

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:

Lakeview Dairy

Physical address of dairy:

17702 Bear Mountain BLVD

Number and Street

Bakersfield

City

Kern

County

93311

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:

0184-0030-0007-0000 0184-0030-0046-0000 0184-0110-0075-0000 0184-0110-0076-0000

B. OPERATORS

John Schoneveld

Operator Name: John Schoneveld

Telephone no.: (661) 203-6322

Landline

Cellular

2504 Brighton Park Drive

Mailing Address Number and Street

Bakersfield

City

Kern

93311

County

Zip Code

C. OWNERS

John Schoneveld

Owner Name: John Schoneveld

Telephone no.: (661) 203-6322

Landline

Cellular

2504 Brighton Park Drive

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	0	548	710	1,302	1,403	1,400
Number under roof	3,685	0	0	0	0	0
Maximum number	3,690	551	720	1,342	1,413	1,413
Average number	3,685	548	710	1,302	1,403	1,400
Average live weight (lbs)	1400	1450	1000	750		

Predominant milk cow breed: Holsteins
 Average Milk Production: 70 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd:	<u>132,215.04 tons per reporting period</u>		
Total nitrogen from manure:	<u>1,670,057.77 lbs per reporting period</u>	After ammonia losses (30% loss applied):	<u>1,169,040.44 lbs per reporting period</u>
Total phosphorus from manure:	<u>264,869.00 lbs per reporting period</u>		
Total potassium from manure:	<u>705,711.50 lbs per reporting period</u>		
Total salt from manure:	<u>1,861,094.85 lbs per reporting period</u>		

C. PROCESS WASTEWATER GENERATED

Process wastewater generated:	<u>58,548,934.42 gallons</u>	<u>58,548,934.42 gallons applied</u> + <u>0 gallons exported</u> - <u>0 gallons imported</u> = <u>58,548,934.42 gallons generated</u>
Total nitrogen generated:	<u>222,629.01 lbs</u>	
Total phosphorus generated:	<u>203,428,924.62 lbs</u>	
Total potassium generated:	<u>167,765.43 lbs</u>	
Total salt generated:	<u>1,614,987.70 lbs</u>	

D. FRESH WATER SOURCES

Source Description	Type
1	Surface Water
Canal - Kern Delta	Surface Water
Dairy Well	Ground Water
DAIRY WELL TROUGH	Ground Water
P10	Ground Water
P11	Ground Water
W1	Ground Water
W4	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 (%)
04/26/2023	Separator solids	10,258 tons	as-is	68.4	25,050.00	7,210.00	26,280.00	28.00
05/22/2023	Separator solids	8,432 tons	as-is	69.4	25,050.00	7,210.00	26,280.00	28.00
08/21/2023	Separator solids	8,253 tons	as-is	69.8	19,310.00	5,200.00	7,400.00	23.00
09/03/2023	Separator solids	6,675 tons	as-is	67.4	19,310.00	5,200.00	7,400.00	23.00
10/10/2023	Separator solids	4,976 tons	as-is	68.2	19,200.00	6,040.00	34,610.00	41.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	1,703,966.76	484,871.08	1,547,719.52	21,413,600.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	1,703,966.76	484,871.08	1,547,719.52	21,413,600.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
LV1	18.77	17.60	1	PROCESS WASTEWATER	0184-0110-0076-0000
LV2	38.52	41.39	1	PROCESS WASTEWATER	0184-0110-0075-0000
LV3	28.44	27.00	1	PROCESS WASTEWATER	0184-0110-0075-0000
LV4	42.54	45.09	1	PROCESS WASTEWATER	0184-0110-0075-0000
LV5	73.21	71.38	1	PROCESS WASTEWATER	0184-0110-0075-0000
LV6	72.92	71.39	2	PROCESS WASTEWATER	0184-0110-0075-0000
LV7	130.94	127.92	1	PROCESS WASTEWATER	0184-0110-0075-0000
LV8	89.18	125.83	1	PROCESS WASTEWATER	0184-0110-0075-0000
LV9	51.31	52.00	2	BOTH	0184-0030-0046-0000
LV10	122.63	125.00	2	BOTH	0184-0030-0007-0000, 0184-0030-0046-0000
LV11	20.95	20.00	2	BOTH	0184-0030-0046-0000
LV12	39.96	41.00	2	BOTH	0184-0030-0046-0000
Totals for areas that were used for application	729.37	765.60	17.00		
Totals for areas that were not used for application	0.00	0.00			
Land application area totals	729.37	729.37	17.00		

B. CROPS AND HARVESTS

LV1

Field Name:

LV1

10/20/2022: Triticale

Crop: Triticale Acres planted: 17.6 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	163.68 ton	As-is		0.00	7,632.00	1,332.00	16,200.00	0.01	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	9.30	141.96	24.78	301.32	0.00

05/21/2023: Corn Silage

Crop: Corn Silage Acres planted: 17.6 Plant date: 05/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	248.16 ton	As-is		0.00	5,922.00	1,270.50	9,331.00	56.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	14.10	167.00	35.83	263.13	0.00

LV2

Field Name: LV2

10/20/2022: Triticale

Crop:

Triticale

Acres planted: 41.39

Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	699.49 ton	As-is		0.00	7,452.00	1,800.00	20,520.00	0.01	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	16.90	251.88	60.84	693.58	0.00

05/21/2023: Corn Silage

Crop:

Corn Silage

Acres planted: 41.39

Plant date: 05/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	795.93 ton	As-is		0.00	4,067.00	1,134.00	10,745.00	108.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	19.23	156.42	43.61	413.25	0.00

LV3

Field Name: LV3

10/20/2022: Triticale

Crop: Triticale Acres planted: 27 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	459.00 ton	As-is		0.00	8,136.00	1,764.00	21,240.00	0.02	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	17.00	276.62	59.98	722.16	0.00

05/21/2023: Corn Silage

Crop: Corn Silage Acres planted: 27 Plant date: 05/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	434.70 ton	As-is		0.00	6,170.50	1,081.50	9,821.00	63.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	16.10	198.69	34.82	316.24	0.00

LV4

Field Name: LV4

10/20/2022: Triticale

Crop: Triticale Acres planted: 45.09 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	586.17 ton	As-is		0.00	7,236.00	1,656.00	17,640.00	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	13.00	188.14	43.06	458.64	0.00

05/21/2023: Corn Silage

Crop: Corn Silage Acres planted: 45.09 Plant date: 05/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	685.37 ton	As-is		0.00	5,586.00	1,092.00	9,593.50	56.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	15.20	169.81	33.20	291.64	0.00

LV5

Field Name: LV5**10/20/2022: Triticale**Crop: Triticale Acres planted: 71.38 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	1,242.01 ton	As-is		0.00	7,524.00	1,908.00	20,880.00	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	17.40	261.84	66.40	726.62	0.00

05/21/2023: Corn SilageCrop: Corn Silage Acres planted: 71.38 Plant date: 05/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	1,234.87 ton	As-is		0.00	5,747.00	1,081,500.00	7,976.50	59.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	17.30	198.85	37,419.90	275.99	0.00

LV6

Field Name: LV6**10/20/2022: Triticale**Crop: Triticale Acres planted: 71.39 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	592.54 ton	As-is		0.00	7,632.00	1,764.00	19,080.00	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	8.30	126.69	29.28	316.73	0.00

05/21/2023: Corn, Early SilageCrop: Corn, Early Silage Acres planted: 71.39 Plant date: 05/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	1,292.16 ton	As-is		0.00	5,390.00	917.00	9,278.50	56.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	1,020.00	180.00	1,200.00	600.00
Total actual harvest content	18.10	195.12	33.20	335.88	0.00

LV7

Field Name: LV7

10/30/2022: Triticale

Crop: Triticale Acres planted: 127.92 Plant date: 10/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/21/2023	2,961.35 ton	As-is		0.00	7,884.00	1,908.00	20,880.00	0.01	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	23.15	365.03	88.34	966.74	0.00

06/20/2023: Corn Silage

Crop: Corn Silage Acres planted: 127.92 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	2,213.02 ton	As-is		0.00	4,798.50	934.50	6,545.00	31.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	17.30	166.03	32.33	226.46	0.00

LV8

Field Name: LV8

05/20/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 125.83 Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	2,277.52 ton	As-is		0.00	5,810.00	889.00	5,999.00	31.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	1,020.00	180.00	1,200.00	600.00
Total actual harvest content	18.10	210.32	32.18	217.16	0.00

LV9

Field Name: LV9

10/20/2022: Triticale

Crop: Triticale Acres planted: 52 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	842.40 ton	As-is		0.00	7,416.00	1,368.00	14,760.00	0.09	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	16.20	240.28	44.32	478.22	0.00

04/02/2023: Sorghum

Crop: Sorghum Acres planted: 52 Plant date: 04/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/04/2023	712.40 ton	As-is		0.00	6,068.00	925.00	18,130.00	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	22.00	299.20	22.00	189.20	440.00
Total actual harvest content	13.70	166.26	25.34	496.76	0.00

LV10

Field Name: LV10

10/20/2022: Triticale

Crop: Triticale Acres planted: 125 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	2,500.00 ton	As-is		0.00	7,416.00	1,656.00	18,720.00	0.08	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	20.00	296.64	66.24	748.80	0.00

04/02/2023: Sorghum

Crop: Sorghum Acres planted: 125 Plant date: 04/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/06/2023	1,412.50 ton	As-is		0.00	5,846.00	1,295.00	9,213.00	0.09	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	22.00	189.20	440.00
Total actual harvest content	11.30	132.12	29.27	208.21	0.00

LV11

Field Name: LV11

10/20/2022: Triticale

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	360.00 ton	As-is		0.00	6,516.00	1,764.00	20,160.00	0.14	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	18.00	234.58	63.50	725.76	0.00

04/02/2023: Sorghum

Crop: Sorghum Acres planted: 20 Plant date: 04/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/05/2023	306.00 ton	As-is		0.00	5,809.00	1,180.30	11,026.00	0.01	2.44

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	22.00	189.20	440.00
Total actual harvest content	15.30	177.76	36.12	337.40	746.12

LV12

Field Name: LV12

10/20/2022: Triticale

Crop: Triticale Acres planted: 41 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	348.50 ton	As-is		0.00	6,948.00	1,332.00	15,480.00	0.14	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	8.50	118.12	22.64	263.16	0.00

04/02/2023: Sorghum

Crop: Sorghum Acres planted: 41 Plant date: 04/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/05/2023	545.30 ton	As-is		0.00	5,365.00	891.70	5,883.00	0.10	3.14

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	22.00	189.20	440.00
Total actual harvest content	13.30	142.71	23.72	156.49	834.60

NUTRIENT BUDGET

A. LAND APPLICATIONS

LV1

Field name: LV1

Crop: Corn Silage

Plant date: 05/21/2023

05/21/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/13/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	246.40 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

05/21/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.85	0.00	20,240.14	138.00	2,771,909.63 <i>gal</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	176.00 <i>Gal.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	176.00 <i>Gal.</i>
Application event totals		38.16	5.76	20,245.90	138.00	

06/05/2023	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
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	2,485,160.18 <i>gal</i>
Application event totals		0.04	1,178.33	30,283.16	94.27	

06/20/2023	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	0.04	1,121.68	28,827.24	89.73	2,365,681.32 <i>gal</i>
Lagoon Water Effluent	Process wastewater	36.87	41,457.38	48.89	307.09	231,311.07 <i>gal</i>
Application event totals		36.91	42,579.06	28,876.13	396.82	

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
Lagoon Water Effluent	Process wastewater	36.41	40,943.45	48.28	303.28	228,443.57 <i>gal</i>
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	2,485,160.18 <i>gal</i>

Application event totals		36.45	42,121.78	30,331.44	397.55	
07/22/2023	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
Canal Water	Ground water	0.05	1,249.15	32,103.06	99.93	2,634,508.75 gal
Application event totals		0.05	1,249.15	32,103.06	99.93	
08/07/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	40.69	34,360.19	29.48	258.76	223,664.42 gal
Well Water	Ground water	0.78	0.00	18,495.30	126.10	2,532,951.91 gal
Application event totals		41.47	34,360.19	18,524.78	384.86	
08/19/2023	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
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	35.20 Gal.
Well Water	Ground water	0.79	0.00	18,872.18	128.67	2,584,566.68 gal
Application event totals		6.93	0.00	18,872.18	128.67	
08/29/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.83	0.00	19,769.03	134.79	2,707,390.93 gal
Lagoon Water Effluent	Process wastewater	43.21	36,489.35	31.31	274.80	237,523.98 gal
Application event totals		44.04	36,489.35	19,800.34	409.59	

10/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/23/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,600.04	42,017.06	152.00	3,374,560.84 gal
Application event totals		0.00	1,600.04	42,017.06	152.00	
11/24/2022	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,236.34	32,466.38	117.45	2,607,506.55 gal

Lagoon Water Effluent	Process wastewater	69.12	61,086.14	80.17	489.14	239,913.54 gal
Application event totals		69.12	62,322.48	32,546.55	606.59	

12/23/2022	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
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer	0.11	0.00	0.00	0.00	35.20 Pt.
Application event totals		0.11	0.00	0.00	0.00	

01/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.57	0.00	13,658.60	93.13	1,870,561.04 gal
Application event totals		0.57	0.00	13,658.60	93.13	

01/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	69.02	59,665.35	10.80	512.85	263,809.31 gal
Application event totals		69.02	59,665.35	10.80	512.85	

03/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	44.51	38,479.83	6.97	330.75	170,137.90 gal
Well Water	Ground water	0.69	0.00	16,404.98	111.85	2,246,680.57 gal
Application event totals		45.20	38,479.83	16,411.95	442.60	

03/11/2023	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
NDemand Entourage	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	35.20 Gal.
Application event totals		6.14	0.00	0.00	0.00	

04/11/2023	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	0.81	0.00	19,273.50	131.41	2,639,526.85 gal
Application event totals		0.81	0.00	19,273.50	131.41	

LV10

Field name: LV10 Crop: Sorghum Plant date: 04/02/2023

04/02/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	7.56	0.00	0.00	0.00	250.00 Gal.
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.15	3.46	3.46	0.00	750.00 Gal.
Application event totals		8.71	3.46	3.46	0.00	

04/03/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	21,723,428.80 gal
Well Water	Ground water	0.00	0.00	0.00	0.00	10,182,857.10 gal
Corral Solids	Corral Solids	28.36	8.16	29.75	316.96	125.00 ton
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	1,250.00 Gal.
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,750.00 Lbs
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	6.27	0.00	0.00	0.00	250.00 Gal.
Application event totals		84.02	8.16	29.75	316.96	

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	0.00	0.00	24,286,114.90 gal
Application event totals		0.00	0.00	0.00	0.00	

05/05/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	625.00 Gal.

NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	6.27	0.00	0.00	0.00	250.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	14,802,480.14 gal
Application event totals		23.97	0.00	0.00	0.00	

05/20/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	625.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	13,886,023.07 gal
Application event totals		17.70	0.00	0.00	0.00	

06/04/2023	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	0.00	0.00	12,962,777.11 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	625.00 Gal.
Application event totals		17.70	0.00	0.00	0.00	

06/19/2023	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
Well Water	Ground water	0.00	0.00	0.00	0.00	12,348,411.42 gal
Application event totals		0.00	0.00	0.00	0.00	

07/04/2023	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	0.00	0.00	12,806,639.95 gal
Application event totals		0.00	0.00	0.00	0.00	

10/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/24/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	20,365,714.20 gal
Lagoon Water Effluent	Process wastewater	88.12	77,878.75	102.21	623.61	2,172,342.80 gal

Application event totals		88.12	77,878.75	102.21	623.61	
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11/20/2022	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	0.00	0.00	0.00	0.00	19,958,400.30 gal
Application event totals		0.00	0.00	0.00	0.00	

12/19/2022	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
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer	0.11	0.00	0.00	0.00	250.00 Pt.
Application event totals		0.11	0.00	0.00	0.00	

01/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	18,329,143.10 gal
Lagoon Water Effluent	Process wastewater	64.16	56,705.47	74.42	454.07	1,581,737.10 gal
Application event totals		64.16	56,705.47	74.42	454.07	

02/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	43.26	37,398.93	6.77	321.46	1,174,422.80 gal
Well Water	Ground water	0.00	0.00	0.00	0.00	20,297,828.55 gal
Application event totals		43.26	37,398.93	6.77	321.46	

03/06/2023	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
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	250.00 Gal.
Application event totals		6.14	0.00	0.00	0.00	

04/08/2023	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
Lagoon Water Effluent	Process wastewater	37.26	32,210.64	5.83	276.86	1,011,497.17 gal
Well Water	Ground water	0.00	0.00	0.00	0.00	20,569,371.15 gal
Application event totals		37.26	32,210.64	5.83	276.86	

LV11

Field name: LV11

Crop: Sorghum

Plant date: 04/02/2023

04/02/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	7.56	0.00	0.00	0.00	40.00 Gal.
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.15	3.46	3.46	0.00	120.00 Gal.
Application event totals		8.71	3.46	3.46	0.00	

04/03/2023	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
Corral Solids	Corral Solids	85.07	24.49	89.25	950.88	60.00 ton
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	200.00 Gal.
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	280.00 Lbs
Well Water	Ground water	0.00	0.00	0.00	0.00	1,629,257.14 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	6.27	0.00	0.00	0.00	40.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	2,446,601.19 gal
Application event totals		140.73	24.49	89.25	950.88	

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	0.00	0.00	3,797,255.35 gal
Application event totals		0.00	0.00	0.00	0.00	

05/05/2023	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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	6.27	0.00	0.00	0.00	40.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	2,385,775.60 gal

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	100.00 Gal.
Application event totals		23.97	0.00	0.00	0.00	

05/20/2023	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
Well Water	Ground water	0.00	0.00	0.00	0.00	2,508,512.88 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	100.00 Gal.
Application event totals		17.70	0.00	0.00	0.00	

06/04/2023	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	0.00	0.00	2,598,665.05 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	100.00 Gal.
Application event totals		17.70	0.00	0.00	0.00	

06/19/2023	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
Well Water	Ground water	0.00	0.00	0.00	0.00	2,035,485.20 gal
Application event totals		0.00	0.00	0.00	0.00	

07/04/2023	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	0.00	0.00	2,247,831.73 gal
Application event totals		0.00	0.00	0.00	0.00	

10/20/2022: Tricale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/24/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	3,291,099.38 gal
Lagoon Water Effluent	Process wastewater	34.56	30,543.07	40.08	244.57	136,314.51 gal

Application event totals		34.56	30,543.07	40.08	244.57	
11/20/2022	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	0.00	0.00	0.00	0.00	2,932,662.90 gal
Application event totals		0.00	0.00	0.00	0.00	
12/19/2022	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
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer	0.11	0.00	0.00	0.00	40.00 Pt.
Application event totals		0.11	0.00	0.00	0.00	
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
Well Water	Ground water	0.00	0.00	0.00	0.00	2,606,811.52 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	300.00 Gal.
Application event totals		53.09	0.00	0.00	0.00	
02/24/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	70.78	0.00	0.00	0.00	400.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	3,106,450.16 gal
Application event totals		70.78	0.00	0.00	0.00	
03/06/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	40.00 Gal.
Application event totals		6.14	0.00	0.00	0.00	
04/08/2023	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	0.00	0.00	3,128,173.83 gal
Application event totals		0.00	0.00	0.00	0.00	

LV12

Field name: LV12 Crop: Sorghum Plant date: 04/02/2023

04/02/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.15	3.46	3.46	0.00	246.00 Gal.
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	7.56	0.00	0.00	0.00	82.00 Gal.
Application event totals		8.71	3.46	3.46	0.00	

04/03/2023	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
Corral Solids	Corral Solids	28.36	8.16	29.75	316.96	41.00 ton
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	6.27	0.00	0.00	0.00	82.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	6,345,956.33 gal
Well Water	Ground water	0.00	0.00	0.00	0.00	3,339,977.13 gal
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	574.00 lbs
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	410.00 Gal.
Application event totals		84.02	8.16	29.75	316.96	

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	0.00	0.00	6,679,954.26 gal
Application event totals		0.00	0.00	0.00	0.00	

05/05/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	205.00 Gal.

NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	6.27	0.00	0.00	0.00	82.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	4,453,302.84 gal
Application event totals		23.97	0.00	0.00	0.00	

05/20/2023	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
Well Water	Ground water	0.00	0.00	0.00	0.00	4,542,368.81 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	205.00 Gal.
Application event totals		17.70	0.00	0.00	0.00	

06/04/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	205.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	4,542,368.81 gal
Application event totals		17.70	0.00	0.00	0.00	

06/19/2023	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
Well Water	Ground water	0.00	0.00	0.00	0.00	4,497,835.82 gal
Application event totals		0.00	0.00	0.00	0.00	

07/04/2023	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	0.00	0.00	4,586,901.80 gal
Application event totals		0.00	0.00	0.00	0.00	

10/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/15/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	66.99	30.98	129.31	1,705.20	205.00 ton

Application event totals			66.99	30.98	129.31	1,705.20	
10/24/2022		Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent		Process wastewater	34.56	30,543.07	40.08	244.57	279,444.74 gal
Well Water		Ground water	0.00	0.00	0.00	0.00	6,746,753.74 gal
Application event totals			34.56	30,543.07	40.08	244.57	
11/20/2022		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	0.00	0.00	0.00	0.00	6,212,357.37 gal
Application event totals			0.00	0.00	0.00	0.00	
12/19/2022		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
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer		0.11	0.00	0.00	0.00	82.00 Pt.
Application event totals			0.11	0.00	0.00	0.00	
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
Well Water		Ground water	0.00	0.00	0.00	0.00	5,878,359.98 gal
Application event totals			0.00	0.00	0.00	0.00	
02/24/2023		Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water		Ground water	0.00	0.00	0.00	0.00	7,091,884.64 gal
Application event totals			0.00	0.00	0.00	0.00	
03/06/2023		Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer		6.14	0.00	0.00	0.00	82.00 Gal.
Application event totals			6.14	0.00	0.00	0.00	
04/08/2023		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	0.00	0.00	6,613,154.78 gal
Application event totals		0.00	0.00	0.00	0.00	

Field name: LV2

Crop: Corn Silage

Plant date: 05/21/2023

05/21/2023: Corn Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/13/2023		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
Atmospheric Deposition		Atmospheric deposition		14.00	0.00	0.00	0.00	579.46 <i>Lbs</i>
Application event totals				14.00	0.00	0.00	0.00	
05/21/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer		35.39	0.00	0.00	0.00	0.00	413.90 <i>Gal.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer		1.92	5.76	5.76	0.00	0.00	413.90 <i>Gal.</i>
Well Water	Ground water		0.96	0.00	22,930.68	156.35	0.00	7,385,251.26 <i>gal</i>
Application event totals			38.27	5.76	22,936.44	156.35	0.00	
06/05/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water		0.64	0.00	15,232.45	103.86	0.00	4,905,892.49 <i>gal</i>
Application event totals			0.64	0.00	15,232.45	103.86	0.00	
06/20/2023		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		0.89	0.00	21,266.10	145.00	0.00	6,849,143.12 <i>gal</i>
Lagoon Water Effluent	Process wastewater		51.80	58,245.91	68.68	431.45	0.00	764,262.80 <i>gal</i>
Application event totals			52.69	58,245.91	21,334.78	576.45	0.00	
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		0.82	0.00	19,427.04	132.46	0.00	6,256,839.52 <i>gal</i>
Lagoon Water Effluent	Process wastewater		28.19	31,692.63	37.37	234.76	0.00	415,848.88 <i>gal</i>
Application event totals			29.01	31,692.63	19,464.41	367.22	0.00	
07/22/2023		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
Canal Water	Ground water	0.04	979.15	25,164.14	78.33	4,856,440.56 gal
Application event totals		0.04	979.15	25,164.14	78.33	
08/07/2023	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	0.04	1,082.93	27,831.39	86.63	5,371,193.70 gal
Lagoon Water Effluent	Process wastewater	40.43	34,139.94	29.29	257.10	522,620.88 gal
Application event totals		40.47	35,222.87	27,860.68	343.73	
08/19/2023	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
Canal Water	Ground water	0.05	1,356.90	34,872.22	108.55	6,730,008.10 gal
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	82.78 Gal.
Application event totals		6.19	1,356.90	34,872.22	108.55	
08/29/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	24.00	20,263.70	17.38	152.60	310,200.77 gal
Canal Water	Ground water	0.04	1,061.63	27,283.96	84.93	5,265,545.76 gal
Application event totals		24.04	21,325.33	27,301.34	237.53	

10/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/23/2022	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	0.91	1,346.02	2.01	343.23	6,676,060.30 gal
Application event totals		0.91	1,346.02	2.01	343.23	
11/24/2022	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	69.12	61,086.14	80.17	489.14	564,205.73 gal
Canal Water	Ground water	0.00	1,223.65	32,133.14	116.25	6,069,145.78 gal
Application event totals		69.12	62,309.79	32,213.31	605.39	

12/23/2022	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
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer	0.11	0.00	0.00	0.00	82.78 Pt.
Application event totals		0.11	0.00	0.00	0.00	

01/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,087.69	27,953.69	87.02	5,394,796.36 gal
Application event totals		0.04	1,087.69	27,953.69	87.02	

01/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	69.02	59,665.35	10.80	512.85	620,401.54 gal
Application event totals		69.02	59,665.35	10.80	512.85	

03/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.90	0.00	21,548.77	146.92	6,940,180.68 gal
Lagoon Water Effluent	Process wastewater	106.16	91,767.90	16.61	788.78	954,204.54 gal
Application event totals		107.06	91,767.90	21,565.38	935.70	

03/11/2023	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
NDemand Entourage	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	82.78 Gal.
Application event totals		6.14	0.00	0.00	0.00	

04/11/2023	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	0.89	0.00	21,147.45	144.19	6,810,930.07 gal
Application event totals		0.89	0.00	21,147.45	144.19	

Field name: LV3

Crop: Corn Silage

Plant date: 05/21/2023

05/21/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/13/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	378.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

05/21/2023	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	0.05	1,301.15	33,439.60	104.09	4,209,837.59 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	270.00 <i>Gal.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	270.00 <i>Gal.</i>
Application event totals		37.36	1,306.91	33,445.36	104.09	

06/05/2023	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
Canal Water	Ground water	0.04	1,144.34	29,409.61	91.55	3,702,486.98 <i>gal</i>
Application event totals		0.04	1,144.34	29,409.61	91.55	

06/20/2023	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
Lagoon Water Effluent	Process wastewater	51.80	58,245.91	68.68	431.45	498,552.69 <i>gal</i>
Canal Water	Ground water	0.04	1,155.67	29,700.79	92.45	3,739,145.06 <i>gal</i>
Application event totals		51.84	59,401.58	29,769.47	523.90	

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	0.76	0.00	18,146.33	123.72	3,812,461.56 <i>gal</i>
Lagoon Water Effluent	Process wastewater	58.73	66,040.59	77.87	489.19	565,270.78 <i>gal</i>
Application event totals		59.49	66,040.59	18,224.20	612.91	

07/22/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.79	0.00	18,870.44	128.66	3,964,593.43 gal
Application event totals		0.79	0.00	18,870.44	128.66	
08/07/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	58.95	49,778.23	42.71	374.87	497,086.33 gal
Well Water	Ground water	0.77	0.00	18,320.81	124.91	3,849,119.98 gal
Application event totals		59.72	49,778.23	18,363.52	499.78	
08/19/2023	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
Well Water	Ground water	0.81	0.00	19,235.11	131.15	4,041,209.11 gal
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	54.00 Gal.
Application event totals		6.95	0.00	19,235.11	131.15	
08/29/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,321.09	33,952.08	105.69	4,274,356.04 gal
Lagoon Water Effluent	Process wastewater	34.86	29,441.11	25.26	221.72	293,999.45 gal
Application event totals		34.91	30,762.20	33,977.34	327.41	

10/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/23/2022	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	0.93	1,373.21	2.05	350.17	4,442,984.17 gal
Application event totals		0.93	1,373.21	2.05	350.17	
11/24/2022	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	91.97	81,285.95	106.68	650.89	489,754.68 gal
Canal Water	Ground water	0.00	1,114.88	29,276.86	105.91	3,607,175.36 gal
Application event totals		91.97	82,400.83	29,383.54	756.80	

12/23/2022	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
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer	0.11	0.00	0.00	0.00	54.00 Pt.
Application event totals		0.11	0.00	0.00	0.00	

01/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.74	0.00	17,587.98	119.92	3,695,155.16 gal
Application event totals		0.74	0.00	17,587.98	119.92	

01/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	85.53	73,933.15	13.38	635.48	501,485.36 gal
Application event totals		85.53	73,933.15	13.38	635.48	

03/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.86	0.00	20,414.62	139.19	4,289,019.34 gal
Lagoon Water Effluent	Process wastewater	106.16	91,767.90	16.61	788.78	622,457.67 gal
Application event totals		107.02	91,767.90	20,431.23	927.97	

03/11/2023	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
NDemand Entourage	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	54.00 Gal.
Application event totals		6.14	0.00	0.00	0.00	

04/11/2023	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	0.05	1,318.83	33,893.85	105.51	4,267,024.57 gal
Application event totals		0.05	1,318.83	33,893.85	105.51	

Field name: LV4

Crop: Corn Silage

Plant date: 05/21/2023

05/21/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/13/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	631.26 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

05/21/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	450.90 <i>Gal.</i>
Well Water	Ground water	0.87	0.00	20,644.94	140.76	7,243,472.41 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	450.90 <i>Gal.</i>
Application event totals		38.18	5.76	20,650.70	140.76	

06/05/2023	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	0.75	0.00	17,797.36	121.35	6,244,372.27 <i>gal</i>
Application event totals		0.75	0.00	17,797.36	121.35	

06/20/2023	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	0.04	1,155.67	29,700.79	92.45	6,244,372.27 <i>gal</i>
Lagoon Water Effluent	Process wastewater	51.80	58,245.91	68.68	431.45	832,582.99 <i>gal</i>
Application event totals		51.84	59,401.58	29,769.47	523.90	

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
Lagoon Water Effluent	Process wastewater	33.37	37,517.22	44.24	277.91	536,281.39 <i>gal</i>
Canal Water	Ground water	0.04	1,167.00	29,991.98	93.36	6,305,591.84 <i>gal</i>
Application event totals		33.41	38,684.22	30,036.22	371.27	

07/22/2023	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
Canal Water	Ground water	0.05	1,249.15	32,103.06	99.93	6,749,431.68 gal
Application event totals		0.05	1,249.15	32,103.06	99.93	
08/07/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	40.43	34,139.94	29.29	257.10	569,339.84 gal
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	6,366,810.82 gal
Application event totals		40.47	35,318.27	30,312.45	351.37	
08/19/2023	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
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	90.18 Gal.
Well Water	Ground water	0.78	0.00	18,690.72	127.44	6,557,815.32 gal
Application event totals		6.92	0.00	18,690.72	127.44	
08/29/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.83	0.00	19,769.03	134.79	6,936,150.85 gal
Lagoon Water Effluent	Process wastewater	38.43	32,451.29	27.84	244.39	541,178.94 gal
Application event totals		39.26	32,451.29	19,796.87	379.18	

10/20/2022: Tricale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/23/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,373.21	36,060.53	130.46	7,419,783.59 gal
Application event totals		0.00	1,373.21	36,060.53	130.46	
11/24/2022	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,169.27	30,705.00	111.08	6,317,835.40 gal
Lagoon Water Effluent	Process wastewater	69.12	61,086.14	80.17	489.14	614,642.11 gal
Application event totals		69.12	62,255.41	30,785.17	600.22	

12/23/2022	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
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer	0.11	0.00	0.00	0.00	90.18 Pt.
Application event totals		0.11	0.00	0.00	0.00	

01/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.79	0.00	18,844.27	128.48	6,611,688.52 gal
Application event totals		0.79	0.00	18,844.27	128.48	

01/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	69.02	59,665.35	10.80	512.85	675,861.46 gal
Application event totals		69.02	59,665.35	10.80	512.85	

03/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.78	0.00	18,599.99	126.82	6,525,981.24 gal
Lagoon Water Effluent	Process wastewater	106.16	91,767.90	16.61	788.78	1,039,504.32 gal
Application event totals		106.94	91,767.90	18,616.60	915.60	

03/11/2023	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
NDemand Entourage	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	90.18 Gal.
Application event totals		6.14	0.00	0.00	0.00	

04/11/2023	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	0.86	0.00	20,519.31	139.90	7,199,394.18 gal
Application event totals		0.86	0.00	20,519.31	139.90	

Field name: LV5

Crop: Corn Silage

Plant date: 05/21/2023

05/21/2023: Corn Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/13/2023		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	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	999.32 <i>Lbs</i>	
Application event totals			14.00	0.00	0.00	0.00		
05/21/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal Water		Ground water	0.05	1,288.01	33,101.82	103.04	11,017,142.80 <i>gal</i>	
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	713.80 <i>Gal.</i>	
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	713.80 <i>Gal.</i>	
Application event totals			37.36	1,293.77	33,107.58	103.04		
06/05/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well Water		Ground water	0.76	0.00	18,146.33	123.72	10,079,018.35 <i>gal</i>	
Application event totals			0.76	0.00	18,146.33	123.72		
06/20/2023		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	
Lagoon Water Effluent		Process wastewater	51.80	58,245.91	68.68	431.45	1,318,025.54 <i>gal</i>	
Well Water		Ground water	0.75	0.00	17,797.36	121.35	9,885,191.26 <i>gal</i>	
Application event totals			52.55	58,245.91	17,866.04	552.80		
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	0.77	0.00	18,320.81	124.91	10,175,932.37 <i>gal</i>	
Lagoon Water Effluent		Process wastewater	36.18	40,686.48	47.98	301.38	920,679.58 <i>gal</i>	
Application event totals			36.95	40,686.48	18,368.79	426.29		
07/22/2023		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	0.79	0.00	18,870.44	128.66	10,481,209.93 gal
Application event totals		0.79	0.00	18,870.44	128.66	
08/07/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	70.77	59,763.24	51.27	450.07	1,577,754.11 gal
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	10,079,018.35 gal
Application event totals		70.81	60,941.57	30,334.43	544.34	
08/19/2023	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
Canal Water	Ground water	0.04	1,225.47	31,494.49	98.04	10,482,179.46 gal
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	142.76 Gal.
Application event totals		6.18	1,225.47	31,494.49	98.04	
08/29/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,308.63	33,631.78	104.69	11,193,525.79 gal
Lagoon Water Effluent	Process wastewater	43.21	36,489.35	31.31	274.80	963,321.61 gal
Application event totals		43.26	37,797.98	33,663.09	379.49	

10/20/2022: Tricale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/23/2022	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	0.91	1,332.42	1.99	339.77	11,397,044.47 gal
Application event totals		0.91	1,332.42	1.99	339.77	
11/24/2022	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	69.12	61,086.14	80.17	489.14	973,012.91 gal
Canal Water	Ground water	0.00	1,278.04	33,561.28	121.41	10,931,858.51 gal
Application event totals		69.12	62,364.18	33,641.45	610.55	

12/23/2022	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						
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer	0.11	0.00	0.00	0.00	142.76 Pt.
Application event totals		0.11	0.00	0.00	0.00	
01/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description Material type N (lbs/acre) P (lbs/acre) K (lbs/acre) Salt (lbs/acre) Amount						
Canal Water	Ground water	0.04	1,169.27	30,050.21	93.54	10,001,487.52 gal
Application event totals		0.04	1,169.27	30,050.21	93.54	
01/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description Material type N (lbs/acre) P (lbs/acre) K (lbs/acre) Salt (lbs/acre) Amount						
Lagoon Water Effluent	Process wastewater	69.02	59,665.35	10.80	512.85	1,069,926.58 gal
Application event totals		69.02	59,665.35	10.80	512.85	
03/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description Material type N (lbs/acre) P (lbs/acre) K (lbs/acre) Salt (lbs/acre) Amount						
Well Water	Ground water	0.81	0.00	19,280.48	131.46	10,708,957.58 gal
Lagoon Water Effluent	Process wastewater	106.16	91,767.90	16.61	788.78	1,645,593.59 gal
Application event totals		106.97	91,767.90	19,297.09	920.24	
03/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description Material type N (lbs/acre) P (lbs/acre) K (lbs/acre) Salt (lbs/acre) Amount						
NDemand Entourage	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	142.76 Gal.
Application event totals		6.14	0.00	0.00	0.00	
04/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description Material type N (lbs/acre) P (lbs/acre) K (lbs/acre) Salt (lbs/acre) Amount						
Well Water	Ground water	0.86	0.00	20,519.31	139.90	11,397,044.47 gal
Application event totals		0.86	0.00	20,519.31	139.90	

Field name: LV6

Crop: Corn, Early Silage

Plant date: 05/21/2023

05/21/2023: Corn, Early Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/13/2023		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	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	999.46 <i>Lbs</i>	
Application event totals			14.00	0.00	0.00	0.00		
05/21/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	713.90 <i>Gal.</i>	
Canal Water		Ground water	0.05	1,471.78	37,824.83	117.74	12,590,845.87 <i>gal</i>	
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	713.90 <i>Gal.</i>	
Application event totals			37.36	1,477.54	37,830.59	117.74		
06/05/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal Water		Ground water	0.05	1,468.16	37,731.65	117.45	12,559,829.56 <i>gal</i>	
Application event totals			0.05	1,468.16	37,731.65	117.45		
06/20/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal Water		Ground water	0.04	985.72	25,333.03	78.86	8,432,668.10 <i>gal</i>	
Lagoon Water Effluent		Process wastewater	31.39	35,290.17	41.61	261.41	798,680.31 <i>gal</i>	
Application event totals			31.43	36,275.89	25,374.64	340.27		
07/06/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal Water		Ground water	0.04	1,024.24	26,323.06	81.94	8,762,220.80 <i>gal</i>	
Lagoon Water Effluent		Process wastewater	52.18	58,674.19	69.19	434.62	1,327,902.94 <i>gal</i>	
Application event totals			52.22	59,698.43	26,392.25	516.56		
07/22/2023		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	0.63	0.00	14,893.95	101.55	8,273,707.88 gal
Application event totals		0.63	0.00	14,893.95	101.55	
08/07/2023	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	0.61	0.00	14,433.31	98.41	8,017,820.08 gal
Lagoon Water Effluent	Process wastewater	70.77	59,763.24	51.27	450.07	1,577,975.19 gal
Application event totals		71.38	59,763.24	14,484.58	548.48	
08/19/2023	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
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	142.78 Gal.
Well Water	Ground water	0.60	0.00	14,185.54	96.72	7,880,183.23 gal
Application event totals		6.74	0.00	14,185.54	96.72	
08/29/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	43.21	36,489.35	31.31	274.80	963,456.60 gal
Well Water	Ground water	0.88	0.00	20,979.95	143.05	11,654,529.29 gal
Application event totals		44.09	36,489.35	21,011.26	417.85	

10/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/23/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,305.23	34,275.35	124.00	11,166,016.37 gal
Application event totals		0.00	1,305.23	34,275.35	124.00	
11/24/2022	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	69.12	61,086.14	80.17	489.14	973,149.26 gal
Canal Water	Ground water	0.00	1,128.48	29,633.90	107.21	9,653,951.31 gal
Application event totals		69.12	62,214.62	29,714.07	596.35	

12/23/2022	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
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer	0.11	0.00	0.00	0.00	142.78 Pt.
Application event totals		0.11	0.00	0.00	0.00	
01/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.76	0.00	18,006.74	122.77	10,002,888.98 gal
Application event totals		0.76	0.00	18,006.74	122.77	
01/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	39.64	34,264.34	6.20	294.52	614,518.59 gal
Application event totals		39.64	34,264.34	6.20	294.52	
03/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.79	0.00	18,826.82	128.36	10,458,447.18 gal
Lagoon Water Effluent	Process wastewater	42.01	36,318.04	6.57	312.17	651,350.92 gal
Application event totals		42.80	36,318.04	18,833.39	440.53	
03/11/2023	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
NDemand Entourage	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	142.78 Gal.
Application event totals		6.14	0.00	0.00	0.00	
04/11/2023	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	0.85	0.00	20,309.93	138.48	11,282,328.93 gal
Application event totals		0.85	0.00	20,309.93	138.48	

Field name: LV7

Crop: Corn Silage

Plant date: 06/20/2023

06/20/2023: Corn Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
06/19/2023		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
Atmospheric Deposition		Atmospheric deposition		14.00	0.00	0.00	0.00	1,790.88 Lbs
Application event totals				14.00	0.00	0.00	0.00	
06/20/2023		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
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer		1.92	5.76	5.76	0.00	1,279.20 Gal.
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer		35.39	0.00	0.00	0.00	1,279.20 Gal.
Application event totals				37.31	5.76	5.76	0.00	
06/27/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water		Ground water		0.88	0.00	21,049.74	143.52	20,952,611.65 gal
Application event totals				0.88	0.00	21,049.74	143.52	
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
Well Water		Ground water		0.78	0.00	18,495.30	126.10	18,409,954.33 gal
Application event totals				0.78	0.00	18,495.30	126.10	
07/20/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water		Ground water		0.76	0.00	18,146.33	123.72	18,062,595.39 gal
Lagoon Water Effluent		Process wastewater		39.84	44,797.96	52.83	331.84	1,816,680.34 gal
Application event totals				40.60	44,797.96	18,199.16	455.56	
08/05/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Canal Water	Ground water	0.04	1,200.99	30,865.53	96.08	18,409,954.33 gal
Lagoon Water Effluent	Process wastewater	41.30	34,874.13	29.92	262.63	1,649,948.66 gal
Application event totals		41.34	36,075.12	30,895.45	358.71	
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	0.05	1,261.04	32,408.81	100.88	19,330,451.55 gal
Application event totals		0.05	1,261.04	32,408.81	100.88	
09/06/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,155.67	29,700.79	92.45	17,715,238.11 gal
Lagoon Water Effluent	Process wastewater	30.00	25,329.63	21.73	190.75	1,198,383.77 gal
Application event totals		30.04	26,485.30	29,722.52	283.20	
09/18/2023	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
NDemand Entrouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	255.84 Gal.
Canal Water	Ground water	0.04	1,166.55	29,980.33	93.32	17,881,969.27 gal
Application event totals		6.18	1,166.55	29,980.33	93.32	
09/28/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	43.21	36,489.35	31.31	274.80	1,726,367.38 gal
Well Water	Ground water	0.81	0.00	19,193.23	130.86	19,104,668.90 gal
Application event totals		44.02	36,489.35	19,224.54	405.66	

10/30/2022: Triticale						
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
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	0.00	1,182.87	31,062.04	112.37	18,132,066.85 gal
Application event totals		0.00	1,182.87	31,062.04	112.37	
12/04/2022	Surface (Irrigation)		No precipitation	No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,182.87	31,062.04	112.37	18,132,066.85 gal
Lagoon Water Effluent	Process wastewater	69.12	61,086.14	80.17	489.14	1,743,735.15 gal
Application event totals		69.12	62,269.01	31,142.21	601.51	

01/02/2023	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
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer	0.11	0.00	0.00	0.00	255.84 Pt.
Application event totals		0.11	0.00	0.00	0.00	

02/03/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.75	0.00	17,797.36	121.35	17,715,238.11 gal
Application event totals		0.75	0.00	17,797.36	121.35	

02/09/2023	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
Lagoon Water Effluent	Process wastewater	69.02	59,665.35	10.80	512.85	1,917,413.99 gal
Application event totals		69.02	59,665.35	10.80	512.85	

03/11/2023	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
Lagoon Water Effluent	Process wastewater	106.16	91,767.90	16.61	788.78	2,949,066.08 gal
Well Water	Ground water	0.87	0.00	20,641.45	140.74	20,546,202.88 gal
Application event totals		107.03	91,767.90	20,658.06	929.52	

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
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	255.84 Gal.
Application event totals		6.14	0.00	0.00	0.00	

04/21/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.84	0.00	19,891.17	135.62	19,799,383.47 gal

Application event totals		0.84	0.00	19,891.17	135.62	
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Field name: LV8

Crop: Corn, Early Silage

Plant date: 05/20/2023

05/20/2023: Corn, Early Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/18/2023		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	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	1,761.62 Lbs	
Application event totals			14.00	0.00	0.00	0.00		
05/20/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,258.30 Gal.	
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	1,258.30 Gal.	
Application event totals			37.31	5.76	5.76	0.00		
05/26/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well Water		Ground water	0.85	0.00	20,240.14	138.00	19,817,578.73 gal	
Application event totals			0.85	0.00	20,240.14	138.00		
06/04/2023		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	0.76	0.00	18,146.33	123.72	17,767,483.14 gal	
Application event totals			0.76	0.00	18,146.33	123.72		
06/19/2023		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	
Well Water		Ground water	0.75	0.00	17,971.85	122.54	17,596,642.93 gal	
Lagoon Water Effluent		Process wastewater	51.80	58,245.91	68.68	431.45	2,323,440.21 gal	
Application event totals			52.55	58,245.91	18,040.53	553.99		
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	

Canal Water	Ground water	0.04	1,189.66	30,574.35	95.17	17,938,324.99 gal
Lagoon Water Effluent	Process wastewater	58.73	66,040.59	77.87	489.19	2,634,371.25 gal
Application event totals		58.77	67,230.25	30,652.22	584.36	

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
Canal Water	Ground water	0.04	1,225.35	31,491.57	98.03	18,476,474.02 gal
Application event totals		0.04	1,225.35	31,491.57	98.03	

08/06/2023	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
Canal Water	Ground water	0.04	1,200.99	30,865.53	96.08	18,109,166.83 gal
Lagoon Water Effluent	Process wastewater	70.77	59,763.24	51.27	450.07	2,781,294.61 gal
Application event totals		70.81	60,964.23	30,916.80	546.15	

08/18/2023	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
Canal Water	Ground water	0.04	1,213.68	31,191.66	97.09	18,300,508.13 gal
NDemand Entrouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	251.66 Gal.
Application event totals		6.18	1,213.68	31,191.66	97.09	

08/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	43.21	36,489.35	31.31	274.80	1,698,161.46 gal
Well Water	Ground water	0.85	0.00	20,344.83	138.71	19,920,082.53 gal
Application event totals		44.06	36,489.35	20,376.14	413.51	

LV9

Field name: LV9 Crop: Sorghum Plant date: 04/02/2023

04/02/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/01/2023	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	728.00 <i>Lbs</i>
Corral Solids	Corral Solids	99.25	28.57	104.12	1,109.36	182.00 <i>ton</i>
Well Water	Ground water	0.00	0.00	0.00	0.00	4,236,068.55 <i>gal</i>
Application event totals		113.25	28.57	104.12	1,109.36	

04/02/2023	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	0.00	0.00	8,048,529.98 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	260.00 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	6.27	0.00	0.00	0.00	104.00 <i>Gal.</i>
Application event totals		23.97	0.00	0.00	0.00	

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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.15	3.46	3.46	0.00	312.00 <i>Gal.</i>
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	7.56	0.00	0.00	0.00	104.00 <i>Gal.</i>
Application event totals		8.71	3.46	3.46	0.00	

04/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	8,217,973.24 <i>gal</i>
Application event totals		0.00	0.00	0.00	0.00	

05/04/2023	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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	6.27	0.00	0.00	0.00	104.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	5,591,610.54 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	260.00 Gal.
Application event totals		23.97	0.00	0.00	0.00	

05/19/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	260.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	5,704,572.26 gal
Application event totals		17.70	0.00	0.00	0.00	

06/03/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	5,874,014.85 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	260.00 Gal.
Application event totals		17.70	0.00	0.00	0.00	

06/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	5,761,053.13 gal
Application event totals		0.00	0.00	0.00	0.00	

07/03/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	5,817,533.99 gal
Application event totals		0.00	0.00	0.00	0.00	

10/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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10/24/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	8,217,973.24 gal
Lagoon Water Effluent	Process wastewater	34.56	30,543.07	40.08	244.57	354,417.72 gal
Application event totals		34.56	30,543.07	40.08	244.57	
11/20/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	6,777,709.96 gal
Application event totals		0.00	0.00	0.00	0.00	
12/19/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Brandt Smart Trio	Commercial fertilizer / Other: Liquid commercial fertilizer	0.11	0.00	0.00	0.00	104.00 Pt.
Application event totals		0.11	0.00	0.00	0.00	
01/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	6,862,431.25 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	520.00 Gal.
Application event totals		35.39	0.00	0.00	0.00	
02/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	780.00 Gal.
Well Water	Ground water	0.00	0.00	0.00	0.00	8,535,678.24 gal
Application event totals		53.09	0.00	0.00	0.00	
03/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NDemand Entorouge	Commercial fertilizer / Other: Liquid commercial fertilizer	6.14	0.00	0.00	0.00	104.00 Gal.

Application event totals		6.14	0.00	0.00	0.00	
04/08/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	0.00	0.00	0.00	8,472,137.11 gal
Application event totals		0.00	0.00	0.00	0.00	

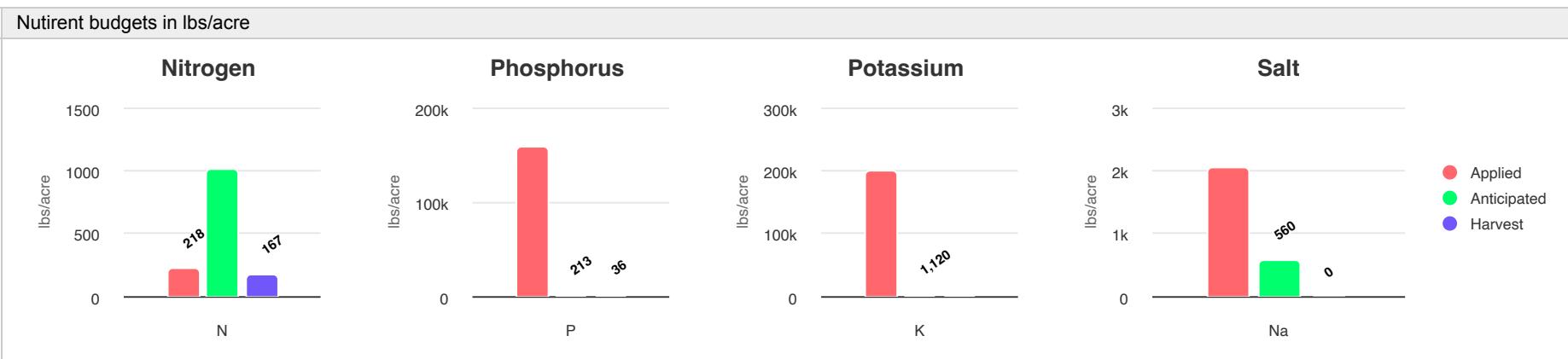
B. NUTRIENT BUDGET

LV1 - 05/21/2023: Corn Silage

Field name: LV1

Crop: Corn Silage

Plant date: 05/21/2023



	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	43.45	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	157.18	153,250.37	157.96	1,143.93
Fresh water	3.42	4,727.49	198,873.27	905.76
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	218.05	157,983.62	199,036.99	2,049.69
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	167.00	35.83	263.13	0.00
Nutrient balance	51.05	157,947.79	198,773.86	2,049.69
Applied to removed ratio	1.31	4,409.49	756.41	0.00

Fresh water applied	
20,567,329.58	gallons
757.42	acre-inches
43.04	inches/acre

Process wastewater applied	
920,943.04	gallons
33.92	acre-inches
1.93	inches/acre

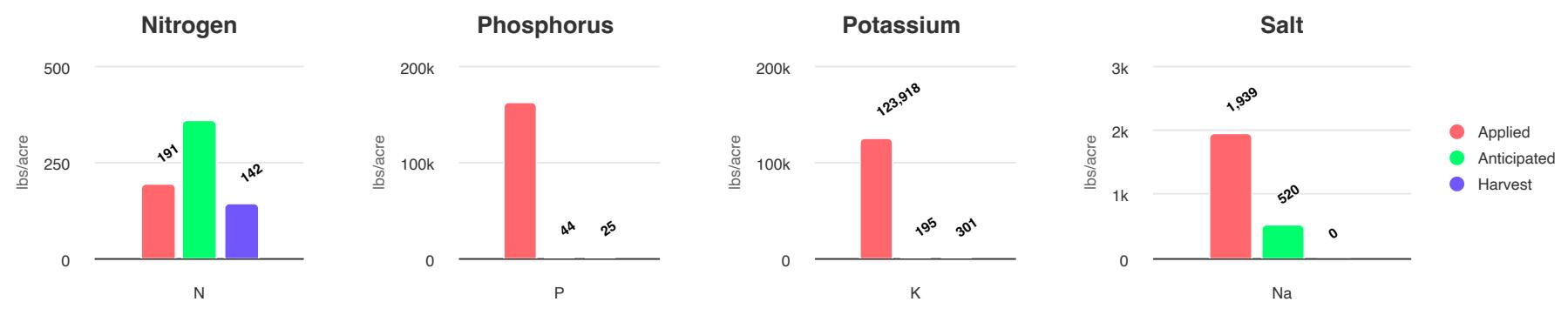
Total Harvests for the crop	
1	harvests

Field name: LV1

Crop: Triticale

Plant date: 10/20/2022

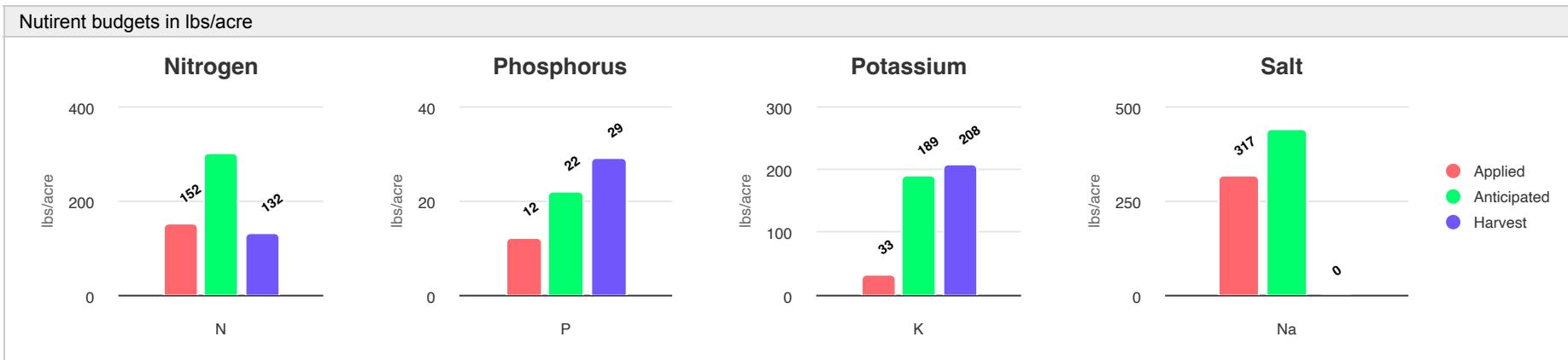
Nutrient budgets in lbs/acre



	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	6.25	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	182.65	159,231.32	97.94	1,332.74
Fresh water	2.07	2,836.38	123,820.52	605.84
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	190.97	162,067.70	123,918.46	1,938.58
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	141.96	24.78	301.32	0.00
Nutrient balance	49.01	162,042.92	123,617.14	1,938.58
Applied to removed ratio	1.35	6,541.53	411.25	0.00

Fresh water applied
12,738,835.84 gallons
469.13 acre-inches
26.65 inches/acre
Process wastewater applied
673,860.75 gallons
24.82 acre-inches
1.41 inches/acre
Total Harvests for the crop
1 harvests

Field name: LV10 Crop: Sorghum Plant date: 04/02/2023



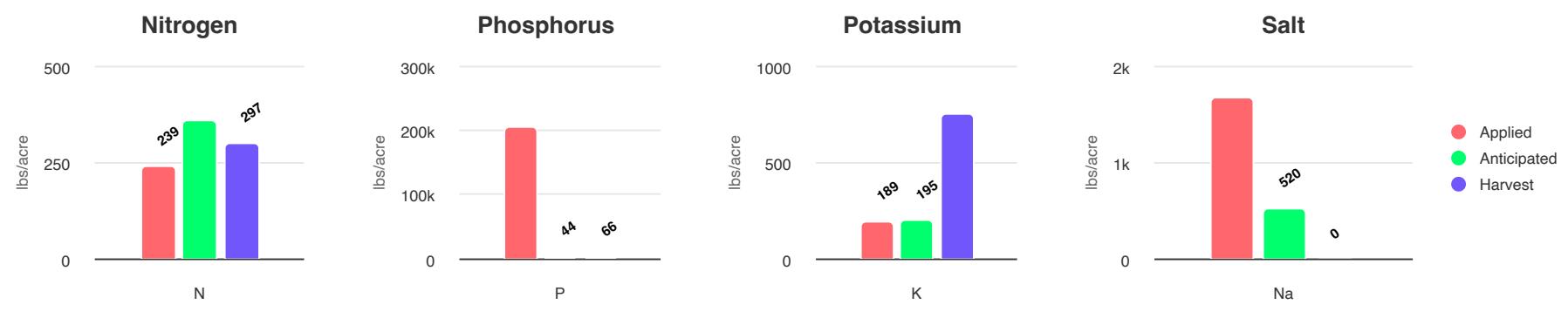
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	122,998,732.49 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,529.63 acre-inches
Commercial fertilizer / Other	109.74	3.46	3.46	0.00	36.24 inches/acre
Dry manure	28.36	8.16	29.75	316.96	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	0.00	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	152.10	11.62	33.21	316.96	Process wastewater applied
Anticipated crop nutrient removal	299.20	22.00	189.20	440.00	0.00 gallons
Actual crop nutrient removal	132.12	29.27	208.21	0.00	0.00 acre-inches
Nutrient balance	19.98	-17.65	-175.00	316.96	0.00 inches/acre
Applied to removed ratio	1.15	0.40	0.16	0.00	Total Harvests for the crop
					1 harvests

Field name: LV10

Crop: Triticale

Plant date: 10/20/2022

Nutrient budgets in lbs/acre



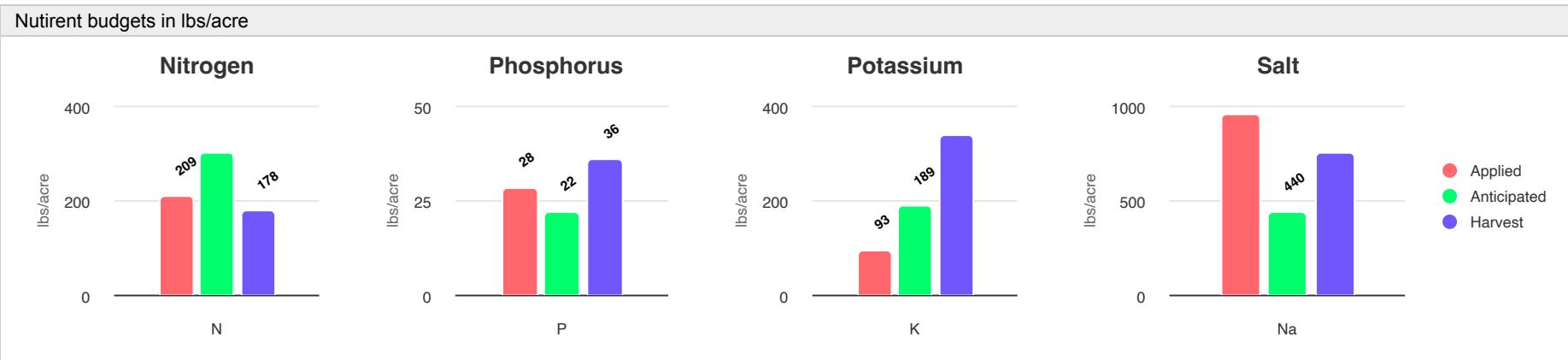
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	6.25	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	232.80	204,193.79	189.23	1,676.00
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	239.05	204,193.79	189.23	1,676.00
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	296.64	66.24	748.80	0.00
Nutrient balance	-57.59	204,127.55	-559.57	1,676.00
Applied to removed ratio	0.81	3,082.64	0.25	0.00

Fresh water applied	
99,520,457.31	gallons
3,665.00	acre-inches
29.32	inches/acre

Process wastewater applied	
5,939,999.87	gallons
218.75	acre-inches
1.75	inches/acre

Total Harvests for the crop
1 harvests

Field name: LV11 Crop: Sorghum Plant date: 04/02/2023



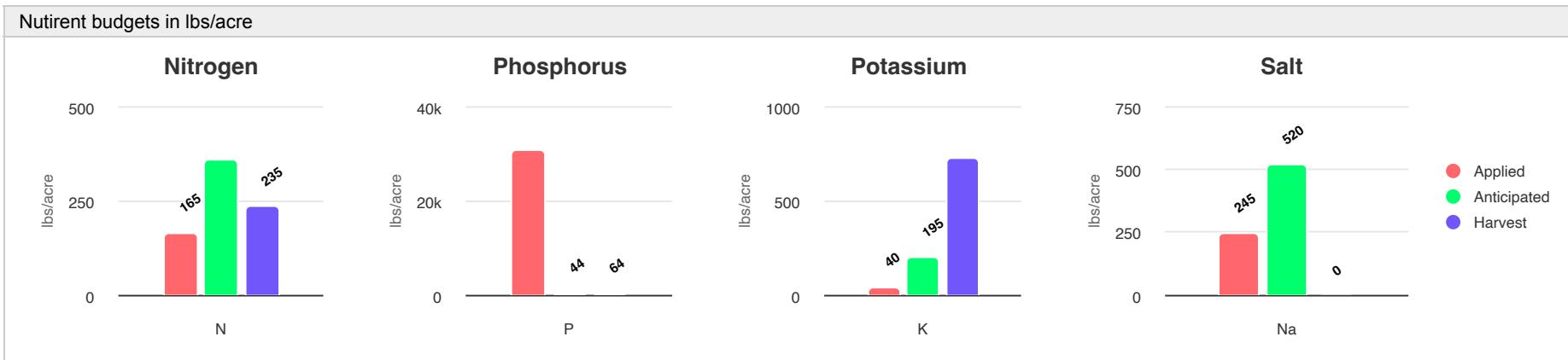
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	109.74	3.46	3.46	0.00
Dry manure	85.07	24.49	89.25	950.88
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	208.81	27.95	92.71	950.88
Anticipated crop nutrient removal	299.20	22.00	189.20	440.00
Actual crop nutrient removal	177.76	36.12	337.40	746.12
Nutrient balance	31.05	-8.17	-244.69	204.76
Applied to removed ratio	1.17	0.77	0.27	1.27

Fresh water applied		
19,649,384.14	gallons	
723.62	acre-inches	
36.18	inches/acre	

Process wastewater applied		
0.00	gallons	
0.00	acre-inches	
0.00	inches/acre	

Total Harvests for the crop		
1	harvests	

Field name: LV11 Crop: Triticale Plant date: 10/20/2022



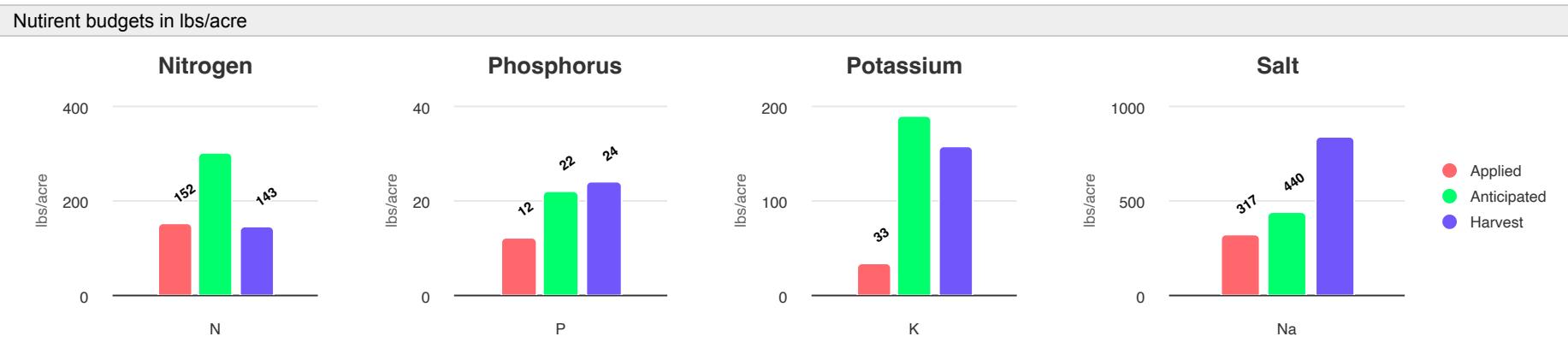
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	130.12	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	34.56	30,543.07	40.08	244.57
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	164.68	30,543.07	40.08	244.57
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	234.58	63.50	725.76	0.00
Nutrient balance	-69.90	30,479.57	-685.68	244.57
Applied to removed ratio	0.70	480.96	0.06	0.00

Fresh water applied
15,065,197.79 gallons
554.80 acre-inches
27.74 inches/acre

Process wastewater applied
136,314.51 gallons
5.02 acre-inches
0.25 inches/acre

Total Harvests for the crop
1 harvests

Field name: LV12 Crop: Sorghum Plant date: 04/02/2023



	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	109.74	3.46	3.46	0.00
Dry manure	28.36	8.16	29.75	316.96
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	152.10	11.62	33.21	316.96
Anticipated crop nutrient removal	299.20	22.00	189.20	440.00
Actual crop nutrient removal	142.71	23.72	156.49	834.60
Nutrient balance	9.39	-12.10	-123.28	-517.64
Applied to removed ratio	1.07	0.49	0.21	0.38

Fresh water applied		
38,988,665.80	gallons	
1,435.82	acre-inches	
35.02	inches/acre	

Process wastewater applied		
0.00	gallons	
0.00	acre-inches	
0.00	inches/acre	

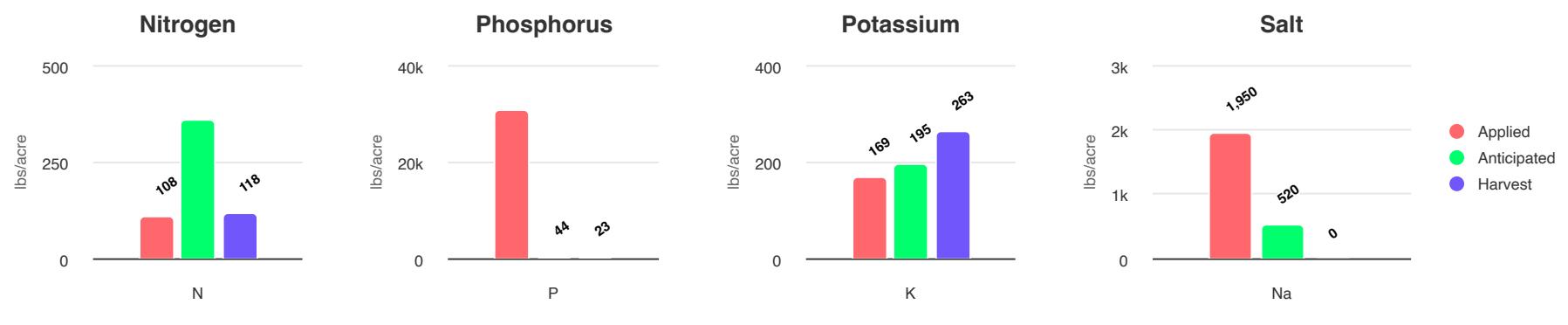
Total Harvests for the crop		
1	harvests	

Field name: LV12

Crop: Triticale

Plant date: 10/20/2022

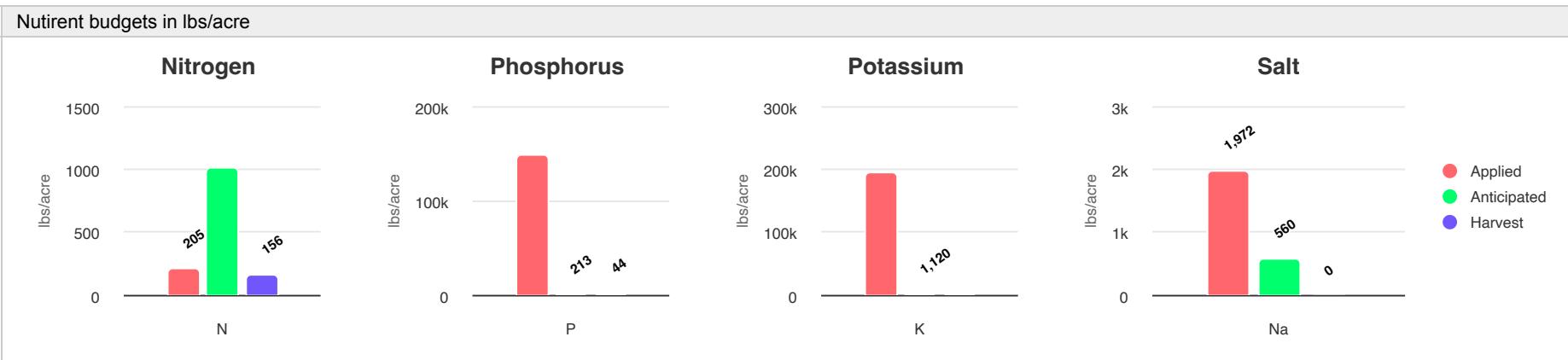
Nutrient budgets in lbs/acre



	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	6.25	0.00	0.00	0.00
Dry manure	66.99	30.98	129.31	1,705.20
Process wastewater	34.56	30,543.07	40.08	244.57
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	107.80	30,574.05	169.39	1,949.77
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	118.12	22.64	263.16	0.00
Nutrient balance	-10.32	30,551.40	-93.77	1,949.77
Applied to removed ratio	0.91	1,350.21	0.64	0.00

Fresh water applied	
32,542,510.51	gallons
1,198.43	acre-inches
29.23	inches/acre
Process wastewater applied	
279,444.74	gallons
10.29	acre-inches
0.25	inches/acre
Total Harvests for the crop	
1	harvests

Field name: LV2 Crop: Corn Silage Plant date: 05/21/2023



	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	43.45	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	144.42	144,342.18	152.72	1,075.91
Fresh water	3.48	4,480.61	194,007.98	896.11
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	205.35	148,828.55	194,166.46	1,972.02
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	156.42	43.61	413.25	0.00
Nutrient balance	48.93	148,784.94	193,753.21	1,972.02
Applied to removed ratio	1.31	3,412.43	469.85	0.00

Fresh water applied

47,620,314.51	gallons
1,753.69	acre-inches
42.37	inches/acre

Process wastewater applied

2,012,933.32	gallons
74.13	acre-inches
1.79	inches/acre

Total Harvests for the crop

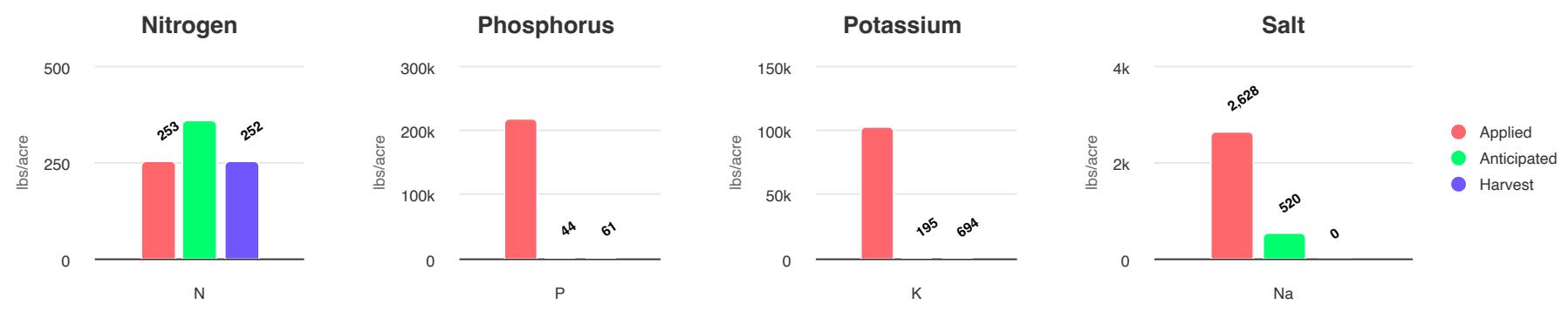
1	harvests
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Field name: LV2

Crop: Triticale

Plant date: 10/20/2022

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	6.25	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	244.30	212,519.39	107.58	1,790.77
Fresh water	2.74	3,657.36	102,785.06	837.61
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	253.29	216,176.75	102,892.64	2,628.38
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	251.88	60.84	693.58	0.00
Nutrient balance	1.41	216,115.91	102,199.06	2,628.38
Applied to removed ratio	1.01	3,553.20	148.35	0.00

Fresh water applied	
31,891,113.19	gallons
1,174.44	acre-inches
28.38	inches/acre

Process wastewater applied	
2,138,811.82	gallons
78.77	acre-inches
1.90	inches/acre

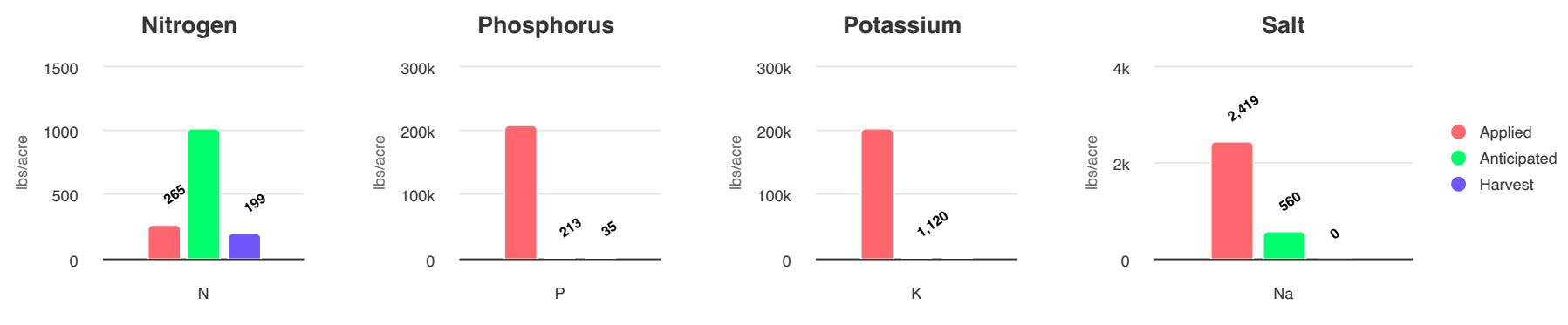
Total Harvests for the crop
1 harvests

Field name: LV3

Crop: Corn Silage

Plant date: 05/21/2023

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	43.45	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	204.34	203,505.84	214.52	1,517.23
Fresh water	3.31	4,922.25	201,074.77	902.22
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	265.10	208,433.85	201,295.05	2,419.45
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	198.69	34.82	316.24	0.00
Nutrient balance	66.41	208,399.03	200,978.81	2,419.45
Applied to removed ratio	1.33	5,985.30	636.53	0.00

Fresh water applied

31,593,209.75	gallons
1,163.47	acre-inches
43.09	inches/acre

Process wastewater applied

1,854,909.25	gallons
68.31	acre-inches
2.53	inches/acre

Total Harvests for the crop

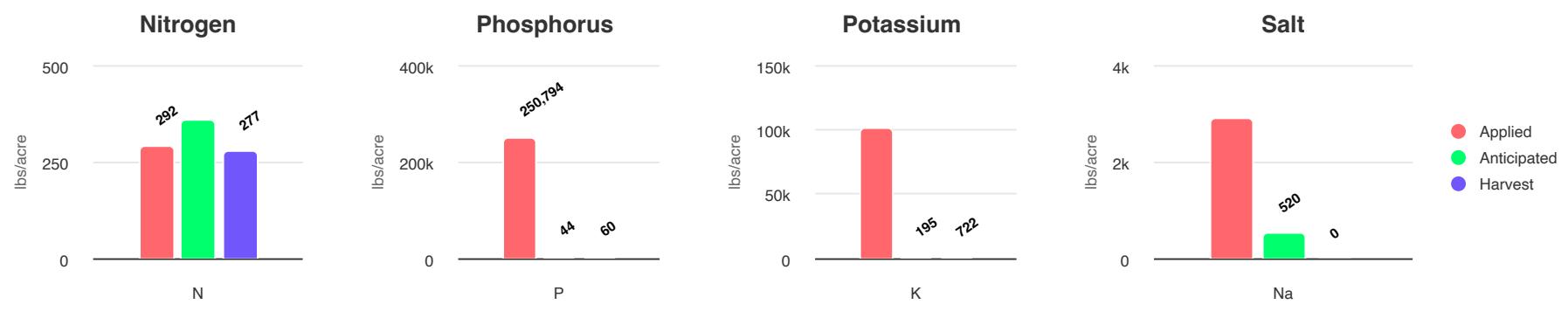
1	harvests
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Field name: LV3

Crop: Triticale

Plant date: 10/20/2022

Nutrient budgets in lbs/acre



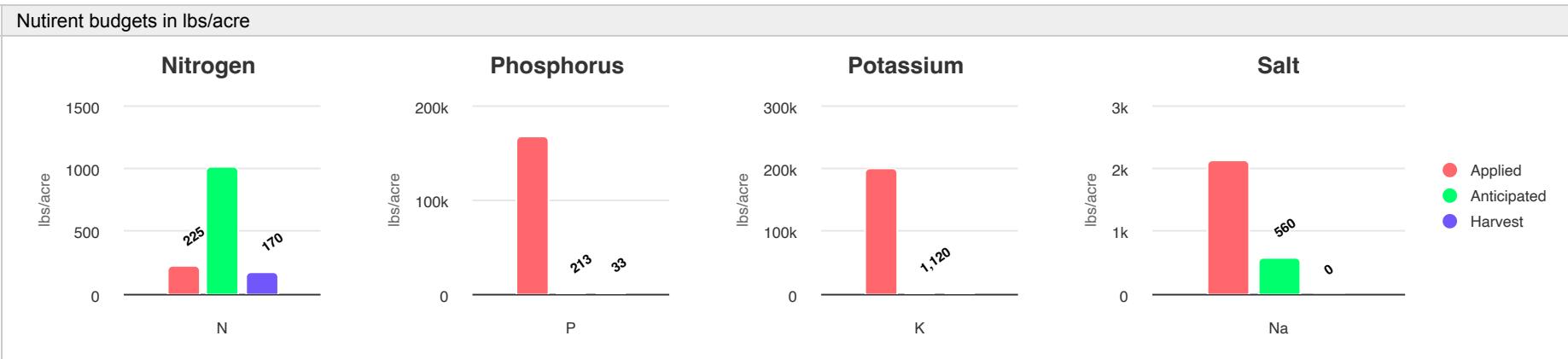
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	6.25	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	283.66	246,987.00	136.67	2,075.15
Fresh water	2.58	3,806.92	101,175.36	820.70
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	292.49	250,793.92	101,312.03	2,895.85
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	276.62	59.98	722.16	0.00
Nutrient balance	15.87	250,733.94	100,589.87	2,895.85
Applied to removed ratio	1.06	4,181.57	140.29	0.00

Fresh water applied
20,301,358.59 gallons
747.63 acre-inches
27.69 inches/acre

Process wastewater applied
1,613,697.71 gallons
59.43 acre-inches
2.20 inches/acre

Total Harvests for the crop
1 harvests

Field name: LV4 Crop: Corn Silage Plant date: 05/21/2023



	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	43.45	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	164.03	162,354.36	170.05	1,210.85
Fresh water	3.40	4,750.15	198,981.04	904.35
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	224.88	167,110.27	199,156.85	2,115.20
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	169.81	33.20	291.64	0.00
Nutrient balance	55.07	167,077.07	198,865.21	2,115.20
Applied to removed ratio	1.32	5,033.93	682.88	0.00

Fresh water applied		
52,648,017.46	gallons	
1,938.85	acre-inches	
43.00	inches/acre	

Process wastewater applied		
2,479,383.16	gallons	
91.31	acre-inches	
2.03	inches/acre	

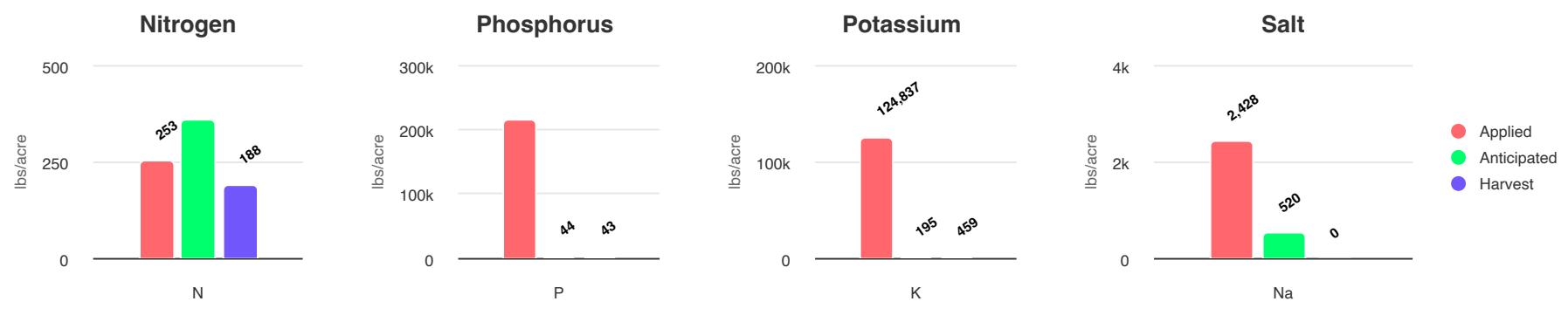
Total Harvests for the crop		
1	harvests	

Field name: LV4

Crop: Triticale

Plant date: 10/20/2022

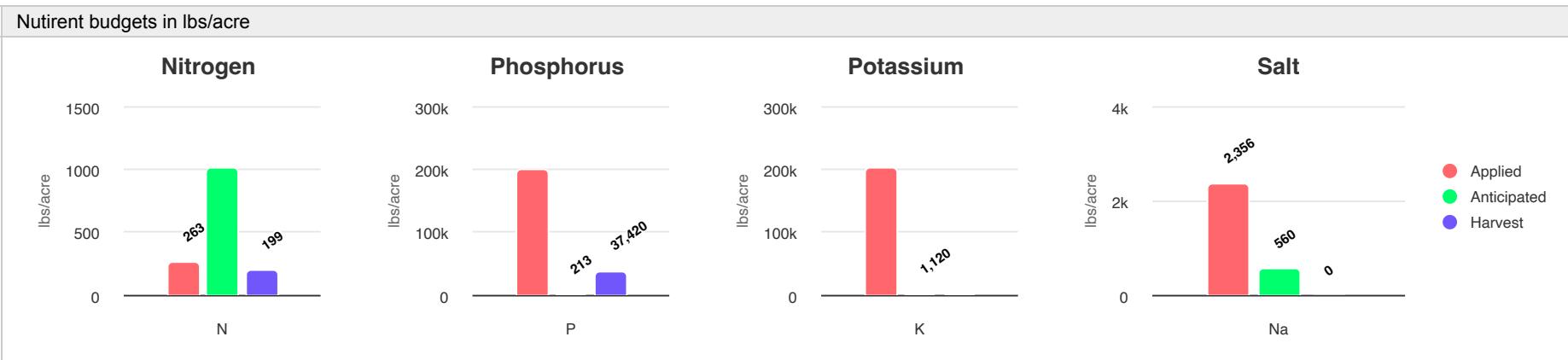
Nutrient budgets in lbs/acre



	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	6.25	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	244.30	212,519.39	107.58	1,790.77
Fresh water	2.43	2,542.48	124,729.10	636.74
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	252.98	215,061.87	124,836.68	2,427.51
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	188.14	43.06	458.64	0.00
Nutrient balance	64.84	215,018.81	124,378.04	2,427.51
Applied to removed ratio	1.34	4,994.93	272.19	0.00

Fresh water applied		
34,074,682.93	gallons	
1,254.85	acre-inches	
27.83	inches/acre	
Process wastewater applied		
2,330,007.89	gallons	
85.81	acre-inches	
1.90	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: LV5 Crop: Corn Silage Plant date: 05/21/2023



	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	43.45	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	201.96	195,184.98	199.24	1,457.70
Fresh water	3.25	5,000.44	201,646.19	898.68
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	262.66	200,191.18	201,851.19	2,356.38
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	198.85	37,419.90	275.99	0.00
Nutrient balance	63.81	162,771.28	201,575.20	2,356.38
Applied to removed ratio	1.32	5.35	731.38	0.00

Fresh water applied

83,393,218.31	gallons
3,071.09	acre-inches
43.02	inches/acre

Process wastewater applied

4,779,780.84	gallons
176.02	acre-inches
2.47	inches/acre

Total Harvests for the crop

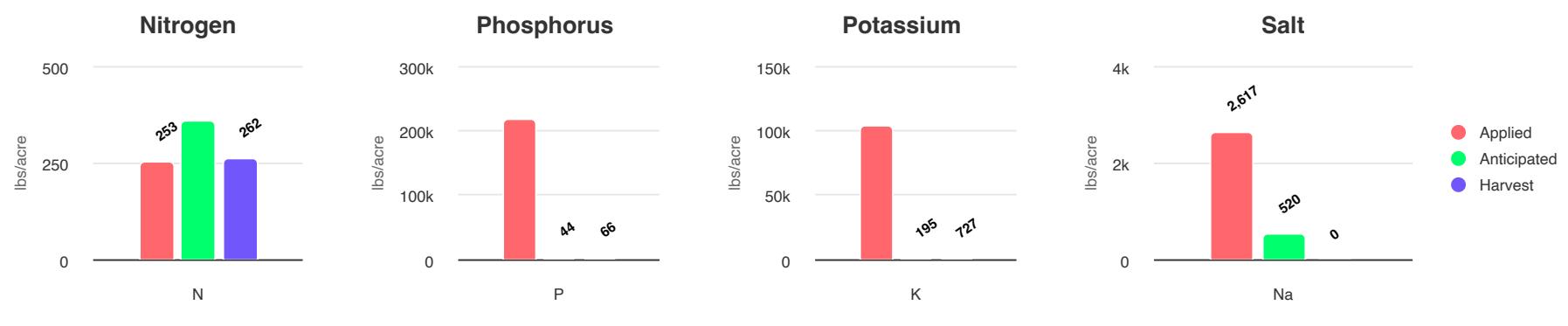
1	harvests
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Field name: LV5

Crop: Triticale

Plant date: 10/20/2022

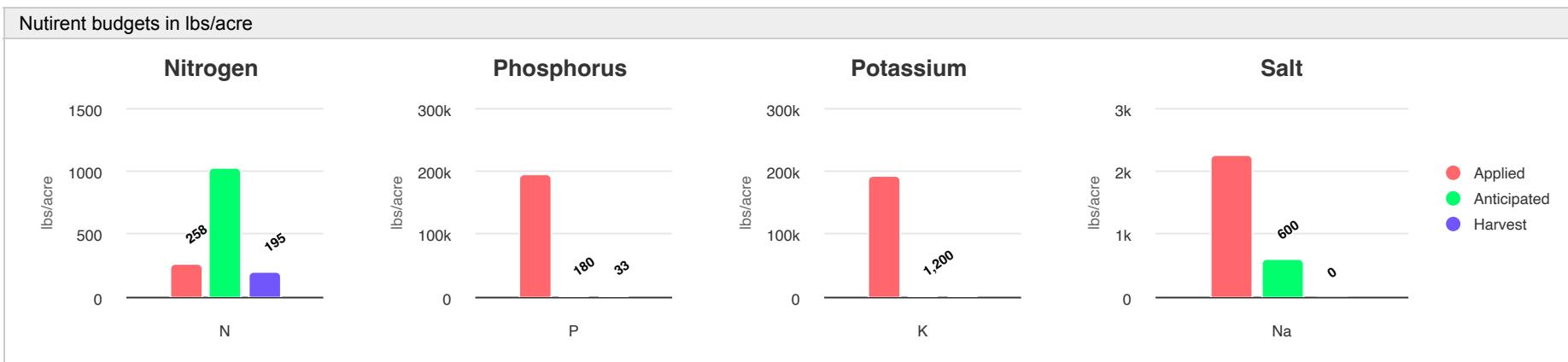
Nutrient budgets in lbs/acre



	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	6.25	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	244.30	212,519.39	107.58	1,790.77
Fresh water	2.62	3,779.73	103,413.27	826.08
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	253.17	216,299.12	103,520.85	2,616.85
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	261.84	66.40	726.62	0.00
Nutrient balance	-8.67	216,232.72	102,794.23	2,616.85
Applied to removed ratio	0.97	3,257.60	142.47	0.00

Fresh water applied
54,436,392.55 gallons
2,004.71 acre-inches
28.09 inches/acre
Process wastewater applied
3,688,533.08 gallons
135.84 acre-inches
1.90 inches/acre
Total Harvests for the crop
1 harvests

Field name: LV6 Crop: Corn, Early Silage Plant date: 05/21/2023



	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	43.45	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	197.55	190,216.95	193.38	1,420.90
Fresh water	2.90	4,949.90	191,705.32	835.72
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	257.90	195,172.61	191,904.46	2,256.62
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	195.12	33.20	335.88	0.00
Nutrient balance	62.78	195,139.41	191,568.58	2,256.62
Applied to removed ratio	1.32	5,879.51	571.35	0.00

Fresh water applied		
78,171,804.79	gallons	
2,878.80	acre-inches	
40.33	inches/acre	

Process wastewater applied		
4,668,015.04	gallons	
171.91	acre-inches	
2.41	inches/acre	

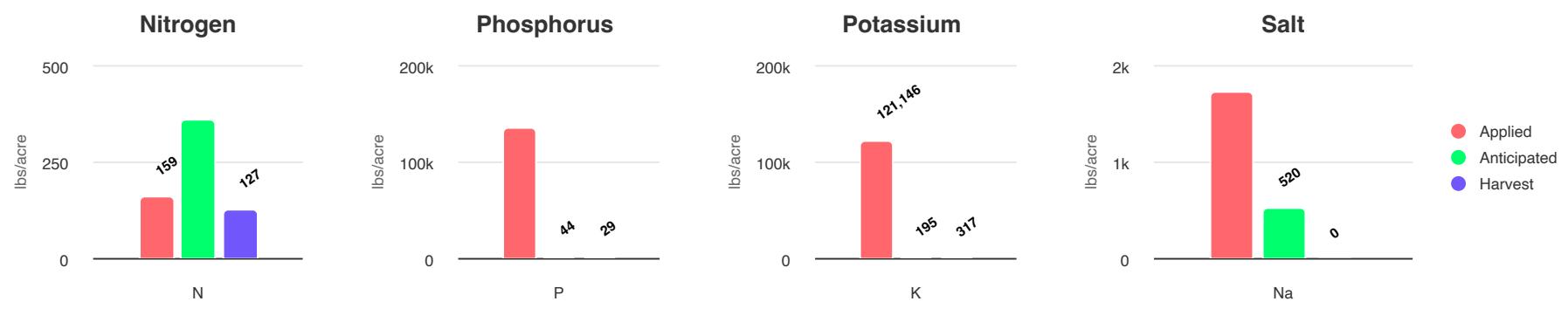
Total Harvests for the crop		
1	harvests	

Field name: LV6

Crop: Triticale

Plant date: 10/20/2022

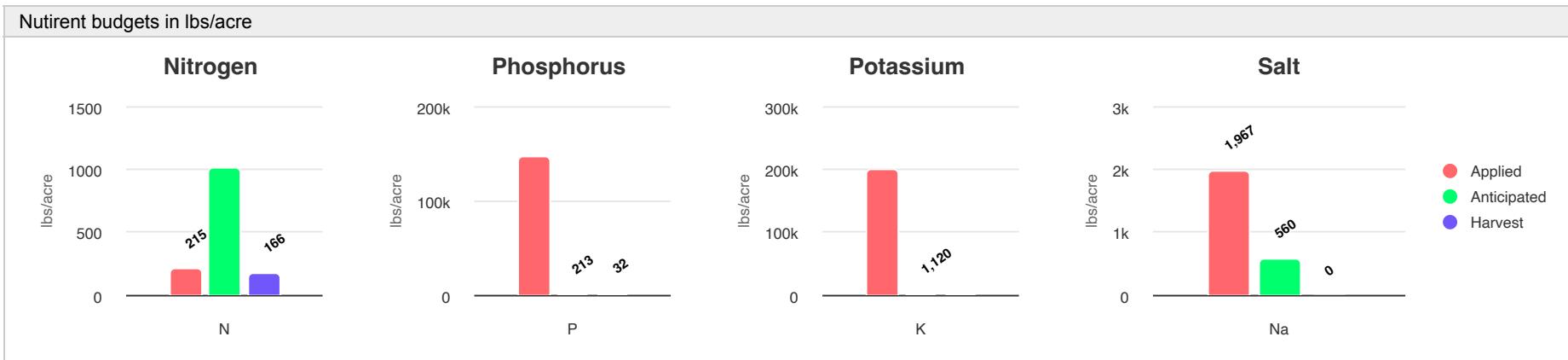
Nutrient budgets in lbs/acre



	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	6.25	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	150.77	131,668.52	92.94	1,095.83
Fresh water	2.40	2,433.71	121,052.74	620.82
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	159.42	134,102.23	121,145.68	1,716.65
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	126.69	29.28	316.73	0.00
Nutrient balance	32.73	134,072.95	120,828.95	1,716.65
Applied to removed ratio	1.26	4,579.62	382.49	0.00

Fresh water applied
52,563,632.77 gallons
1,935.74 acre-inches
27.12 inches/acre
Process wastewater applied
2,239,018.76 gallons
82.46 acre-inches
1.15 inches/acre
Total Harvests for the crop
1 harvests

Field name: LV7 Crop: Corn Silage Plant date: 06/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.45	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	154.35	141,491.07	135.79	1,060.02
Fresh water	3.40	4,784.25	199,840.06	906.93
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	215.20	146,281.08	199,981.61	1,966.95
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	166.03	32.33	226.46	0.00
Nutrient balance	49.17	146,248.75	199,755.15	1,966.95
Applied to removed ratio	1.30	4,524.11	883.09	0.00

Fresh water applied
149,867,443.54 gallons
5,519.11 acre-inches
43.14 inches/acre

Process wastewater applied
6,391,380.15 gallons
235.37 acre-inches
1.84 inches/acre

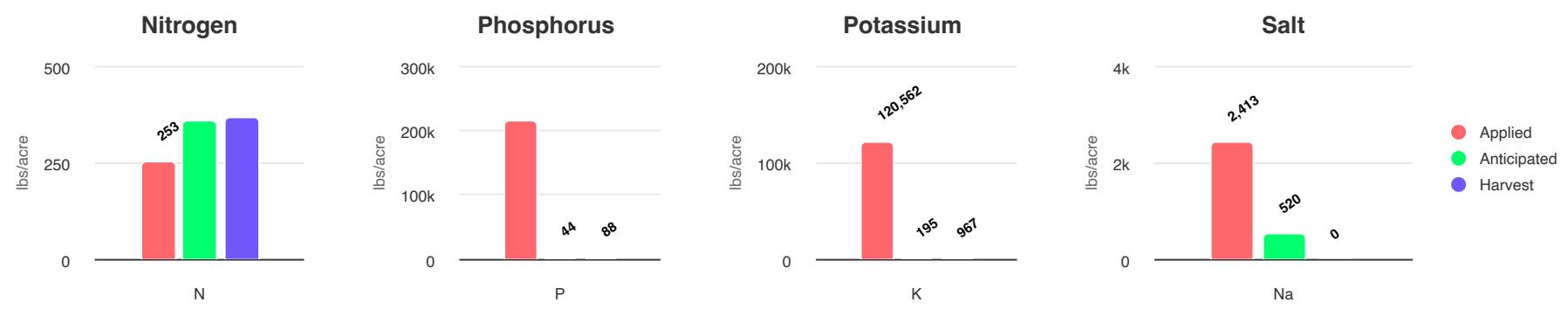
Total Harvests for the crop
1 harvests

Field name: LV7

Crop: Triticale

Plant date: 10/30/2022

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	6.25	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	244.30	212,519.39	107.58	1,790.77
Fresh water	2.46	2,365.74	120,454.06	622.45
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	253.01	214,885.13	120,561.64	2,413.22
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	365.03	88.34	966.74	0.00
Nutrient balance	-112.02	214,796.79	119,594.90	2,413.22
Applied to removed ratio	0.69	2,432.47	124.71	0.00

Fresh water applied

94,324,958.16	gallons
3,473.67	acre-inches
27.15	inches/acre

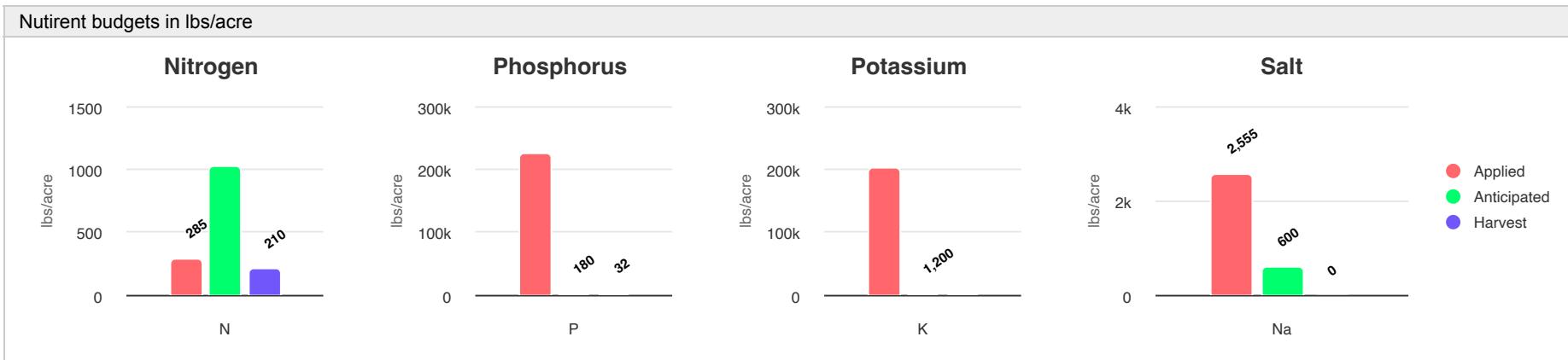
Process wastewater applied

6,610,215.22	gallons
243.43	acre-inches
1.90	inches/acre

Total Harvests for the crop

1	harvests
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Field name: LV8 Crop: Corn, Early Silage Plant date: 05/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.45	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	224.51	220,539.09	229.13	1,645.51
Fresh water	3.37	4,829.68	200,826.26	909.34
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	285.33	225,374.53	201,061.15	2,554.85
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	210.32	32.18	217.16	0.00
Nutrient balance	75.01	225,342.35	200,843.99	2,554.85
Applied to removed ratio	1.36	7,003.17	925.85	0.00

Fresh water applied

147,926,261.30	gallons
5,447.62	acre-inches
43.29	inches/acre

Process wastewater applied

9,437,267.54	gallons
347.54	acre-inches
2.76	inches/acre

Total Harvests for the crop

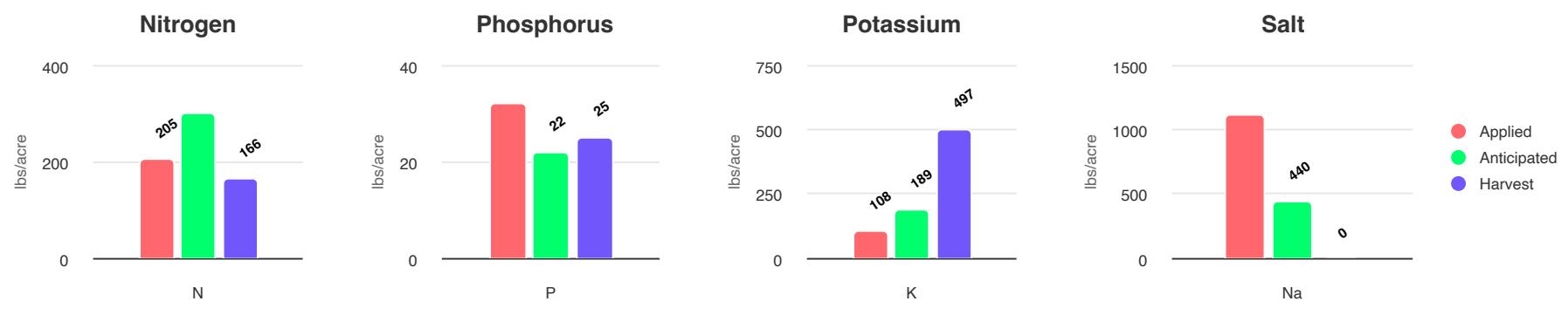
1	harvests
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Field name: LV9

Crop: Sorghum

Plant date: 04/02/2023

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	92.05	3.46	3.46	0.00
Dry manure	99.25	28.57	104.12	1,109.36
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	205.30	32.03	107.58	1,109.36
Anticipated crop nutrient removal	299.20	22.00	189.20	440.00
Actual crop nutrient removal	166.26	25.34	496.76	0.00
Nutrient balance	39.03	6.68	-389.18	1,109.36
Applied to removed ratio	1.23	1.26	0.22	0.00

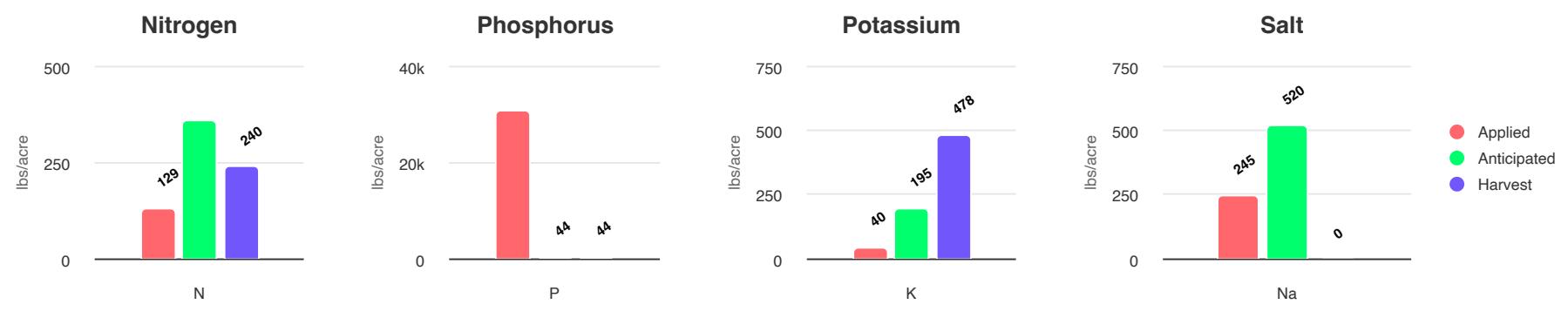
Fresh water applied		
49,251,356.54	gallons	
1,813.76	acre-inches	
34.88	inches/acre	
Process wastewater applied		
0.00	gallons	
0.00	acre-inches	
0.00	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: LV9

Crop: Triticale

Plant date: 10/20/2022

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	94.73	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	34.56	30,543.07	40.08	244.57
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	129.29	30,543.07	40.08	244.57
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	240.28	44.32	478.22	0.00
Nutrient balance	-110.99	30,498.75	-438.14	244.57
Applied to removed ratio	0.54	689.10	0.08	0.00

Fresh water applied

38,865,929.79 gallons
1,431.30 acre-inches
27.53 inches/acre

Process wastewater applied

354,417.72 gallons
13.05 acre-inches
0.25 inches/acre

Total Harvests for the crop

1 harvests

NUTRIENT ANALYSES

A. MANURE ANALYSES

T3090012A

Sample and source description name:	T3090012A									
Sample date:	03/17/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	43.4%									

	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	25,050.00	7,210.00	26,280.00	13,780.00	6,770.00	3,910.00	5,100.00	1,011.00	26,280.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3090012B

Sample and source description name:	T3090012B									
Sample date:	03/17/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	73.7%									

	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	14,850.00	1,480.00	3,550.00	5,650.00	2,850.00	1,500.00	2,100.00	409.00	3,550.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3090012C

Sample and source description name:	T3090012C									
Sample date:	03/17/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	85.9%									

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	26,400.00	6,330.00	8,260.00	8,600.00	8,100.00	3,470.00	2,800.00	690.00	8,260.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167054A

Sample and source description name:	T3167054A									
Sample date:	06/12/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	

Moisture: 16.8%

	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	19,310.00	5,200.00	7,400.00	15,980.00	8,540.00	3,200.00	2,300.00	1,096.00	7,400.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167054B

Sample and source description name: T3167054B

Sample date: 06/12/2023

Material type: Corral solids

Source of analysis:

Lab Analysis

Method of reporting:

As-is

Moisture: 77.5%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	17,210.00	1,900.00	1,840.00	1,870.00	3,040.00	1,490.00	2,300.00	192.00	1,840.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167054C

Sample and source description name: T3167054C

Sample date: 06/12/2023

Material type: Corral solids

Source of analysis:

Lab Analysis

Method of reporting:

As-is

Moisture: 81.2%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	21,760.00	8,540.00	7,890.00	11,660.00	7,130.00	4,680.00	2,500.00	934.00	7,890.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263086A

Sample and source description name: T3263086A

Sample date: 09/15/2023

Material type: Corral solids

Source of analysis:

Lab Analysis

Method of reporting:

As-is

Moisture: 31.6%

	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	19,200.00	6,040.00	34,610.00	31,020.00	9,090.00	4,110.00	9,840.00	2,007.00	34,610.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

Value	20,500.00	1,700.00	5,770.00	8,040.00	2,640.00	2,060.00	2,210.00	577.00	5,770.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362045C

Sample and source description name: T3362045C
Sample date: 12/22/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is
Moisture: 84.3%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	15,840.00	7,720.00	2,580.00	44,990.00	11,770.00	320.00	2,130.00	2,589.00	2,580.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

B. PROCESS WASTEWATER ANALYSES

T3089023A

Sample and source description name:	T3089023A
Sample date:	03/17/2023

	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	551.60	0.00	408.80	0.19	47.70	86.35	167.01	86.35	299.28	0.00	0.00	232.35	258.02	6.72	4,100.00
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

T3167004A

Sample and source description name:	T3167004A
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	336.00	0.00	299.60	0.18	37.80	445.73	69.75	56.83	186.01	0.00	0.00	177.70	163.61	4.36	2,800.00
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

T3263055A

Sample and source description name: T3263055A

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	383.60	0.00	319.20	0.08	32.40	277.97	45.61	41.79	201.36	0.00	0.00	164.29	166.68	4.55	2,440.00
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

T3362075A

Sample and source description name: T3362075A				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	1,089.20	0.00	512.40	0.11	57.10	655.76	123.93	80.83	330.58	0.00	0.00	265.72	233.75	7.65	5,360.00
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

Dairy Well

T3054004A

Sample and source description name: T3054004A				Material type: Process wastewater				Source of analysis:				Lab Analysis		pH:	0
	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	2.94	0.00	0.14	2.78	0.00	55.96	0.00	0.00	45.75	13.89	0.33	450.00			
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10			

DAIRY WELL TROUGH

T3054004B

Sample and source description name: T3054004B				Material type: Process wastewater				Source of analysis:				Lab Analysis		pH:	0
	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	2.94	0.00	0.14	2.78	0.00	55.96	0.00	0.00	45.75	13.89	0.33	450.00			
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10			

Value	2.92	0.00	0.12	2.81	0.00	58.92	0.00	0.00	49.60	14.45	0.33	415.00
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 - Kern Delta

T3362072C-178-183

Sample and source description name: T3362072C-178-183

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	5.64	0.00	0.04	16.51	6.29	23.76	0.00	0.00	23.77	27.71	0.28	80.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

Dairy Well

T3362068A

Sample and source description name: T3362068A

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	0.12	0.00	0.12	3.23	0.01	74.94	0.00	0.00	49.22	12.18	0.33	125.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

W4

T3362068B

Sample and source description name:

T3362068B

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	4.06	0.00	1.26	11.58	0.10	65.92	0.00	0.00	77.73	22.45	0.37	130.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

P10

T3362068C

Sample and source description name:

T3362068C

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	0.57	0.00	0.57	8.36	0.06	37.43	0.00	0.00	36.23	20.15	0.22	35.00
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

LV1

25699_1

Sample
description:

25699_1

Sample date:

04/26/2024

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	1.07	0.00	0.00	0.00	0.67	3.46	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

LV2

25959_1

Sample description:	25959_1						
Sample date:	04/30/2024	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	68.68	0.00	0.00	0.00	1.66	4.64	

LV3

25959_2

Sample description:	25959_2						
Sample date:	04/30/2024	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	81.48	0.00	0.00	0.00	2.04	3.26	

LV4

25959_3

Sample description:	25959_3						
Sample date:	04/30/2024	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	69.46	0.00	0.00	0.00	2.16	2.67	

LV5

26418_1

Sample description:	26418_1						
Sample date:	05/06/2024	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	66.11	0.00	0.00	0.00	2.51	2.29	

LV6

26418_2

Sample description:	26418_2						
Sample date:	05/06/2024	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	36.07	0.00	0.00	0.00	1.09	1.23	

LV7

25959_4

Sample description:	25959_4						
Sample date:	04/30/2024	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	48.02	0.00	0.00	0.00	1.60	2.99	

LV8

26418_3

Sample description:	26418_3						
Sample date:	05/06/2024	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	60.48	0.00	0.00	0.00	1.64	3.72	

LV9							
5206_3							
Sample description:	5206_3						
Sample date:	10/28/2022						
Source of analysis:	Lab Analysis						
	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	53.11	0.00	0.00	0.00	2.63	3.39	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

LV12							
69946_2							
Sample description:	69946_2						
Sample date:	09/10/2020						
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	7.28	0.00	0.00	0.00	2.03	4.13	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

LV10
5206_4

Sample description:	5206_4						
Sample date:	10/28/2022	Source of analysis: Lab Analysis					
	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	49.91	0.00	0.00	0.00	5.49	3.47	

LV11

Sample description:	5562_7						
Sample date:	11/16/2022	Source of analysis: Lab Analysis					
	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	87.75	0.00	0.00	0.00	2.01	4.09	

E. PLANT TISSUE ANALYSES

LV3 - 10/15/2022: Triticale							
T3139034C							
Sample description:	T3139034C						
Sample date:	05/16/2023	Source of analysis: Lab Analysis				Method of reporting:	Dry
Moisture:	0%						
	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)		TFS (%)	
Value	22,600.00	4,900.00	59,000.00	0.05		0.00	
DL	100.00	200.00	500.00			0.10	

LV8 - 05/15/2023: Corn, Early Silage

T3342012B

Sample
description: T3342012B

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	16,600.00	2,540.00	17,140.00	90.00	0.00
DL	100.00	200.00	500.00		0.10

LV4 - 10/15/2022: Triticale

T3139034D

Sample
description: T3139034D

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	20,100.00	4,600.00	49,000.00	0.02	0.00
DL	100.00	200.00	500.00		0.10

LV12 - 10/15/2022: Triticale

T3139035F

Sample
description: T3139035F

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	19,300.00	3,700.00	43,000.00	0.39	0.00
DL	100.00	200.00	500.00		0.10

LV6 - 10/15/2022: Tricale

T3139034F

Sample
description: T3139034F

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	21,200.00	4,900.00	53,000.00	0.03	0.00
DL	100.00	200.00	500.00		0.10

LV9 - 10/15/2022: Tricale

T3139036A

Sample
description: T3139036A

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	20,600.00	3,800.00	41,000.00	0.26	0.00
DL	100.00	200.00	500.00		0.10

LV2 - 10/15/2022: Triticale

T3139034B

Sample
description: T3139034B

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	20,700.00	5,000.00	57,000.00	0.04	0.00
DL	100.00	200.00	500.00		0.10

LV11 - 10/15/2022: Triticale

T3139035E

Sample
description: T3139035E

Sample date: 05/16/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	18,100.00	4,900.00	56,000.00	0.38	0.00
DL	100.00	200.00	500.00		0.10

LV5 - 10/15/2022: Triticale

T3139034E

Sample
description: T3139034E

Sample date: 05/16/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	20,900.00	5,300.00	58,000.00	0.04	0.00
DL	100.00	200.00	500.00		0.10

LV10 - 10/15/2022: Triticale

T3139035D

Sample
description: T3139035D

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	20,600.00	4,600.00	52,000.00	0.21	0.00
DL	100.00	200.00	500.00		0.10

LV1 - 10/15/2022: Triticale

T3139034A

Sample
description: T3139034A

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	21,200.00	3,700.00	45,000.00	0.03	0.00
DL	100.00	200.00	500.00		0.10

LV3 - 05/10/2023: Corn Silage

T3342011C

Sample
description: T3342011C

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	17,630.00	3,090.00	28,060.00	180.00	0.00
DL	100.00	200.00	500.00		0.10

LV4 - 05/10/2023: Corn Silage

T3342011D

Sample
description: T3342011D

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	15,960.00	3,120.00	27,410.00	160.00	0.00
DL	100.00	200.00	500.00		0.10

LV6 - 05/10/2023: Corn, Early Silage

T3342011F

Sample
description: T3342011F

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	15,400.00	2,620.00	26,510.00	160.00	0.00
DL	100.00	200.00	500.00		0.10

LV2 - 05/10/2023: Corn Silage

T3342011B

Sample
description: T3342011B

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	11,620.00	3,240.00	30,700.00	310.00	0.00
DL	100.00	200.00	500.00		0.10

LV5 - 05/10/2023: Corn Silage

T3342011E

Sample
description: T3342011E

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	16,420.00	3,090,000.00	22,790.00	170.00	0.00
DL	100.00	200.00	500.00		0.10

LV1 - 05/10/2023: Corn Silage

T3342011A

Sample
description: T3342011A

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	16,920.00	3,630.00	26,660.00	160.00	0.00
DL	100.00	200.00	500.00		0.10

LV7 - 06/16/2023: Corn Silage

T3342012A

Sample
description: T3342012A

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

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	13,710.00	2,670.00	18,700.00	90.00	0.00
DL	100.00	200.00	500.00		0.10

LV10 - 04/02/2023: Sorghum

ATS-H7261009B

Sample
description: ATS-H7261009B

Sample date: 10/15/2023 Source of analysis: Lab Analysis Method of reporting: Dry
Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	15,800.00	3,500.00	24,900.00	0.24	0.00
DL	100.00	200.00	500.00		0.10

LV11 - 04/02/2023: Sorghum

ATS-15120014F

Sample
description: ATS-15120014F

Sample date: 08/01/2023

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	15,700.00	3,190.00	29,800.00	0.02	6.59
DL	100.00	200.00	500.00		0.10

LV12 - 04/02/2023: Sorghum

ATS-16100183B

Sample
description: ATS-16100183B

Sample date: 08/01/2023

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	14,500.00	2,410.00	15,900.00	0.28	8.48
DL	100.00	200.00	500.00		0.10

LV9 - 04/02/2023: Sorghum

ATS-T0330026C

Sample description: ATS-T0330026C
 Sample date: 10/25/2023 Source of analysis: Lab Analysis Method of reporting: Dry
 Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	16,400.00	2,500.00	49,000.00	0.04	0.00
DL	100.00	200.00	500.00		0.10

LV7 - 10/15/2022: Tricale

T3139035A

Sample description: T3139035A
 Sample date: 05/16/2023 Source of analysis: Lab Analysis Method of reporting: Dry
 Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	21,900.00	5,300.00	58,000.00	0.03	0.00
DL	100.00	200.00	500.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

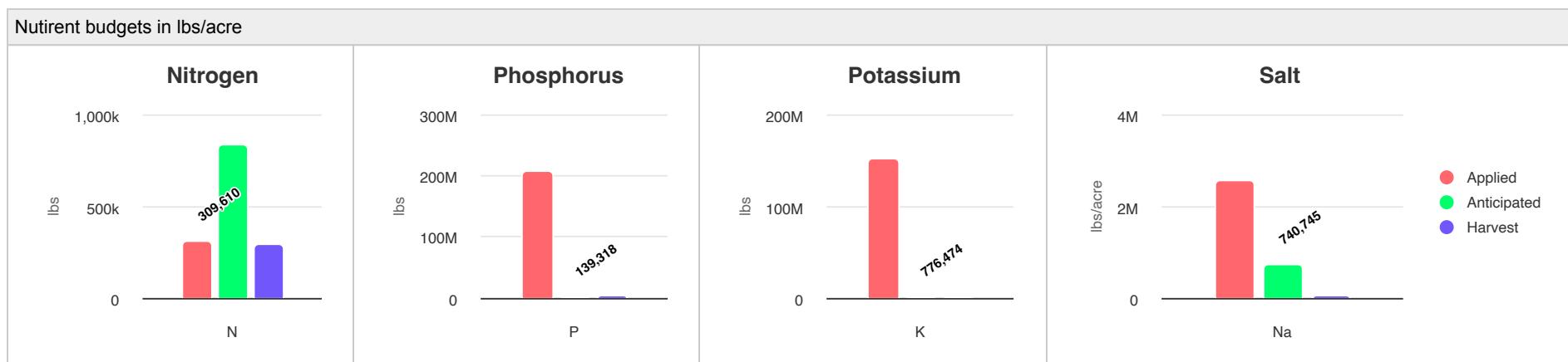
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

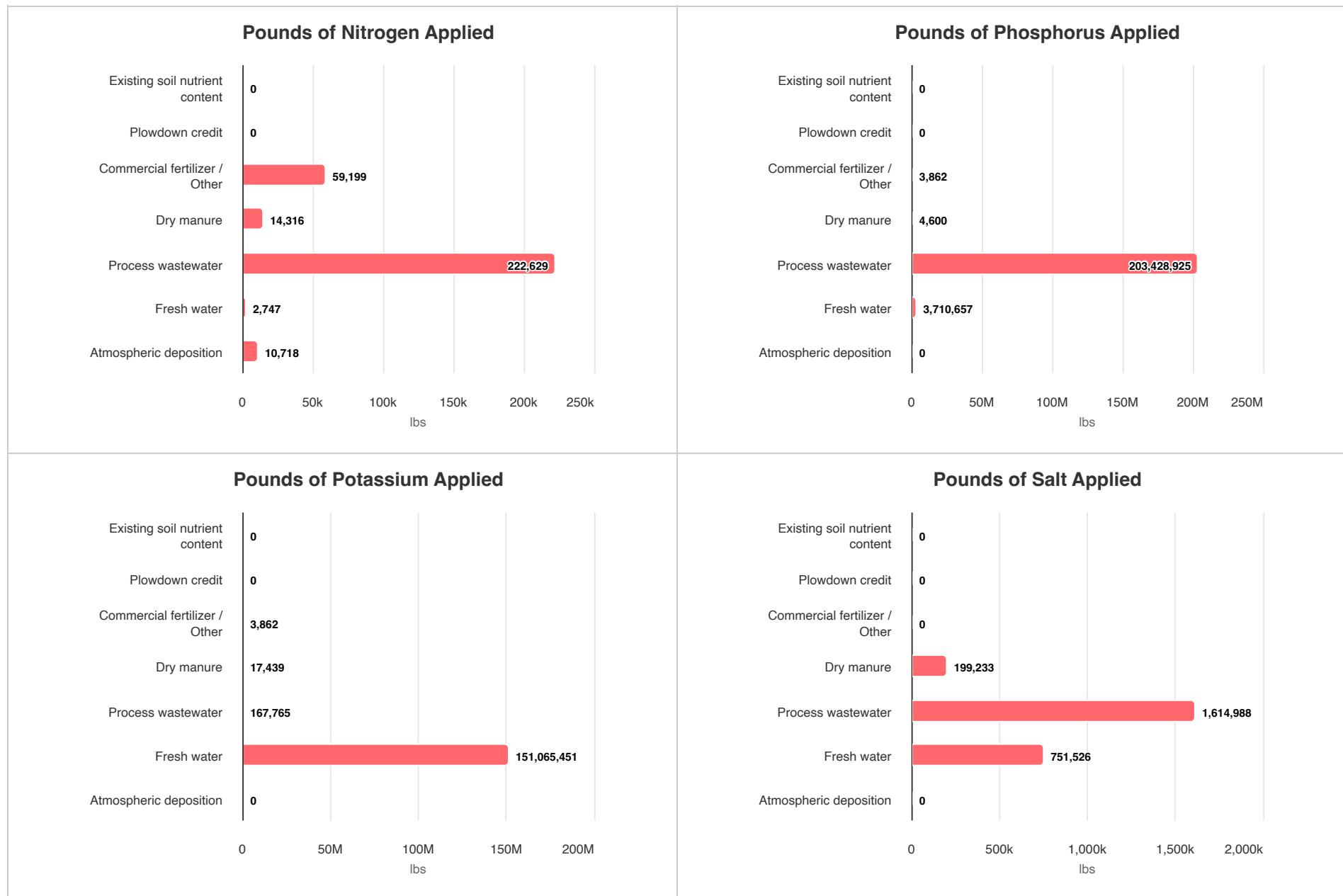
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

	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	59,199.38	3,862.46	3,862.46	0.00
Dry manure	14,316.08	4,600.07	17,439.33	0.00
Process wastewater	222,629.01	203,428,924.62	167,765.43	244.57
Fresh water	2,747.00	3,710,656.74	151,065,451.38	0.00
Atmospheric deposition	10,718.40	0.00	0.00	0.00
Total nutrients applied	309,609.88	207,148,043.89	151,254,518.59	2,565,746.30
Anticipated crop nutrient removal	834,946.51	139,318.30	776,474.35	740,745.20
Actual crop nutrient removal	295,241.02	2,730,560.35	624,523.79	49,141.06
Nutrient balance	14,368.86	204,417,483.54	150,629,994.80	2,516,605.23
Applied to removed ratio	1.05	75.86	242.19	52.21

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

A. NOTES

Crop Specific Notes

- LV1 (**Triticale**): LOW HARVEST DUE TO TOO MUCH RAIN
- LV12 (**Triticale**): POOR HARVEST DUE TO UNLEVEL GROUND
- LV12 (**Sorghum**): POOR HARVEST DUE TO UNLEVEL GROUND

Well Specific Notes

2023 Non Op Wells: W1, P11

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

John Schoneveld

PRINT OR TYPE NAME

6/29/2024

DATE



SIGNATURE OF OPERATOR OF FACILITY

John Schoneveld

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: John Schoneveld
Facility Name: Lakeview Dairy
Facility Address: 17702 Bear Mountain BLVD
Facility City/State: Bakersfield, CA 93311

Contact:

Name: John Schoneveld
Number: (661) 203-6322

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

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

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

Manure Hauler / Processor Information:

Name: Reddi Ag
Facility Address: 13214 Eberle rd
Facility City/State: Bakersfield, CA 93313

Contact:

Name: Sid Payne
Number: 661-396-9851

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:

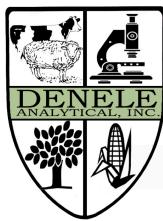
12/30/2023

Signature of Hauler:

Date:

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Apr 1, 2023 - Apr, 30 2023	10,258	ton	68 %
May 1, 2023 - May, 31 2023	8,432	ton	69 %
Aug 1, 2023 - Aug, 31 2023	8,253	ton	70 %
Sep 1, 2023 - Sep, 30 2023	6,675	ton	67 %
Oct 1, 2023 - Oct, 31 2023	4,976	ton	68 %
Total	38,594		



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

Lakeview Farms
2504 Brighton Park Dr.
Bakersfield, CA 93311

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 2/23/23 10:40 AM
SUBMITTED BY: Dominic
ANALYZED DATE: 2/27/23

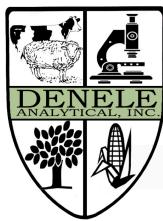
Boron (B)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well	T3054004A	Boron (B)	EPA 200.7	0.268	ppm

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



Denele Analytical, Inc.

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

Compliance Analysis Report

Customer

Lakeview Farms
2504 Brighton Park Dr.
Bakersfield, CA 93311

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 2/23/23 10:40 AM
SUBMITTED BY: Dominic
ANALYZED DATE: 2/24/23

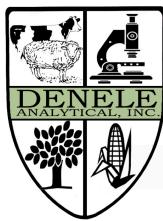
Irrigation /Ground Water (H14)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well	T3054004A	Electrical Conductivity (EC)	EPA 120.1 and	0.331	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	76.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	6.00	mg/L
		Sulfate (SO4)	EPA 375.2	45.8	mg/L
		Sodium (Na)	EPA 200.7	56.0	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	0.142	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	450	mg/L
		Calcium (Ca)	EPA 200.7	2.78	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	13.9	mg/L
		Soluble Salts (SALT-SOL)	Calculation	212	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	100	94.6 (T3054004A)	100 (T3054004A)			5.54
Calcium (Ca)	99.4					
Chloride (Cl)	97.9	99.1 (T3052051A)	108 (T3052051A)			8.09
Magnesium (Mg)	98.5					
Nitrate Nitrogen (NO3-N)	102	99.5 (T3052051A)	109 (T3052051A)			9.35
Sodium (Na)	101					
Sulfate (SO4)	102	114 (T3052051A)	116 (T3052051A)			2.41
Total Dissolved Solids (TDS)	108			175 (null)	160 (Dup)	8.96

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

Compliance Analysis Report

Customer

Lakeview Farms
2504 Brighton Park Dr.
Bakersfield, CA 93311

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 2/23/23 10:40 AM
SUBMITTED BY: Dominic
ANALYZED DATE: 3/14/23

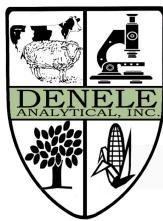
Icon Sampling Fee (ISF)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well	T3054004A	Icon Sampling Fee (ISF)	N/A	0.000	N/A

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

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Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 2/23/23 10:40 AM
SUBMITTED BY: Dominic
ANALYZED DATE: 2/24/23

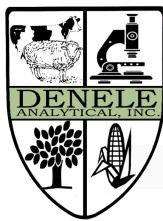
pH (pH)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well	T3054004A	pH (pH)	SM4500-H+ B-2000	8.6	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Bakersfield, CA 93312

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ANALYZED DATE: 2/24/23

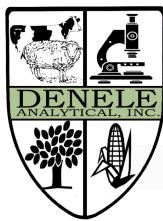
Total Nitrogen (TN)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well	T3054004A	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.94	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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PURCHASE ORDER:

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ANALYZED DATE: 2/27/23

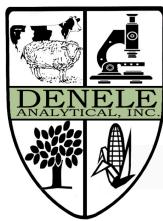
Total Phosphorus (TP)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well	T3054004A	Total Phosphorus (TP)	EPA 200.7	< 0.200	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Total Phosphorus (TP)	99.2			

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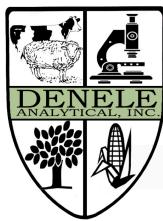
Boron (B)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well Trough	T3054004B	Boron (B)	EPA 200.7	0.277	ppm

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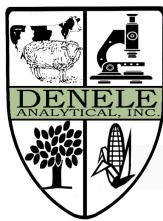
Irrigation /Ground Water (H14)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well Trough	T3054004B	Electrical Conductivity (EC)	EPA 120.1 and	0.330	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	78.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	4.00	mg/L
		Sulfate (SO4)	EPA 375.2	49.6	mg/L
		Sodium (Na)	EPA 200.7	58.9	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	415	mg/L
		Calcium (Ca)	EPA 200.7	2.81	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	14.5	mg/L
		Soluble Salts (SALT-SOL)	Calculation	211	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	100	94.6 (T3054004A)	100 (T3054004A)			5.54
Calcium (Ca)	99.4					
Chloride (Cl)	97.9	99.1 (T3052051A)	108 (T3052051A)			8.09
Magnesium (Mg)	98.5					
Nitrate Nitrogen (NO3-N)	102	99.5 (T3052051A)	109 (T3052051A)			9.35
Sodium (Na)	101					
Sulfate (SO4)	102	114 (T3052051A)	116 (T3052051A)			2.41
Total Dissolved Solids (TDS)	108			175 (null)	160 (Dup)	8.96

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Compliance Analysis Report

Customer

Lakeview Farms
2504 Brighton Park Dr.
Bakersfield, CA 93311

Grower**Consultant:**

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

PURCHASE ORDER:

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SUBMITTED BY: Dominic
ANALYZED DATE: 2/24/23

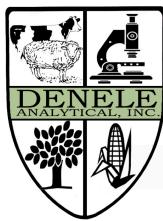
pH (pH)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well Trough	T3054004B	pH (pH)	SM4500-H+ B-2000	8.6	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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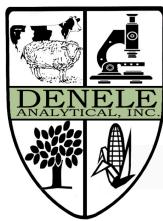
Total Nitrogen (TN)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well Trough	T3054004B	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.92	%

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

Customer

Lakeview Farms
2504 Brighton Park Dr.
Bakersfield, CA 93311

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 2/23/23 10:40 AM
SUBMITTED BY: Dominic
ANALYZED DATE: 2/27/23

Total Phosphorus (TP)

SOURCE: Tile Drain

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well Trough	T3054004B	Total Phosphorus (TP)	EPA 200.7	< 0.200	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Total Phosphorus (TP)	99.2			

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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

2/16/23

Sampled By

Dominic Patino
Lab Name

Denele

Lakeview Dairy

Ranch: Home Ranch

***Required Field Measurement

NH4-N Check here if performed

Analysis Types

W5 - Ag Suitability (Non-Compliance)

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

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

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

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

Weather Conditions

SH - Sunny & Hot

CC - Cold & Cloudy

SW - Sunny & Warm

CCL - Cold & Clear

R - Rainy

Location:

1.

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W3	CCL	56°	1

CHAIN



23-Q1

Lakeview Dairy

Dairy Well

W

Ranch: Home Ranch

Date: 2/16/23 15.8 °C

IW 35.214104, -119.203604

Location:

2.

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W3	CCL	56°	1

CHAIN



23-Q1

Lakeview Dairy 16.4 °C

DAIRY WELL TROUGH W

Ranch: Home Ranch

Date: 2/16/23

IW No Lat/Lng

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.

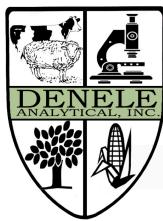
Analysis	Weather	Temp (°F)	# of Bags/Bottles

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		ICON		2/16/23	Logged in By:	Laboratory #
2nd		Denele	2-28-23 10:40			
3rd						
4th					T 3054004	



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Compliance Analysis Report

Customer

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2504 Brighton Park Dr.
Bakersfield, CA 93311

Grower**Consultant:**

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

PURCHASE ORDER:

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

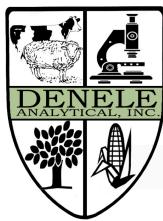
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well	T3362068A	Boron (B)	EPA 200.7	0.270	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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Compliance Analysis Report

Customer

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Bakersfield, CA 93311

Grower**Consultant:**

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

PURCHASE ORDER:

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

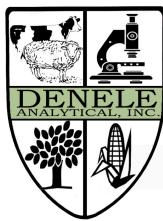
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well	T3362068A	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.334	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	80.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO4)	EPA 375.2	49.2	mg/L
		Sodium (Na)	EPA 200.7	74.9	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	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	125	mg/L
		Calcium (Ca)	EPA 200.7	3.23	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	12.2	mg/L
		Soluble Salts (SALT-SOL)	Calculation	214	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO3-N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO4)	102	111 (W4002001A)	108 (W4002001A)			3.31
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

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Compliance Analysis Report

Customer

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Bakersfield, CA 93311

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/10/24

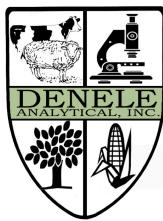
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well	T3362068A	pH (pH)	SM4500-H+ B-2000	7.8	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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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

Lakeview Farms
2504 Brighton Park Dr.
Bakersfield, CA 93311

Grower**Consultant:**

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

PURCHASE ORDER:

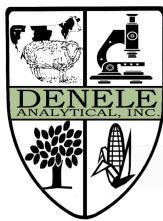
RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/4/24

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dairy Well	T3362068A	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

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

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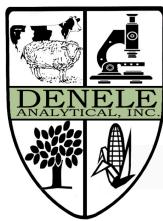
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W4	T3362068B	Boron (B)	EPA 200.7	0.140	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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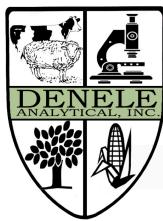
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W4	T3362068B	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.370	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	52.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO4)	EPA 375.2	77.7	mg/L
		Sodium (Na)	EPA 200.7	65.9	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	1.26	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and EPA 200.7	130	mg/L
		Calcium (Ca)	EPA 200.7	11.6	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	22.5	mg/L
		Soluble Salts (SALT-SOL)	Calculation	237	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO3-N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO4)	102	111 (W4002001A)	108 (W4002001A)			3.31
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

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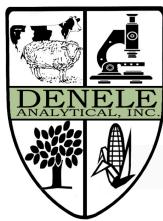
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W4	T3362068B	pH (pH)	SM4500-H+ B-2000	7.6	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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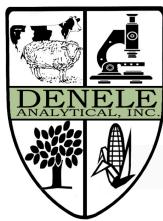
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ANALYZED DATE: 1/4/24

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W4	T3362068B	Total Nitrogen (TN)	SM 4500-NH3 D,C	4.06	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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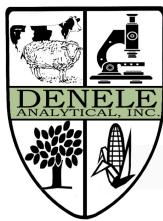
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
P10	T3362068C	Boron (B)	EPA 200.7	0.110	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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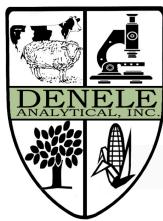
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
P10	T3362068C	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.222	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	42.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO4)	EPA 375.2	36.2	mg/L
		Sodium (Na)	EPA 200.7	37.4	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	0.571	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and EPA 200.7	35.0	mg/L
		Calcium (Ca)	EPA 200.7	8.36	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	20.2	mg/L
		Soluble Salts (SALT-SOL)	Calculation	142	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO3-N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO4)	102	111 (W4002001A)	108 (W4002001A)			3.31
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

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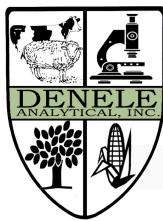
Icon Sampling Fee (ISF)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
P10	T3362068C	Icon Sampling Fee (ISF)	N/A	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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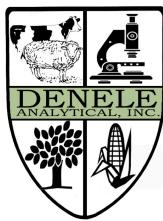
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
P10	T3362068C	pH (pH)	SM4500-H+ B-2000	7.4	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
P10	T3362068C	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

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

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Irrigation / Ground / Tile Water



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

Dominic Patino

📞 (661) 333-7776

📠 (661) 215-5168

✉️ dpatino@iconaginc.com

Date

12-27-23

Sampled By

TONY

Lab Name

Denele

Lakeview Dairy

Ranch: Union Rd Ranch

***Required Field Measurement

NH4-N Check here if performed

Analysis Types

W5 - Ag Suitability (Non-Compliance)

(W2) W1 + Ca, Mg, Na, Bicard, SO4, Cl, B

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

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

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

Weather Conditions

SH - Sunny & Hot

CC - Cold & Cloudy

SW - Sunny & Warm

CCL - Cold & Clear

R - Rainy

Location:

1.	Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles	CHAIN
W2	CC	50	1	23-01

Lakeview Dairy

Dairy Well

W

Ranch: Home Ranch

Date: 12-27-23 8:00 am

IW 35.214104, -119.203604

Location:

2.	Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles	CHAIN
				23-01

Lakeview Dairy

W4

W

Ranch: Home Ranch

Date: 12-27-23 8:00 am

IW 35.223452, -119.208041

Location:

3.	Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles	CHAIN
				23-01

Lakeview Dairy

P10

W

Ranch: Union Rd Ranch

Date: 12-27-23 6:00 AM

IW 35.234518, -119.240678

Location:

4.	Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles	Place CHAIN Label Here
				Place additional labels on sample bags/bottles

Location:

5.	Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles	Place CHAIN Label Here
				Place additional labels on sample bags/bottles

Location:

6.	Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles	Place CHAIN Label Here
				Place additional labels on sample bags/bottles

Chain of Custody Recording Log

	Signature	Company	Received Date/Time	Relinquished Date/Time	Laboratory Use Only
1st	Antonio Mera	Icon Ag		12-27-23 3:00 pm	Logged in By: Laboratory #
2nd	Domel	ICON Ag	12/28 5:30 AM	12/28 10:15 AM	
3rd	Albert Mora Jr			10-28-23 10:15	
4th	Denelle		12/28/23 12:00		T33le2068