

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
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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: <u>Adam Westenbroek</u>	Telephone no.: <u>(661) 477-2973</u>
	Landline Cellular

6221 Bear Mountain Blvd. Mailing Address Number and Street	Bakersfield City	Kern County	93313 Zip Code
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C. OWNERS

Adam Westenbroek

Owner Name: <u>Adam Westenbroek</u>	Telephone no.: <u>(661) 477-2973</u>
	Landline Cellular

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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
Maximum 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:	<u>31,568.81 tons per reporting period</u>	
Total nitrogen from manure:	<u>408,119.95 lbs per reporting period</u>	After ammonia losses (30% loss applied): <u>285,683.96 lbs per reporting period</u>
Total phosphorus from manure:	<u>67,866.70 lbs per reporting period</u>	
Total potassium from manure:	<u>210,277.13 lbs per reporting period</u>	
Total salt from manure:	<u>558,384.30 lbs per reporting period</u>	

C. PROCESS WASTEWATER GENERATED

Process wastewater generated:	<u>9,347,600.58 gallons</u>	<u>9,347,600.58 gallons applied</u> + <u>0 gallons exported</u> - <u>0 gallons imported</u> = <u>9,347,600.58 gallons generated</u>
Total nitrogen generated:	<u>9,399.40 lbs</u>	
Total phosphorus generated:	<u>21,104,814.05 lbs</u>	
Total potassium generated:	<u>9,223.20 lbs</u>	
Total salt generated:	<u>78,181.56 lbs</u>	

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:

TriticaleAcres planted: 14.47Plant 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 SilageCrop: Corn, Late SilageAcres planted: 14.47Plant 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 Lbs
Corral Solids	Corral Solids	254.13	69.12	81.23	3,555.84	187.68 ton
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 gal
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 gal
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 gal
Lagoon Water Effluent	Process wastewater	18.63	42,962.93	19.62	160.72	579,281.29 gal
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 gal
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 gal
Application event totals		0.00	0.00	1.52	375.89	
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
Well Water	Ground water	0.00	0.00	1.55	383.12	4,951,920.74 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	156.40 Gal.
Application event totals		17.70	0.00	1.55	383.12	
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	1,296.17	33,959.56	129.62	4,858,488.15 gal
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 ton
Application event totals		236.59	83.78	251.86	2,374.40	
11/08/2022		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
Canal Water	Ground water	0.99	0.00	23,554.99	142.49	3,338,087.32 gal
Application event totals		0.99	0.00	23,554.99	142.49	
12/06/2022		Surface (Irrigation)		No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.28	0.00	1.78	498.03	4,945,125.74 gal
Application event totals		0.28	0.00	1.78	498.03	
01/05/2023		Surface (Irrigation)		No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.17	289.01	3,735,599.74 gal
Application event totals		0.00	0.00	1.17	289.01	

01/20/2023	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	1.24	0.00	29,488.69	178.38	4,178,979.54 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	312.80 Gal.
Application event totals		36.63	0.00	29,488.69	178.38	

02/17/2023	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	1.15	283.56	3,665,100.95 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	312.80 Gal.
Application event totals		35.39	0.00	1.15	283.56	

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

04/15/2023	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	1.20	0.00	28,619.62	173.12	4,055,818.58 gal
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 ton
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	518.00 Lbs
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 gal
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 gal
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 gal
Lagoon Water Effluent	Process wastewater	33.32	76,854.51	35.09	287.51	1,225,744.48 gal
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 gal
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 gal
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 gal
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 gal
Application event totals		0.00	0.00	1.76	435.62	

10/01/2022: Tricale

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 ton
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 gal
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 Gal.
Well Water	Ground water	0.23	0.00	1.46	410.60	4,822,601.31 gal
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 gal
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 Gal.
Canal Water	Ground water	1.08	0.00	25,772.64	155.90	4,320,247.03 gal
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 Gal.
Well Water	Ground water	0.00	0.00	1.31	323.32	4,943,166.23 gal
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 gal
Lagoon Water Effluent	Process wastewater	3.58	6,957.83	2.67	19.28	115,541.49 gal
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 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	185.00 Gal.
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
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Canal Water	Ground water	0.00	1,308.63	34,286.09
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00
Application event totals		35.39	1,308.63	34,286.09
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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)
Canal Water	Ground water	0.00	1,308.63	34,286.09
Application event totals		0.00	1,308.63	34,286.09

10/01/2022: Tricale

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

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 Gal.
Well Water	Ground water	0.00	0.00	1.14	282.57	4,203,483.60 gal
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 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	360.00 Gal.
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 gal
Lagoon Water Effluent	Process wastewater	3.58	6,957.83	2.67	19.28	112,418.74 gal
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 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	180.00 Gal.
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
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
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
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
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

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 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	70.78	0.00	0.00	0.00	740.00 Gal.
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 gal
Canal Water	Ground water	0.00	1,167.00	30,575.48	116.70	5,174,249.22 gal
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 Gal.
Canal Water	Ground water	0.00	1,283.70	33,633.03	128.37	5,691,673.99 gal
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 gal
Application event totals		0.00	1,321.09	34,612.63	132.11	

10/01/2022: Tricale

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 ton
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 gal

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 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer		35.39	0.00	0.00	0.00	370.00 Gal.
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 gal
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 Gal.
Canal Water	Ground water		1.02	0.00	24,274.23	146.84	4,069,069.89 gal
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 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer		35.39	0.00	0.00	0.00	370.00 Gal.
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 gal
Lagoon Water Effluent	Process wastewater		3.58	6,957.83	2.67	19.28	115,541.49 gal
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 Gal.
Canal Water	Ground water	1.35	0.00	32,006.02	193.61	5,365,143.90 gal
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 ton
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	202.58 Lbs
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 gal
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 Gal.
Well Water	Ground water	0.00	0.00	1.33	328.57	1,964,612.60 gal
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 gal
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 gal
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 gal

Application event totals			0.00	0.00	1.50	372.27	
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	
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	144.70 Gal.	
Canal Water	Ground water	0.00	1,167.00	30,575.48	116.70	2,023,551.01 gal	
Application event totals		35.39	1,167.00	30,575.48	116.70		
08/02/2023		Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal Water	Ground water	0.00	1,296.17	33,959.56	129.62	2,247,516.73 gal	
Lagoon Water Effluent	Process wastewater	41.80	93,344.38	28.40	487.01	781,915.82 gal	
Application event totals		41.80	94,640.55	33,987.96	616.63		
08/15/2023		Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal Water	Ground water	0.00	1,283.70	33,633.03	128.37	2,225,906.06 gal	
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 ton	
Application event totals		236.59	83.78	251.86	2,374.40		
10/02/2022		Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal Water	Ground water	1.22	0.00	29,069.14	175.84	1,905,674.18 gal	
Application event totals		1.22	0.00	29,069.14	175.84		
10/30/2022		Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal Water	Ground water	1.22	0.00	29,069.14	175.84	1,905,674.18 gal	

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	72.35 Gal.
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 gal
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 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	72.35 Gal.
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 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	72.35 Gal.
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 gal
Lagoon Water Effluent	Process wastewater	24.25	47,192.24	18.10	130.79	306,479.55 gal
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 gal
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 Lbs
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 gal
Corral Solids	Corral Solids	211.78	57.60	67.69	2,963.20	375.00 ton
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 gal
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 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	375.00 Gal.
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 Gal.
Well Water	Ground water	0.00	0.00	1.58	390.35	12,097,234.35 gal
Application event totals		17.70	0.00	1.58	390.35	

07/05/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
<hr/>						
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 Gal.
Canal Water	Ground water	0.00	1,308.63	34,286.09	130.86	11,761,200.14 gal
Application event totals		17.70	1,308.63	34,286.09	130.86	
07/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
<hr/>						
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 gal
Well Water	Ground water	0.00	0.00	1.37	338.43	10,488,343.01 gal
Application event totals		36.38	83,910.01	39.69	652.34	
07/31/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.50	372.27	11,537,177.02 gal
Application event totals		0.00	0.00	1.50	372.27	
08/13/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	1.50	372.27	11,537,177.02 gal
Application event totals		0.00	0.00	1.50	372.27	

10/01/2022: Tricale

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
<hr/>						
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 ton
Application event totals		236.59	83.78	251.86	2,374.40	
10/29/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
<hr/>						
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 gal
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 Gal.
Well Water	Ground water	0.20	0.00	1.29	360.99	8,594,330.97 gal
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 gal
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 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	750.00 Gal.
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 Gal.
Well Water	Ground water	0.00	0.00	1.08	267.00	8,274,590.09 gal
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 gal
Lagoon Water Effluent	Process wastewater	3.58	6,957.83	2.67	19.28	234,205.72 gal
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 gal

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

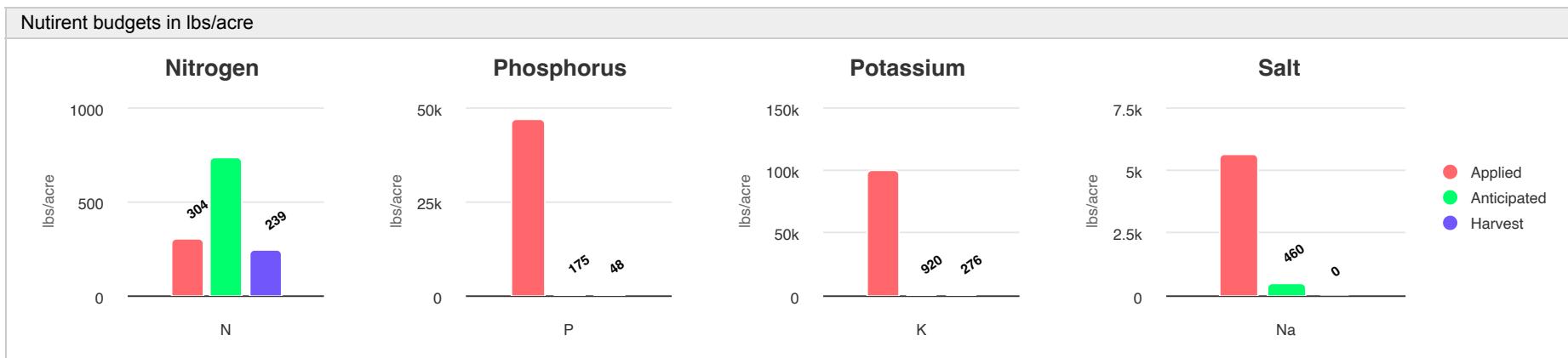
B. NUTRIENT BUDGET

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

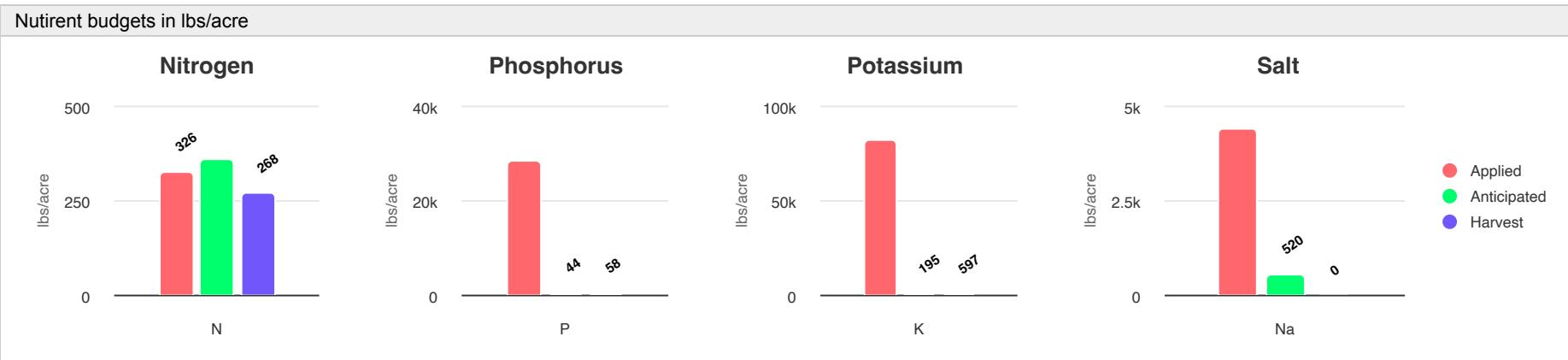
Process wastewater applied	
579,281.29	gallons
21.33	acre-inches
0.68	inches/acre

Total Harvests for the crop
1 harvests

Field name: 281

Crop: Triticale

Plant date: 10/01/2022



	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	

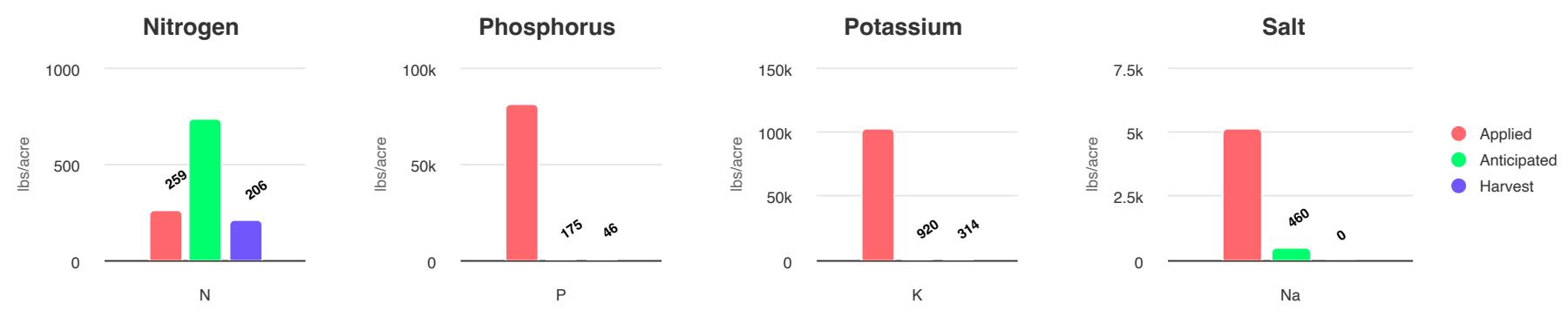
Total Harvests for the crop		
1	harvests	

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

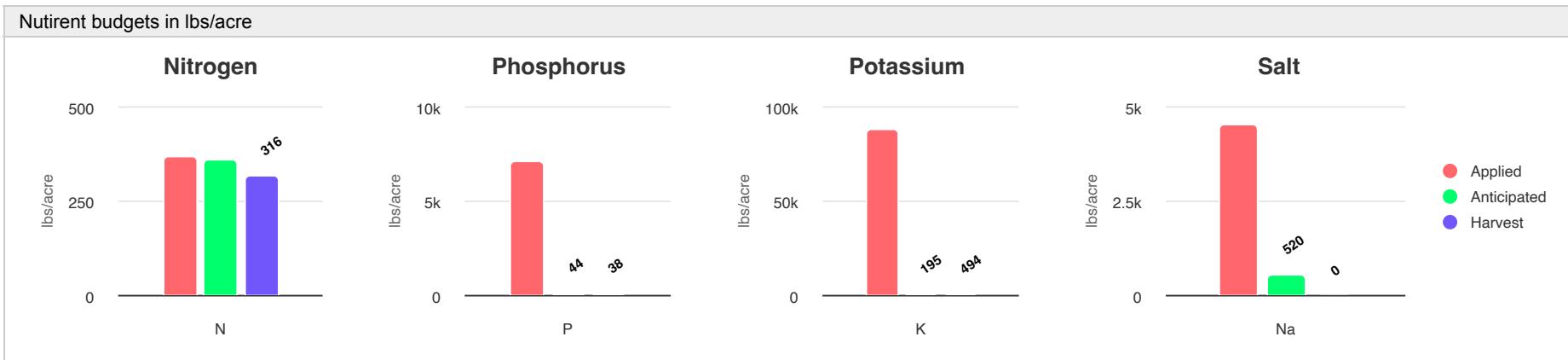
Process wastewater applied

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

Total Harvests for the crop

1	harvests
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Field name: 282 Crop: Triticale Plant date: 10/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	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
Total nutrients applied	368.23	7,041.61	87,887.56	4,528.91
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	315.77	38.28	494.39	0.00
Nutrient balance	52.46	7,003.34	87,393.17	4,528.91
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	

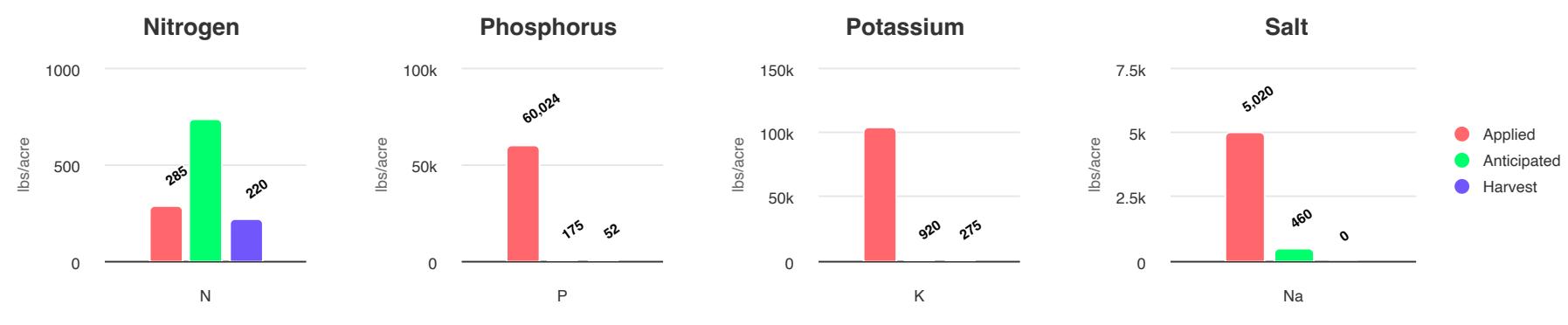
Total Harvests for the crop		
1	harvests	

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

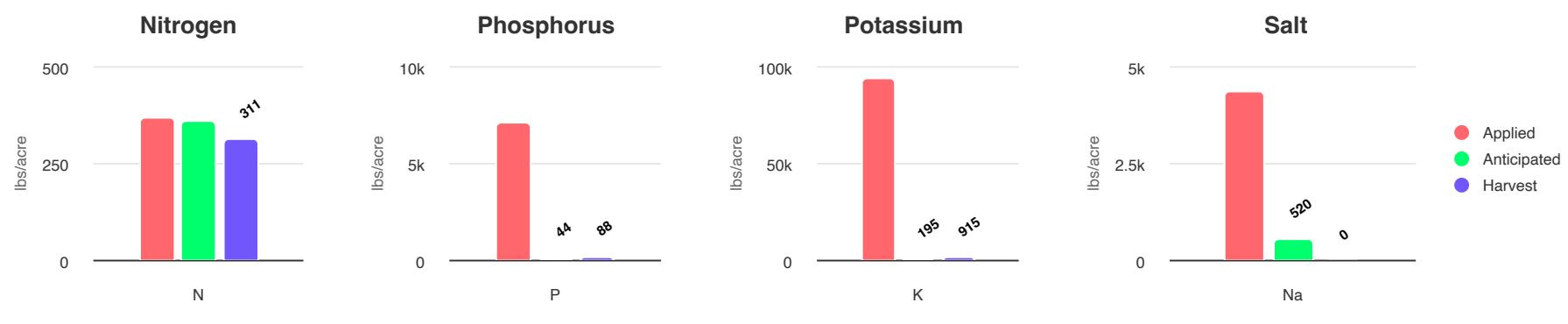
1 harvests

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	

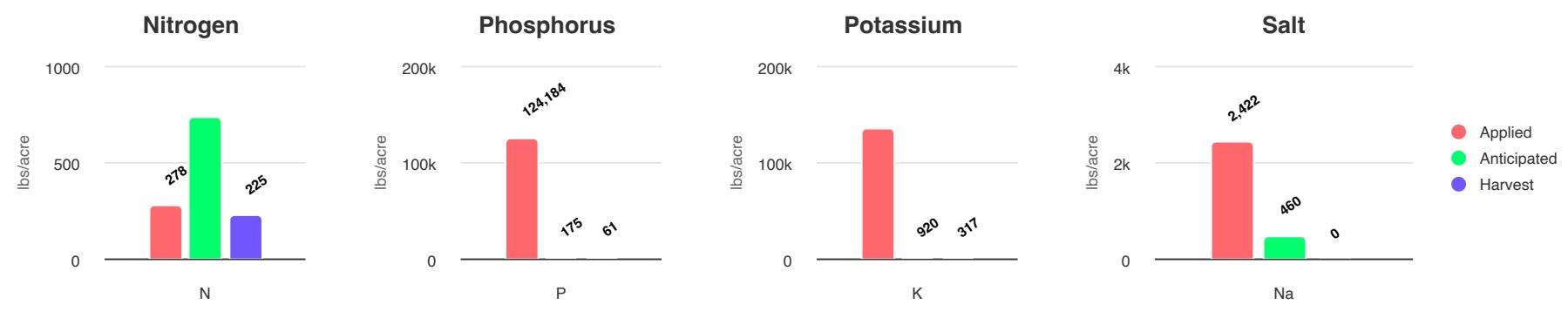
Total Harvests for the crop		
1	harvests	

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

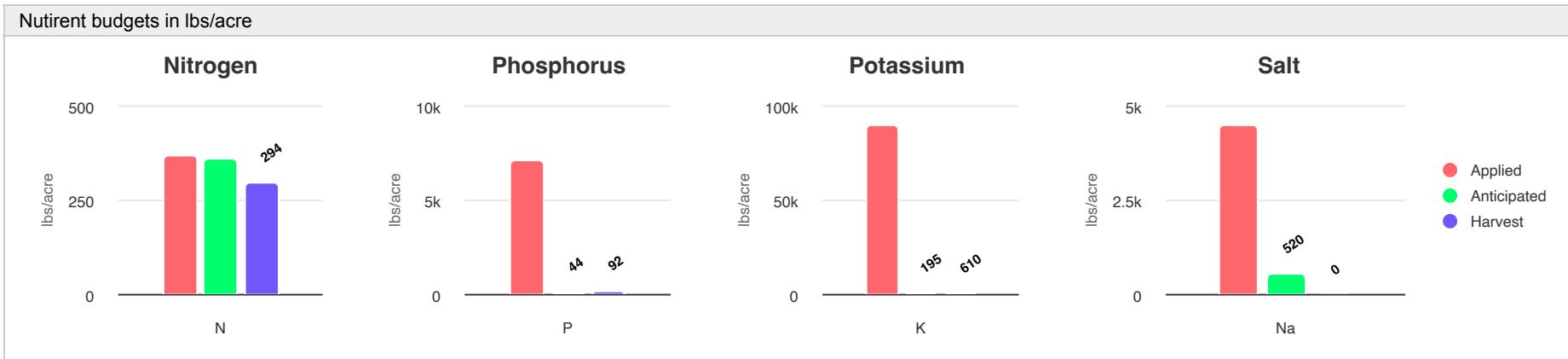
Process wastewater applied

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



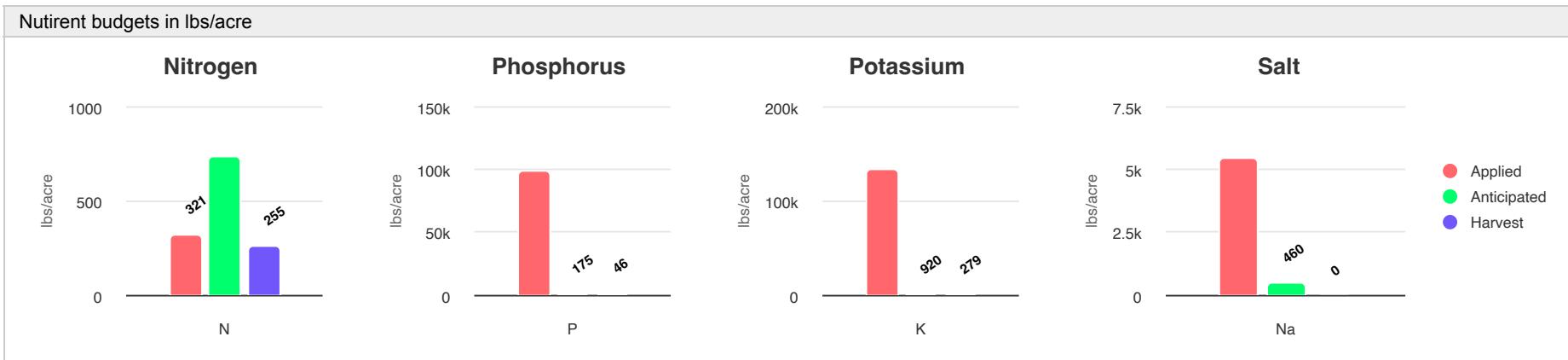
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	123.87	0.00	0.00	0.00
Dry manure	236.59	83.78	251.86	2,374.40
Process wastewater	3.58	6,957.83	2.67	19.28
Fresh water	4.24	0.00	89,371.01	2,097.51
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	368.28	7,041.61	89,625.54	4,491.19
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	293.82	91.52	610.13	0.00
Nutrient balance	74.46	6,950.09	89,015.41	4,491.19
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



	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	

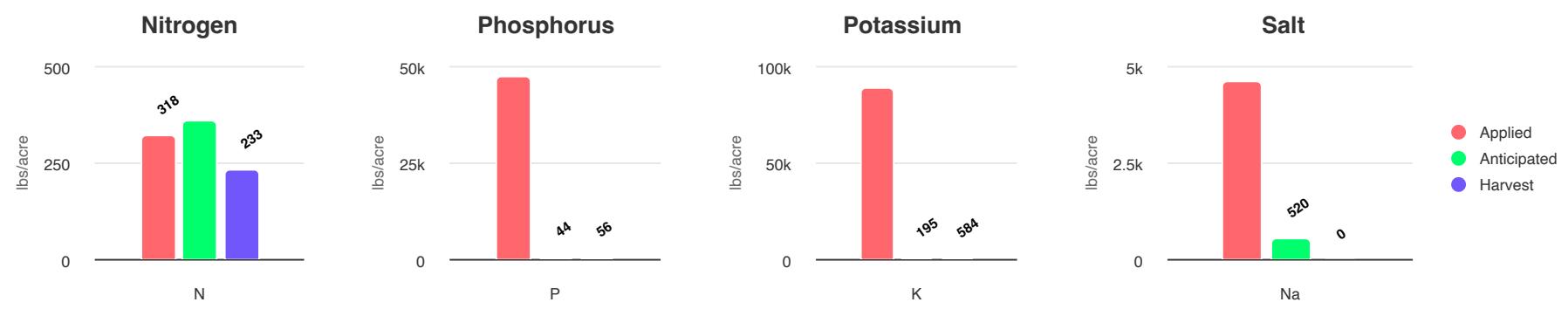
Total Harvests for the crop		
1	harvests	

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
Total nutrients applied	318.14	47,276.02	88,262.50	4,614.18
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	232.55	56.01	584.41	0.00
Nutrient balance	85.60	47,220.02	87,678.09	4,614.18
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

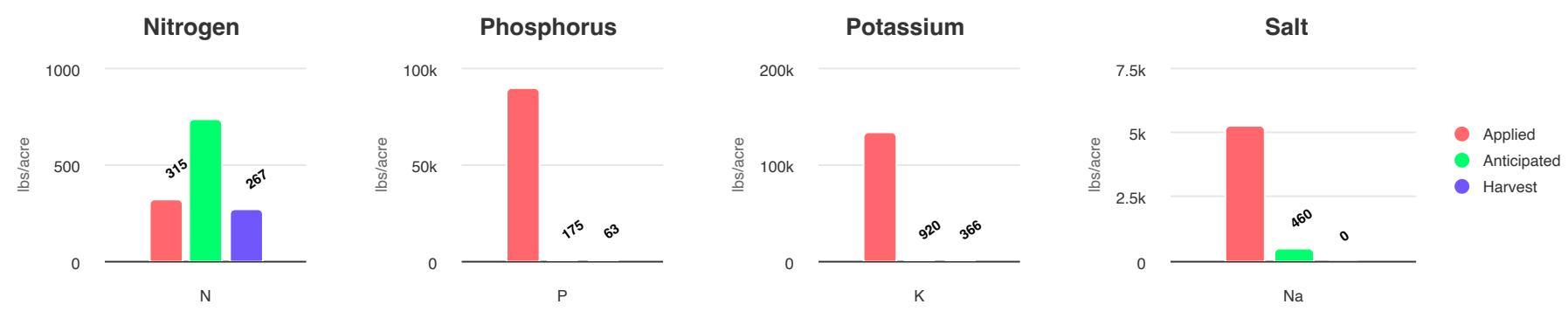
1 harvests

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

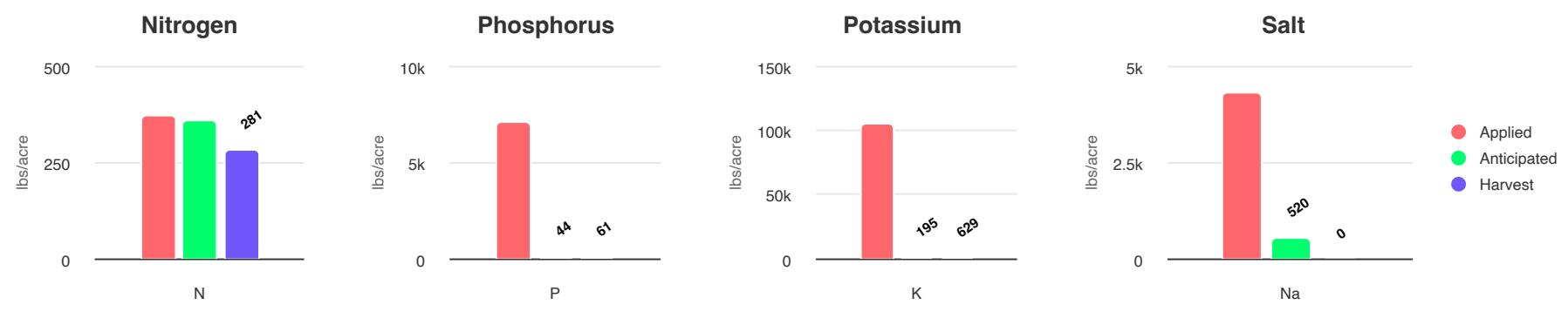
1	harvests
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Field name: 286

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 (%)
Value	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
DL	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 (%)
Value	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
DL	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 (%)
Value	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
DL	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)	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	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
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

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)	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)
Value	0.00	0.00	0.00	13.08	1.26	56.35	0.00	0.00	42.41	13.15	0.35	150.00
DL	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)	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)
Value	0.00	0.00	0.00	86.88	1.08	90.16	0.00	0.00	168.97	42.78	0.89	430.00
DL	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)
Value	2.80	0.00	0.00	16.59	6.27	23.89	0.00	0.00	22.73	26.87	0.28	100.00
DL	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)
Value	23.64	0.00	0.00	0.00	0.67	2.24	
DL	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)
Value	13.06	0.00	0.00	0.00	0.58	3.21	
DL	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	

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	

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	

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)
Value	23.36	0.00	0.00	0.00	0.69	2.51	

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 (%)
Value	16,880.00	3,380.00	19,490.00	90.00	0.00
DL	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 (%)
Value	12,420.00	2,740.00	18,880.00	70.00	0.00
DL	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 (%)
Value	13,550.00	3,230.00	16,930.00	70.00	0.00
DL	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 (%)
Value	13,560.00	3,670.00	19,100.00	70.00	0.00
DL	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 (%)
Value	14,960.00	2,680.00	16,380.00	60.00	0.00
DL	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 (%)
Value	14,280.00	3,360.00	19,610.00	80.00	0.00
DL	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 (%)
Value	18,400.00	4,000.00	41,000.00	0.02	0.00
DL	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: Tricale

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 (%)
Value	19,100.00	4,600.00	48,000.00	0.01	0.00
DL	100.00	200.00	500.00		0.10

286 - 10/01/2022: Tricale

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 (%)
Value	17,900.00	3,900.00	40,000.00	0.01	0.00
DL	100.00	200.00	500.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

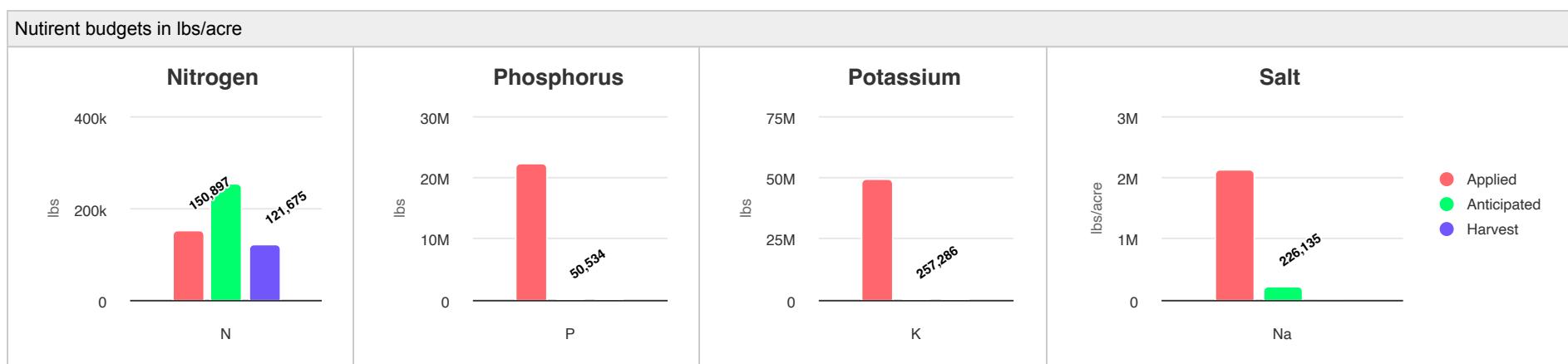
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

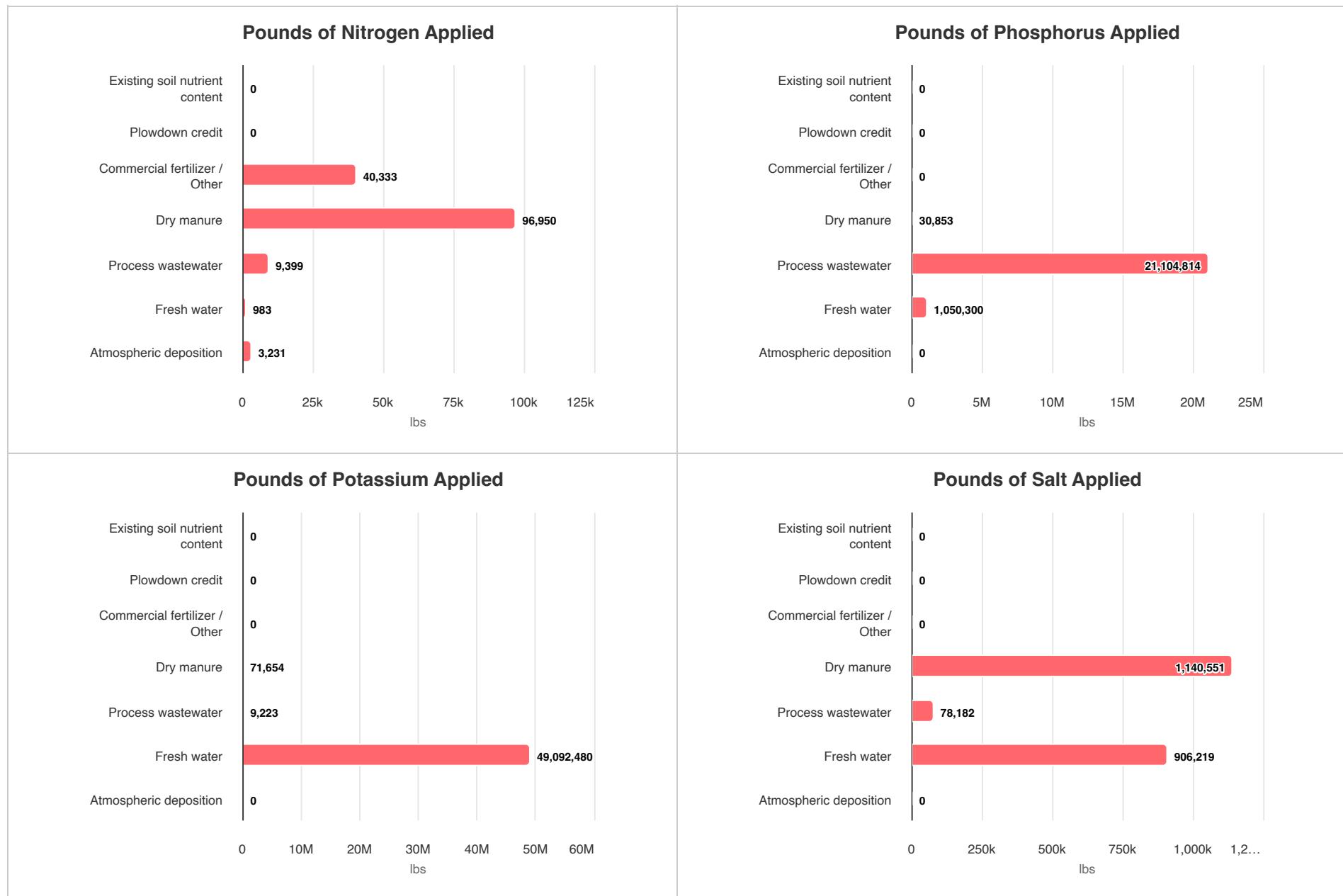
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

	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?

Yes

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

Yes

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

Yes

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period?

No

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 PDFA Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed.

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

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

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.

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

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

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

Manure 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

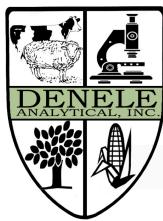
Signature of Owner:**Date:**

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 %
Total	24,853		

Signature of Hauler:**Date:**

12/30/2023



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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

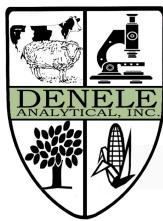
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WW-1	T3228026A	Boron (B)	EPA 200.7	0.156	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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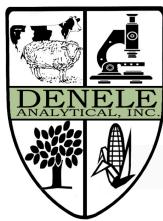
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WW-1	T3228026A	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	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 (SO4)	EPA 375.2	42.4	mg/L
		Sodium (Na)	EPA 200.7	56.3	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	1.26	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and EPA 200.7	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 (NH3-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 (NO3-N)	103	97.1 (T3228024C)	94.4 (T3228024C)			2.88
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO4)	102	114 (T3228024C)	105 (T3228024C)			7.89
Total Dissolved Solids (TDS)	99.5			115 (T3230006A)	120 (Dup)	4.26

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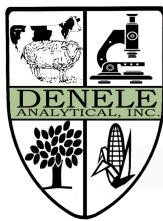
pH (pH)

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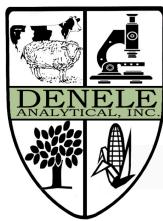
RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/22/23

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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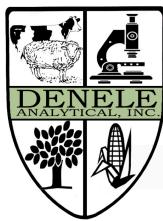
Boron (B)

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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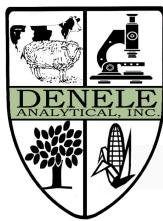
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WW-2	T3228026B	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	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 (SO4)	EPA 375.2	169	mg/L
		Sodium (Na)	EPA 200.7	90.2	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	1.08	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and EPA 200.7	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 (NH3-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 (NO3-N)	103	97.1 (T3228024C)	94.4 (T3228024C)			2.88
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO4)	102	114 (T3228024C)	105 (T3228024C)			7.89
Total Dissolved Solids (TDS)	99.5			115 (T3230006A)	120 (Dup)	4.26

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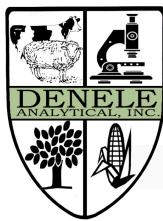
Icon Sampling Fee (ISF)

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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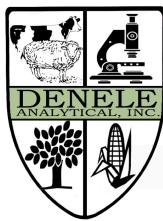
pH (pH)

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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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

📠 (661) 215-5168

✉️ dpatino@iconaginc.com

Date

8-14-2023

Sampled By

TONY

Lab Name

Denele

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

Location:

1.

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

CHAIN



23-O1

Westwind Farms

WW-1

W

Ranch: Westwind Farms 11:40
Date: 8-14-2023 am

IW 35.207241, -119.078933

Location:

2.

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

CHAIN



23-O1

Westwind Farms

WW-2

W

Ranch: Westwind Farms 12:10
Date: 8-14-2023 pm

IW 35.197914, -119.078965

Location:

3.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

4.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

5.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

6.

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	D	— Denele	8-16-2023 10:00		
4th					T3228026