

# DAIRY FACILITY INFORMATION

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

Westwind Farms

Physical address of dairy:

6221 Bear Mountain Blvd.

Number and Street

Bakersfield

City

Kern

County

93313

Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation:

01-01-2000

Regional Water Quality Control Board Basin Plan designation:

Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0184-0460-0008-0000

## B. OPERATORS

Adam Westenbroek

Operator Name:

Adam Westenbroek

Telephone no.:

(661) 477-2973

Landline

Cellular

6221 Bear Mountain Blvd.

Mailing Address Number and Street

Bakersfield

City

Kern

County

93313

Zip Code

## C. OWNERS

Adam Westenbroek

Owner Name:

Adam Westenbroek

Telephone no.:

(661) 477-2973

Landline

Cellular

6221 Bear Mountain Blvd.

Mailing Address Number and Street

Bakersfield

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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	1,098	180	74	0	0	0
Number under roof	0	0	0	0	0	0
Maxiumu number	1,100	185	90	0	0	0
Average number	1,098	180	74	0	0	0
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: 31,568.81 tons per reporting period

Total nitrogen from manure: 408,119.95 lbs per reporting period

After ammonia losses (30% loss applied): 285,683.96 lbs per reporting period

Total phosphorus from manure: 67,866.70 lbs per reporting period

Total potassium from manure: 210,277.13 lbs per reporting period

Total salt from manure: 558,384.30 lbs per reporting period

### C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 9,347,600.58 gallons

Total nitrogen generated: 9,399.40 lbs

Total phosphorus generated: 21,104,814.05 lbs

Total potassium generated: 9,223.20 lbs

Total salt generated: 78,181.56 lbs

<p>9,347,600.58 gallons applied</p> <p>+ 0 gallons exported</p> <p>- 0 gallons imported</p> <hr/> <p>= 9,347,600.58 gallons generated</p>
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### D. FRESH WATER SOURCES

Source Description	Type
Canal - Farmers	Surface Water
WW-1	Ground Water
WW-2	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 (%)
01/11/2023	Separator solids	7,964 tons	as-is	65.2	20,800.00	8,960.00	32,120.00	45.00
08/15/2023	Separator solids	4,882 tons	as-is	68.1	22,870.00	6,220.00	7,310.00	32.00
09/13/2023	Separator solids	6,048 tons	as-is	65.3	22,870.00	6,220.00	7,310.00	32.00
10/28/2023	Separator solids	5,959 tons	as-is	65	21,600.00	6,840.00	27,790.00	50.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	1,088,669.40	360,203.20	1,002,605.18	20,121,800.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	1,088,669.40	360,203.20	1,002,605.18	20,121,800.00

## APPLICATION AREA

## A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
281	31.28	31.28	2	BOTH	0184-0460-0008-0000
282	39.72	37.00	2	BOTH	0184-0460-0008-0000
283	37.73	36.00	2	BOTH	0184-0460-0008-0000
284	38.71	37.00	2	BOTH	0184-0460-0008-0000
285	14.92	14.47	2	BOTH	0184-0460-0008-0000
286	79.41	75.00	2	BOTH	0184-0460-0008-0000
Totals for areas that were used for application	241.77	230.75	12.00		
Totals for areas that were not used for application	11.02	11.02			
Land application area totals	241.77	241.77	12.00		

**B. CROPS AND HARVESTS**

281

Field Name: 281

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 31.28 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	633.11 ton	As-is		0.00	6,624.00	1,440.00	14,760.00	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	20.24	268.14	58.29	597.48	0.00

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

Crop: Corn, Late Silage Acres planted: 31.28 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 (%)
10/24/2023	582.43 ton	As-is		0.00	6,414.40	1,284.40	7,406.20	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	18.62	238.87	47.83	275.81	0.00

Field Name: 282

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 37 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 (%)
05/16/2023	819.55 ton	As-is		0.00	7,128.00	864.00	11,160.00	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	22.15	315.77	38.28	494.39	0.00

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

Crop: Corn, Late Silage Acres planted: 37 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 (%)
10/07/2023	808.45 ton	As-is		0.00	4,719.60	1,041.20	7,174.40	26.60	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	21.85	206.25	45.50	313.52	0.00

Field Name: 283

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 36 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 (%)
05/09/2023	879.48 ton	As-is		0.00	6,372.00	1,800.00	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	24.43	311.34	87.95	914.66	0.00

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

Crop: Corn, Late Silage Acres planted: 36 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 (%)
09/16/2023	768.96 ton	As-is		0.00	5,149.00	1,227.40	6,433.40	26.60	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	21.36	219.97	52.43	274.83	0.00

Field Name: 284

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 37 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	825.10 ton	As-is		0.00	6,588.00	2,052.00	13,680.00	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	22.30	293.82	91.52	610.13	0.00

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

Crop: Corn, Late Silage Acres planted: 37 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 (%)
10/07/2023	808.45 ton	As-is		0.00	5,152.80	1,394.60	7,258.00	26.60	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	21.85	225.18	60.94	317.17	0.00



Field Name: 285

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 14.47 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	244.69 ton	As-is		0.00	6,876.00	1,656.00	17,280.00	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	16.91	232.55	56.01	584.41	0.00

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

Crop: Corn, Late Silage Acres planted: 14.47 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	324.42 ton	As-is		0.00	5,684.80	1,018.40	6,224.40	22.80	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	22.42	254.91	45.67	279.10	0.00

Field Name: 286

**10/01/2022: Triticale**

Crop: Triticale Acres planted: 75 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	1,638.00 ton	As-is		0.00	6,444.00	1,404.00	14,400.00	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	21.84	281.47	61.33	628.99	0.00

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

Crop: Corn, Late Silage Acres planted: 75 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 (%)
09/14/2023	1,843.50 ton	As-is		0.00	5,426.40	1,276.80	7,451.80	30.40	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	24.58	266.76	62.77	366.33	0.00

## NUTRIENT BUDGET

## A. LAND APPLICATIONS

281

Field name: 281 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	437.92 <i>Lbs</i>
Corral Solids	Corral Solids	254.13	69.12	81.23	3,555.84	187.68 <i>ton</i>
Application event totals		268.13	69.12	81.23	3,555.84	

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
Well Water	Ground water	0.00	0.00	1.41	348.45	4,503,869.45 <i>gal</i>
Application event totals		0.00	0.00	1.41	348.45	

05/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,133.01	29,684.93	113.30	4,246,930.36 <i>gal</i>
Application event totals		0.00	1,133.01	29,684.93	113.30	

06/11/2023	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	0.00	1.59	394.29	5,096,316.43 <i>gal</i>
Lagoon Water Effluent	Process wastewater	18.63	42,962.93	19.62	160.72	579,281.29 <i>gal</i>
Application event totals		18.63	42,962.93	21.21	555.01	

06/29/2023	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
Canal Water	Ground water	0.00	1,359.62	35,621.92	135.96	5,096,316.43 <i>gal</i>
Application event totals		0.00	1,359.62	35,621.92	135.96	

07/17/2023	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
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Well Water	Ground water	0.00	0.00	1.52	375.89	4,858,488.15 <i>gal</i>
Application event totals		0.00	0.00	1.52	375.89	

08/04/2023	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	0.00	1.55	383.12	4,951,920.74 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	156.40 <i>Gal.</i>
Application event totals		17.70	0.00	1.55	383.12	

08/21/2023	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	0.00	1,296.17	33,959.56	129.62	4,858,488.15 <i>gal</i>
Application event totals		0.00	1,296.17	33,959.56	129.62	

#### 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	236.59	83.78	251.86	2,374.40	156.40 <i>ton</i>
Application event totals		236.59	83.78	251.86	2,374.40	

11/08/2022	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	0.99	0.00	23,554.99	142.49	3,338,087.32 <i>gal</i>
Application event totals		0.99	0.00	23,554.99	142.49	

12/06/2022	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	0.28	0.00	1.78	498.03	4,945,125.74 <i>gal</i>
Application event totals		0.28	0.00	1.78	498.03	

01/05/2023	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
Well Water	Ground water	0.00	0.00	1.17	289.01	3,735,599.74 <i>gal</i>
Application event totals		0.00	0.00	1.17	289.01	

01/20/2023      Surface (Irrigation)      No precipitation      No precipitation      No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	1.24	0.00	29,488.69	178.38	4,178,979.54 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	312.80 <i>Gal.</i>
Application event totals		36.63	0.00	29,488.69	178.38	

02/17/2023      Surface (Irrigation)      No precipitation      No precipitation      No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.15	283.56	3,665,100.95 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	312.80 <i>Gal.</i>
Application event totals		35.39	0.00	1.15	283.56	

03/19/2023      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
Lagoon Water Effluent	Process wastewater	14.49	28,194.34	10.81	78.14	395,813.90 <i>gal</i>
Well Water	Ground water	0.00	0.00	1.56	387.06	5,002,883.85 <i>gal</i>
Application event totals		14.49	28,194.34	12.37	465.20	

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
Canal Water	Ground water	1.20	0.00	28,619.62	173.12	4,055,818.58 <i>gal</i>
Application event totals		1.20	0.00	28,619.62	173.12	

Field name: 282

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	211.78	57.60	67.69	2,963.20	185.00 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	518.00 <i>Lbs</i>
Application event totals		225.78	57.60	67.69	2,963.20	
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	0.00	1,033.08	27,066.72	103.31	4,580,466.37 <i>gal</i>
Application event totals		0.00	1,033.08	27,066.72	103.31	
05/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.28	315.63	4,825,615.22 <i>gal</i>
Application event totals		0.00	0.00	1.28	315.63	
06/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,507.13	39,486.89	150.71	6,682,316.70 <i>gal</i>
Lagoon Water Effluent	Process wastewater	33.32	76,854.51	35.09	287.51	1,225,744.48 <i>gal</i>
Application event totals		33.32	78,361.64	39,521.98	438.22	
06/29/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.41	348.42	5,326,964.87 <i>gal</i>
Application event totals		0.00	0.00	1.41	348.42	
07/17/2023	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
Well Water	Ground water	0.00	0.00	1.59	394.55	6,032,270.43 <i>gal</i>
Application event totals		0.00	0.00	1.59	394.55	

08/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,338.31	35,063.84	133.83	5,933,808.94 <i>gal</i>
Application event totals		0.00	1,338.31	35,063.84	133.83	
08/21/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.76	435.62	6,660,213.28 <i>gal</i>
Application event totals		0.00	0.00	1.76	435.62	

#### 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	236.59	83.78	251.86	2,374.40	185.00 <i>ton</i>
Application event totals		236.59	83.78	251.86	2,374.40	
11/02/2022	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	1.21	0.00	28,769.46	174.03	4,822,601.31 <i>gal</i>
Application event totals		1.21	0.00	28,769.46	174.03	
11/30/2022	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	370.00 <i>Gal.</i>
Well Water	Ground water	0.23	0.00	1.46	410.60	4,822,601.31 <i>gal</i>
Application event totals		35.62	0.00	1.46	410.60	
12/30/2022	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	0.28	0.00	1.76	492.72	5,787,121.58 <i>gal</i>
Application event totals		0.28	0.00	1.76	492.72	
01/14/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	370.00 <i>Gal.</i>
Canal Water	Ground water	1.08	0.00	25,772.64	155.90	4,320,247.03 <i>gal</i>
Application event totals		36.47	0.00	25,772.64	155.90	

02/11/2023	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	370.00 <i>Gal.</i>
Well Water	Ground water	0.00	0.00	1.31	323.32	4,943,166.23 <i>gal</i>
Application event totals		35.39	0.00	1.31	323.32	

03/13/2023	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	0.00	1.53	378.52	5,787,121.58 <i>gal</i>
Lagoon Water Effluent	Process wastewater	3.58	6,957.83	2.67	19.28	115,541.49 <i>gal</i>
Application event totals		3.58	6,957.83	4.20	397.80	

04/09/2023	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	1.39	0.00	33,084.87	200.14	5,545,991.27 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	185.00 <i>Gal.</i>
Application event totals		19.09	0.00	33,084.87	200.14	



Field name: 283

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	504.00 <i>Lbs</i>
Corral Solids	Corral Solids	211.78	57.60	67.69	2,963.20	180.00 <i>ton</i>
Application event totals		225.78	57.60	67.69	2,963.20	
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
Well Water	Ground water	0.00	0.00	1.41	348.45	5,183,481.35 <i>gal</i>
Application event totals		0.00	0.00	1.41	348.45	
05/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.33	328.57	4,887,771.41 <i>gal</i>
Application event totals		0.00	0.00	1.33	328.57	
06/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	24.28	56,003.00	25.57	209.51	869,045.75 <i>gal</i>
Canal Water	Ground water	0.00	1,346.02	35,265.70	134.60	5,806,672.49 <i>gal</i>
Application event totals		24.28	57,349.02	35,291.27	344.11	
06/29/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.58	390.35	5,806,672.49 <i>gal</i>
Application event totals		0.00	0.00	1.58	390.35	
07/17/2023	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
Well Water	Ground water	0.00	0.00	1.55	383.12	5,699,141.39 <i>gal</i>
Application event totals		0.00	0.00	1.55	383.12	

08/04/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description		Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal Water		Ground water		0.00	1,308.63	34,286.09	130.86	5,645,376.07 <i>gal</i>	
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer		35.39	0.00	0.00	0.00	360.00 <i>Gal.</i>	
Application event totals				35.39	1,308.63	34,286.09	130.86		
08/21/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Canal Water		Ground water	0.00	1,308.63	34,286.09	130.86	5,645,376.07 <i>gal</i>		
Application event totals			0.00	1,308.63	34,286.09	130.86			

#### 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	236.59	83.78	251.86	2,374.40	180.00 <i>ton</i>
Application event totals		236.59	83.78	251.86	2,374.40	
11/10/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.24	0.00	1.49	419.16	4,790,016.07 <i>gal</i>
Application event totals		0.24	0.00	1.49	419.16	
12/08/2022	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	35.39	0.00	0.00	0.00	360.00 <i>Gal.</i>
Canal Water	Ground water	1.24	0.00	29,368.82	177.66	4,790,016.07 <i>gal</i>
Application event totals		36.63	0.00	29,368.82	177.66	
01/07/2023	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
Well Water	Ground water	0.00	0.00	1.48	366.69	5,454,752.82 <i>gal</i>

Application event totals		0.00	0.00	1.48	366.69	
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01/22/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	360.00 <i>Gal.</i>
Well Water	Ground water	0.00	0.00	1.14	282.57	4,203,483.60 <i>gal</i>
Application event totals		35.39	0.00	1.14	282.57	

02/19/2023	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	1.36	0.00	32,365.64	195.78	5,278,793.21 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	360.00 <i>Gal.</i>
Application event totals		36.75	0.00	32,365.64	195.78	

03/21/2023	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	1.32	0.00	31,286.78	189.26	5,102,833.14 <i>gal</i>
Lagoon Water Effluent	Process wastewater	3.58	6,957.83	2.67	19.28	112,418.74 <i>gal</i>
Application event totals		4.90	6,957.83	31,289.45	208.54	

04/17/2023	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	0.00	1.37	339.09	5,044,179.94 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	180.00 <i>Gal.</i>
Application event totals		17.70	0.00	1.37	339.09	

Field name: 284

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	518.00 <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
Well Water	Ground water	0.00	0.00	1.49	368.66	5,636,415.20 <i>gal</i>
Application event totals		0.00	0.00	1.49	368.66	

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
Well Water	Ground water	0.00	0.00	1.31	325.29	4,973,307.22 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	370.00 <i>Gal.</i>
Application event totals		35.39	0.00	1.31	325.29	

06/08/2023	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	0.00	1.59	394.29	6,028,251.40 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	370.00 <i>Gal.</i>
Application event totals		35.39	0.00	1.59	394.29	

06/23/2023	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
Canal Water	Ground water	0.00	1,350.32	35,378.50	135.03	5,987,058.46 <i>gal</i>
Application event totals		0.00	1,350.32	35,378.50	135.03	

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	0.00	1.52	375.89	5,746,932.79 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	70.78	0.00	0.00	0.00	740.00 <i>Gal.</i>
Application event totals		70.78	0.00	1.52	375.89	

07/21/2023	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	51.62	119,061.50	54.37	445.41	1,898,899.18 <i>gal</i>
Canal Water	Ground water	0.00	1,167.00	30,575.48	116.70	5,174,249.22 <i>gal</i>
Application event totals		51.62	120,228.50	30,629.85	562.11	

08/03/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	70.78	0.00	0.00	0.00	740.00 <i>Gal.</i>
Canal Water	Ground water	0.00	1,283.70	33,633.03	128.37	5,691,673.99 <i>gal</i>
Application event totals		70.78	1,283.70	33,633.03	128.37	

08/16/2023	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
Canal Water	Ground water	0.00	1,321.09	34,612.63	132.11	5,857,450.87 <i>gal</i>
Application event totals		0.00	1,321.09	34,612.63	132.11	

#### 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	236.59	83.78	251.86	2,374.40	185.00 <i>ton</i>
Application event totals		236.59	83.78	251.86	2,374.40	

11/11/2022	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	0.24	0.00	1.53	427.71	5,023,542.84 <i>gal</i>

Application event totals		0.24	0.00	1.53	427.71	
12/09/2022		Surface (Irrigation)	No precipitation		No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.24	0.00	1.51	423.44	4,973,307.22 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	370.00 <i>Gal.</i>
Application event totals		35.63	0.00	1.51	423.44	
01/08/2023		Surface (Irrigation)	No precipitation		No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	1.39	0.00	33,084.87	200.14	5,545,991.27 <i>gal</i>
Application event totals		1.39	0.00	33,084.87	200.14	
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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	370.00 <i>Gal.</i>
Canal Water	Ground water	1.02	0.00	24,274.23	146.84	4,069,069.89 <i>gal</i>
Application event totals		36.41	0.00	24,274.23	146.84	
02/20/2023		Surface (Irrigation)	No precipitation		No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.34	331.20	5,063,731.14 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	370.00 <i>Gal.</i>
Application event totals		35.39	0.00	1.34	331.20	
03/22/2023		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	0.00	1.51	374.57	5,726,838.64 <i>gal</i>
Lagoon Water Effluent	Process wastewater	3.58	6,957.83	2.67	19.28	115,541.49 <i>gal</i>
Application event totals		3.58	6,957.83	4.18	393.85	
04/18/2023		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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	185.00 <i>Gal.</i>
Canal Water	Ground water	1.35	0.00	32,006.02	193.61	5,365,143.90 <i>gal</i>
Application event totals		19.05	0.00	32,006.02	193.61	

Field name: 285

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	211.78	57.60	67.69	2,963.20	72.35 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	202.58 <i>Lbs</i>
Application event totals		225.78	57.60	67.69	2,963.20	
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
Well Water	Ground water	0.00	0.00	1.39	344.81	2,061,664.55 <i>gal</i>
Application event totals		0.00	0.00	1.39	344.81	
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	72.35 <i>Gal.</i>
Well Water	Ground water	0.00	0.00	1.33	328.57	1,964,612.60 <i>gal</i>
Application event totals		17.70	0.00	1.33	328.57	
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
Well Water	Ground water	0.00	0.00	1.63	402.17	2,404,685.78 <i>gal</i>
Application event totals		0.00	0.00	1.63	402.17	
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	0.00	1,346.02	35,265.70	134.60	2,333,959.79 <i>gal</i>
Application event totals		0.00	1,346.02	35,265.70	134.60	
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	0.00	1.50	372.27	2,225,906.06 <i>gal</i>



Application event totals		0.00	0.00	1.50	372.27	
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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	144.70 <i>Gal.</i>
Canal Water	Ground water	0.00	1,167.00	30,575.48	116.70	2,023,551.01 <i>gal</i>
Application event totals		35.39	1,167.00	30,575.48	116.70	

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	0.00	1,296.17	33,959.56	129.62	2,247,516.73 <i>gal</i>
Lagoon Water Effluent	Process wastewater	41.80	93,344.38	28.40	487.01	781,915.82 <i>gal</i>
Application event totals		41.80	94,640.55	33,987.96	616.63	

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	0.00	1,283.70	33,633.03	128.37	2,225,906.06 <i>gal</i>
Application event totals		0.00	1,283.70	33,633.03	128.37	

#### 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	236.59	83.78	251.86	2,374.40	72.35 <i>ton</i>
Application event totals		236.59	83.78	251.86	2,374.40	

10/02/2022	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	1.22	0.00	29,069.14	175.84	1,905,674.18 <i>gal</i>
Application event totals		1.22	0.00	29,069.14	175.84	

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	1.22	0.00	29,069.14	175.84	1,905,674.18 <i>gal</i>

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	72.35 <i>Gal.</i>
Application event totals		18.92	0.00	29,069.14	175.84	

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	0.28	0.00	1.78	497.86	2,286,809.13 <i>gal</i>
Application event totals		0.28	0.00	1.78	497.86	

12/14/2022	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	0.22	0.00	1.37	384.94	1,768,151.34 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	72.35 <i>Gal.</i>
Application event totals		17.92	0.00	1.37	384.94	

01/11/2023	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	1.26	0.00	29,848.31	180.56	1,956,754.16 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	72.35 <i>Gal.</i>
Application event totals		18.96	0.00	29,848.31	180.56	

02/10/2023	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	0.00	1.32	327.26	1,956,754.16 <i>gal</i>
Lagoon Water Effluent	Process wastewater	24.25	47,192.24	18.10	130.79	306,479.55 <i>gal</i>
Application event totals		24.25	47,192.24	19.42	458.05	

03/09/2023	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	0.00	1.48	366.69	2,192,507.63 <i>gal</i>
Application event totals		0.00	0.00	1.48	366.69	

Field name: 286

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	1,050.00 <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
Canal Water	Ground water	0.00	1,233.85	32,326.89	123.39	11,089,131.73 <i>gal</i>
Corral Solids	Corral Solids	211.78	57.60	67.69	2,963.20	375.00 <i>ton</i>
Application event totals		211.78	1,291.45	32,394.58	3,086.59	
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
Canal Water	Ground water	0.00	1,155.67	30,278.63	115.57	10,386,514.05 <i>gal</i>
Application event totals		0.00	1,155.67	30,278.63	115.57	
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	0.00	1,400.40	36,690.57	140.04	12,586,011.03 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	375.00 <i>Gal.</i>
Application event totals		17.70	1,400.40	36,690.57	140.04	
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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	375.00 <i>Gal.</i>
Well Water	Ground water	0.00	0.00	1.58	390.35	12,097,234.35 <i>gal</i>
Application event totals		17.70	0.00	1.58	390.35	

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			
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	375.00 <i>Gal.</i>			
Canal Water	Ground water	0.00	1,308.63	34,286.09	130.86	11,761,200.14 <i>gal</i>			
Application event totals		17.70	1,308.63	34,286.09	130.86				

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			
Lagoon Water Effluent	Process wastewater	36.38	83,910.01	38.32	313.91	2,712,713.17 <i>gal</i>			
Well Water	Ground water	0.00	0.00	1.37	338.43	10,488,343.01 <i>gal</i>			
Application event totals		36.38	83,910.01	39.69	652.34				

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	0.00	1.50	372.27	11,537,177.02 <i>gal</i>			
Application event totals		0.00	0.00	1.50	372.27				

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	0.00	1.50	372.27	11,537,177.02 <i>gal</i>			
Application event totals		0.00	0.00	1.50	372.27				

01/01/2022: 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	236.59	83.78	251.86	2,374.40	375.00 <i>ton</i>
Application event totals		236.59	83.78	251.86	2,374.40	
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
Canal Water	Ground water	1.16	0.00	27,684.61	167.47	9,406,923.30 <i>gal</i>
Application event totals		1.16	0.00	27,684.61	167.47	
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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	750.00 <i>Gal.</i>
Well Water	Ground water	0.20	0.00	1.29	360.99	8,594,330.97 <i>gal</i>
Application event totals		35.59	0.00	1.29	360.99	

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
Canal Water	Ground water	1.83	0.00	43,381.94	262.42	14,740,703.77 <i>gal</i>
Application event totals		1.83	0.00	43,381.94	262.42	

01/10/2023	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	0.00	1.32	327.33	10,144,162.13 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	750.00 <i>Gal.</i>
Application event totals		35.39	0.00	1.32	327.33	

02/07/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	750.00 <i>Gal.</i>
Well Water	Ground water	0.00	0.00	1.08	267.00	8,274,590.09 <i>gal</i>
Application event totals		35.39	0.00	1.08	267.00	

03/09/2023	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	1.41	0.00	33,558.37	203.00	11,402,763.33 <i>gal</i>
Lagoon Water Effluent	Process wastewater	3.58	6,957.83	2.67	19.28	234,205.72 <i>gal</i>
Application event totals		4.99	6,957.83	33,561.04	222.28	

04/05/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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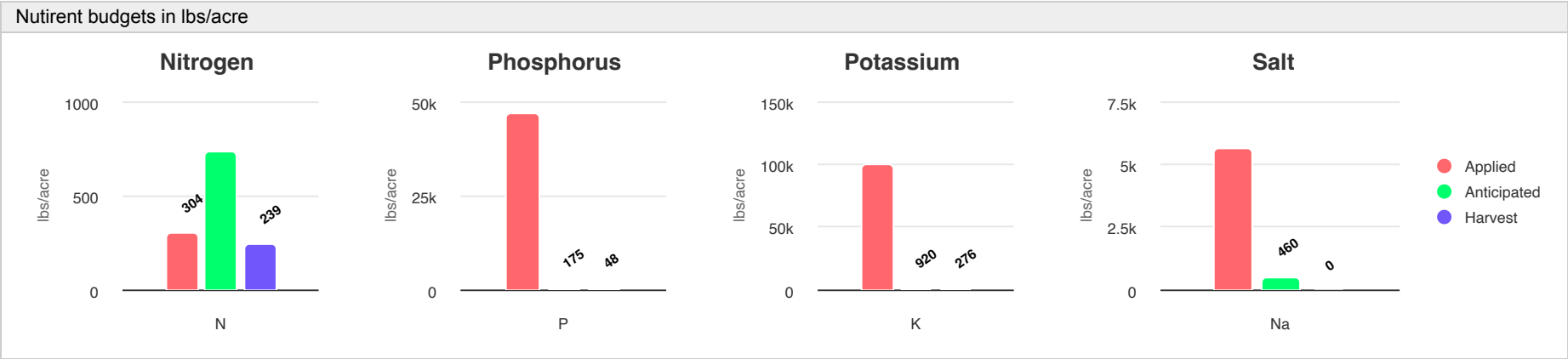
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.23	304.92	9,449,691.12 <i>gal</i>

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	375.00 <i>Gal.</i>
Application event totals		17.70	0.00	1.23	304.92	

**B. NUTRIENT BUDGET**

281 - 05/10/2023: Corn, Late Silage

Field name: 281 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	17.70	0.00	0.00	0.00
Dry manure	254.13	69.12	81.23	3,555.84
Process wastewater	18.63	42,962.93	19.62	160.72
Fresh water	0.00	3,788.80	99,272.48	1,880.63
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	304.46	46,820.85	99,373.33	5,597.19
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	238.87	47.83	275.81	0.00
Nutrient balance	65.59	46,773.02	99,097.52	5,597.19
Applied to removed ratio	1.27	978.88	360.30	0.00

Fresh water applied	
33,612,329.73	gallons
1,237.83	acre-inches
39.57	inches/acre

Process wastewater applied	
579,281.29	gallons
21.33	acre-inches
0.68	inches/acre

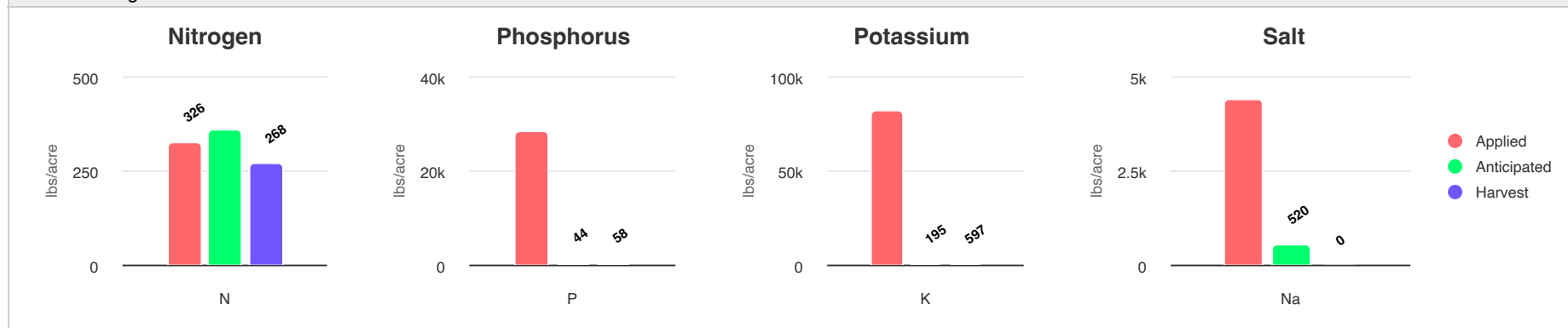
Total Harvests for the crop	
1	harvests

Field name: 281

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	70.78	0.00	0.00	0.00
Dry manure	236.59	83.78	251.86	2,374.40
Process wastewater	14.49	28,194.34	10.81	78.14
Fresh water	3.71	0.00	81,668.96	1,951.65
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	325.57	28,278.12	81,931.63	4,404.19
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	268.14	58.29	597.48	0.00
Nutrient balance	57.43	28,219.83	81,334.14	4,404.19
Applied to removed ratio	1.21	485.12	137.13	0.00

## Fresh water applied

28,921,595.72 gallons  
 1,065.08 acre-inches  
 34.05 inches/acre

## Process wastewater applied

395,813.90 gallons  
 14.58 acre-inches  
 0.47 inches/acre

## Total Harvests for the crop

1 harvests

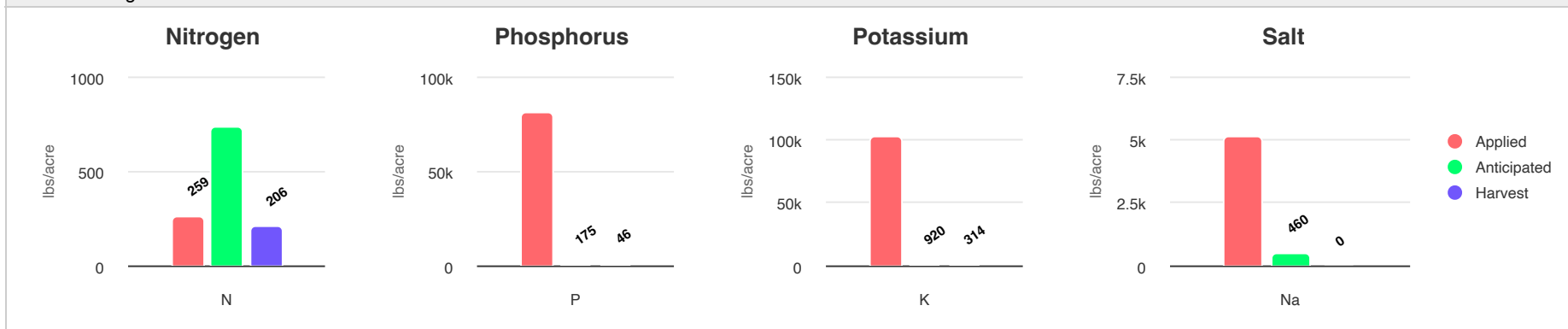


Field name: 282

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	0.00	0.00	0.00	0.00
Dry manure	211.78	57.60	67.69	2,963.20
Process wastewater	33.32	76,854.51	35.09	287.51
Fresh water	0.00	3,878.52	101,623.49	1,882.07
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	259.10	80,790.63	101,726.27	5,132.78
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	206.25	45.50	313.52	0.00
Nutrient balance	52.85	80,745.13	101,412.75	5,132.78
Applied to removed ratio	1.26	1,775.60	324.46	0.00

## Fresh water applied

40,041,655.81 gallons  
 1,474.60 acre-inches  
 39.85 inches/acre

## Process wastewater applied

1,225,744.48 gallons  
 45.14 acre-inches  
 1.22 inches/acre

## Total Harvests for the crop

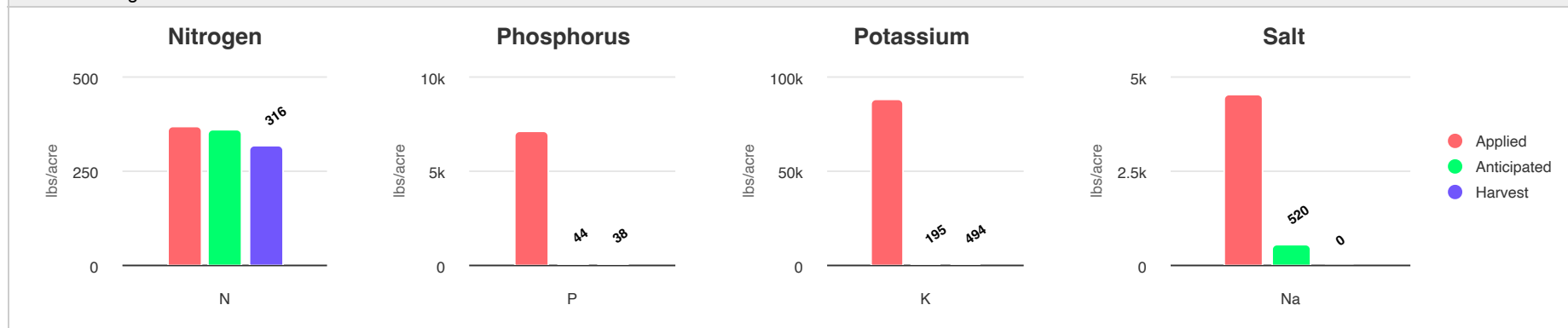
1 harvests

Field name: 282

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	123.87	0.00	0.00	0.00
Dry manure	236.59	83.78	251.86	2,374.40
Process wastewater	3.58	6,957.83	2.67	19.28
Fresh water	4.19	0.00	87,633.03	2,135.23
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>368.23</b>	<b>7,041.61</b>	<b>87,887.56</b>	<b>4,528.91</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	315.77	38.28	494.39	0.00
<b>Nutrient balance</b>	<b>52.46</b>	<b>7,003.34</b>	<b>87,393.17</b>	<b>4,528.91</b>
Applied to removed ratio	1.17	183.97	177.77	0.00

## Fresh water applied

36,028,850.31 *gallons*  
 1,326.82 *acre-inches*  
 35.86 *inches/acre*

## Process wastewater applied

115,541.49 *gallons*  
 4.26 *acre-inches*  
 0.12 *inches/acre*

## Total Harvests for the crop

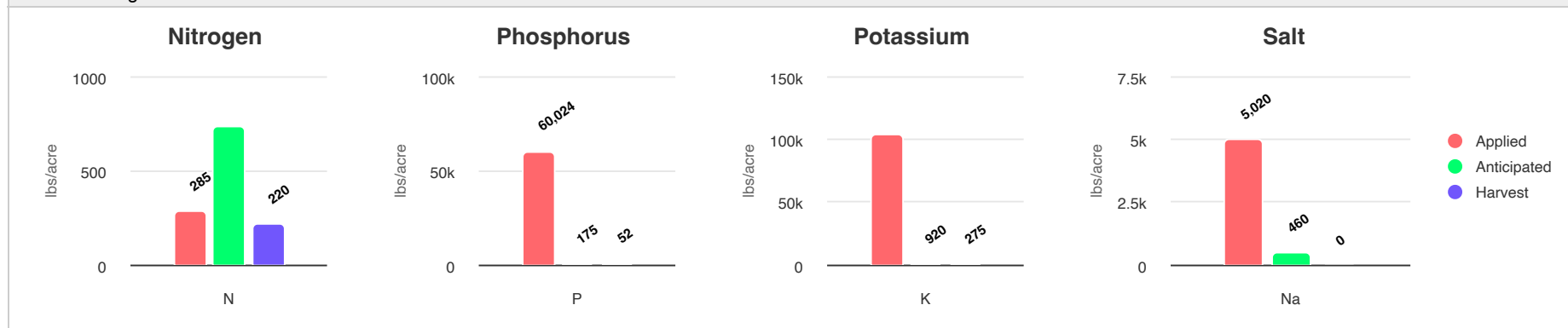
1 *harvests*

Field name: 283

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	35.39	0.00	0.00	0.00
Dry manure	211.78	57.60	67.69	2,963.20
Process wastewater	24.28	56,003.00	25.57	209.51
Fresh water	0.00	3,963.28	103,843.75	1,846.81
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	285.45	60,023.88	103,937.01	5,019.52
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	219.97	52.43	274.83	0.00
Nutrient balance	65.48	59,971.44	103,662.18	5,019.52
Applied to removed ratio	1.30	1,144.74	378.18	0.00

## Fresh water applied

38,674,491.27 gallons  
 1,424.25 acre-inches  
 39.56 inches/acre

## Process wastewater applied

869,045.75 gallons  
 32.00 acre-inches  
 0.89 inches/acre

## Total Harvests for the crop

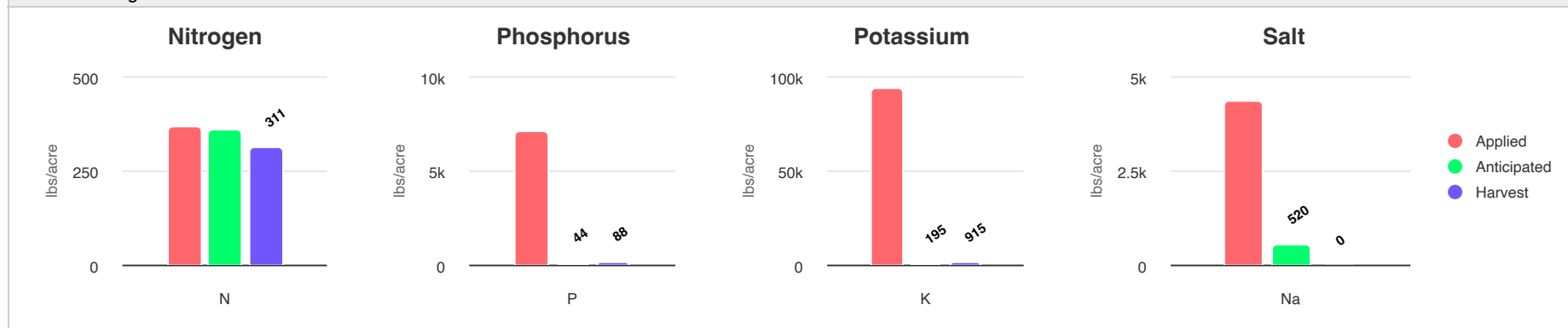
1 harvests

Field name: 283

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	123.87	0.00	0.00	0.00
Dry manure	236.59	83.78	251.86	2,374.40
Process wastewater	3.58	6,957.83	2.67	19.28
Fresh water	4.16	0.00	93,026.72	1,970.21
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	368.20	7,041.61	93,281.25	4,363.89
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	311.34	87.95	914.66	0.00
Nutrient balance	56.87	6,953.66	92,366.59	4,363.89
Applied to removed ratio	1.18	80.07	101.98	0.00

## Fresh water applied

34,664,074.86 gallons  
 1,276.56 acre-inches  
 35.46 inches/acre

## Process wastewater applied

112,418.74 gallons  
 4.14 acre-inches  
 0.12 inches/acre

## Total Harvests for the crop

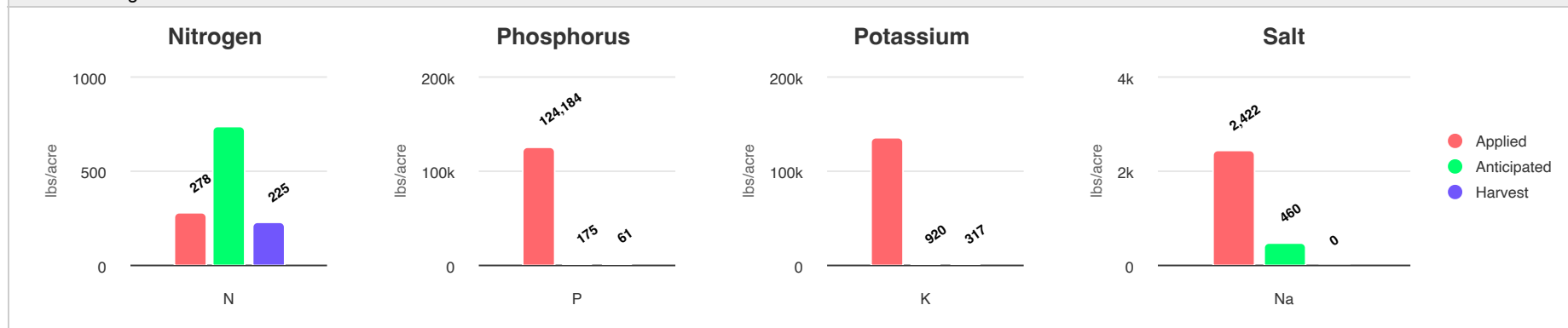
1 harvests

Field name: 284

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	212.34	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	51.62	119,061.50	54.37	445.41
Fresh water	0.00	5,122.11	134,205.55	1,976.34
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	277.96	124,183.61	134,259.92	2,421.75
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	225.18	60.94	317.17	0.00
Nutrient balance	52.78	124,122.67	133,942.75	2,421.75
Applied to removed ratio	1.23	2,037.67	423.30	0.00

## Fresh water applied

45,095,339.15 gallons  
 1,660.71 acre-inches  
 44.88 inches/acre

## Process wastewater applied

1,898,899.18 gallons  
 69.93 acre-inches  
 1.89 inches/acre

## Total Harvests for the crop

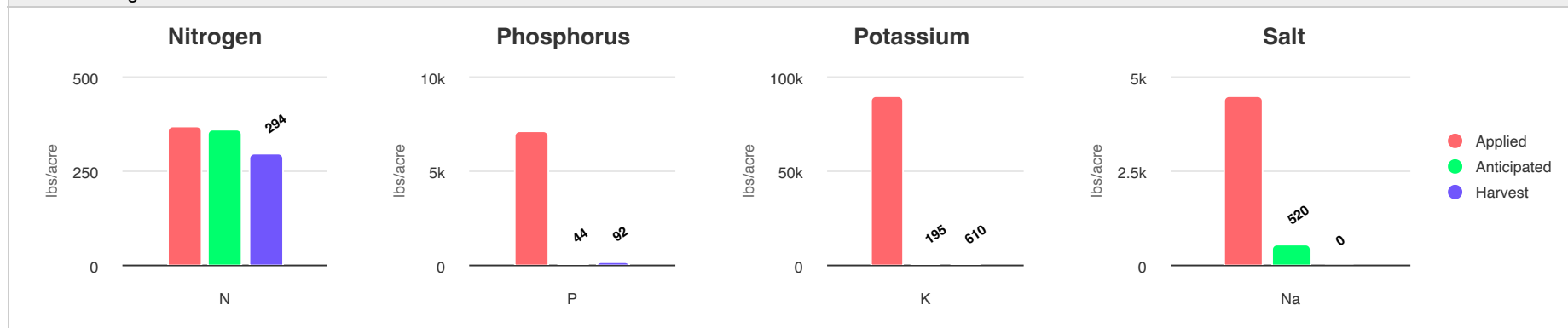
1 harvests

Field name: 284

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	123.87	0.00	0.00	0.00
Dry manure	236.59	83.78	251.86	2,374.40
Process wastewater	3.58	6,957.83	2.67	19.28
Fresh water	4.24	0.00	89,371.01	2,097.51
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>368.28</b>	<b>7,041.61</b>	<b>89,625.54</b>	<b>4,491.19</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	293.82	91.52	610.13	0.00
<b>Nutrient balance</b>	<b>74.46</b>	<b>6,950.09</b>	<b>89,015.41</b>	<b>4,491.19</b>
Applied to removed ratio	1.25	76.94	146.90	0.00

## Fresh water applied

35,767,624.90 gallons  
 1,317.20 acre-inches  
 35.60 inches/acre

## Process wastewater applied

115,541.49 gallons  
 4.26 acre-inches  
 0.12 inches/acre

## Total Harvests for the crop

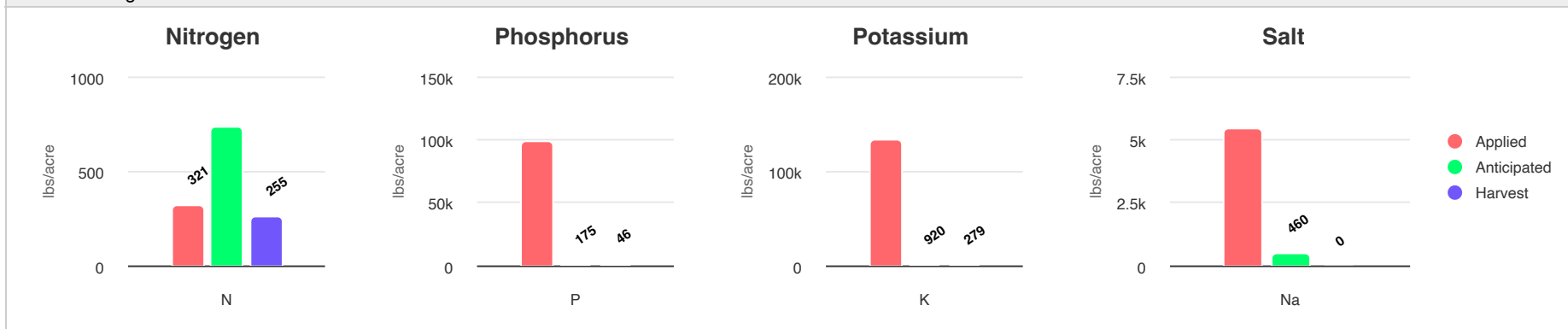
1 harvests

Field name: 285

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	211.78	57.60	67.69	2,963.20
Process wastewater	41.80	93,344.38	28.40	487.01
Fresh water	0.00	5,092.89	133,439.62	1,957.11
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	320.67	98,494.87	133,535.71	5,407.32
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	254.91	45.67	279.10	0.00
Nutrient balance	65.76	98,449.20	133,256.61	5,407.32
Applied to removed ratio	1.26	2,156.90	478.45	0.00

## Fresh water applied

17,487,802.58 gallons  
644.02 acre-inches  
44.51 inches/acre

## Process wastewater applied

781,915.82 gallons  
28.80 acre-inches  
1.99 inches/acre

## Total Harvests for the crop

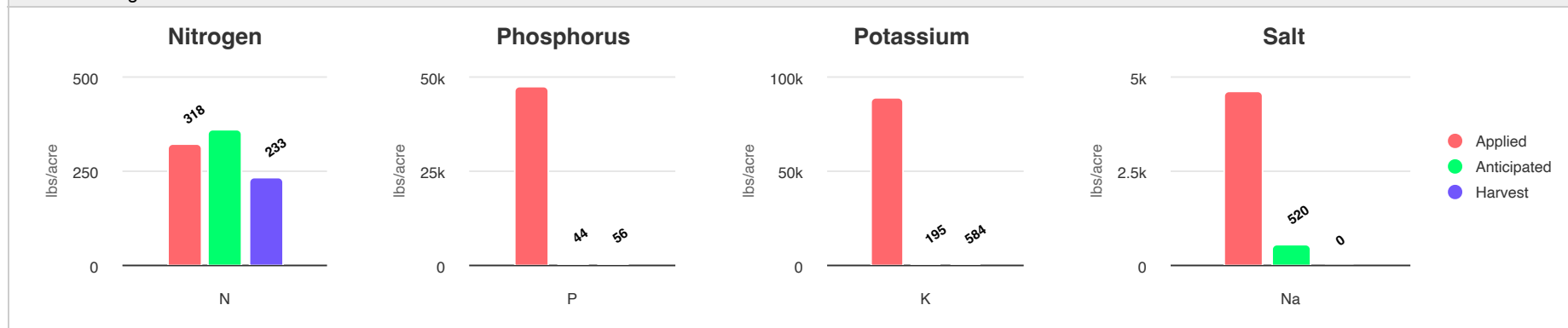
1 harvests

Field name: 285

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	53.10	0.00	0.00	0.00
Dry manure	236.59	83.78	251.86	2,374.40
Process wastewater	24.25	47,192.24	18.10	130.79
Fresh water	4.20	0.00	87,992.54	2,108.99
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>318.14</b>	<b>47,276.02</b>	<b>88,262.50</b>	<b>4,614.18</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	232.55	56.01	584.41	0.00
<b>Nutrient balance</b>	<b>85.60</b>	<b>47,220.02</b>	<b>87,678.09</b>	<b>4,614.18</b>
Applied to removed ratio	1.37	844.13	151.03	0.00

## Fresh water applied

13,972,324.78 gallons  
514.55 acre-inches  
35.56 inches/acre

## Process wastewater applied

306,479.55 gallons  
11.29 acre-inches  
0.78 inches/acre

## Total Harvests for the crop

1 harvests

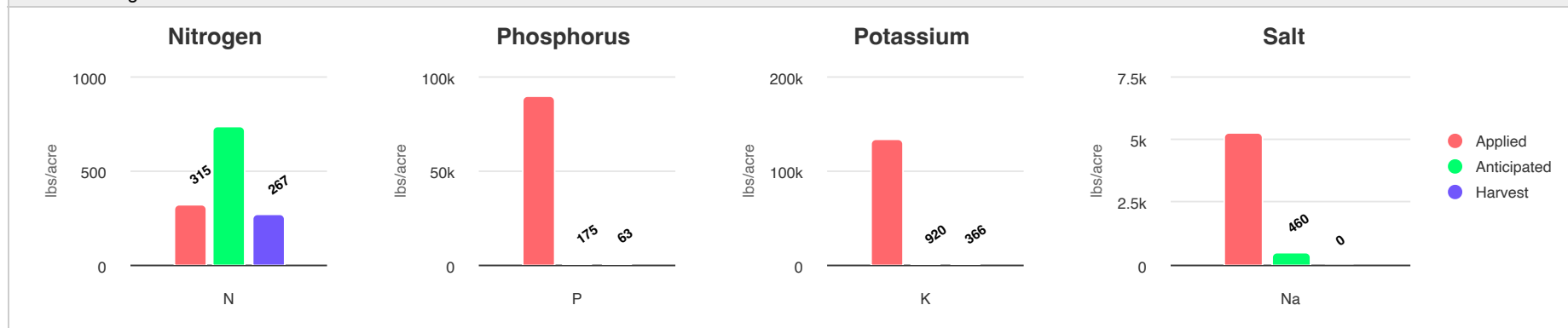


Field name: 286

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	53.10	0.00	0.00	0.00
Dry manure	211.78	57.60	67.69	2,963.20
Process wastewater	36.38	83,910.01	38.32	313.91
Fresh water	0.00	5,098.55	133,588.13	1,983.18
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	315.26	89,066.16	133,694.14	5,260.29
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	266.76	62.77	366.33	0.00
Nutrient balance	48.49	89,003.39	133,327.81	5,260.29
Applied to removed ratio	1.18	1,418.99	364.95	0.00

## Fresh water applied

91,482,788.34 gallons  
 3,369.00 acre-inches  
 44.92 inches/acre

## Process wastewater applied

2,712,713.17 gallons  
 99.90 acre-inches  
 1.33 inches/acre

## Total Harvests for the crop

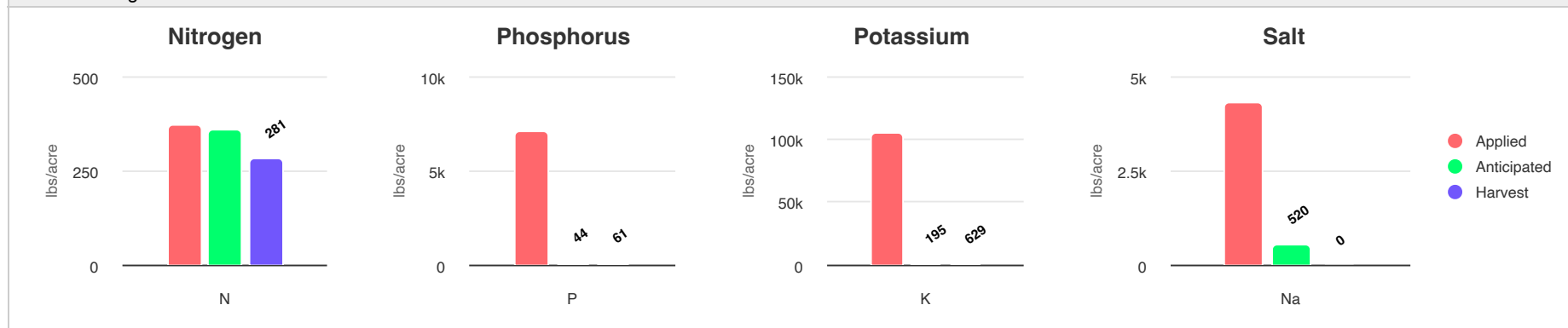
1 harvests

Field name: 286

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	123.87	0.00	0.00	0.00
Dry manure	236.59	83.78	251.86	2,374.40
Process wastewater	3.58	6,957.83	2.67	19.28
Fresh water	4.60	0.00	104,629.84	1,893.13
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	368.64	7,041.61	104,884.37	4,286.81
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	281.47	61.33	628.99	0.00
Nutrient balance	87.17	6,980.29	104,255.37	4,286.81
Applied to removed ratio	1.31	114.82	166.75	0.00

## Fresh water applied

72,013,164.71 gallons  
 2,652.00 acre-inches  
 35.36 inches/acre

## Process wastewater applied

234,205.72 gallons  
 8.63 acre-inches  
 0.12 inches/acre

## Total Harvests for the crop

1 harvests

## NUTRIENT ANALYSES

## A. MANURE ANALYSES

T3090001A

Sample and source description name: T3090001A

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

Moisture: 41.6%

	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>	13,030.00	5,920.00	20,910.00	13,980.00	8,230.00	4,080.00	5,000.00	1,032.00	20,910.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167065A

Sample and source description name: T3167065A

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

Moisture: 7.4%

	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>	22,870.00	6,220.00	7,310.00	12,580.00	7,640.00	3,010.00	2,500.00	891.00	7,310.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263071A

Sample and source description name: T3263071A

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

Moisture: 8%

	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>	21,600.00	6,840.00	27,790.00	13,810.00	8,650.00	6,700.00	5,150.00	1,172.00	27,790.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362032A

Sample and source description name: T3362032A

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

Moisture: 37.7%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	23,060.00	6,900.00	24,200.00	12,580.00	7,940.00	6,530.00	3,510.00	1,092.00	24,200.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

## B. PROCESS WASTEWATER ANALYSES

T3089012A

Sample and source description name: T3089012A

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)
Value	137.20	0.00	64.40	0.00	26.70	102.41	44.76	19.84	74.71	0.00	0.00	50.06	60.95	1.72	740.00
DL	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

T3167020A

Sample and source description name: T3167020A

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)
Value	120.40	0.00	84.00	0.13	27.80	126.94	60.01	28.60	113.12	0.00	0.00	90.20	63.68	1.89	1,040.00
DL	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

T3263047A

Sample and source description name: T3263047A

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)
Value	92.40	0.00	78.40	0.29	20.70	62.99	53.29	21.19	106.45	0.00	0.00	67.51	53.26	1.67	1,080.00
DL	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

T3362096A

Sample and source description name: T3362096A

Sample date: 12/22/2023 Material type: Process wastewater Source of analysis: Lab Analysis pH: 0

	Kjeldahl-N (mg/L)	NH <sub>4</sub> -N (mg/L)	NH <sub>3</sub> -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>	252.00	0.00	142.80	0.14	56.50	200.17	82.14	49.75	120.21	0.00	0.00	197.57	88.99	3.04	2,000.00
<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

WW-1

T3228026A

Sample and source description name: T3228026A

Sample date: 08/14/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH <sub>4</sub> -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	13.08	1.26	56.35	0.00	0.00	42.41	13.15	0.35	150.00
<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

WW-2

T3228026B

Sample and source description name: T3228026B

Sample date: 08/14/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH <sub>4</sub> -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	86.88	1.08	90.16	0.00	0.00	168.97	42.78	0.89	430.00
<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 - Farmers

T3362072B-185-188

Sample and source description name: T3362072B-185-188

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	16.59	6.27	23.89	0.00	0.00	22.73	26.87	0.28	100.00
<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

281

21391\_1

Sample description: 21391\_1

Sample date: 10/31/2023

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	23.64	0.00	0.00	0.00	0.67	2.24	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

282

19654\_1

Sample description: 19654\_1

Sample date: 09/19/2023

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	13.06	0.00	0.00	0.00	0.58	3.21	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

283

20799\_1

Sample description: 20799\_1

Sample date: 10/10/2023 Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	18.06	0.00	0.00	0.00	0.52	1.73	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

284

20799\_2

Sample description: 20799\_2

Sample date: 10/10/2023 Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	9.57	0.00	0.00	0.00	0.45	0.69	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

285

19654\_2

Sample description: 19654\_2

Sample date: 09/19/2023 Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	22.77	0.00	0.00	0.00	0.54	2.45	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

286

19581\_1

Sample description: 19581\_1

Sample date: 09/18/2023 Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
<b>Value</b>	23.36	0.00	0.00	0.00	0.69	2.51	
<b>DL</b>	0.50	0.20	0.20	0.50	1.00	0.10	

## E. PLANT TISSUE ANALYSES

281 - 05/01/2023: Corn, Late Silage

T3342007A

Sample description: T3342007A

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>	16,880.00	3,380.00	19,490.00	90.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

282 - 05/01/2023: Corn, Late Silage

T3342007B

Sample description: T3342007B

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>	12,420.00	2,740.00	18,880.00	70.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10



## 283 - 05/01/2023: Corn, Late Silage

T3342007C

Sample  
description: T3342007C

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>	13,550.00	3,230.00	16,930.00	70.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

## 284 - 05/01/2023: Corn, Late Silage

T3342007D

Sample  
description: T3342007D

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>	13,560.00	3,670.00	19,100.00	70.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

## 285 - 05/01/2023: Corn, Late Silage

T3342007E

Sample  
description: T3342007E

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>	14,960.00	2,680.00	16,380.00	60.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

286 - 05/01/2023: Corn, Late Silage

T3342007F

Sample description: T3342007F  
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>	14,280.00	3,360.00	19,610.00	80.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

281 - 10/01/2022: Triticale

T3139038A

Sample description: T3139038A  
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	4,000.00	41,000.00	0.02	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

282 - 10/01/2022: Triticale

T3139038B

Sample description: T3139038B

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 (%)
Value	19,800.00	2,400.00	31,000.00	0.01	0.00
DL	100.00	200.00	500.00		0.10

283 - 10/01/2022: Triticale

T3139038C

Sample description: T3139038C

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 (%)
Value	17,700.00	5,000.00	52,000.00	0.02	0.00
DL	100.00	200.00	500.00		0.10

284 - 10/01/2022: Triticale

T3139038D

Sample description: T3139038D

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 (%)
Value	18,300.00	5,700.00	38,000.00	0.01	0.00
DL	100.00	200.00	500.00		0.10

285 - 10/01/2022: Triticale

T3139038E

Sample  
description: T3139038E

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>	19,100.00	4,600.00	48,000.00	0.01	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

286 - 10/01/2022: Triticale

T3139038F

Sample  
description: T3139038F

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>	17,900.00	3,900.00	40,000.00	0.01	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

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

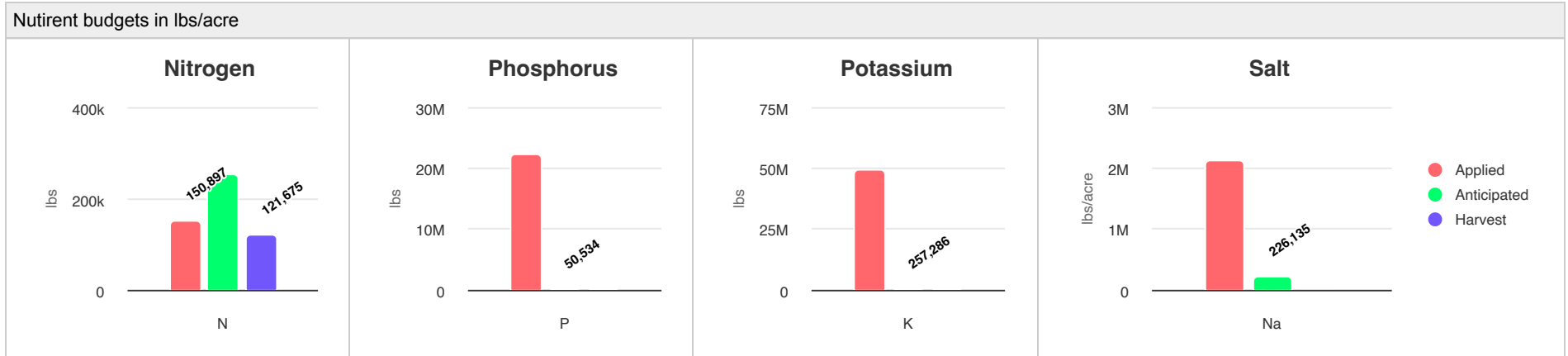
No subsurface (tile) drainage analyses entered.

# NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

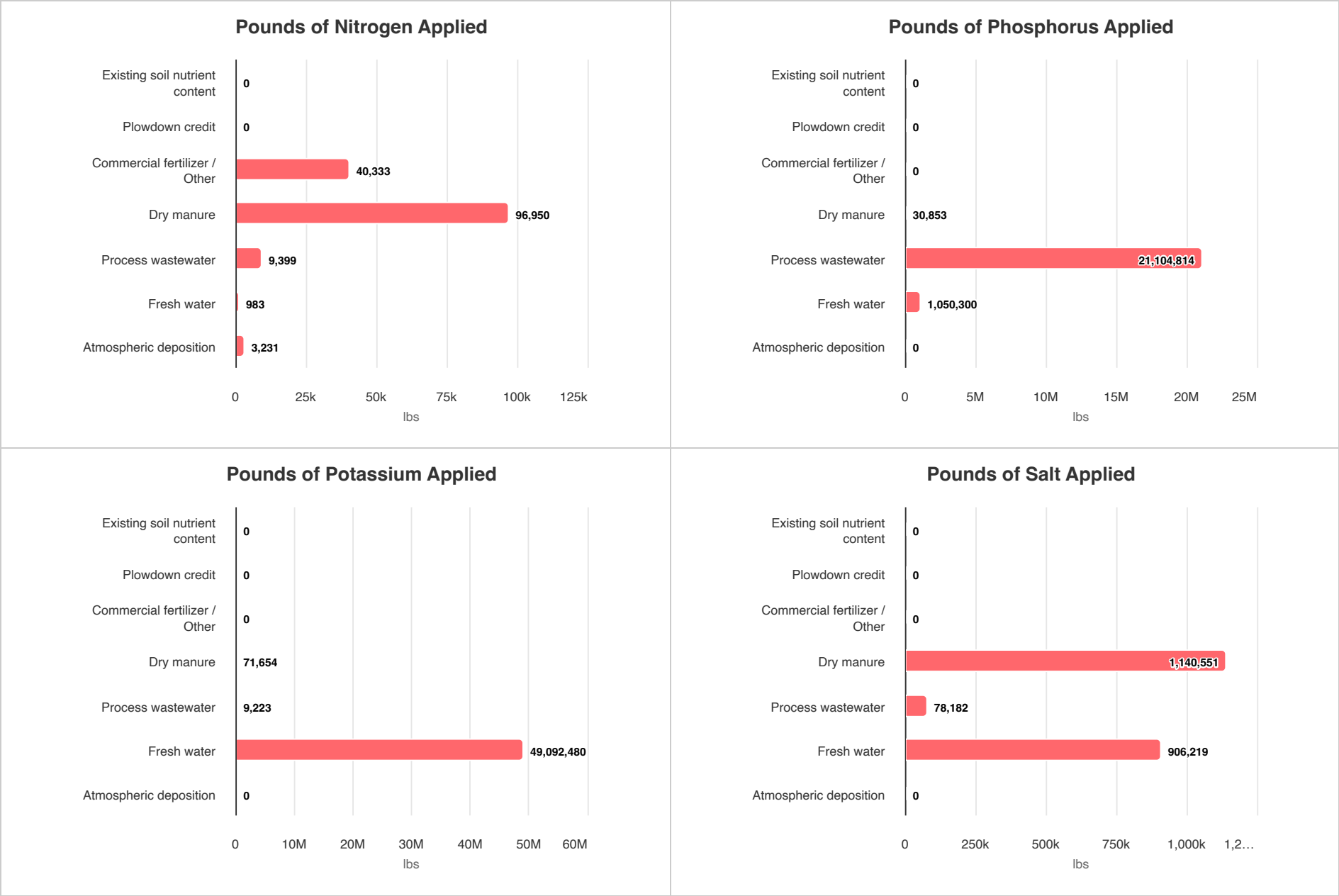
## A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

	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	40,333.29	0.00	0.00	0.00
Dry manure	96,950.12	30,852.57	71,654.30	2,374.40
Process wastewater	9,399.40	21,104,814.05	9,223.20	19.28
Fresh water	983.49	1,050,300.43	49,092,480.41	1,893.13
Atmospheric deposition	3,230.50	0.00	0.00	0.00
Total nutrients applied	150,896.80	22,185,967.05	49,173,357.91	2,124,950.85
Anticipated crop nutrient removal	252,625.10	50,534.25	257,286.25	226,135.00
Actual crop nutrient removal	121,675.00	27,892.36	221,485.39	0.00
Nutrient balance	29,221.80	22,158,074.70	48,951,872.51	2,124,950.85
Applied to removed ratio	1.24	795.41	222.02	0.00

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



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**

*No notes entered for this annual report.*

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

**Adam Westenbroek**

PRINT OR TYPE NAME

**6/29/2024**

DATE



SIGNATURE OF OPERATOR OF FACILITY

**Adam Westenbroek**

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: Adam Westenbroek  
Facility Name: Westwind Farms  
Facility Address: 6221 Bear Mountain Blvd.  
Facility City/State: Bakersfield, CA 93313

## Contact:

Name: Adam Westenbroek  
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	7,964	ton	65 %
Aug 1, 2023 - Aug, 31 2023	4,882	ton	68 %
Sep 1, 2023 - Sep, 30 2023	6,048	ton	65 %
Oct 1, 2023 - Oct, 31 2023	5,959	ton	65 %
<b>Total</b>	24,853		



**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**

Westwind Farms  
6921 Bear Mountain Blvd.  
Bakersfield, CA 93313

**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
WW-1	T3228026A	Boron (B)	EPA 200.7	0.156	ppm

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

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## Compliance Analysis Report

**Customer**

Westwind Farms  
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Bakersfield, CA 93313

**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
WW-1	T3228026A	Electrical Conductivity (EC)	EPA 120.1 and	0.346	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	92.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO <sub>4</sub> )	EPA 375.2	42.4	mg/L
		Sodium (Na)	EPA 200.7	56.3	mg/L
		Ammonia Nitrogen (NH <sub>3</sub> -N)	SM 4500-NH <sub>3</sub> D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	1.26	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	150	mg/L
		Calcium (Ca)	EPA 200.7	13.1	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	13.2	mg/L
		Soluble Salts (SALT-SOL)	Calculation	222	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

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

**Customer**

Westwind Farms  
6921 Bear Mountain Blvd.  
Bakersfield, CA 93313

**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
WW-1	T3228026A	pH (pH)	SM4500-H+ B-2000	8.3	S.U.

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

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## Compliance Analysis Report

**Customer**

Westwind Farms  
6921 Bear Mountain Blvd.  
Bakersfield, CA 93313

**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
WW-1	T3228026A	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**

Westwind Farms  
6921 Bear Mountain Blvd.  
Bakersfield, CA 93313

**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
WW-2	T3228026B	Boron (B)	EPA 200.7	0.176	ppm

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

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## Compliance Analysis Report

### Customer

Westwind Farms  
6921 Bear Mountain Blvd.  
Bakersfield, CA 93313

### 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
WW-2	T3228026B	Electrical Conductivity (EC)	EPA 120.1 and	0.891	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	210	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO <sub>4</sub> )	EPA 375.2	169	mg/L
		Sodium (Na)	EPA 200.7	90.2	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	1.08	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	430	mg/L
		Calcium (Ca)	EPA 200.7	86.9	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	42.8	mg/L
		Soluble Salts (SALT-SOL)	Calculation	570	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**

Westwind Farms  
6921 Bear Mountain Blvd.  
Bakersfield, CA 93313

**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
WW-2	T3228026B	Icon Sampling Fee (ISF)	1664B	0.000	N/A

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

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## Compliance Analysis Report

**Customer**

Westwind Farms  
6921 Bear Mountain Blvd.  
Bakersfield, CA 93313

**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
WW-2	T3228026B	pH (pH)	SM4500-H+ B-2000	8.1	S.U.

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

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

## Compliance Analysis Report

**Customer**

Westwind Farms  
6921 Bear Mountain Blvd.  
Bakersfield, CA 93313

**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
WW-2	T3228026B	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

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Date

8-14-2023

Sampled By

TONY

Lab Name

Denle

## Westwind Farms

Ranch: Westwind Farms

\*\*\*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	92	1

CHAIN

Westwind Farms

WW-1

W

Ranch: Westwind Farms

Date: 8-14-2023 11:40 am

IW 35.207241, -119.078933



23-01

2. Location:

Analysis	Weather	Temp (°F)	# of Bags/ Bottles
W2	SH	92	1

CHAIN

Westwind Farms

WW-2

W

Ranch: Westwind Farms

Date: 8-14-2023 12:10 pm

IW 35.197914, -119.078965



23-01

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 Meza	Icon Ag		8-15-2023 7:00 am	Logged in By:	Laboratory #
2nd						
3rd		Denle	8-16-23 10:00			
4th					T3228026	