15.38 inches/acre

## Process wastewater applied

5,848,765.88 gallons  
 215.39 acre-inches  
 3.06 inches/acre

## Total Harvests for the crop

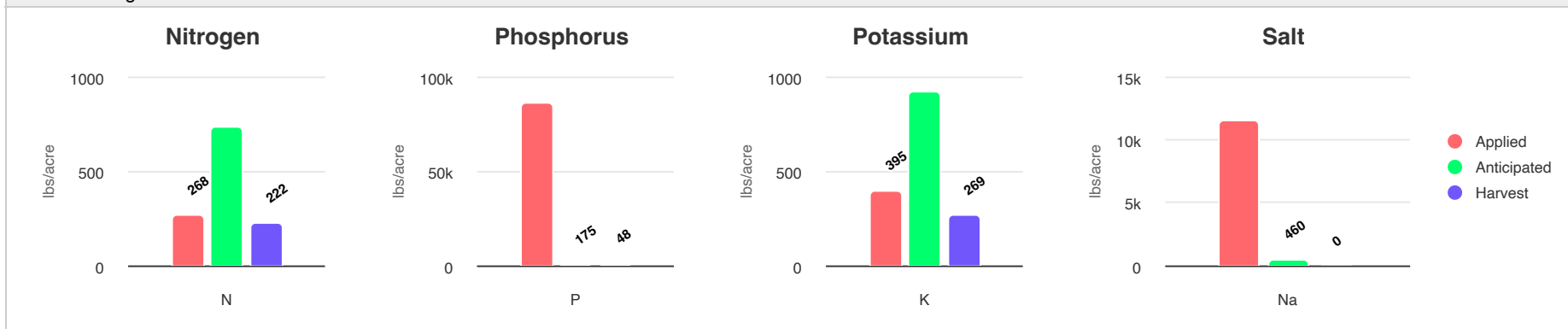
1 harvests

Field name: 44

Crop: Corn, Late Silage

Plant date: 05/10/2023

## 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	147.51	54.89	286.10	8,384.00
Process wastewater	71.46	80,713.55	105.72	682.66
Fresh water	0.00	5,182.39	3.23	2,461.64
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	268.37	85,950.83	395.05	11,528.30
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	222.42	48.38	269.06	0.00
Nutrient balance	45.95	85,902.45	125.99	11,528.30
Applied to removed ratio	1.21	1,776.70	1.47	0.00

## Fresh water applied

43,912,218.17 gallons  
 1,617.14 acre-inches  
 22.87 inches/acre

## Process wastewater applied

1,188,529.22 gallons  
 43.77 acre-inches  
 0.62 inches/acre

## Total Harvests for the crop

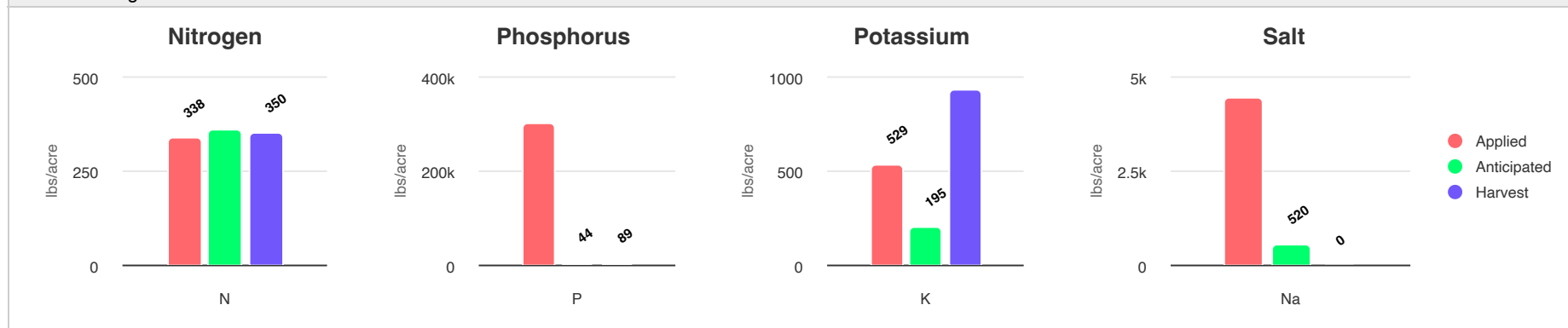
1 harvests

Field name: 44

Crop: Triticale

Plant date: 10/01/2022

## 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	0.00	0.00	0.00	0.00
Process wastewater	335.54	298,720.36	524.92	2,860.86
Fresh water	2.38	1,332.42	4.20	1,552.33
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	337.92	300,052.78	529.12	4,413.19
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	349.52	88.83	926.90	0.00
Nutrient balance	-11.60	299,963.95	-397.78	4,413.19
Applied to removed ratio	0.97	3,377.91	0.57	0.00

## Fresh water applied

31,881,959.87 gallons  
 1,174.10 acre-inches  
 16.60 inches/acre

## Process wastewater applied

5,904,244.47 gallons  
 217.43 acre-inches  
 3.07 inches/acre

## Total Harvests for the crop

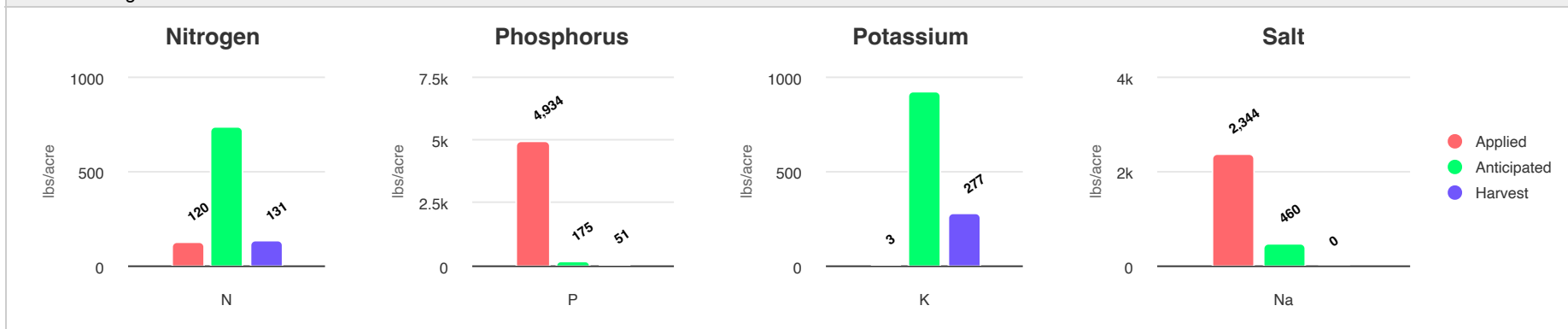
1 harvests

Field name: 45

Crop: Corn, Late Silage

Plant date: 04/25/2023

## 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	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	4,934.26	3.07	2,343.78
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	120.18	4,934.26	3.07	2,343.78
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	130.66	51.49	276.59	0.00
Nutrient balance	-10.48	4,882.77	-273.52	2,343.78
Applied to removed ratio	0.92	95.82	0.01	0.00

## Fresh water applied

3,547,707.43 gallons  
 130.65 acre-inches  
 21.78 inches/acre

## Process wastewater applied

0.00 gallons  
 0.00 acre-inches  
 0.00 inches/acre

## Total Harvests for the crop

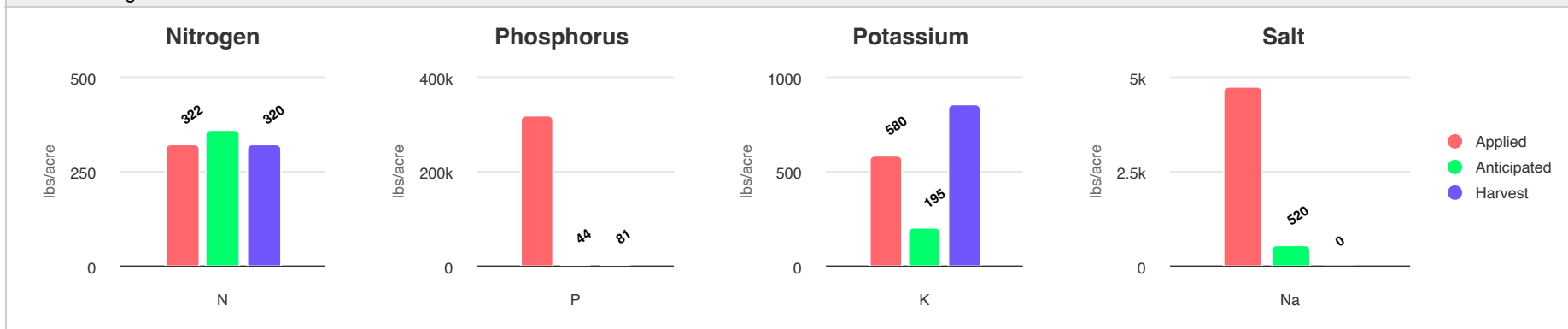
1 harvests

Field name: 45

Crop: Triticale

Plant date: 10/28/2022

## 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	0.00	0.00	0.00	0.00
Process wastewater	320.85	315,109.16	576.42	2,894.75
Fresh water	1.38	2,692.27	3.63	1,811.64
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	322.23	317,801.43	580.05	4,706.39
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	319.81	81.28	848.10	0.00
Nutrient balance	2.42	317,720.15	-268.05	4,706.39
Applied to removed ratio	1.01	3,910.13	0.68	0.00

## Fresh water applied

2,948,303.67 gallons  
 108.58 acre-inches  
 18.10 inches/acre

## Process wastewater applied

534,885.12 gallons  
 19.70 acre-inches  
 3.28 inches/acre

## Total Harvests for the crop

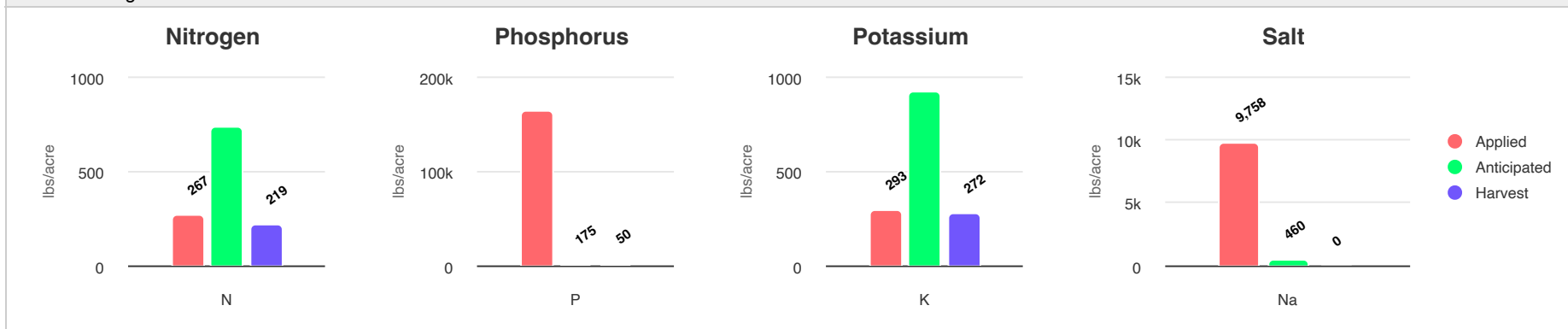
1 harvests

Field name: 47

Crop: Corn, Late Silage

Plant date: 05/10/2023

## 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	53.09	0.00	0.00	0.00
Dry manure	118.00	43.91	228.88	6,707.20
Process wastewater	82.11	157,578.48	61.11	569.42
Fresh water	0.00	5,224.31	3.25	2,481.56
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	267.20	162,846.70	293.24	9,758.18
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	219.31	50.32	271.95	0.00
Nutrient balance	47.89	162,796.38	21.29	9,758.18
Applied to removed ratio	1.22	3,236.07	1.08	0.00

## Fresh water applied

9,221,599.11 gallons  
 339.60 acre-inches  
 23.05 inches/acre

## Process wastewater applied

248,789.18 gallons  
 9.16 acre-inches  
 0.62 inches/acre

## Total Harvests for the crop

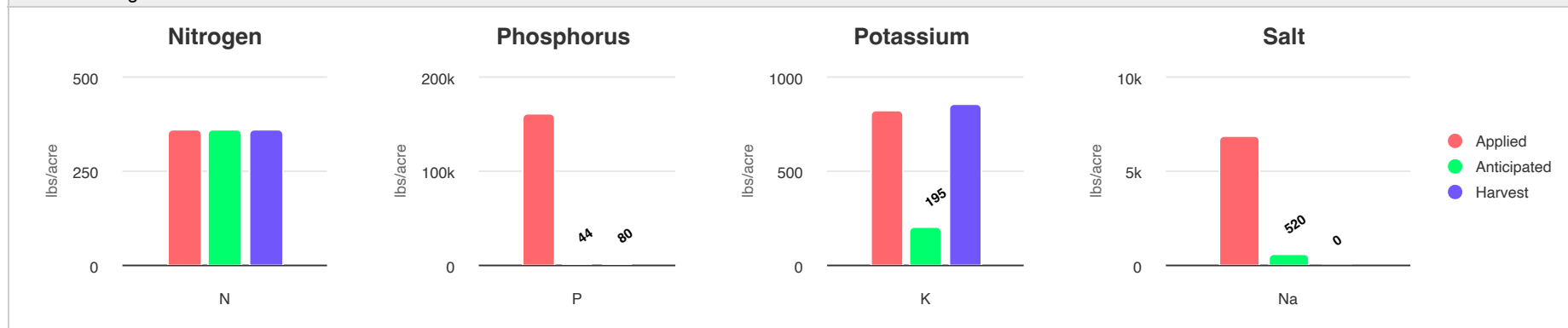
1 harvests

Field name: 47

Crop: Triticale

Plant date: 10/01/2022

## 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	192.32	77.70	531.57	3,557.92
Process wastewater	163.91	157,351.20	285.30	1,459.23
Fresh water	1.56	2,518.69	3.76	1,797.69
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	357.79	159,947.59	820.63	6,814.84
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	357.06	79.54	848.45	0.00
Nutrient balance	0.73	159,868.05	-27.82	6,814.84
Applied to removed ratio	1.00	2,010.86	0.97	0.00

## Fresh water applied

7,251,284.77 gallons  
 267.04 acre-inches  
 18.13 inches/acre

## Process wastewater applied

653,971.58 gallons  
 24.08 acre-inches  
 1.64 inches/acre

## Total Harvests for the crop

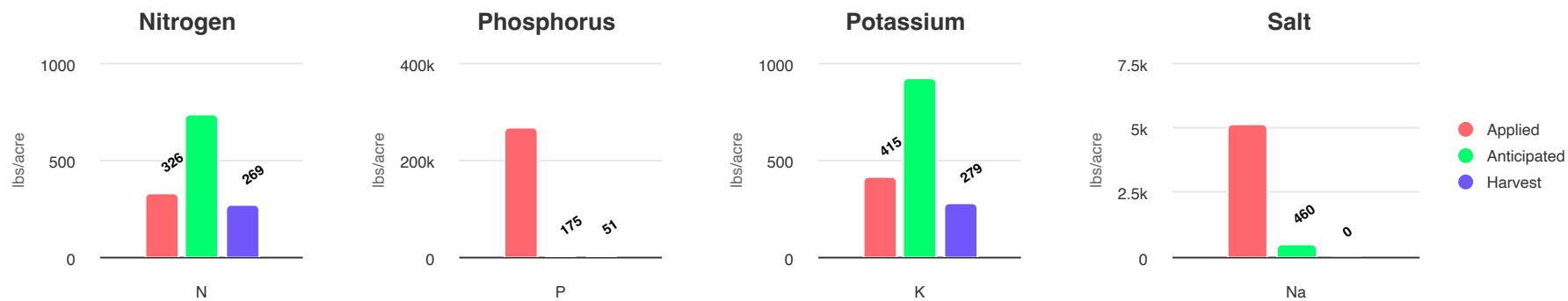
1 harvests

Field name: 48

Crop: Corn, Late Silage

Plant date: 05/10/2023

## 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	53.09	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	258.89	261,584.06	411.74	2,575.44
Fresh water	0.00	5,312.70	3.29	2,523.53
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	325.98	266,896.76	415.03	5,098.97
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	268.53	50.84	278.88	0.00
Nutrient balance	57.45	266,845.92	136.15	5,098.97
Applied to removed ratio	1.21	5,249.95	1.49	0.00

## Fresh water applied

30,558,347.07 gallons  
 1,125.36 acre-inches  
 23.45 inches/acre

## Process wastewater applied

2,978,282.08 gallons  
 109.68 acre-inches  
 2.29 inches/acre

## Total Harvests for the crop

1 harvests

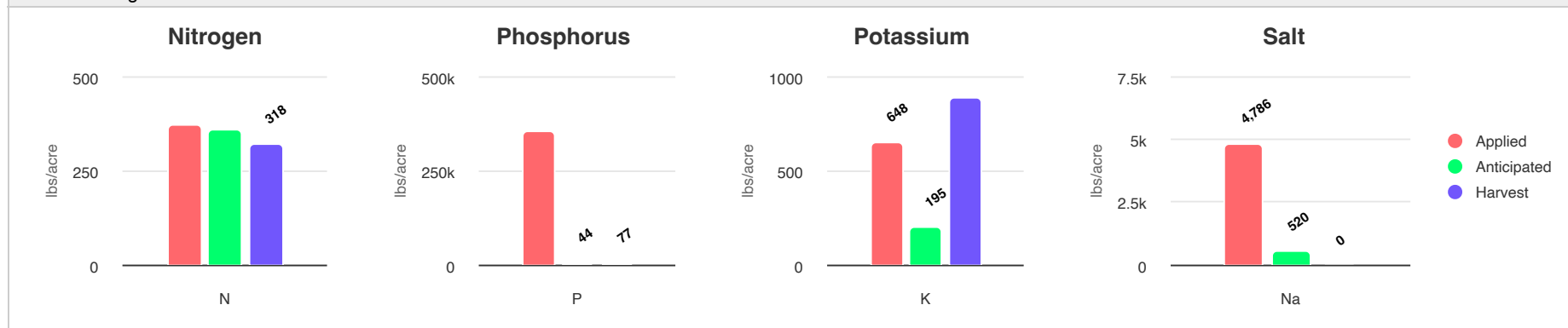


Field name: 48

Crop: Triticale

Plant date: 10/01/2022

## 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	17.70	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	352.73	351,304.15	646.04	3,208.77
Fresh water	0.00	3,319.73	2.07	1,576.87
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	370.43	354,623.88	648.11	4,785.64
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	318.42	76.63	885.46	0.00
Nutrient balance	52.01	354,547.25	-237.35	4,785.64
Applied to removed ratio	1.16	4,627.98	0.73	0.00

## Fresh water applied

19,094,893.76 gallons  
 703.20 acre-inches  
 14.65 inches/acre

## Process wastewater applied

4,778,285.34 gallons  
 175.97 acre-inches  
 3.67 inches/acre

## Total Harvests for the crop

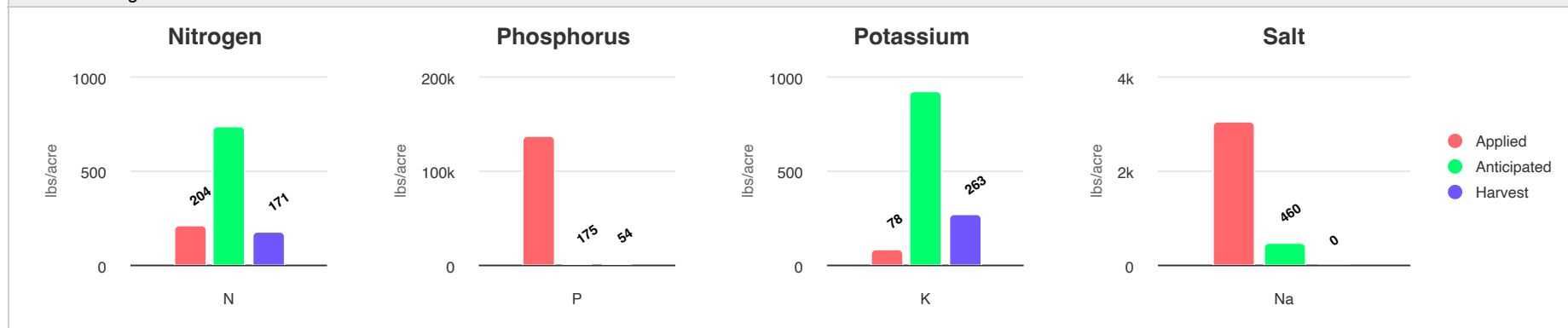
1 harvests

Field name: 51

Crop: Corn, Late Silage

Plant date: 05/10/2023

## 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	53.09	0.00	0.00	0.00
Dry manure	70.95	7.30	11.46	326.40
Process wastewater	66.27	127,177.49	49.32	459.57
Fresh water	0.16	9,844.73	16.74	2,256.04
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	204.47	137,029.52	77.52	3,042.01
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	171.42	53.98	262.59	0.00
Nutrient balance	33.05	136,975.54	-185.06	3,042.01
Applied to removed ratio	1.19	2,538.38	0.30	0.00

## Fresh water applied

176,957,689.44 gallons  
 6,516.75 acre-inches  
 43.44 inches/acre

## Process wastewater applied

2,044,717.60 gallons  
 75.30 acre-inches  
 0.50 inches/acre

## Total Harvests for the crop

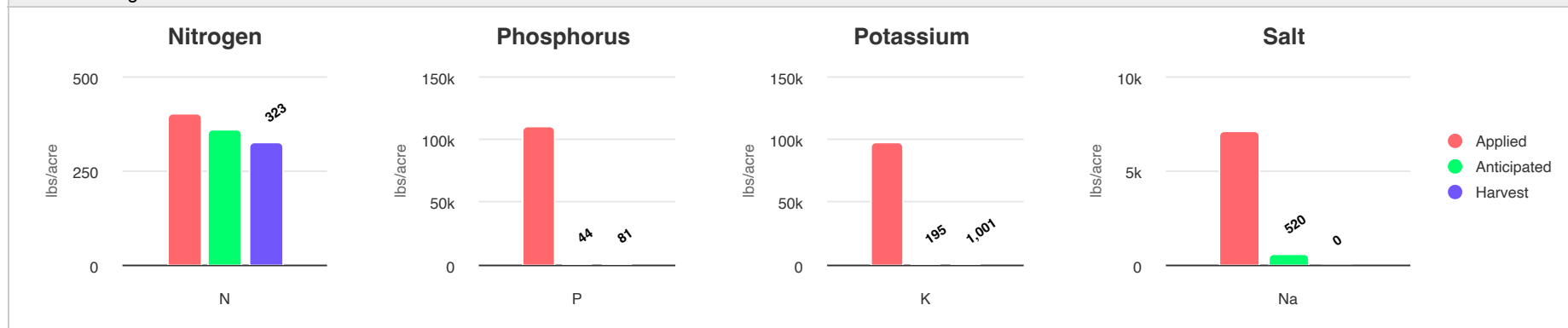
1 harvests

Field name: 51

Crop: Triticale

Plant date: 10/01/2022

## 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	35.40	0.00	0.00	0.00
Dry manure	240.40	97.12	664.47	4,447.40
Process wastewater	114.69	103,991.30	184.19	988.03
Fresh water	10.97	5,983.44	96,076.05	1,666.19
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>401.46</b>	<b>110,071.86</b>	<b>96,924.71</b>	<b>7,101.62</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	322.99	80.75	1,000.56	0.00
<b>Nutrient balance</b>	<b>78.47</b>	<b>109,991.12</b>	<b>95,924.15</b>	<b>7,101.62</b>
Applied to removed ratio	1.24	1,363.18	96.87	0.00

## Fresh water applied

129,326,358.02 *gallons*  
 4,762.65 *acre-inches*  
 31.75 *inches/acre*

## Process wastewater applied

4,370,482.32 *gallons*  
 160.95 *acre-inches*  
 1.07 *inches/acre*

## Total Harvests for the crop

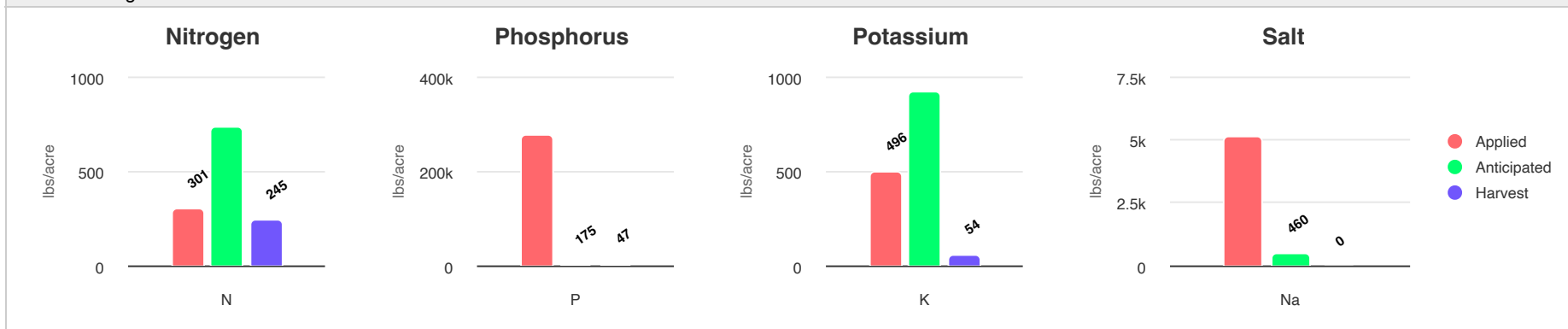
1 *harvests*

Field name: 52

Crop: Corn, Late Silage

Plant date: 05/15/2023

## 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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	286.64	266,333.20	477.57	2,928.74
Fresh water	0.19	10,171.50	18.13	2,185.76
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	300.83	276,504.70	495.70	5,114.50
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	244.59	46.55	54.43	0.00
Nutrient balance	56.24	276,458.15	441.27	5,114.50
Applied to removed ratio	1.23	5,939.37	9.11	0.00

## Fresh water applied

174,299,043.91 gallons  
 6,418.84 acre-inches  
 44.89 inches/acre

## Process wastewater applied

9,948,407.02 gallons  
 366.37 acre-inches  
 2.56 inches/acre

## Total Harvests for the crop

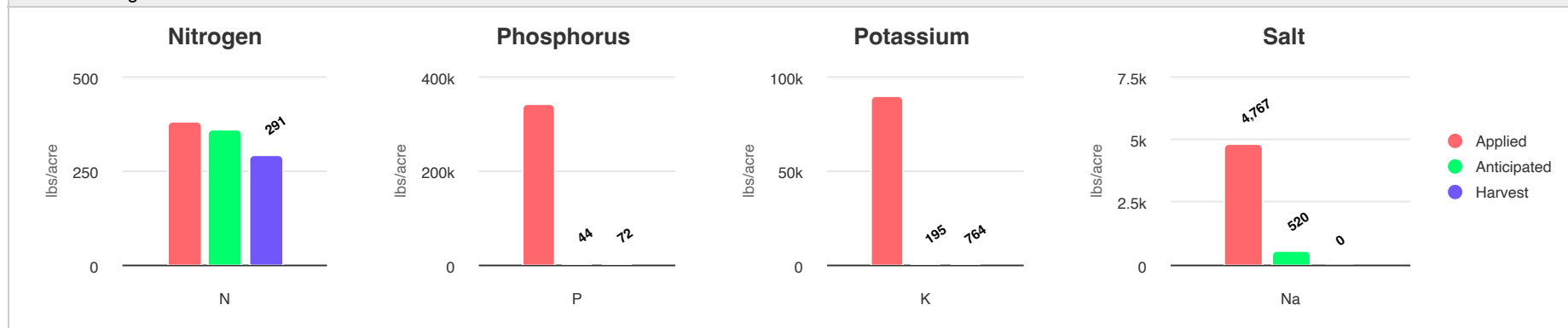
1 harvests

Field name: 52

Crop: Triticale

Plant date: 10/01/2022

## 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	17.70	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	337.76	336,187.95	618.10	3,071.50
Fresh water	22.64	4,410.14	88,977.55	1,695.69
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>378.10</b>	<b>340,598.09</b>	<b>89,595.65</b>	<b>4,767.19</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	291.32	71.64	764.12	0.00
<b>Nutrient balance</b>	<b>86.78</b>	<b>340,526.45</b>	<b>88,831.53</b>	<b>4,767.19</b>
Applied to removed ratio	1.30	4,754.54	117.25	0.00

## Fresh water applied

118,382,940.49 *gallons*  
 4,359.64 *acre-inches*  
 30.49 *inches/acre*

## Process wastewater applied

13,621,784.51 *gallons*  
 501.64 *acre-inches*  
 3.51 *inches/acre*

## Total Harvests for the crop

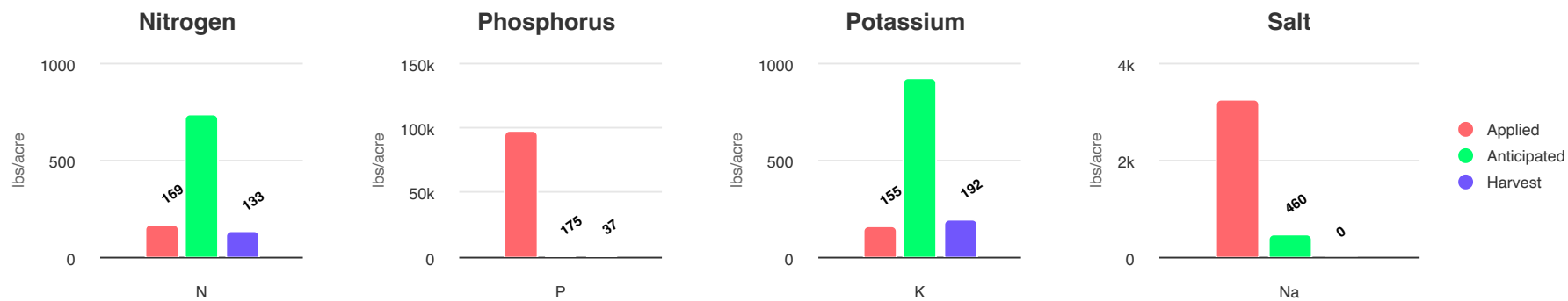
1 *harvests*

Field name: 53

Crop: Corn, Late Silage

Plant date: 05/10/2023

## 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	35.48	3.65	5.73	163.20
Process wastewater	84.21	87,468.57	131.72	829.86
Fresh water	0.18	10,174.91	17.74	2,254.68
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	169.27	97,647.13	155.19	3,247.74
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	132.84	36.70	192.00	0.00
Nutrient balance	36.43	97,610.43	-36.81	3,247.74
Applied to removed ratio	1.27	2,660.83	0.81	0.00

## Fresh water applied

113,393,198.54 *gallons*  
 4,175.89 *acre-inches*  
 44.90 *inches/acre*

## Process wastewater applied

1,868,757.92 *gallons*  
 68.82 *acre-inches*  
 0.74 *inches/acre*

## Total Harvests for the crop

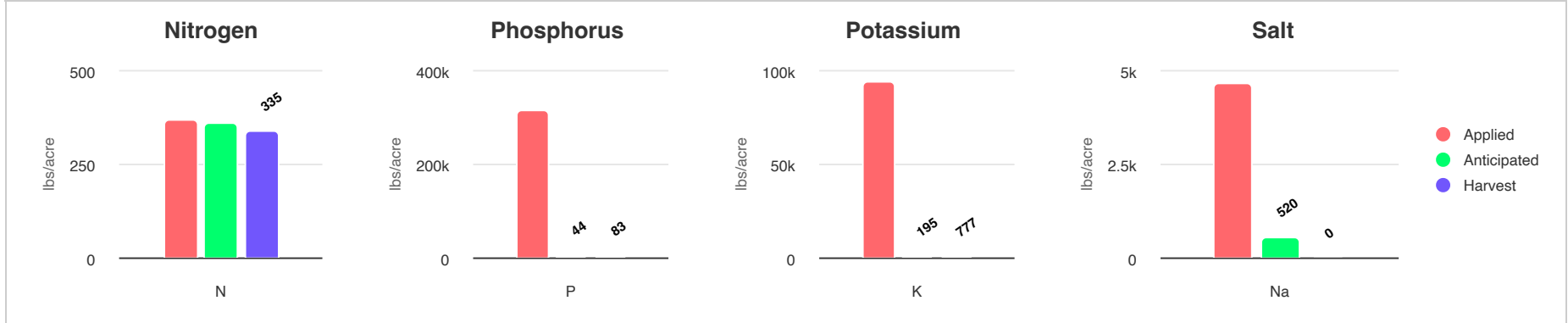
1 *harvests*

Field name: 53

Crop: Triticale

Plant date: 10/01/2022

## 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	0.00	0.00	0.00	0.00
Process wastewater	344.57	310,134.32	547.57	2,956.05
Fresh water	21.29	4,634.47	92,904.80	1,676.61
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>365.86</b>	<b>314,768.79</b>	<b>93,452.37</b>	<b>4,632.66</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	335.43	82.98	776.79	0.00
<b>Nutrient balance</b>	<b>30.43</b>	<b>314,685.81</b>	<b>92,675.58</b>	<b>4,632.66</b>
Applied to removed ratio	1.09	3,793.51	120.31	0.00

## Fresh water applied

77,836,293.41 gallons  
 2,866.45 acre-inches  
 30.82 inches/acre

## Process wastewater applied

8,073,539.27 gallons  
 297.32 acre-inches  
 3.20 inches/acre

## Total Harvests for the crop

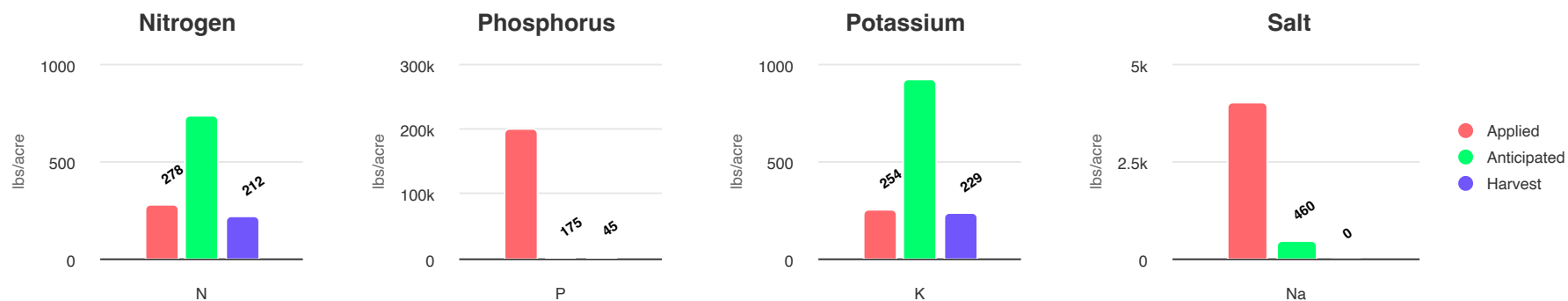
1 harvests

Field name: 54

Crop: Corn, Late Silage

Plant date: 05/10/2023

## 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	70.95	7.30	11.46	326.40
Process wastewater	157.76	188,018.91	224.25	1,474.49
Fresh water	0.20	10,322.65	18.44	2,212.15
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	278.31	198,348.86	254.15	4,013.04
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	212.06	45.06	229.36	0.00
Nutrient balance	66.25	198,303.81	24.79	4,013.04
Applied to removed ratio	1.31	4,402.23	1.11	0.00

## Fresh water applied

113,802,739.38 *gallons*  
 4,190.97 *acre-inches*  
 45.55 *inches/acre*

## Process wastewater applied

3,380,056.82 *gallons*  
 124.48 *acre-inches*  
 1.35 *inches/acre*

## Total Harvests for the crop

1 *harvests*

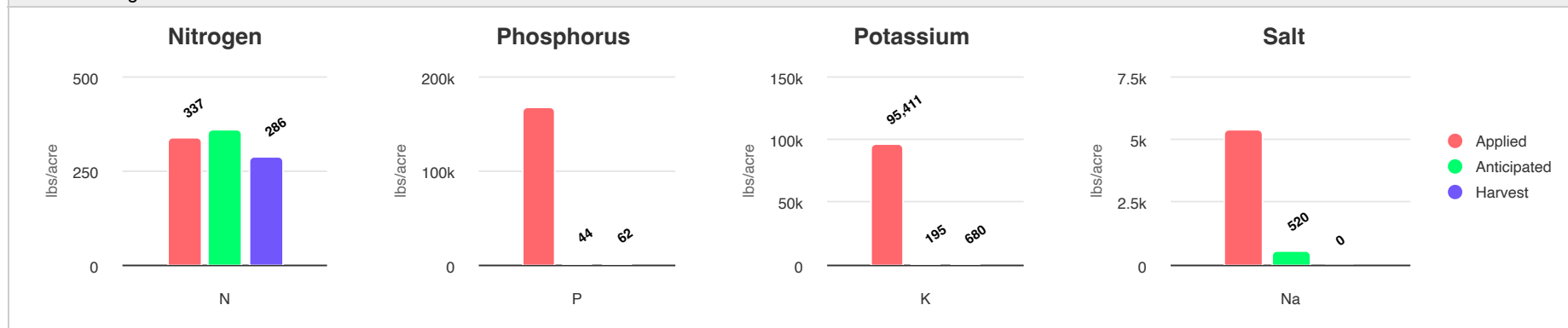


Field name: 54

Crop: Triticale

Plant date: 10/01/2022

## 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	35.40	0.00	0.00	0.00
Dry manure	120.20	48.56	332.23	2,223.70
Process wastewater	170.53	160,263.50	288.13	1,499.57
Fresh water	10.96	5,864.25	94,790.66	1,635.94
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>337.09</b>	<b>166,176.31</b>	<b>95,411.02</b>	<b>5,359.21</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	285.63	61.96	680.08	0.00
<b>Nutrient balance</b>	<b>51.46</b>	<b>166,114.35</b>	<b>94,730.95</b>	<b>5,359.21</b>
Applied to removed ratio	1.18	2,681.89	140.29	0.00

## Fresh water applied

77,991,126.73 gallons  
 2,872.15 acre-inches  
 31.22 inches/acre

## Process wastewater applied

4,149,500.72 gallons  
 152.81 acre-inches  
 1.66 inches/acre

## Total Harvests for the crop

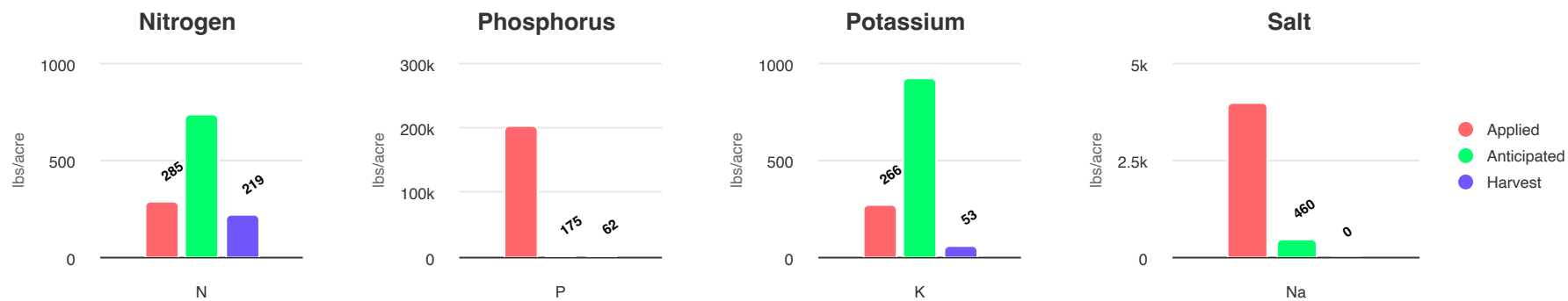
1 harvests

Field name: 55

Crop: Corn, Late Silage

Plant date: 05/10/2023

## 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	70.95	7.30	11.46	326.40
Process wastewater	164.96	192,788.89	238.04	1,554.43
Fresh water	0.18	10,063.64	16.60	2,087.66
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	285.49	202,859.83	266.10	3,968.49
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	218.78	61.91	53.02	0.00
Nutrient balance	66.71	202,797.92	213.09	3,968.49
Applied to removed ratio	1.30	3,276.51	5.02	0.00

## Fresh water applied

24,118,979.17 gallons  
 888.22 acre-inches  
 44.41 inches/acre

## Process wastewater applied

771,181.72 gallons  
 28.40 acre-inches  
 1.42 inches/acre

## Total Harvests for the crop

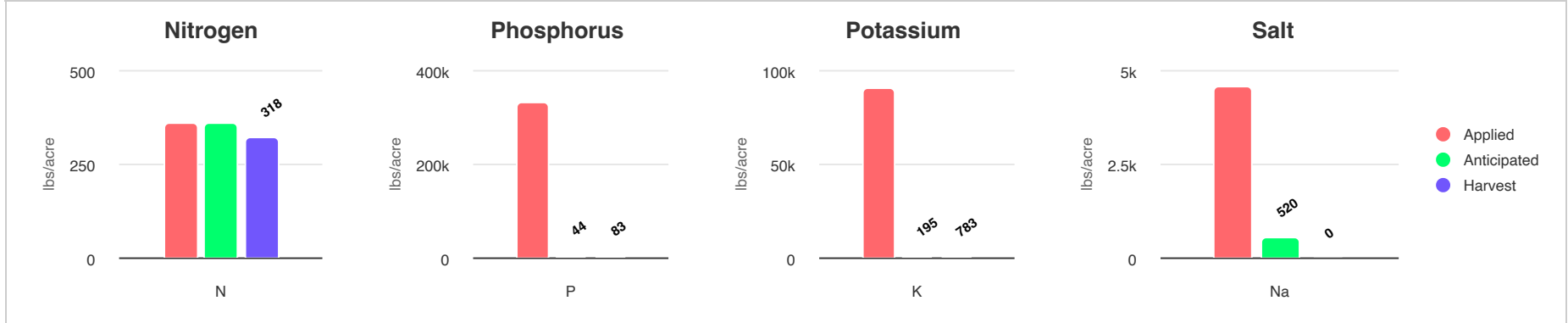
1 harvests

Field name: 55

Crop: Triticale

Plant date: 10/01/2022

## 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	0.00	0.00	0.00	0.00
Process wastewater	357.49	323,321.68	572.05	3,075.30
Fresh water	1.31	5,620.87	89,767.86	1,475.91
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	358.80	328,942.55	90,339.91	4,551.21
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	318.42	83.44	783.29	0.00
Nutrient balance	40.38	328,859.11	89,556.62	4,551.21
Applied to removed ratio	1.13	3,942.40	115.33	0.00

## Fresh water applied

16,315,924.17 gallons  
 600.86 acre-inches  
 30.04 inches/acre

## Process wastewater applied

1,811,190.81 gallons  
 66.70 acre-inches  
 3.33 inches/acre

## Total Harvests for the crop

1 harvests

## NUTRIENT ANALYSES

## A. MANURE ANALYSES

T3090005A

Sample and source description name: T3090005A

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

Moisture: 34.5%

	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>	11,260.00	4,190.00	21,840.00	11,300.00	6,550.00	2,320.00	2,300.00	778.00	21,840.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3090005B

Sample and source description name: T3090005B

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

Moisture: 78.2%

	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>	14,130.00	1,600.00	3,730.00	8,010.00	2,810.00	1,290.00	2,600.00	531.00	3,730.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167061B

Sample and source description name: T3167061B

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

Moisture: 79.6%

	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>	17,390.00	1,790.00	2,810.00	6,390.00	2,150.00	930.00	2,400.00	419.00	2,810.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167061A

Sample and source description name: T3167061A

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

Moisture: 18.5%

	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>	20,710.00	5,060.00	15,770.00	9,570.00	4,300,000.00	2,150.00	2,000.00	670.00	15,770.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

#### T3263078A

Sample and source description name: T3263078A

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

Moisture: 3.9%

	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>	18,100.00	5,510.00	47,210.00	12,140.00	4,850.00	3,560.00	3,800.00	897.00	47,210.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

#### T3263078B

Sample and source description name: T3263078B

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

Moisture: 80.9%

	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>	15,900.00	1,800.00	5,460.00	7,800.00	2,070.00	980.00	2,940.00	502.00	5,460.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

#### T3362036A

Sample and source description name: T3362036A

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

Moisture: 50.6%

	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>	13,620.00	5,090.00	26,310.00	13,300.00	5,640.00	2,300.00	1,920.00	891.00	26,310.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362036B

Sample and source description name: T3362036B

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

Moisture: 80.5%

	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>	12,370.00	1,470.00	4,650.00	6,830.00	2,160.00	1,020.00	2,010.00	448.00	4,650.00	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**

T3089017A

Sample and source description name: T3089017A

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>	386.40	0.00	260.40	0.12	41.90	794.00	185.54	76.42	213.67	0.00	0.00	148.39	299.32	5.22	3,700.00
<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

T3167009A

Sample and source description name: T3167009A

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>	481.60	0.00	310.80	0.17	37.00	874.97	112.88	97.61	235.96	0.00	0.00	339.54	350.57	6.42	5,180.00
<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

T3263050A

Sample and source description name: T3263050A

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)
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<b>Value</b>	582.40	0.00	361.20	0.14	111.80	433.57	141.40	77.05	155.28	0.00	0.00	181.70	249.82	5.88	4,040.00
<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

#### T3362092A

Sample and source description name: T3362092A  
Sample date: 12/22/2023 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>	498.40	0.00	156.80	0.06	68.80	343.13	115.08	56.23	122.77	0.00	0.00	279.67	217.14	3.95	3,040.00
<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

#### TW1-1

##### T3228024A

Sample and source description name: T3228024A  
Sample date: 08/14/2023 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>	0.00	0.00	0.00	9.98	0.13	60.76	0.00	0.00	50.45	12.96	0.36	475.00
<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

#### TW1-4

##### T3228024B

Sample and source description name: T3228024B  
Sample date: 08/14/2023 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>	0.00	0.00	0.00	64.66	9.01	96.24	0.00	0.00	230.40	24.33	0.83	410.00
<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

TW1-6

T3228024C

Sample and source description name: T3228024C

Sample date: 08/14/2023

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>	0.00	0.00	0.00	10.24	0.36	73.38	0.00	0.00	68.00	13.32	0.41	185.00
<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

Canal - Kern Delta

T3362072C-178-191

Sample and source description name: T3362072C-178-191

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>	0.00	0.00	0.04	16.51	6.29	23.76	0.00	0.00	23.77	27.71	0.28	80.00
<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

TW1-DW1

T3362066A

Sample and source description name: T3362066A

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>	2.80	0.00	0.00	11.61	0.43	83.66	0.00	0.00	74.46	15.74	0.42	160.00
<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

TW1-DW2



T3362066B

Sample and source description name: T3362066B

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>	0.06	0.00	0.06	10.51	0.35	82.04	0.00	0.00	70.96	14.31	0.41	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**

41

47784\_1

Sample description: 47784\_1

Sample date: 05/07/2019 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>	30.30	0.00	0.00	0.00	2.79	1.94	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

42

76718\_1

Sample description: 76718\_1

Sample date: 04/27/2021 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>	5.16	0.00	0.00	0.00	1.30	0.00	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

43

77255\_1

Sample  
description:

77255\_1

Sample date:

05/07/2021

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>	83.46	0.00	0.00	0.00	2.63	0.00	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

44

48564\_3

Sample  
description:

48564\_3

Sample date:

05/16/2019

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>	30.03	0.00	0.00	0.00	1.71	2.62	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

45

77255\_2

Sample  
description:

77255\_2

Sample date:

05/07/2021

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>	25.88	0.00	0.00	0.00	0.99	0.00	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

## E. PLANT TISSUE ANALYSES

## 45 - 04/15/2023: Corn, Late Silage

T3342005E

Sample description: T3342005E

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>	7,790.00	3,070.00	16,490.00	230.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

## 41 - 05/01/2023: Corn, Late Silage

T3342005A

Sample description: T3342005A

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>	12,360.00	3,360.00	18,320.00	90.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

## 42 - 05/01/2023: Corn, Late Silage

T3342005B

Sample description: T3342005B

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>	14,430.00	1,920.00	14,780.00	90.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

#### 43 - 05/01/2023: Corn, Late Silage

T3342005C

Sample description: T3342005C  
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>	11,490.00	2,480.00	15,010.00	190.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

#### 44 - 05/01/2023: Corn, Late Silage

T3342005D

Sample description: T3342005D  
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>	11,540.00	2,510.00	13,960.00	200.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

#### 47 - 05/01/2023: Corn, Late Silage

T3342005F

Sample description: T3342005F

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	12,290.00	2,820.00	15,240.00	210.00	0.00
DL	100.00	200.00	500.00		0.10

48 - 05/01/2023: Corn, Late Silage

T3342004A

Sample description: T3342004A

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	14,790.00	2,800.00	15,360.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

51 - 05/01/2023: Corn, Late Silage

T3342004B

Sample description: T3342004B

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	9,590.00	3,020.00	14,690.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

## 52 - 05/01/2023: Corn, Late Silage

T3342004C

Sample description: T3342004C

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>	13,660.00	2,600.00	3,040.00	180.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

## 53 - 05/01/2023: Corn, Late Silage

T3342004D

Sample description: T3342004D

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>	9,520.00	2,630.00	13,760.00	200.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

## 54 - 05/01/2023: Corn, Late Silage

T3342004E

Sample description: T3342004E

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>	12,990.00	2,760.00	14,050.00	200.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

55 - 05/01/2023: Corn, Late Silage

T3342004F

Sample description: T3342004F  
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>	12,050.00	3,410.00	2,920.00	180.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

41 - 10/01/2022: Triticale

T3139028A

Sample description: T3139028A  
Sample date: 05/16/2023 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>	20,400.00	5,700.00	50,000.00	0.01	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

42 - 10/01/2022: Triticale

T3139028B

Sample description: T3139028B

Sample date: 05/16/2023 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>	20,400.00	4,200.00	55,000.00	0.01	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

#### 43 - 10/01/2022: Triticale

T3139028C

Sample description: T3139028C

Sample date: 05/16/2023 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>	19,500.00	4,400.00	44,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

#### 44 - 10/01/2022: Triticale

T3139028D

Sample description: T3139028D

Sample date: 05/16/2023 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>	18,100.00	4,600.00	48,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10



## 47 - 10/01/2022: Triticale

T3139028E

Sample description: T3139028E

Sample date: 05/16/2023 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>	20,200.00	4,500.00	48,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

## 48 - 10/01/2022: Triticale

T3139028F

Sample description: T3139028F

Sample date: 05/16/2023 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>	18,700.00	4,500.00	52,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

## 51 - 10/01/2022: Triticale

T3139027A

Sample description: T3139027A

Sample date: 05/16/2023 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>	18,400.00	4,600.00	57,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

52 - 10/01/2022: Triticale

T3139027B

Sample description: T3139027B  
Sample date: 05/16/2023 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>	18,300.00	4,500.00	48,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

53 - 10/01/2022: Triticale

T3139027D

Sample description: T3139027D  
Sample date: 05/16/2023 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>	19,000.00	4,700.00	44,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

54 - 10/01/2022: Triticale

T3139027C

Sample description: T3139027C

Sample date: 05/16/2023 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>	18,900.00	4,100.00	45,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

55 - 10/01/2022: Triticale

T3139027E

Sample description: T3139027E

Sample date: 05/16/2023 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>	18,700.00	4,900.00	46,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

45 - 10/22/2022: Triticale

ATS-T3139028D

Sample description: ATS-T3139028D

Sample date: 05/16/2023 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>	18,100.00	4,600.00	48,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

## F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

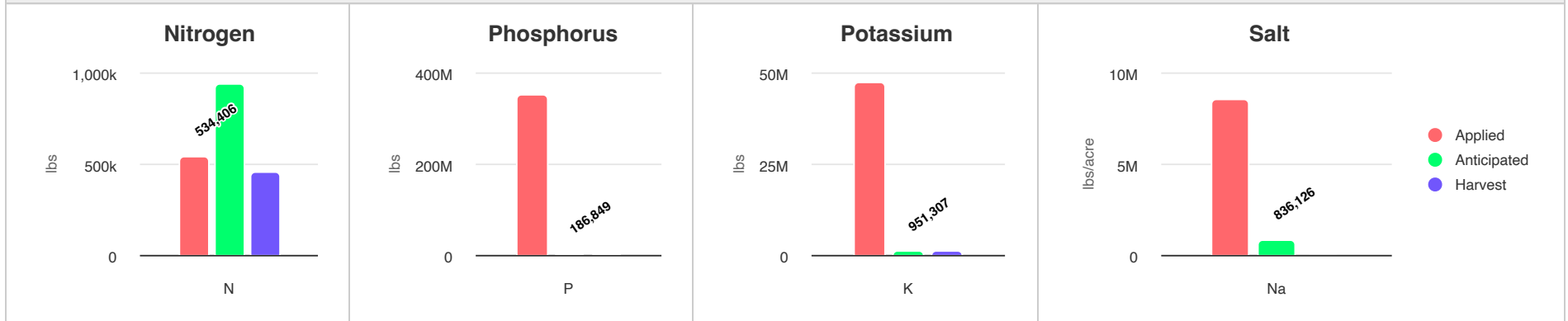
# NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

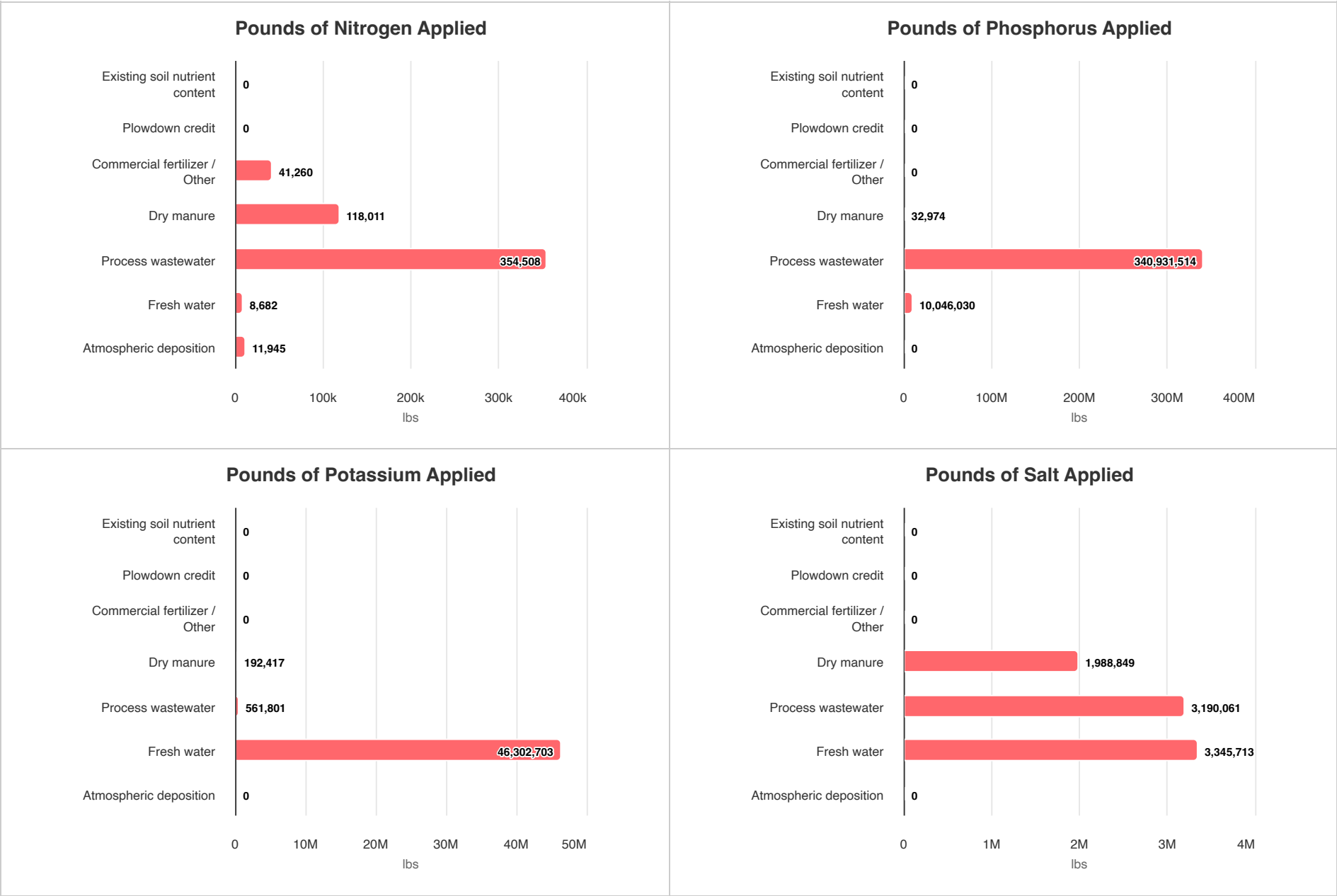
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	41,259.59	0.00	0.00	0.00
Dry manure	118,011.29	32,973.96	192,416.96	0.00
Process wastewater	354,507.59	340,931,514.30	561,801.07	3,075.30
Fresh water	8,682.49	10,046,029.64	46,302,703.25	1,475.91
Atmospheric deposition	11,944.66	0.00	0.00	0.00
Total nutrients applied	534,405.63	351,010,517.90	47,056,921.28	8,524,622.60
Anticipated crop nutrient removal	934,072.42	186,848.61	951,306.85	836,126.20
Actual crop nutrient removal	456,597.33	107,994.71	911,609.14	0.00
Nutrient balance	77,808.29	350,902,523.18	46,145,312.14	8,524,622.60
Applied to removed ratio	1.17	3,250.26	51.62	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

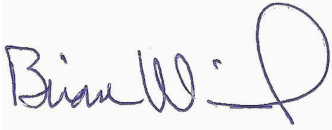
Well Specific Notes

2023 Non Op Wells: TW1-2, TW1-3

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.*



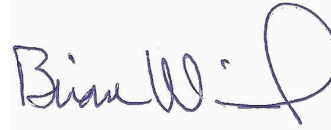
SIGNATURE OF OWNER OF FACILITY

**Brian Wind**

PRINT OR TYPE NAME

**6/29/2024**

DATE



SIGNATURE OF OPERATOR OF FACILITY

**Brian Wind**

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: Brian Wind  
Facility Name: T&W Farms 1  
Facility Address: 18346 Old River Rd  
Facility City/State: Bakersfield, CA 93311

## Contact:

Name: Brian Wind  
Number: (661) 477-2973

## Manure Hauler / Processor Information:

Name: Rico Trucking  
Facility Address: P.O. Box 515  
Facility City/State: Norco, CA 92860

## Contact:

Name: Fernando Rico  
Number: (951) 314-2209

Manure Destination Farmer

## Destination Information:

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

## Contact:

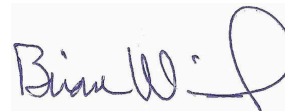
Name: Grimmway Farms  
Number: (661) 845-5289

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

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Jan 1, 2023 - Jan, 31 2023	6,223	ton	66 %
Feb 1, 2023 - Feb, 28 2023	8,815	ton	70 %
Apr 1, 2023 - Apr, 30 2023	6,251	ton	68 %
May 1, 2023 - May, 31 2023	7,004	ton	68 %
Jun 1, 2023 - Jun, 30 2023	5,133	ton	65 %
Jul 1, 2023 - Jul, 31 2023	7,912	ton	70 %
Aug 1, 2023 - Aug, 31 2023	11,326	ton	67 %
Sep 1, 2023 - Sep, 30 2023	8,451	ton	67 %
Nov 1, 2023 - Nov, 30 2023	5,195	ton	68 %
<b>Total</b>	66,310		



**Denele Analytical, Inc.**

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www.denelelabs.com

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

## Compliance Analysis Report

**Customer**

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/17/23

Boron (B)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-1	T3228024A	Boron (B)	EPA 200.7	0.156	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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## Compliance Analysis Report

### Customer

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

### Grower

### Consultant:

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

### PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/17/23

Irrigation /Ground Water (H14)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-1	T3228024A	Electrical Conductivity (EC)	EPA 120.1 and	0.357	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	94.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO <sub>4</sub> )	EPA 375.2	50.5	mg/L
		Sodium (Na)	EPA 200.7	60.8	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	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	475	mg/L
		Calcium (Ca)	EPA 200.7	9.98	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	13.0	mg/L
		Soluble Salts (SALT-SOL)	Calculation	228	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH <sub>3</sub> -N)	97.8	100 (T3228016A)	102 (T3228016A)			1.78
Calcium (Ca)	95.3	103 (T3228029B)	112 (T3228029B)			8.90
Chloride (Cl)	103	96.4 (T3228016A)	96.9 (T3228016A)			0.559
Magnesium (Mg)	95.1	94.5 (T3228029B)	105 (T3228029B)			10.5
Nitrate Nitrogen (NO <sub>3</sub> -N)	105	100 (T3228016A)	96.7 (T3228016A)			3.70
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO <sub>4</sub> )	103	114 (T3228016A)	107 (T3228016A)			5.66
Total Dissolved Solids (TDS)	109			410 (T3228024B)	435 (Dup)	5.92

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.

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## Compliance Analysis Report

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18000 Old River Road  
Bakersfield, CA 93311

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/18/23

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-1	T3228024A	pH (pH)	SM4500-H+ B-2000	8.0	S.U.

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

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Bakersfield, CA 93311

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/22/23

Total Nitrogen (TN)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-1	T3228024A	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

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

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**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/17/23

**Boron (B)**

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-4	T3228024B	Boron (B)	EPA 200.7	0.234	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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## Compliance Analysis Report

### Customer

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### Grower

### Consultant:

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

### PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/17/23

Irrigation /Ground Water (H14)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-4	T3228024B	Electrical Conductivity (EC)	EPA 120.1 and	0.834	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	142	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO <sub>4</sub> )	EPA 375.2	230	mg/L
		Sodium (Na)	EPA 200.7	96.2	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	9.01	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	410	mg/L
		Calcium (Ca)	EPA 200.7	64.7	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	24.3	mg/L
		Soluble Salts (SALT-SOL)	Calculation	534	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH <sub>3</sub> -N)	97.8	100 (T3228016A)	102 (T3228016A)			1.78
Calcium (Ca)	95.3	103 (T3228029B)	112 (T3228029B)			8.90
Chloride (Cl)	103	96.4 (T3228016A)	96.9 (T3228016A)			0.559
Magnesium (Mg)	95.1	94.5 (T3228029B)	105 (T3228029B)			10.5
Nitrate Nitrogen (NO <sub>3</sub> -N)	105	100 (T3228016A)	96.7 (T3228016A)			3.70
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO <sub>4</sub> )	103	114 (T3228016A)	107 (T3228016A)			5.66
Total Dissolved Solids (TDS)	109			410 (T3228024B)	435 (Dup)	5.92

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**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**

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/18/23

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-4	T3228024B	pH (pH)	SM4500-H+ B-2000	8.1	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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## Compliance Analysis Report

### Customer

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

### Grower

### Consultant:

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

### PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/22/23

Total Nitrogen (TN)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-4	T3228024B	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

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

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## Compliance Analysis Report

**Customer**

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Bakersfield, CA 93311

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/17/23

**Boron (B)**

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-6	T3228024C	Boron (B)	EPA 200.7	0.217	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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## Compliance Analysis Report

### Customer

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

### Grower

### Consultant:

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

### PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM

SUBMITTED BY: Courier

ANALYZED DATE: 8/17/23

Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-6	T3228024C	Electrical Conductivity (EC)	EPA 120.1 and	0.412	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	94.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO <sub>4</sub> )	EPA 375.2	68.0	mg/L
		Sodium (Na)	EPA 200.7	73.4	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	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	185	mg/L
		Calcium (Ca)	EPA 200.7	10.2	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	13.3	mg/L
		Soluble Salts (SALT-SOL)	Calculation	263	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH <sub>3</sub> -N)	97.6	101 (T3228024C)	98.8 (T3228024C)			1.80
Calcium (Ca)	95.3	103 (T3228029B)	112 (T3228029B)			8.90
Chloride (Cl)	103	99.6 (T3228024C)	98.1 (T3228024C)			1.56
Magnesium (Mg)	95.1	94.5 (T3228029B)	105 (T3228029B)			10.5
Nitrate Nitrogen (NO <sub>3</sub> -N)	103	97.1 (T3228024C)	94.4 (T3228024C)			2.88
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO <sub>4</sub> )	102	114 (T3228024C)	105 (T3228024C)			7.89
Total Dissolved Solids (TDS)	99.5			115 (T3230006A)	120 (Dup)	4.26

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## Compliance Analysis Report

**Customer**

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/16/23

**Icon Sampling Fee (ISF)**

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-6	T3228024C	Icon Sampling Fee (ISF)	1664B	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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## Compliance Analysis Report

**Customer**

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/18/23

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-6	T3228024C	pH (pH)	SM4500-H+ B-2000	8.1	S.U.

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

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## Compliance Analysis Report

**Customer**

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18000 Old River Road  
Bakersfield, CA 93311

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/22/23

Total Nitrogen (TN)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-6	T3228024C	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

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

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# 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

8-14-2023

Sampled By

TONY

Lab Name

Denele

## T&W Farms 1

Ranch: T&W 1

\*\*\*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:

Analysis Weather Temp (°F) # of Bags/Bottles

W2 SH 88 1

CHAIN

T&W Farms 1



23-O1

TW1-1 W  
Ranch: T&W 1  
Date: 8-14-2023 10:30 am  
IW 35.208713, -119.101474

2. Location:

Analysis Weather Temp (°F) # of Bags/Bottles

W2 SH 88 1

CHAIN

T&W Farms 1



23-O1

TW1-4 W  
Ranch: T&W 1  
Date: 8-14-2023 10:40 am  
IW 35.179463, -119.091194

3. Location:

Analysis Weather Temp (°F) # of Bags/Bottles

W2 SH 88 1

CHAIN

T&W Farms 1



23-O1

TW1-6 W  
Ranch: T&W 1  
Date: 8-14-2023 10:50 am  
IW 35.179510, -119.101075

4. Location:

Analysis Weather Temp (°F) # of Bags/Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

5. Location:

Analysis Weather Temp (°F) # of Bags/Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

6. Location:

Analysis Weather Temp (°F) # of Bags/Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

### Chain of Custody Recording Log

	Signature	Company	Received Date/Time	Relinquished Date/Time	Laboratory Use Only	
1st	Antonio Mera	Icon Ag		8-15-2023 7:00 am	Logged in By:	Laboratory #
2nd						
3rd	Denele		8-16-23 10:00			
4th						

T3228024

**Denele Analytical, Inc.**

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Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

**Customer**

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

**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
TW1-DW1	T3362066A	Boron (B)	EPA 200.7	0.220	ppm

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

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## Compliance Analysis Report

### Customer

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

### 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
TW1-DW1	T3362066A	Electrical Conductivity (EC)	EPA 120.1 and	0.422	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	108	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO <sub>4</sub> )	EPA 375.2	74.5	mg/L
		Sodium (Na)	EPA 200.7	83.7	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	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	160	mg/L
		Calcium (Ca)	EPA 200.7	11.6	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	15.7	mg/L
		Soluble Salts (SALT-SOL)	Calculation	270	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

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## Compliance Analysis Report

**Customer**

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

**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: 1/10/24

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-DW1	T3362066A	pH (pH)	SM4500-H+ B-2000	7.8	S.U.

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

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## Compliance Analysis Report

### Customer

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

### 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
TW1-DW1	T3362066A	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.80	%

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

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### Compliance Analysis Report

**Customer**

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

**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
TW1-DW2	T3362066B	Boron (B)	EPA 200.7	0.230	ppm

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

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### Compliance Analysis Report

**Customer**

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Bakersfield, CA 93311

**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
TW1-DW2	T3362066B	Electrical Conductivity (EC)	EPA 120.1 and	0.411	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	104	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO <sub>4</sub> )	EPA 375.2	71.0	mg/L
		Sodium (Na)	EPA 200.7	82.0	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	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	140	mg/L
		Calcium (Ca)	EPA 200.7	10.5	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	14.3	mg/L
		Soluble Salts (SALT-SOL)	Calculation	263	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**

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

**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
TW1-DW2	T3362066B	Icon Sampling Fee (ISF)	N/A	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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## Compliance Analysis Report

**Customer**

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

**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: 1/10/24

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
TW1-DW2	T3362066B	pH (pH)	SM4500-H+ B-2000	7.9	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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## Compliance Analysis Report

**Customer**

T & W #1  
18000 Old River Road  
Bakersfield, CA 93311

**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
TW1-DW2	T3362066B	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

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

Denile

## T&W Farms 1

Ranch: T&W 1

\*\*\*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:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	CC	60	1

CHAIN



23-O1

**T&W Farms 1**

TW1-DW1

W

Ranch: T&W 1

Date: 12-27-23

12:20 pm

IW

35.179908, -119.104293

2. Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	CC	60	1

CHAIN



23-O1

**T&W Farms 1**

TW1-DW2

W

Ranch: T&W 1

Date: 12-27-23

12:30 pm

IW

35.188676, -119.108284

3. Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place **CHAIN** Label Here

Place additional labels on sample bags/bottles

4. Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place **CHAIN** Label Here

Place additional labels on sample bags/bottles

5. Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place **CHAIN** Label Here

Place additional labels on sample bags/bottles

6. Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place **CHAIN** Label Here

Place additional labels on sample 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	Denile	Icon Ag	12/28 5:00	12/28 10:15	
3rd	Albert Mott			12-28-23 10:15	
4th	Denile		12-28-23 12:00		T3362066