

## DAIRY FACILITY INFORMATION

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

Western Sky Dairy

Physical address of dairy:

18501 Old River Road

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:

Regional Water Quality Control Board Basin Plan designation:

Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0184-0120-0006-0000 0184-0120-0024-0000 0184-0460-0013-0000 0184-0460-0027-0000 0295-0030-0001-0000

**B. OPERATORS**

Mark Plangenga

Operator Name: Mark Plangenga

Telephone no.: (661) 834-9199

Landline

Cellular

18501 Old River Road

Mailing Address Number and Street

Bakersfield

City

Kern

93311

County

Zip Code

**C. OWNERS**

John Calvin DeJager

Owner Name: John Calvin DeJager

Telephone no.: (661) 834-9199

Landline

Cellular

18501 Old River Road

Mailing Address Number and Street

Bakersfield

City

Kern

93311

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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	639	882	875	0	0
Number under roof	4,796	0	0	0	0	0
Maximum number	4,800	650	900	900	0	0
Average number	4,796	639	882	875	0	0
Average live weight (lbs)	1400	1450	1200	400		

Predominant milk cow breed: Holsteins  
 Average Milk Production: 82 pounds per cow per day

### B. MANURE GENERATED

Total manure excreted by the herd:	<u>156,378.07 tons per reporting period</u>		
Total nitrogen from manure:	<u>1,980,151.00 lbs per reporting period</u>	After ammonia losses (30% loss applied):	<u>1,386,105.70 lbs per reporting period</u>
Total phosphorus from manure:	<u>332,155.43 lbs per reporting period</u>		
Total potassium from manure:	<u>956,289.92 lbs per reporting period</u>		
Total salt from manure:	<u>2,405,134.65 lbs per reporting period</u>		

### C. PROCESS WASTEWATER GENERATED

Process wastewater generated:	<u>75,115,560.21 gallons</u>
Total nitrogen generated:	<u>350,901.52 lbs</u>
Total phosphorus generated:	<u>318,693,168.89 lbs</u>
Total potassium generated:	<u>470,202.59 lbs</u>
Total salt generated:	<u>3,009,039.11 lbs</u>

$$\begin{aligned}
 & 75,115,560.21 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 75,115,560.21 \text{ gallons generated}
 \end{aligned}$$

### D. FRESH WATER SOURCES

Source Description	Type
Canal - Farmers	Surface Water
Canal - Kern Delta	Surface Water
LR #1	Ground Water
LR #2	Ground Water
LR #3	Ground Water
WSD #1	Ground Water
WSD #2	Ground Water
WSD #3	Ground Water
WSD Dom 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 (%)
03/25/2023	Separator solids	6,014 tons	as-is	64.2	21,650.00	7,630.00	32,240.00	43.00
05/03/2023	Separator solids	8,674 tons	as-is	67.9	21,650.00	7,630.00	32,240.00	43.00
07/25/2023	Separator solids	4,218 tons	as-is	66.5	27,950.00	6,560.00	18,600.00	31.00
07/30/2023	Separator solids	3,154 tons	as-is	68.4	27,950.00	6,560.00	18,600.00	31.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	1,048,085.20	320,859.52	1,221,320.64	17,202,320.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	1,048,085.20	320,859.52	1,221,320.64	17,202,320.00

## APPLICATION AREA

## A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
LR-18 (1)	76.49	76.49	1	MANURE	0295-0030-0001-0000
LR-19 (3)	76.26	76.26	2	MANURE	0295-0030-0001-0000
LR-21(7)	76.95	76.95	1	NONE	0295-0030-0001-0000
LR-22(8)	78.16	78.16	2	MANURE	0295-0030-0001-0000
LR-23(6)	77.25	77.25	1	NONE	0295-0030-0001-0000
LR-25(2)	75.98	75.98	1	MANURE	0295-0030-0001-0000
WSD-1	70.82	70.96	1	BOTH	0184-0460-0027-0000
WSD-3	74.00	74.00	1	PROCESS WASTEWATER	0184-0460-0027-0000
WSD-4	38.86	39.41	2	PROCESS WASTEWATER	0184-0460-0027-0000
WSD-5B	68.10	68.00	2	PROCESS WASTEWATER	0184-0120-0006-0000
WSD-5A	54.70	55.00	1	PROCESS WASTEWATER	0184-0120-0006-0000, 0184-0120-0024-0000
WSD-6	60.27	60.27	3	PROCESS WASTEWATER	0184-0460-0013-0000
WSD-7	110.25	110.25	1	PROCESS WASTEWATER	0184-0120-0006-0000, 0184-0120-0024-0000
WSD-8	64.94	74.43	1	PROCESS WASTEWATER	0184-0460-0013-0000
WSD-9	65.61	65.61	1	PROCESS WASTEWATER	0184-0120-0006-0000, 0184-0120-0024-0000
WSD-10	34.50	34.50	1	PROCESS WASTEWATER	0184-0460-0013-0000
WSD-11	59.59	119.96	1	PROCESS WASTEWATER	0184-0460-0013-0000
WSD-12	60.46	59.50	1	BOTH	0184-0460-0013-0000
WSD-13	32.83	32.83	1	PROCESS WASTEWATER	0184-0120-0006-0000, 0184-0120-0024-0000
WSD-14B	68.04	68.04	2	PROCESS WASTEWATER	0184-0460-0013-0000
WSD-14A	71.19	71.19	1	PROCESS WASTEWATER	0184-0460-0013-0000
WSD-16	6.28	6.28	2	PROCESS WASTEWATER	0184-0460-0013-0000
WSD-17	11.14	11.14	2	PROCESS WASTEWATER	0184-0460-0013-0000
Totals for areas that were used for application	1,412.67	1,482.47	32.00		
Totals for areas that were not used for application	0.00	0.00			
Land application area totals	1,412.67	1,412.67	32.00		

**B. CROPS AND HARVESTS**

LR-18 (1)

Field Name: LR-18 (1)

**06/07/2023: Corn, Late Silage**

Crop: Corn, Late Silage      Acres planted: 76.49      Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/11/2023	1,875.92 ton	As-is		0.00	4,446.00	737.20	3,971.00	30.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	24.52	218.08	36.16	194.78	0.00

## LR-19 (3)

Field Name: LR-19 (3)

## 10/23/2022: Triticale

Crop: Triticale      Acres planted: 76.26      Plant date: 10/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/02/2023	1,432.24 ton	As-is		0.00	3,092.40	1,036.80	5,673.60	43.20	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	18.78	116.16	38.94	213.11	0.00

## 07/06/2023: Milo

Crop: Milo      Acres planted: 76.26      Plant date: 07/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/07/2023	1,289.25 ton	As-is		0.00	5,992.00	959.00	7,245.00	220.50	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	220.00	189.20	440.00
Total actual harvest content	16.91	202.60	32.43	244.97	0.00

LR-21(7)

Field Name: LR-21(7)

**01/03/2023: Alfalfa**

Crop: Alfalfa Acres planted: 76.95 Plant date: 01/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/30/2023	194.22 ton	As-is		0.00	32,505.90	2,035.50	17,608.80	558.90	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	2.52	164.09	10.28	88.89	0.00

Field Name: LR-22(8)

**10/02/2022: Triticale**

Crop: Triticale      Acres planted: 78.16      Plant date: 10/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,221.25 ton	As-is		0.00	7,092.00	982.80	6,782.40	61.20	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	15.63	221.63	30.71	211.95	0.00

**08/08/2023: Milo**

Crop: Milo      Acres planted: 78.16      Plant date: 08/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	1,455.81 ton	As-is		0.00	6,128.50	1,116.50	8,494.50	245.00	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	220.00	189.20	440.00
Total actual harvest content	18.63	228.30	41.59	316.44	0.00

LR-23(6)

Field Name: LR-23(6)

**01/05/2023: Alfalfa**

Crop: Alfalfa      Acres planted: 77.25      Plant date: 01/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/15/2023	276.71 ton	As-is		0.00	29,676.90	2,007.90	6,824.10	207.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	3.58	212.61	14.38	48.89	0.00

LR-25(2)

Field Name: LR-25(2)

**05/04/2023: Corn, Late Silage**

Crop: Corn, Late Silage      Acres planted: 75.98      Plant date: 05/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/08/2023	1,804.90 ton	As-is		0.00	4,522.00	832.20	4,077.40	60.80	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	23.75	214.84	39.54	193.72	0.00

WSD-1

Field Name: WSD-1

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

Crop: Corn, Early Silage      Acres planted: 70.96      Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/09/2023	844.92 ton	As-is		0.00	3,885.00	819.00	3,885.00	24.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	1,020.00	180.00	1,200.00	600.00
Total actual harvest content	11.91	92.52	19.50	92.52	0.00

## WSD-2

Field Name: WSD-2

## 06/05/2023: Corn Silage

Crop: Corn Silage      Acres planted: 63.4279      Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/08/2023	1,302.37 ton	As-is		0.00	3,395.00	742.00	3,955.00	45.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	20.53	139.42	30.47	162.42	0.00

## WSD-3

Field Name: WSD-3

## 10/03/2022: Triticale

Crop: Triticale      Acres planted: 74      Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/02/2023	1,661.30 ton	As-is		0.00	3,301.20	781.20	3,535.20	50.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	22.45	148.22	35.08	158.73	0.00

## 06/15/2023: Corn Silage

Crop: Corn Silage      Acres planted: 74      Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/12/2023	1,376.55 ton	As-is		0.00	3,640.00	766.50	4,144.00	28.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	18.60	135.42	28.52	154.17	0.00

## WSD-4

Field Name: WSD-4

## 11/16/2022: Triticale

Crop: Triticale      Acres planted: 39.4131      Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/14/2023	755.47 ton	As-is		0.00	3,974.40	1,202.40	5,742.00	39.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	19.17	152.36	46.10	220.13	0.00

## 05/16/2023: Corn, Early Silage

Crop: Corn, Early Silage      Acres planted: 39.4131      Plant date: 05/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/11/2023	1,036.92 ton	As-is		0.00	3,920.00	906.50	5,176.50	21.00	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	26.31	206.26	47.70	272.38	0.00

## WSD-5A

Field Name: WSD-5A

## 10/03/2022: Triticale

Crop: Triticale      Acres planted: 55      Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/31/2023	1,214.35 ton	As-is		0.00	5,205.60	968.40	6,328.80	57.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	22.08	229.87	42.76	279.47	0.00

## WSD-5B

Field Name: WSD-5B

## 11/10/2022: Triticale

Crop: Triticale      Acres planted: 68      Plant date: 11/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,501.37 ton	As-is		0.00	3,466.80	1,252.80	5,572.80	43.20	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	22.08	153.09	55.32	246.08	0.00

## WSD-5A

Field Name: WSD-5A

## 04/05/2023: Corn Silage

Crop: Corn Silage      Acres planted: 55      Plant date: 04/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/11/2023	1,236.56 ton	As-is		0.00	3,223.50	1,190.00	4,504.50	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	22.48	144.95	53.51	202.55	0.00

## WSD-5B

Field Name: WSD-5B

## 05/11/2023: Corn, Late Silage

Crop: Corn, Late Silage      Acres planted: 68      Plant date: 05/11/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/22/2023	1,528.84 ton	As-is		0.00	7,546.80	1,064.00	6,228.20	30.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	22.48	339.35	47.84	280.06	0.00

## WSD-6

Field Name: WSD-6

## 10/18/2022: Triticale

Crop: Triticale      Acres planted: 60.27      Plant date: 10/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,280.86 ton	As-is		0.00	3,420.00	1,231.20	4,867.20	43.20	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	21.25	145.36	52.33	206.88	0.00

## 04/03/2023: Corn, Late Silage

Crop: Corn, Late Silage      Acres planted: 60.27      Plant date: 04/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/14/2023	1,520.61 ton	As-is		0.00	7,603.80	1,375.60	7,869.80	34.20	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	25.23	383.69	69.41	397.11	0.00

## 08/15/2023: Milo

Crop: Milo      Acres planted: 60.27      Plant date: 08/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	920.08 ton	As-is		0.00	2,852.50	1,274.00	4,560.50	38.50	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	220.00	189.20	440.00
Total actual harvest content	15.27	87.09	38.90	139.24	0.00

Field Name: WSD-7

**04/03/2023: Corn, Late Silage**

Crop: Corn, Late Silage      Acres planted: 110.25      Plant date: 04/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/14/2023	2,521.86 ton	As-is		0.00	4,214.20	1,079.20	6,015.40	26.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	22.87	192.79	49.37	275.19	0.00

## WSD-8

Field Name: WSD-8

## 06/05/2023: Milo

Crop: Milo      Acres planted: 74.4338      Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	1,088.22 ton	As-is		0.00	6,247.50	1,078.00	8,284.50	231.00	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	220.00	189.20	440.00
Total actual harvest content	14.62	182.68	31.52	242.24	0.00

Field Name: WSD-9

**10/03/2022: Triticale**

Crop: Triticale      Acres planted: 65.61      Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/02/2023	1,295.21 ton	As-is		0.00	5,680.80	979.20	6,066.00	57.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	19.74	224.29	38.66	239.50	0.00

Field Name: WSD-10

**10/03/2022: Triticale**

Crop: Triticale Acres planted: 34.5 Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/09/2023	878.68 ton	As-is		0.00	3,549.60	817.20	3,830.40	72.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	25.47	180.81	41.63	195.11	0.00

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

Crop: Corn Silage Acres planted: 34.5 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	552.35 ton	As-is		0.00	3,675.00	780.50	3,927.00	24.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	16.01	117.67	24.99	125.74	0.00

## WSD-11

Field Name: WSD-11

## 10/03/2022: Triticale

Crop: Triticale      Acres planted: 119.964      Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/05/2023	2,816.63 ton	As-is		0.00	4,996.80	928.80	6,246.00	57.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	23.48	234.64	43.61	293.30	0.00

## 05/05/2023: Corn Silage

Crop: Corn Silage      Acres planted: 119.964      Plant date: 05/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/13/2023	1,506.75 ton	As-is		0.00	4,060.00	801.50	4,014.50	24.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	12.56	101.99	20.13	100.84	0.00

Field Name: WSD-12

**03/03/2023: Corn, Early Silage**

Crop: Corn, Early Silage      Acres planted: 59.5      Plant date: 03/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/04/2023	1,056.78 ton	As-is		0.00	3,920.00	749.00	3,598.00	21.00	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	17.76	139.25	26.61	127.81	0.00

Field Name: WSD-13

**04/05/2023: Corn, Late Silage**

Crop: Corn, Late Silage      Acres planted: 32.83      Plant date: 04/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/16/2023	661.29 ton	As-is		0.00	4,556.20	1,622.60	5,278.20	98.80	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	20.14	183.55	65.37	212.64	0.00

Field Name: WSD-14B

**10/03/2022: Triticale**

Crop: Triticale      Acres planted: 68.04      Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/31/2023	1,252.68 ton	As-is		0.00	3,808.80	846.00	3,744.00	64.80	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	18.41	140.25	31.15	137.86	0.00

Field Name: WSD-14A

**03/03/2023: Corn, Early Silage**

Crop: Corn, Early Silage      Acres planted: 71.19      Plant date: 03/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/18/2023	2,070.13 ton	As-is		0.00	3,605.00	696.50	3,699.50	21.00	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	29.08	209.66	40.51	215.16	0.00

Field Name: WSD-14B

**03/20/2023: Corn, Early Silage**

Crop: Corn, Early Silage      Acres planted: 68.04      Plant date: 03/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	959.43 ton	As-is		0.00	6,006.00	1,337.00	4,508.00	42.00	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	14.10	169.38	37.71	127.13	0.00

## WSD-16

Field Name: WSD-16

## 10/03/2022: Triticale

Crop: Triticale Acres planted: 6.28 Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/31/2023	107.82 ton	As-is		0.00	6,181.20	925.20	6,588.00	75.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	17.17	212.24	31.77	226.21	0.00

## 04/05/2023: Corn, Late Silage

Crop: Corn, Late Silage Acres planted: 6.28 Plant date: 04/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	140.65 ton	As-is		0.00	3,458.00	1,508.60	5,164.20	45.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	22.40	154.89	67.57	231.31	0.00

Field Name: WSD-17

**10/03/2022: Triticale**

Crop: Triticale      Acres planted: 11.14      Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/31/2023	237.34 ton	As-is		0.00	3,387.60	752.40	3,279.60	50.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	21.31	144.35	32.06	139.74	0.00

**04/05/2023: Corn, Early Silage**

Crop: Corn, Early Silage      Acres planted: 11.14      Plant date: 04/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/04/2023	211.05 ton	As-is		0.00	3,146.50	1,144.50	4,098.50	28.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	1,020.00	180.00	1,200.00	600.00
Total actual harvest content	18.94	119.22	43.37	155.29	0.00

## NUTRIENT BUDGET

### A. LAND APPLICATIONS

**LR-18 (1)**

Field name: LR-18 (1) Crop: Corn, Late Silage Plant date: 06/07/2023

#### 06/07/2023: Corn, Late Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/01/1203	Surface (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	207.28	48.65	137.94	2,298.96	305.96 ton
Application event totals		207.28	48.65	137.94	2,298.96	

05/07/1203	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	0.27	0.00	3.50	1,068.80	10,281,304.28 gal
Application event totals		0.27	0.00	3.50	1,068.80	

05/29/1203	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	0.27	0.00	3.53	1,079.60	10,385,156.24 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	611.92 Gal.
Application event totals		28.58	0.00	3.53	1,079.60	

06/10/1203	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	0.29	0.00	3.75	1,144.38	11,008,266.01 gal
Application event totals		0.29	0.00	3.75	1,144.38	

06/12/1203	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	382.45 Gal.

Application event totals		17.70	0.00	0.00	0.00	
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06/22/1203	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.28	0.00	3.64	1,111.99	10,696,711.12 gal
Application event totals		0.28	0.00	3.64	1,111.99	

06/27/1203	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	28.31	0.00	0.00	0.00	611.92 Gal.
Application event totals		28.31	0.00	0.00	0.00	

07/20/1203	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	0.28	0.00	3.67	1,122.78	10,800,562.09 gal
Application event totals		0.28	0.00	3.67	1,122.78	

04/24/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,070.86 Lbs
Application event totals		14.00	0.00	0.00	0.00	

## LR-19 (3)

Field name: LR-19 (3)      Crop: Milo      Plant date: 07/06/2023

## 07/06/2023: Milo

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
07/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	259.10	60.81	172.42	2,873.70	381.30 ton
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,067.64 Lbs
Application event totals		273.10	60.81	172.42	2,873.70	
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	0.01	1,200.99	29,304.24	210.17	10,975,165.55 gal
Application event totals		0.01	1,200.99	29,304.24	210.17	
08/23/2023	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	0.03	0.00	28,063.21	992.82	10,975,165.55 gal
Application event totals		0.03	0.00	28,063.21	992.82	
09/08/2023	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	0.03	0.00	26,474.73	936.62	10,353,929.39 gal
Application event totals		0.03	0.00	26,474.73	936.62	
09/26/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.03	0.00	27,004.22	955.36	10,561,007.78 gal
Application event totals		0.03	0.00	27,004.22	955.36	

## 10/23/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
11/22/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Fertilizer Application Data						
description						
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	381.30 Gal.
Application event totals		17.70	0.00	0.00	0.00	

12/20/2022	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	0.40	0.00	3.12	1,047.73	9,140,448.94 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	76.26 Gal.
Application event totals		3.54	0.00	3.12	1,047.73	

01/14/2023	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	0.03	0.00	25,844.63	914.33	10,107,505.96 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	762.60 Gal.
Application event totals		35.42	0.00	25,844.63	914.33	

02/06/2023	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	0.02	0.00	17,240.34	609.93	6,742,478.91 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	762.60 Gal.
Application event totals		35.41	0.00	17,240.34	609.93	

02/14/2023	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	3.14	0.00	0.00	0.00	76.26 Gal.
Application event totals		3.14	0.00	0.00	0.00	

03/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
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description						
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	762.60 Gal.
Well Water	Ground water	0.03	0.00	28,296.19	1,001.06	11,066,279.45 gal
Application event totals		35.42	0.00	28,296.19	1,001.06	

03/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Canal Water	Ground water	0.00	884.88	2.37

Application event totals

0.00

884.88

2.37

150.43

8,086,418.79 gal

LR-21(7)

Field name: LR-21(7)      Crop: Alfalfa      Plant date: 01/03/2023

## 01/03/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,077.30 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.03	0.00	25,415.74	899.16	10,029,706.93 <i>gal</i>
Application event totals		0.03	0.00	25,415.74	899.16	
03/23/2023	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	0.02	0.00	21,873.42	773.84	8,631,816.27 <i>gal</i>
Application event totals		0.02	0.00	21,873.42	773.84	
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
Canal Water	Ground water	0.01	1,330.38	32,461.35	232.82	12,267,584.41 <i>gal</i>
Application event totals		0.01	1,330.38	32,461.35	232.82	
07/26/2023	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	0.03	0.00	31,086.62	1,099.78	12,267,584.41 <i>gal</i>
Application event totals		0.03	0.00	31,086.62	1,099.78	
08/24/2023	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	0.03	0.00	31,086.62	1,099.78	12,267,584.41 <i>gal</i>
Application event totals		0.03	0.00	31,086.62	1,099.78	
09/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Well Water	Ground water	0.03	0.00	30,710.69	1,086.48	12,119,229.12 gal
Application event totals		0.03	0.00	30,710.69	1,086.48	
11/01/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.01	1,288.01	31,427.41	225.40	11,876,844.18 gal
Application event totals		0.01	1,288.01	31,427.41	225.40	

LR-22(8)

Field name: LR-22(8)

Crop: Milo

Plant date: 08/08/2023

**08/08/2023: Milo**

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
08/04/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Corral Solids		Corral Solids	246.01	67.93	223.70	3,585.60	468.96 ton	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	1,094.24 Lbs	
Application event totals			260.01	67.93	223.70	3,585.60		
08/24/2023		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	0.01	1,230.45	30,023.02	215.33	11,524,517.94 gal	
Application event totals			0.01	1,230.45	30,023.02	215.33		
09/09/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.80 Gal.	
Application event totals			17.70	0.00	0.00	0.00		
09/25/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well Water		Ground water	0.03	0.00	26,241.75	928.38	10,518,510.32 gal	
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.80 Gal.	
Application event totals			17.73	0.00	26,241.75	928.38		
10/05/2023		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	0.02	0.00	22,821.22	807.37	9,147,453.64 gal	
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.80 Gal.	

Application event totals		17.72	0.00	22,821.22	807.37	
10/23/2023	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	0.04	0.00	32,934.56	1,165.16	13,201,197.32 gal
Application event totals		0.04	0.00	32,934.56	1,165.16	

#### 10/02/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/01/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.80 Gal.
Application event totals		17.70	0.00	0.00	0.00	

11/29/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	26.54	0.00	0.00	0.00	586.20 Gal.
Well Water	Ground water	0.36	0.00	2.83	949.46	8,489,516.25 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	78.16 Gal.
Application event totals		30.04	0.00	2.83	949.46	

12/24/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	781.60 Gal.
Well Water	Ground water	0.37	0.00	2.92	981.98	8,780,282.36 gal
Application event totals		35.76	0.00	2.92	981.98	

01/16/2023	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
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Well Water	Ground water	0.02	0.00	17,520.97	619.86	7,022,952.35 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	781.60 Gal.
Application event totals		35.41	0.00	17,520.97	619.86	

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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	78.16 Gal.
Application event totals		3.14	0.00	0.00	0.00	

02/08/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	781.60 Gal.
Well Water	Ground water	0.02	0.00	21,693.39	767.47	8,695,387.28 gal
Application event totals		35.41	0.00	21,693.39	767.47	

03/04/2023	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
Canal Water	Ground water	0.00	1,021.30	2.73	173.62	9,565,562.37 gal
Application event totals		0.00	1,021.30	2.73	173.62	

LR-23(6)

Field name: LR-23(6)      Crop: Alfalfa      Plant date: 01/05/2023

## 01/05/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,081.50 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,250.85	3.34	212.64	11,579,130.43 <i>gal</i>
Application event totals		0.00	1,250.85	3.34	212.64	
04/27/2023	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	0.03	0.00	27,221.32	963.04	10,784,114.65 <i>gal</i>
Application event totals		0.03	0.00	27,221.32	963.04	
05/29/2023	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	0.03	0.00	28,878.63	1,021.67	11,440,684.33 <i>gal</i>
Application event totals		0.03	0.00	28,878.63	1,021.67	
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	0.03	0.00	30,181.19	1,067.75	11,956,710.41 <i>gal</i>
Application event totals		0.03	0.00	30,181.19	1,067.75	
07/26/2023	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	0.03	0.00	31,690.25	1,121.14	12,554,545.63 <i>gal</i>
Application event totals		0.03	0.00	31,690.25	1,121.14	
08/24/2023	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	0.03	0.00	31,690.25	1,121.14	12,554,545.63 gal
Application event totals		0.03	0.00	31,690.25	1,121.14	
09/25/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.01	1,301.15	31,748.10	227.70	12,044,813.10 gal
Application event totals		0.01	1,301.15	31,748.10	227.70	

LR-25(2)

Field name: LR-25(2) Crop: Corn, Late Silage Plant date: 05/04/2023

## 05/04/2023: Corn, Late Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	207.28	48.65	137.94	2,298.96	303.92 ton
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,063.72 Lbs
Application event totals		221.28	48.65	137.94	2,298.96	

05/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.03	0.00	26,474.73	936.62	10,315,913.56 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	379.90 Gal.
Application event totals		17.73	0.00	26,474.73	936.62	

06/12/2023	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	0.03	0.00	26,739.48	945.99	10,419,073.08 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	607.84 Gal.
Application event totals		28.34	0.00	26,739.48	945.99	

06/27/2023	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	0.03	0.00	27,004.22	955.36	10,522,231.63 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	607.84 Gal.
Application event totals		28.34	0.00	27,004.22	955.36	

07/12/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
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Well Water	Ground water	0.03	0.00	27,268.97	964.72	10,625,391.16 gal
Application event totals		0.03	0.00	27,268.97	964.72	
07/27/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.01	1,189.66	29,027.78	208.19	10,831,709.23 gal
Application event totals		0.01	1,189.66	29,027.78	208.19	

Field name: WSD-1      Crop: Corn, Early Silage      Plant date: 05/10/2023

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	993.44 Lbs
Application event totals		14.00	0.00	0.00	0.00	
05/06/2023	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	1,144.34	29,409.61	91.55	9,730,684.18 gal
Application event totals		0.04	1,144.34	29,409.61	91.55	
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
Well Water	Ground water	0.01	1,121.68	1.10	173.86	9,537,996.63 gal
Lagoon Water Effluent	Process wastewater	39.09	32,616.26	58.24	313.62	666,696.33 gal
Application event totals		39.10	33,737.94	59.34	487.48	
06/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,133.01	1.11	175.62	9,634,340.41 gal
Lagoon Water Effluent	Process wastewater	21.58	18,004.93	32.15	173.12	368,031.80 gal
Application event totals		21.59	19,137.94	33.26	348.74	
06/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,155.67	1.14	179.13	9,827,027.03 gal
Application event totals		0.01	1,155.67	1.14	179.13	
06/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,167.00	1.15	180.89	9,923,370.80 gal
Lagoon Water Effluent	Process wastewater	17.28	14,422.80	25.75	138.68	294,810.81 gal

Application event totals		17.29	15,589.80	26.90	319.57	
07/10/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,167.00	29,991.98	93.36	9,923,370.80 gal
Application event totals		0.04	1,167.00	29,991.98	93.36	
07/25/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	10,019,713.66 gal
Lagoon Water Effluent	Process wastewater	34.49	21,267.10	30.69	240.94	572,279.80 gal
Application event totals		34.53	22,445.43	30,313.85	335.21	

Field name: WSD-10      Crop: Corn Silage      Plant date: 05/10/2023

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
06/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	483.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

06/06/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	345.00 <i>Gal.</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	5.94	0.00	0.00	0.00	69.00 <i>Gal.</i>
Canal Water	Ground water	0.04	1,133.92	29,141.72	90.71	4,687,861.73 <i>gal</i>
Application event totals		7.90	1,139.68	29,147.48	90.71	

06/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	69.00 <i>Pt.</i>
Application event totals		0.08	0.00	0.18	0.00	

06/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,201.45	1.18	186.22	4,967,034.81 <i>gal</i>
Lagoon Water Effluent	Process wastewater	40.78	34,030.26	60.77	327.21	338,193.05 <i>gal</i>
Application event totals		40.79	35,231.71	61.95	513.43	

07/08/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,446.18	1.42	224.16	5,978,803.42 <i>gal</i>
Application event totals		0.01	1,446.18	1.42	224.16	

07/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	34.50 Gal.
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	69.00 Pt.
Application event totals		3.05	0.00	0.18	0.00	
07/31/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,418.53	1.39	219.87	5,864,511.28 gal
Lagoon Water Effluent	Process wastewater	55.75	34,371.07	49.61	389.39	449,674.96 gal
Application event totals		55.76	35,789.60	51.00	609.26	
08/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	172.50 Gal.
Canal Water	Ground water	0.06	1,605.93	41,272.45	128.47	6,639,263.46 gal
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	34.50 Gal.
Application event totals		20.73	1,605.93	41,272.45	128.47	
09/01/2023	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
Canal Water	Ground water	0.04	996.60	25,612.56	79.73	4,120,146.69 gal
Lagoon Water Effluent	Process wastewater	21.60	13,318.79	19.22	150.89	174,249.05 gal
Application event totals		21.64	14,315.39	25,631.78	230.62	

#### 10/03/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/05/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.24	0.00	0.99	304.43	4,543,590.75 gal
Application event totals		0.24	0.00	0.99	304.43	

11/02/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Well Water	Ground water	0.22	0.00	0.91
Lagoon Water Effluent	Process wastewater	52.14	45,390.75	56.57
Application event totals		52.36	45,390.75	57.48
				816.23

11/30/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Well Water	Ground water	0.21	0.00	0.85
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00
Lagoon Water Effluent	Process wastewater	79.94	69,599.15	86.74
Application event totals		83.29	69,599.15	87.59
				1,083.76

12/25/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Well Water	Ground water	0.22	0.00	0.90
Lagoon Water Effluent	Process wastewater	42.18	36,725.24	45.77
Application event totals		42.40	36,725.24	46.67
				710.59

01/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Lagoon Water Effluent	Process wastewater	48.03	41,814.51	52.11
Canal Water	Ground water	0.00	906.41	23,802.33
Application event totals		48.03	42,720.92	23,854.44
				580.72

02/08/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Canal Water	Ground water	0.00	1,071.83	28,146.25
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00
Application event totals		3.14	1,071.83	28,146.25
				101.82

03/04/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Canal Water	Ground water	0.00	1,053.70	27,670.21

Application event totals		0.00	1,053.70	27,670.21	100.10	
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Field name: WSD-11

Crop: Corn Silage

Plant date: 05/05/2023

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,679.50 Lbs
Application event totals		14.00	0.00	0.00	0.00	

05/06/2023	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	0.01	1,167.00	1.15	180.89	16,776,313.97 gal
Application event totals		0.01	1,167.00	1.15	180.89	

05/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	5.94	0.00	0.00	0.00	239.93 Gal.
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,199.64 Gal.
Application event totals		7.86	5.76	5.76	0.00	

05/27/2023	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
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	239.93 Pt.
Application event totals		0.08	0.00	0.18	0.00	

05/29/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,133.01	1.11	175.62	16,287,683.17 gal
Lagoon Water Effluent	Process wastewater	17.28	14,422.80	25.75	138.68	498,403.10 gal
Application event totals		17.29	15,555.81	26.86	314.30	

06/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	119.96 Gal.
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	599.82 Gal.
Well Water	Ground water	0.01	1,189.66	1.17	184.40	17,102,067.32 gal
Application event totals		20.68	1,189.66	1.17	184.40	

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
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	239.93 Pt.
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	119.96 Gal.
Application event totals		3.05	0.00	0.18	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
Canal Water	Ground water	0.05	1,308.63	33,631.78	104.69	18,812,274.37 gal
Lagoon Water Effluent	Process wastewater	58.18	48,547.32	86.69	466.80	1,677,631.32 gal
Application event totals		58.23	49,855.95	33,718.47	571.49	

07/20/2023	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	0.05	1,393.15	35,804.02	111.45	20,027,336.00 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	599.82 Gal.
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	119.96 Gal.
Application event totals		20.72	1,393.15	35,804.02	111.45	

08/05/2023	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	1,167.00	29,991.98	93.36	16,776,313.97 gal
Application event totals		0.04	1,167.00	29,991.98	93.36	

10/03/2022: Criticale

Application date Application method Precipitation 24 hours prior Precipitation during application Precipitation 24 hours following						
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.25	0.00	1.02	313.84	16,287,683.17 gal
Application event totals		0.25	0.00	1.02	313.84	
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
Lagoon Water Effluent	Process wastewater	53.87	46,903.77	58.46	554.81	1,110,819.96 gal
Well Water	Ground water	0.20	0.00	0.82	251.08	13,030,146.53 gal
Application event totals		54.07	46,903.77	59.28	805.89	
11/30/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	119.96 Gal.
Well Water	Ground water	0.20	0.00	0.83	254.21	13,193,023.99 gal
Lagoon Water Effluent	Process wastewater	79.94	69,599.15	86.74	823.27	1,648,313.48 gal
Application event totals		83.28	69,599.15	87.57	1,077.48	
12/25/2022	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	0.20	0.00	0.82	251.08	13,030,146.53 gal
Lagoon Water Effluent	Process wastewater	85.31	74,275.78	92.57	878.58	1,759,069.85 gal
Application event totals		85.51	74,275.78	93.39	1,129.66	
01/17/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	80.57	70,149.34	87.43	829.77	1,661,343.65 gal
Canal Water	Ground water	0.00	906.41	23,802.33	86.11	13,030,146.53 gal
Application event totals		80.57	71,055.75	23,889.76	915.88	
02/08/2023	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

NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	119.96 Gal.
Canal Water	Ground water	0.00	1,121.68	29,455.38	106.56	16,124,805.71 gal
Application event totals		3.14	1,121.68	29,455.38	106.56	

03/04/2023	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
Canal Water	Ground water	0.00	940.40	24,694.92	89.34	13,518,777.34 gal
Application event totals		0.00	940.40	24,694.92	89.34	

Field name: WSD-12      Crop: Corn, Early Silage      Plant date: 03/03/2023

**03/03/2023: Corn, Early Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
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
Corral Solids	Corral Solids	56.64	19.96	84.34	1,124.88	178.50 ton
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	833.00 Lbs
Application event totals		70.64	19.96	84.34	1,124.88	
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
Well Water	Ground water	0.01	963.06	0.95	149.27	6,866,639.97 gal
Application event totals		0.01	963.06	0.95	149.27	
04/07/2023	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	25.84	32,178.24	41.62	190.30	340,908.47 gal
Well Water	Ground water	0.01	1,065.03	1.05	165.08	7,593,695.66 gal
Application event totals		25.85	33,243.27	42.67	355.38	
04/09/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	1.09	0.00	25,952.45	156.99	6,995,894.25 gal
Application event totals		1.09	0.00	25,952.45	156.99	
04/21/2023	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
Lagoon Water Effluent	Process wastewater	38.21	47,581.09	61.54	281.39	504,092.17 gal
Canal Water	Ground water	0.00	929.07	24,397.39	88.26	6,624,287.82 gal
Application event totals		38.21	48,510.16	24,458.93	369.65	
05/06/2023	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	1,076.36	27,662.50	86.11	7,674,479.97 gal

Application event totals		0.04	1,076.36	27,662.50	86.11	
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
Lagoon Water Effluent	Process wastewater	17.27	21,502.99	27.81	127.16	227,810.88 gal
Canal Water	Ground water	0.04	1,076.36	27,662.50	86.11	7,674,479.97 gal
Application event totals		17.31	22,579.35	27,690.31	213.27	
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	0.01	1,121.68	1.10	173.86	7,997,615.66 gal
Application event totals		0.01	1,121.68	1.10	173.86	
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	34.57	28,845.59	51.51	277.36	494,398.07 gal
Well Water	Ground water	0.01	1,144.34	1.12	177.37	8,159,184.27 gal
Application event totals		34.58	29,989.93	52.63	454.73	

Field name: WSD-13      Crop: Corn, Late Silage      Plant date: 04/05/2023

**04/05/2023: Corn, Late Silage**

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	459.62 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
04/05/2023	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	0.01	1,110.35	1.09	172.10	4,368,228.79 <i>gal</i>
Application event totals		0.01	1,110.35	1.09	172.10	
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,087.69	1.07	168.59	4,279,081.35 <i>gal</i>
Lagoon Water Effluent	Process wastewater	50.09	62,373.93	80.67	368.87	364,613.38 <i>gal</i>
Application event totals		50.10	63,461.62	81.74	537.46	
05/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,155.67	1.14	179.13	4,546,523.67 <i>gal</i>
Lagoon Water Effluent	Process wastewater	49.26	41,100.26	73.39	395.19	388,683.20 <i>gal</i>
Application event totals		49.27	42,255.93	74.53	574.32	
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
Canal Water	Ground water	0.04	1,110.35	28,536.06	88.83	4,368,228.79 <i>gal</i>
Lagoon Water Effluent	Process wastewater	49.93	41,665.86	74.40	400.63	394,032.06 <i>gal</i>
Application event totals		49.97	42,776.21	28,610.46	489.46	
06/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	47.56	39,686.26	70.86	381.60	375,311.08 <i>gal</i>
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	4,635,671.11 <i>gal</i>

Application event totals		47.60	40,864.59	30,354.02	475.87	
06/16/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,167.00	29,991.98	93.36	4,591,097.60 gal
Lagoon Water Effluent	Process wastewater	42.36	35,349.99	63.12	339.90	334,303.22 gal
Application event totals		42.40	36,516.99	30,055.10	433.26	
07/01/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,178.33	1.16	182.64	4,635,671.11 gal
Application event totals		0.01	1,178.33	1.16	182.64	

Field name: WSD-14A

Crop: Corn, Early Silage

Plant date: 03/03/2023

**03/03/2023: Corn, Early Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	996.66 lbs
Application event totals		14.00	0.00	0.00	0.00	
03/02/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,019.71	26,716.44	101.97	8,699,011.46 gal
Application event totals		0.00	1,019.71	26,716.44	101.97	
04/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	917.74	0.90	142.25	7,829,110.68 gal
Application event totals		0.01	917.74	0.90	142.25	
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	47.15	58,713.84	75.94	347.22	744,248.74 gal
Canal Water	Ground water	0.00	951.73	24,992.44	90.41	8,119,077.00 gal
Application event totals		47.15	59,665.57	25,068.38	437.63	
05/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,019.71	26,206.58	81.58	8,699,011.46 gal
Lagoon Water Effluent	Process wastewater	83.89	104,464.90	135.11	617.79	1,324,182.86 gal
Application event totals		83.93	105,484.61	26,341.69	699.37	
05/19/2023	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	1,076.36	27,662.50	86.11	9,182,289.88 gal
Application event totals		0.04	1,076.36	27,662.50	86.11	

06/03/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	81.69	101,719.83	131.56	601.55	1,289,386.80 gal
Well Water	Ground water	0.01	1,076.36	1.06	166.84	9,182,289.88 gal
Application event totals		81.70	102,796.19	132.62	768.39	
06/18/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,155.67	1.14	179.13	9,858,879.47 gal
Application event totals		0.01	1,155.67	1.14	179.13	
07/03/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	56.37	47,039.06	83.99	452.30	964,623.74 gal
Well Water	Ground water	0.01	1,110.35	1.09	172.10	9,472,257.11 gal
Application event totals		56.38	48,149.41	85.08	624.40	

Field name: WSD-14B

Crop: Corn, Early Silage

Plant date: 03/20/2023

**03/20/2023: Corn, Early Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
03/16/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	952.56 Lbs
Application event totals		14.00	0.00	0.00	0.00	
03/21/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,110.35	1.09	172.10	9,053,130.50 gal
Application event totals		0.01	1,110.35	1.09	172.10	
03/30/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,110.35	1.09	172.10	9,053,130.50 gal
Lagoon Water Effluent	Process wastewater	38.09	47,428.59	61.34	280.48	574,596.62 gal
Application event totals		38.10	48,538.94	62.43	452.58	
04/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	84.26	104,922.41	135.70	620.49	1,271,133.44 gal
Well Water	Ground water	0.01	1,133.01	1.11	175.62	9,237,888.09 gal
Application event totals		84.27	106,055.42	136.81	796.11	
04/28/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,087.69	1.07	168.59	8,868,372.91 gal
Application event totals		0.01	1,087.69	1.07	168.59	
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
Lagoon Water Effluent	Process wastewater	46.09	38,460.79	68.68	369.82	753,811.65 gal
Canal Water	Ground water	0.04	1,144.34	29,409.61	91.55	9,330,267.32 gal

Application event totals		46.13	39,605.13	29,478.29	461.37	
05/28/2023	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
Canal Water	Ground water	0.04	1,121.68	28,827.24	89.73	9,145,508.85 gal
Application event totals		0.04	1,121.68	28,827.24	89.73	
06/12/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,121.68	28,827.24	89.73	9,145,508.85 gal
Lagoon Water Effluent	Process wastewater	52.87	44,116.79	78.78	424.20	864,666.32 gal
Application event totals		52.91	45,238.47	28,906.02	513.93	

#### 10/03/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	849.53	22,308.73	80.71	6,926,568.62 gal
Application event totals		0.00	849.53	22,308.73	80.71	
11/02/2022	Surface (Irrigation)	No precipitation	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
Lagoon Water Effluent	Process wastewater	53.72	46,766.23	58.28	553.18	628,176.40 gal
Well Water	Ground water	0.20	0.00	0.81	250.32	7,368,139.38 gal
Application event totals		53.92	46,766.23	59.09	803.50	
11/30/2022	Surface (Irrigation)	No precipitation	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
Lagoon Water Effluent	Process wastewater	33.97	29,572.76	36.86	349.81	397,229.19 gal
Well Water	Ground water	0.22	0.00	0.90	277.25	8,160,750.00 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	68.04 Gal.
Application event totals		37.33	29,572.76	37.76	627.06	
12/25/2022	Surface (Irrigation)	No precipitation	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	0.20	0.00	0.80	244.99	7,211,095.65 gal	
Lagoon Water Effluent	Process wastewater	79.94	69,599.15	86.74	823.27	934,874.24 gal	
Application event totals		80.14	69,599.15	87.54	1,068.26		
01/17/2023		Surface (Irrigation)		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	0.01	1,157.26	1.14	179.38	9,435,578.66 gal	
Application event totals		0.01	1,157.26	1.14	179.38		
02/08/2023		Surface (Irrigation)		No precipitation		No precipitation	
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		3.14	0.00	0.00	0.00	68.04 Gal.
Canal Water	Ground water		0.00	1,297.98	34,084.94	123.31	10,582,924.89 gal
Application event totals			3.14	1,297.98	34,084.94	123.31	
03/04/2023		Surface (Irrigation)		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	838.88	22,029.05	79.69	6,839,732.16 gal
Application event totals			0.00	838.88	22,029.05	79.69	

Field name: WSD-16      Crop: Corn, Late Silage      Plant date: 04/05/2023

**04/05/2023: Corn, Late Silage**

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	87.92 Lbs
Application event totals		14.00	0.00	0.00	0.00	
04/05/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	822.79	21,606.56	78.17	619,190.51 gal
Application event totals		0.00	822.79	21,606.56	78.17	
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,185.36	31,127.50	112.61	892,036.77 gal
Application event totals		0.00	1,185.36	31,127.50	112.61	
05/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	32.31	26,960.26	48.14	259.23	48,771.27 gal
Well Water	Ground water	0.01	1,017.90	1.00	157.77	766,015.92 gal
Application event totals		32.32	27,978.16	49.14	417.00	
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
Well Water	Ground water	0.01	1,020.16	1.00	158.13	767,721.17 gal
Lagoon Water Effluent	Process wastewater	64.17	53,543.46	95.61	514.84	96,860.43 gal
Application event totals		64.18	54,563.62	96.61	672.97	
06/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,035.57	1.02	160.51	779,317.19 gal
Lagoon Water Effluent	Process wastewater	32.97	27,507.01	49.12	264.49	49,760.34 gal

Application event totals		32.98	28,542.58	50.14	425.00	
06/16/2023	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	0.01	1,316.33	1.29	204.03	990,602.49 gal
Lagoon Water Effluent	Process wastewater	60.44	50,432.66	90.05	484.93	91,232.98 gal
Application event totals		60.45	51,748.99	91.34	688.96	
07/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,320.41	33,934.61	105.63	993,672.04 gal
Application event totals		0.05	1,320.41	33,934.61	105.63	

10/03/2022: Triticale						
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.25	0.00	1.02	313.84	852,644.60 gal
Application event totals		0.25	0.00	1.02	313.84	
11/02/2022	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
Lagoon Water Effluent	Process wastewater	69.04	60,108.36	74.91	711.00	74,521.14 gal
Canal Water	Ground water	0.00	1,053.70	27,670.21	100.10	792,959.49 gal
Application event totals		69.04	61,162.06	27,745.12	811.10	
11/30/2022	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
Canal Water	Ground water	0.00	1,065.03	27,967.74	101.18	801,485.89 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	6.28 Gal.
Lagoon Water Effluent	Process wastewater	66.04	57,494.95	71.66	680.09	71,281.09 gal
Application event totals		69.18	58,559.98	28,039.40	781.27	
12/25/2022	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
Canal Water	Ground water	0.00	951.73	24,992.44	90.41	716,221.43 gal	
Lagoon Water Effluent	Process wastewater	66.04	57,494.95	71.66	680.09	71,281.09 gal	
Application event totals		66.04	58,446.68	25,064.10	770.50		
01/17/2023		Surface (Irrigation)		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	69.04	60,108.36	74.91	711.00	74,521.14 gal	
Well Water	Ground water	0.01	1,008.38	0.99	156.30	758,853.66 gal	
Application event totals		69.05	61,116.74	75.90	867.30		
02/08/2023		Surface (Irrigation)		No precipitation		No precipitation	
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		3.14	0.00	0.00	0.00	6.28 Gal.
Well Water	Ground water		0.01	1,096.76	1.08	170.00	825,360.00 gal
Application event totals			3.15	1,096.76	1.08	170.00	
03/04/2023		Surface (Irrigation)		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		0.01	1,110.35	1.09	172.10	835,591.72 gal
Application event totals			0.01	1,110.35	1.09	172.10	

Field name: WSD-17      Crop: Corn, Early Silage      Plant date: 04/05/2023

**04/05/2023: Corn, Early Silage**

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	155.96 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
04/06/2023	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	0.01	1,121.68	1.10	173.86	1,497,368.76 <i>gal</i>
Application event totals		0.01	1,121.68	1.10	173.86	
04/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,110.35	1.09	172.10	1,482,243.91 <i>gal</i>
Lagoon Water Effluent	Process wastewater	64.42	80,216.84	103.75	474.39	159,114.35 <i>gal</i>
Application event totals		64.43	81,327.19	104.84	646.49	
05/09/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,144.34	1.12	177.37	1,527,618.75 <i>gal</i>
Lagoon Water Effluent	Process wastewater	35.03	43,616.00	56.41	257.94	86,514.65 <i>gal</i>
Application event totals		35.04	44,760.34	57.53	435.31	
05/24/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,155.67	29,700.79	92.45	1,542,743.60 <i>gal</i>
Application event totals		0.04	1,155.67	29,700.79	92.45	
06/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,133.01	29,118.42	90.64	1,512,493.75 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.28	14,422.80	25.75	138.68	46,282.31 <i>gal</i>

Application event totals		17.32	15,555.81	29,144.17	229.32	
06/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,121.68	28,827.24	89.73	1,497,368.76 gal
Application event totals		0.04	1,121.68	28,827.24	89.73	
07/15/2023	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	0.01	1,144.34	1.12	177.37	1,527,618.75 gal
Lagoon Water Effluent	Process wastewater	34.57	28,845.59	51.51	277.36	92,564.62 gal
Application event totals		34.58	29,989.93	52.63	454.73	

#### 10/03/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.19	0.00	0.77	235.89	1,136,790.27 gal
Application event totals		0.19	0.00	0.77	235.89	
11/02/2022	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
Lagoon Water Effluent	Process wastewater	50.87	44,290.37	55.20	523.90	97,404.60 gal
Well Water	Ground water	0.23	0.00	0.94	290.31	1,399,056.72 gal
Application event totals		51.10	44,290.37	56.14	814.21	
11/30/2022	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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	11.14 Gal.
Well Water	Ground water	0.23	0.00	0.93	287.36	1,384,839.30 gal
Lagoon Water Effluent	Process wastewater	48.03	41,814.51	52.11	494.61	91,959.62 gal
Application event totals		51.40	41,814.51	53.04	781.97	
12/25/2022	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	0.17	0.00	0.69	211.28	1,018,210.78 gal
Lagoon Water Effluent		Process wastewater	41.55	36,175.05	45.08	427.90	79,557.17 gal
Application event totals			41.72	36,175.05	45.77	639.18	
01/17/2023		Surface (Irrigation)		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	764.10	20,065.36	72.59	1,020,025.78 gal
Lagoon Water Effluent		Process wastewater	35.86	31,223.33	38.91	369.33	68,667.22 gal
Application event totals			35.86	31,987.43	20,104.27	441.92	
02/08/2023		Surface (Irrigation)		No precipitation		No precipitation	
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		3.14	0.00	0.00	0.00	11.14 Gal.
Canal Water	Ground water		0.00	924.76	24,284.33	87.85	1,234,497.36 gal
Application event totals			3.14	924.76	24,284.33	87.85	
03/04/2023		Surface (Irrigation)		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	999.32	26,242.07	94.94	1,334,019.45 gal
Application event totals			0.00	999.32	26,242.07	94.94	

## WSD-2

Field name: WSD-2      Crop: Corn Silage      Plant date: 06/05/2023

## 06/05/2023: Corn Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/25/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	887.99 Lbs	
Application event totals			14.00	0.00	0.00	0.00		
04/28/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well Water		Ground water	0.01	1,190.34	1.17	184.50	9,047,447.80 gal	
Application event totals			0.01	1,190.34	1.17	184.50		
04/30/2023		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	
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	634.28 Gal.	
Strategic N		Commercial fertilizer / Other: Liquid commercial fertilizer	5.94	0.00	0.00	0.00	126.86 Gal.	
Application event totals			7.86	5.76	5.76	0.00		
05/11/2023		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	
Primacy Alpha		Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	126.86 Pt.	
Application event totals			0.08	0.00	0.18	0.00		
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	
Lagoon Water Effluent		Process wastewater	51.06	42,608.52	76.08	409.70	778,497.34 gal	
Well Water		Ground water	0.01	934.51	0.92	144.85	7,102,927.27 gal	
Application event totals			51.07	43,543.03	77.00	554.55		
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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	12.39	0.00	0.00	0.00	222.00 Gal.
Well Water	Ground water	0.01	1,138.22	1.12	176.42	8,651,309.74 gal
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.08	0.00	0.00	0.00	44.40 Gal.
Application event totals		14.48	1,138.22	1.12	176.42	

06/02/2023	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
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	126.86 Pt.
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	63.43 Gal.
Application event totals		3.05	0.00	0.18	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
Lagoon Water Effluent	Process wastewater	60.44	50,432.66	90.05	484.93	921,451.55 gal
Canal Water	Ground water	0.05	1,366.41	35,116.82	109.31	10,385,706.15 gal
Application event totals		60.49	51,799.07	35,206.87	594.24	

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
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	63.43 Gal.
Canal Water	Ground water	0.06	1,535.23	39,455.46	122.82	11,668,848.71 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	317.14 Gal.
Application event totals		20.73	1,535.23	39,455.46	122.82	

07/20/2023	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	21.60	13,318.79	19.22	150.89	320,355.11 gal
Canal Water	Ground water	0.04	1,025.83	26,363.82	82.07	7,797,029.78 gal
Application event totals		21.64	14,344.62	26,383.04	232.96	



Field name: WSD-3      Crop: Corn Silage      Plant date: 06/15/2023

**06/15/2023: Corn Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/29/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,036.00 <i>Lbs</i>
Application event totals		14.00	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
Well Water	Ground water	0.01	1,547.24	1.52	239.82	13,720,300.33 <i>gal</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	740.00 <i>Gal.</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	5.94	0.00	0.00	0.00	148.00 <i>Gal.</i>
Application event totals		7.87	1,553.00	7.28	239.82	

05/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	148.00 <i>Pt.</i>
Application event totals		0.08	0.00	0.18	0.00	

05/27/2023	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	0.01	734.87	0.72	113.91	6,516,539.83 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.28	14,422.80	25.75	138.68	307,440.82 <i>gal</i>
Application event totals		17.29	15,157.67	26.47	252.59	

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	0.03	851.57	21,885.41	68.13	7,551,389.38 <i>gal</i>

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	12.39	0.00	0.00	0.00	259.00 Gal.
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.08	0.00	0.00	0.00	51.80 Gal.
Application event totals		14.50	851.57	21,885.41	68.13	

06/12/2023	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
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	74.00 Gal.
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	148.00 Pt.
Application event totals		3.05	0.00	0.18	0.00	

06/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,420.12	36,497.03	113.61	12,593,017.58 gal
Lagoon Water Effluent	Process wastewater	78.28	48,262.71	69.66	546.77	1,354,347.20 gal
Application event totals		78.33	49,682.83	36,566.69	660.38	

07/14/2023	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	370.00 Gal.
Canal Water	Ground water	0.07	1,805.57	46,403.12	144.45	16,011,035.60 gal
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	74.00 Gal.
Application event totals		20.74	1,805.57	46,403.12	144.45	

07/30/2023	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	32.05	19,763.36	28.52	223.90	554,599.12 gal
Well Water	Ground water	0.01	1,556.99	1.53	241.33	13,806,704.75 gal
Application event totals		32.06	21,320.35	30.05	465.23	

10/03/2022: Triticale

Application date		Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/07/2022		Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water		Ground water	0.21	0.00	0.86	266.20	8,521,938.42 gal
Application event totals			0.21	0.00	0.86	266.20	
11/04/2022		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
Well Water		Ground water	0.26	0.00	1.05	323.13	10,344,478.93 gal
Application event totals			0.26	0.00	1.05	323.13	
12/02/2022		Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water		0.27	0.00	1.08	331.67	10,617,759.98 gal
Lagoon Water Effluent	Process wastewater		62.25	54,193.80	67.54	641.04	791,710.34 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer		3.14	0.00	0.00	0.00	74.00 Gal.
Application event totals			65.66	54,193.80	68.62	972.71	
12/31/2022		Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent		Process wastewater	79.94	69,599.15	86.74	823.27	1,016,765.03 gal
Canal Water		Ground water	0.00	1,125.31	29,550.59	106.90	9,978,765.65 gal
Application event totals			79.94	70,724.46	29,637.33	930.17	
01/25/2023		Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent		Process wastewater	36.50	45,446.04	58.78	268.76	598,806.32 gal
Canal Water		Ground water	0.00	870.61	22,862.14	82.71	7,720,180.65 gal
Application event totals			36.50	46,316.65	22,920.92	351.47	
02/17/2023		Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer		3.14	0.00	0.00	0.00	74.00 Gal.
Canal Water	Ground water		0.00	1,033.53	27,140.60	98.19	9,164,951.29 gal

Application event totals		3.14	1,033.53	27,140.60	98.19	
03/11/2023	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	0.01	1,003.40	0.99	155.53	8,897,699.02 gal
Application event totals		0.01	1,003.40	0.99	155.53	

Field name: WSD-4      Crop: Corn, Early Silage      Plant date: 05/16/2023

**05/16/2023: Corn, Early Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	551.78 Lbs
Application event totals		14.00	0.00	0.00	0.00	
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,110.35	1.09	172.10	5,244,149.67 gal
Application event totals		0.01	1,110.35	1.09	172.10	
04/26/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	57.96	48,358.79	86.35	464.99	549,030.37 gal
Well Water	Ground water	0.01	1,144.34	1.12	177.37	5,404,684.97 gal
Application event totals		57.97	49,503.13	87.47	642.36	
05/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	82.70	69,003.19	123.21	663.49	783,411.72 gal
Well Water	Ground water	0.01	1,167.00	1.15	180.89	5,511,708.32 gal
Application event totals		82.71	70,170.19	124.36	844.38	
05/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,167.00	1.15	180.89	5,511,708.32 gal
Application event totals		0.01	1,167.00	1.15	180.89	
06/09/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	80.32	67,023.59	119.68	644.46	760,936.83 gal
Canal Water	Ground water	0.04	1,200.99	30,865.53	96.08	5,672,243.62 gal

Application event totals		80.36	68,224.58	30,985.21	740.54	
06/24/2023	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
Lagoon Water Effluent	Process wastewater	48.01	40,063.33	71.54	385.22	454,849.72 gal
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	5,565,219.75 gal
Application event totals		48.05	41,241.66	30,354.70	479.49	
07/09/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,189.66	30,574.35	95.17	5,618,731.68 gal
Application event totals		0.04	1,189.66	30,574.35	95.17	

11/16/2022: Triticale						
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
11/18/2022	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	1,105.37	29,026.94	105.01	5,220,604.18 gal
Application event totals		0.00	1,105.37	29,026.94	105.01	
12/16/2022	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	0.23	0.00	0.94	288.49	4,918,798.46 gal
Lagoon Water Effluent	Process wastewater	24.17	21,044.80	26.23	248.93	163,745.89 gal
Application event totals		24.40	21,044.80	27.17	537.42	
01/13/2023	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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	39.41 Gal.
Well Water	Ground water	0.01	889.64	0.87	137.89	4,201,741.19 gal
Lagoon Water Effluent	Process wastewater	18.96	16,505.73	20.57	195.24	128,428.15 gal
Application event totals		22.11	17,395.37	21.44	333.13	
02/07/2023	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	0.01	1,295.03	1.27	200.73	6,116,390.94 gal	
Lagoon Water Effluent	Process wastewater	73.97	92,112.11	119.13	544.73	646,421.67 gal	
Application event totals		73.98	93,407.14	120.40	745.46		
03/02/2023		Surface (Irrigation)		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	69.07	86,011.97	111.24	508.66	603,612.33 gal	
Well Water	Ground water	0.01	843.87	0.83	130.80	3,985,553.65 gal	
Application event totals		69.08	86,855.84	112.07	639.46		
03/24/2023		Surface (Irrigation)		No precipitation		No precipitation	
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		3.14	0.00	0.00	0.00	39.41 Gal.
Canal Water	Ground water		0.00	1,168.82	30,693.10	111.04	5,520,270.09 gal
Application event totals			3.14	1,168.82	30,693.10	111.04	
04/17/2023		Surface (Irrigation)		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	1,165.42	30,603.84	110.71	5,504,216.71 gal
Application event totals			0.00	1,165.42	30,603.84	110.71	

Field name: WSD-5A      Crop: Corn Silage      Plant date: 04/05/2023

**04/05/2023: Corn Silage**

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	770.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

04/06/2023	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
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	5.94	0.00	0.00	0.00	110.00 <i>Gal.</i>
Well Water	Ground water	0.01	1,133.01	1.11	175.62	7,467,428.54 <i>gal</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	550.00 <i>Gal.</i>
Application event totals		7.87	1,138.77	6.87	175.62	

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
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	110.00 <i>Pt.</i>
Application event totals		0.08	0.00	0.18	0.00	

04/19/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	42.25	52,613.71	68.05	311.15	515,252.57 <i>gal</i>
Well Water	Ground water	0.01	1,110.35	1.09	172.10	7,318,080.11 <i>gal</i>
Application event totals		42.26	53,724.06	69.14	483.25	

05/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	55.00 <i>Gal.</i>

Well Water	Ground water	0.01	1,079.99	1.06	167.40	7,117,952.58 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	275.00 Gal.
Application event totals		20.68	1,079.99	1.06	167.40	

05/09/2023	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
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	110.00 Pt.
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	55.00 Gal.
Application event totals		3.05	0.00	0.18	0.00	

05/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	53.78	44,870.93	80.12	431.45	710,899.21 gal
Canal Water	Ground water	0.05	1,271.24	32,670.87	101.70	8,378,455.02 gal
Application event totals		53.83	46,142.17	32,750.99	533.15	

06/10/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	275.00 Gal.
Canal Water	Ground water	0.05	1,327.44	34,115.15	106.20	8,748,839.69 gal
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	55.00 Gal.
Application event totals		20.72	1,327.44	34,115.15	106.20	

06/26/2023	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	1,167.00	29,991.98	93.36	7,691,451.54 gal
Lagoon Water Effluent	Process wastewater	38.98	32,521.99	58.07	312.71	515,252.57 gal
Application event totals		39.02	33,688.99	30,050.05	406.07	

10/03/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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10/05/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.24	0.00	0.99	304.43	7,243,405.54 gal
Application event totals		0.24	0.00	0.99	304.43	

11/02/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.24	0.00	0.96	295.01	7,019,382.54 gal
Lagoon Water Effluent	Process wastewater	77.73	67,673.49	84.34	800.49	734,794.99 gal
Application event totals		77.97	67,673.49	85.30	1,095.50	

11/30/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	79.94	69,599.15	86.74	823.27	755,703.74 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	55.00 Gal.
Well Water	Ground water	0.23	0.00	0.93	285.60	6,795,360.26 gal
Application event totals		83.31	69,599.15	87.67	1,108.87	

12/25/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	951.73	24,992.44	90.41	6,272,639.69 gal
Lagoon Water Effluent	Process wastewater	64.14	55,844.38	69.60	660.56	606,355.18 gal
Application event totals		64.14	56,796.11	25,062.04	750.97	

01/17/2023	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
Canal Water	Ground water	0.00	951.73	24,992.44	90.41	6,272,639.69 gal
Lagoon Water Effluent	Process wastewater	69.04	60,108.36	74.91	711.00	652,653.26 gal
Application event totals		69.04	61,060.09	25,067.35	801.41	

02/08/2023	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
Canal Water	Ground water	0.00	1,046.90	27,491.69	99.46	6,899,903.80 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	55.00 Gal.

Application event totals		3.14	1,046.90	27,491.69	99.46	
03/04/2023	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	0.01	963.06	0.95	149.27	6,347,314.26 gal
Application event totals		0.01	963.06	0.95	149.27	

Field name: WSD-5B      Crop: Corn, Late Silage      Plant date: 05/11/2023

**05/11/2023: Corn, Late Silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	952.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
05/14/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,135.51	29,182.49	90.84	9,252,768.80 <i>gal</i>
Application event totals		0.04	1,135.51	29,182.49	90.84	
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	0.01	1,355.99	1.33	210.18	11,049,405.04 <i>gal</i>
Lagoon Water Effluent	Process wastewater	60.10	50,149.86	89.55	482.21	982,333.45 <i>gal</i>
Application event totals		60.11	51,505.85	90.88	692.39	
06/09/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,045.54	1.03	162.06	8,519,711.13 <i>gal</i>
Lagoon Water Effluent	Process wastewater	79.98	66,740.79	119.17	641.74	1,307,315.93 <i>gal</i>
Application event totals		79.99	67,786.33	120.20	803.80	
06/23/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,026.51	1.01	159.11	8,364,606.52 <i>gal</i>
Lagoon Water Effluent	Process wastewater	95.35	79,561.05	142.07	765.01	1,558,438.73 <i>gal</i>
Application event totals		95.36	80,587.56	143.08	924.12	
07/07/2023	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	77.73	64,855.46	115.81	623.61	1,270,386.14 <i>gal</i>
Well Water	Ground water	0.01	1,000.45	0.98	155.07	8,152,259.55 <i>gal</i>

Application event totals		77.74	65,855.91	116.79	778.68	
07/22/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,194.20	30,690.82	95.54	9,731,009.75 gal
Lagoon Water Effluent	Process wastewater	81.91	68,343.32	122.04	657.15	1,338,706.32 gal
Application event totals		81.95	69,537.52	30,812.86	752.69	
08/06/2023	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
Canal Water	Ground water	0.04	1,205.53	30,982.00	96.44	9,823,334.68 gal
Lagoon Water Effluent	Process wastewater	34.49	21,267.10	30.69	240.94	548,407.94 gal
Application event totals		34.53	22,472.63	31,012.69	337.38	

#### 11/10/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
11/12/2022	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	930.66	24,439.04	88.41	7,583,540.03 gal
Application event totals		0.00	930.66	24,439.04	88.41	
12/10/2022	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
Lagoon Water Effluent	Process wastewater	54.51	47,453.97	59.14	561.32	637,039.54 gal
Canal Water	Ground water	0.00	1,120.32	29,419.68	106.43	9,129,053.15 gal
Application event totals		54.51	48,574.29	29,478.82	667.75	
01/07/2023	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	0.01	1,165.64	1.15	180.67	9,498,351.97 gal
Lagoon Water Effluent	Process wastewater	49.77	43,327.53	54.00	512.51	581,644.79 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	68.00 Gal.
Application event totals		52.92	44,493.17	55.15	693.18	
02/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	

Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	868.57	0.85	134.63	<i>7,077,601.51 gal</i>	
Lagoon Water Effluent	Process wastewater	43.84	54,596.25	70.61	322.87	<i>661,043.95 gal</i>	
Application event totals		43.85	55,464.82	71.46	457.50		
02/24/2023		Surface (Irrigation)		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	38.58	48,038.60	62.13	284.09	<i>581,644.79 gal</i>	
Well Water	Ground water	0.01	1,067.98	1.05	165.54	<i>8,702,513.74 gal</i>	
Application event totals		38.59	49,106.58	63.18	449.63		
03/18/2023		Surface (Irrigation)		No precipitation		No precipitation	
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		3.14	0.00	0.00	0.00	<i>68.00 Gal.</i>
Well Water	Ground water		0.01	1,032.63	1.02	160.06	<i>8,414,461.70 gal</i>
Application event totals			3.15	1,032.63	1.02	160.06	
04/11/2023		Surface (Irrigation)		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	951.73	24,992.44	90.41	<i>7,755,263.62 gal</i>
Application event totals			0.00	951.73	24,992.44	90.41	

Field name: WSD-6

Crop: Corn, Late Silage

Plant date: 04/03/2023

**04/03/2023: Corn, Late Silage**

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	843.78 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
04/05/2023	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	0.01	1,321.32	1.30	204.80	9,542,949.08 <i>gal</i>
Application event totals		0.01	1,321.32	1.30	204.80	
04/18/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	62.58	77,929.28	100.79	460.86	836,296.84 <i>gal</i>
Well Water	Ground water	0.01	1,296.85	1.27	201.01	9,366,197.82 <i>gal</i>
Application event totals		62.59	79,226.13	102.06	661.87	
05/02/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,145.48	1.13	177.55	8,272,956.13 <i>gal</i>
Lagoon Water Effluent	Process wastewater	79.98	66,740.79	119.17	641.74	1,158,704.88 <i>gal</i>
Application event totals		79.99	67,886.27	120.30	819.29	
05/16/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,155.90	29,706.62	92.47	8,348,239.22 <i>gal</i>
Lagoon Water Effluent	Process wastewater	81.11	67,683.45	120.86	650.80	1,175,070.75 <i>gal</i>
Application event totals		81.15	68,839.35	29,827.48	743.27	
05/30/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.03	928.16	23,853.81	74.25	6,703,468.07 <i>gal</i>
Lagoon Water Effluent	Process wastewater	77.73	64,855.46	115.81	623.61	1,125,973.14 <i>gal</i>

Application event totals		77.76	65,783.62	23,969.62	697.86	
06/14/2023	Surface (Irrigation)		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	60.44	50,432.66	90.05	484.93	875,575.05 gal
Canal Water	Ground water	0.05	1,278.26	32,851.40	102.26	9,231,997.11 gal
Application event totals		60.49	51,710.92	32,941.45	587.19	
06/29/2023	Surface (Irrigation)		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	0.01	1,162.92	1.14	180.25	8,398,973.70 gal
Lagoon Water Effluent	Process wastewater	34.57	28,845.59	51.51	277.36	500,796.17 gal
Application event totals		34.58	30,008.51	52.65	457.61	

#### 08/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
08/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	843.78 Lbs
Application event totals		14.00	0.00	0.00	0.00	
08/22/2023	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	0.01	1,189.66	1.17	184.40	8,592,091.23 gal
Application event totals		0.01	1,189.66	1.17	184.40	
09/07/2023	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	33.22	20,479.43	29.56	232.01	468,064.42 gal
Well Water	Ground water	0.01	1,155.67	1.14	179.13	8,346,602.75 gal
Application event totals		33.23	21,635.10	30.70	411.14	
09/23/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,110.35	28,536.06	88.83	8,019,285.30 gal
Lagoon Water Effluent	Process wastewater	36.70	22,627.62	32.66	256.35	517,162.09 gal
Application event totals		36.74	23,737.97	28,568.72	345.18	
10/09/2023	Surface (Irrigation)		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	1,110.35	28,536.06	88.83	8,019,285.30 gal
Lagoon Water Effluent	Process wastewater	36.58	22,556.01	32.55	255.54	515,525.47 gal
Application event totals		36.62	23,666.36	28,568.61	344.37	

#### 10/18/2022: Tricale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/22/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.28	0.00	1.11	342.53	8,930,864.75 gal
Application event totals		0.28	0.00	1.11	342.53	
11/19/2022	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
Lagoon Water Effluent	Process wastewater	37.92	33,011.45	41.14	390.48	392,781.30 gal
Well Water	Ground water	0.26	0.00	1.03	317.61	8,281,139.26 gal
Application event totals		38.18	33,011.45	42.17	708.09	
12/17/2022	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	32.70	28,472.38	35.48	336.79	338,773.89 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	60.27 Gal.
Well Water	Ground water	0.26	0.00	1.05	322.19	8,400,610.17 gal
Application event totals		36.10	28,472.38	36.53	658.98	
01/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	803.08	21,088.86	76.29	5,800,070.58 gal

Lagoon Water Effluent	Process wastewater	49.77	43,327.53	54.00	512.51	515,525.47 gal
Application event totals		49.77	44,130.61	21,142.86	588.80	

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
Canal Water	Ground water	0.00	964.87	25,337.58	91.66	6,968,594.97 gal
Lagoon Water Effluent	Process wastewater	54.62	68,016.56	87.97	402.24	729,918.62 gal
Application event totals		54.62	68,981.43	25,425.55	493.90	

03/04/2023	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	3.14	0.00	0.00	0.00	60.27 Gal.
Canal Water	Ground water	0.00	1,008.38	26,480.09	95.80	7,282,819.87 gal
Application event totals		3.14	1,008.38	26,480.09	95.80	

03/26/2023	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	0.01	875.37	0.86	135.68	6,322,142.42 gal
Application event totals		0.01	875.37	0.86	135.68	

Field name: WSD-7

Crop: Corn, Late Silage

Plant date: 04/03/2023

**04/03/2023: Corn, Late Silage**

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	1,543.50 Lbs
Application event totals		14.00	0.00	0.00	0.00	
04/05/2023	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	0.01	1,087.69	1.07	168.59	14,370,048.51 gal
Application event totals		0.01	1,087.69	1.07	168.59	
04/18/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,144.34	1.12	177.37	15,118,488.51 gal
Lagoon Water Effluent	Process wastewater	53.03	66,034.01	85.40	390.51	1,296,298.07 gal
Application event totals		53.04	67,178.35	86.52	567.88	
05/02/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	79.98	66,740.79	119.17	641.74	2,119,582.08 gal
Well Water	Ground water	0.01	1,110.35	1.09	172.10	14,669,424.22 gal
Application event totals		79.99	67,851.14	120.26	813.84	
05/16/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,133.01	1.11	175.62	14,968,799.94 gal
Application event totals		0.01	1,133.01	1.11	175.62	
05/30/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	77.73	64,855.46	115.81	623.61	2,059,706.94 gal
Canal Water	Ground water	0.04	1,121.68	28,827.24	89.73	14,819,111.37 gal

Application event totals		77.77	65,977.14	28,943.05	713.34	
06/14/2023	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
Lagoon Water Effluent	Process wastewater	42.36	35,349.99	63.12	339.90	1,122,660.00 gal
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	15,567,551.36 gal
Application event totals		42.40	36,528.32	30,346.28	434.17	
06/29/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,167.00	29,991.98	93.36	15,417,864.22 gal
Application event totals		0.04	1,167.00	29,991.98	93.36	

Field name: WSD-8

Crop: Milo

Plant date: 06/05/2023

**06/05/2023: Milo**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
06/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,042.07 Lbs
Application event totals		14.00	0.00	0.00	0.00	
06/21/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,155.67	29,700.79	92.45	10,308,102.76 gal
Application event totals		0.04	1,155.67	29,700.79	92.45	
07/07/2023	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	76.48	63,818.52	113.96	613.64	1,368,350.11 gal
Well Water	Ground water	0.01	1,167.00	1.15	180.89	10,409,162.97 gal
Application event totals		76.49	64,985.52	115.11	794.53	
07/23/2023	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	0.01	1,189.66	1.17	184.40	10,611,282.45 gal
Lagoon Water Effluent	Process wastewater	78.86	65,798.12	117.49	632.67	1,410,795.29 gal
Application event totals		78.87	66,987.78	118.66	817.07	
08/08/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	80.55	67,212.12	120.02	646.27	1,441,113.22 gal
Well Water	Ground water	0.01	1,167.00	1.15	180.89	10,409,162.97 gal
Application event totals		80.56	68,379.12	121.17	827.16	
08/26/2023	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
Canal Water	Ground water	0.04	1,167.00	29,991.98	93.36	10,409,162.97 gal

Application event totals		0.04	1,167.00	29,991.98	93.36	
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Field name: WSD-9      Crop: Triticale      Plant date: 10/03/2022

**10/03/2022: Triticale**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/07/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,040.79	27,331.02	98.87	8,182,855.13 gal
Application event totals		0.00	1,040.79	27,331.02	98.87	

11/04/2022	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	0.20	0.00	0.80	247.18	7,015,911.97 gal
Lagoon Water Effluent	Process wastewater	51.82	45,115.66	56.23	533.66	584,362.42 gal
Application event totals		52.02	45,115.66	57.03	780.84	

12/02/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	63.19	55,019.09	68.57	650.80	712,637.09 gal
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	65.61 Gal.
Well Water	Ground water	0.22	0.00	0.91	279.89	7,944,122.02 gal
Application event totals		66.55	55,019.09	69.48	930.69	

12/31/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	90.37	78,677.31	98.05	930.65	1,019,071.07 gal
Well Water	Ground water	0.21	0.00	0.86	264.19	7,498,723.85 gal
Application event totals		90.58	78,677.31	98.91	1,194.84	

01/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,136.64	1.12	176.18	8,936,468.59 gal
Lagoon Water Effluent	Process wastewater	77.65	96,687.22	125.05	571.79	1,129,529.77 gal
Application event totals		77.66	97,823.86	126.17	747.97	

02/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
<hr/>				
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Canal Water	Ground water	0.00	889.41	23,356.03
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00
Application event totals		3.14	889.41	23,356.03
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03/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
<hr/>				
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Canal Water	Ground water	0.00	887.15	23,296.53
Application event totals		0.00	887.15	23,296.53

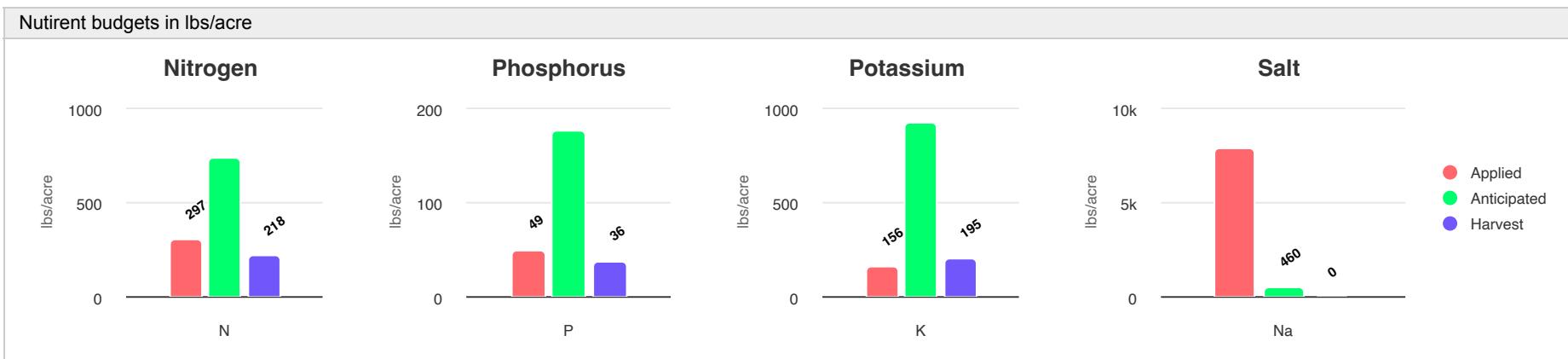
## B. NUTRIENT BUDGET

LR-18 (1) - 06/07/2023: Corn, Late Silage

Field name: LR-18 (1)

Crop: Corn, Late Silage

Plant date: 06/07/2023



	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	74.32	0.00	0.00	0.00
Dry manure	207.28	48.65	137.94	2,298.96
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.39	0.00	18.09	5,527.55
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>296.99</b>	<b>48.65</b>	<b>156.03</b>	<b>7,826.51</b>
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	218.08	36.16	194.78	0.00
Nutrient balance	78.91	12.49	-38.75	7,826.51
Applied to removed ratio	1.36	1.35	0.80	0.00

Fresh water applied	
53,171,999.74	gallons
1,958.14	acre-inches
25.60	inches/acre

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

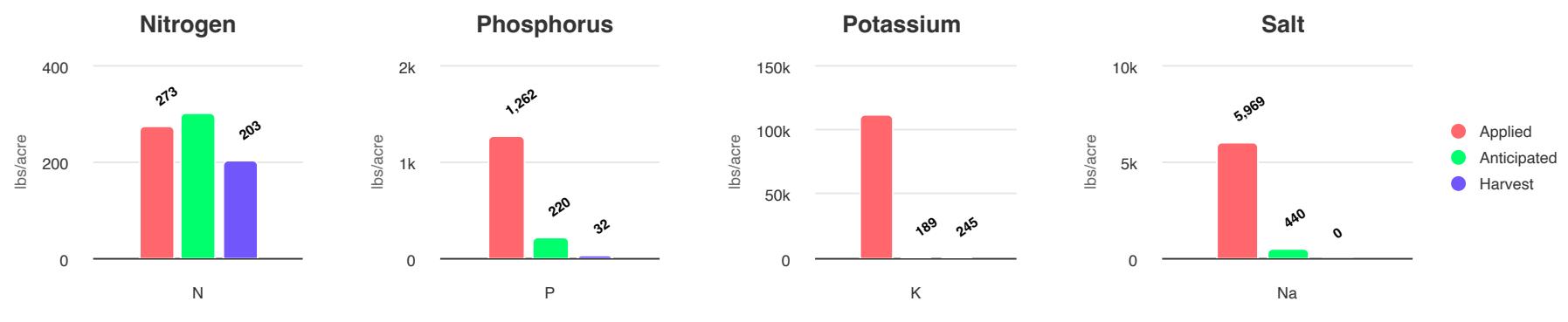
Total Harvests for the crop
1 harvests

Field name: LR-19 (3)

Crop: Milo

Plant date: 07/06/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	259.10	60.81	172.42	2,873.70
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.10	1,200.99	110,846.40	3,094.97
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>273.20</b>	<b>1,261.80</b>	<b>111,018.82</b>	<b>5,968.67</b>
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	202.60	32.43	244.97	0.00
<b>Nutrient balance</b>	<b>70.59</b>	<b>1,229.38</b>	<b>110,773.85</b>	<b>5,968.67</b>
Applied to removed ratio	1.35	38.91	453.20	0.00

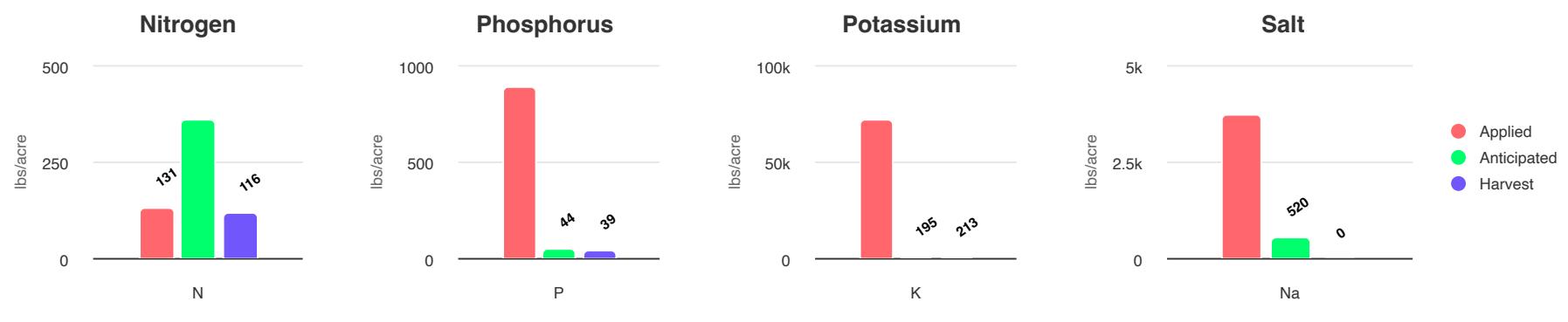
Fresh water applied		
42,865,268.26	gallons	
1,578.58	acre-inches	
20.70	inches/acre	
Process wastewater applied		
0.00	gallons	
0.00	acre-inches	
0.00	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: LR-19 (3)

Crop: Triticale

Plant date: 10/23/2022

## 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	130.15	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.48	884.88	71,386.65	3,723.48
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>130.63</b>	<b>884.88</b>	<b>71,386.65</b>	<b>3,723.48</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	116.16	38.94	213.11	0.00
<b>Nutrient balance</b>	<b>14.47</b>	<b>845.94</b>	<b>71,173.54</b>	<b>3,723.48</b>
Applied to removed ratio	1.12	22.72	334.97	0.00

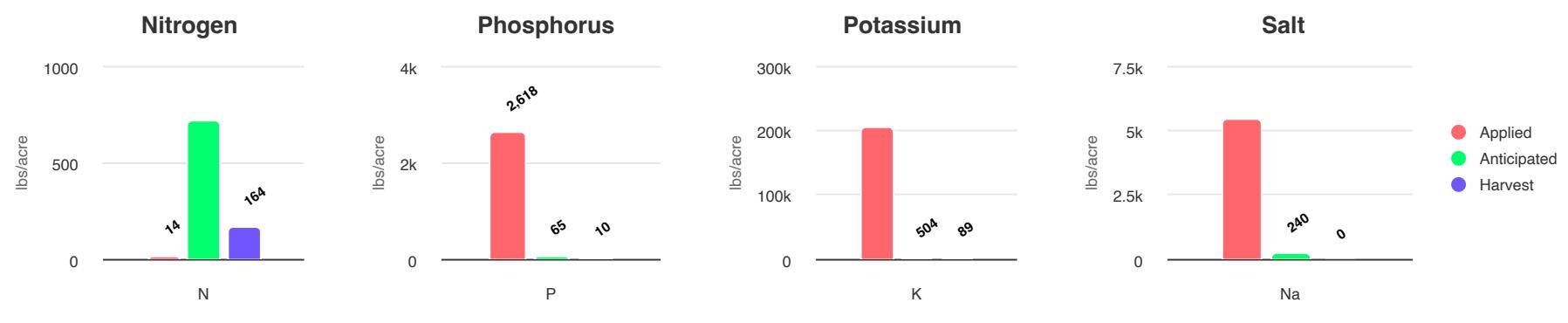
Fresh water applied		
45,143,132.04	gallons	
1,662.47	acre-inches	
21.80	inches/acre	
Process wastewater applied		
0.00	gallons	
0.00	acre-inches	
0.00	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: LR-21(7)

Crop: Alfalfa

Plant date: 01/03/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.16	2,618.39	204,061.85	5,417.26
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>14.16</b>	<b>2,618.39</b>	<b>204,061.85</b>	<b>5,417.26</b>
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	164.09	10.28	88.89	0.00
<b>Nutrient balance</b>	<b>-149.93</b>	<b>2,608.11</b>	<b>203,972.96</b>	<b>5,417.26</b>
Applied to removed ratio	0.09	254.83	2,295.69	0.00

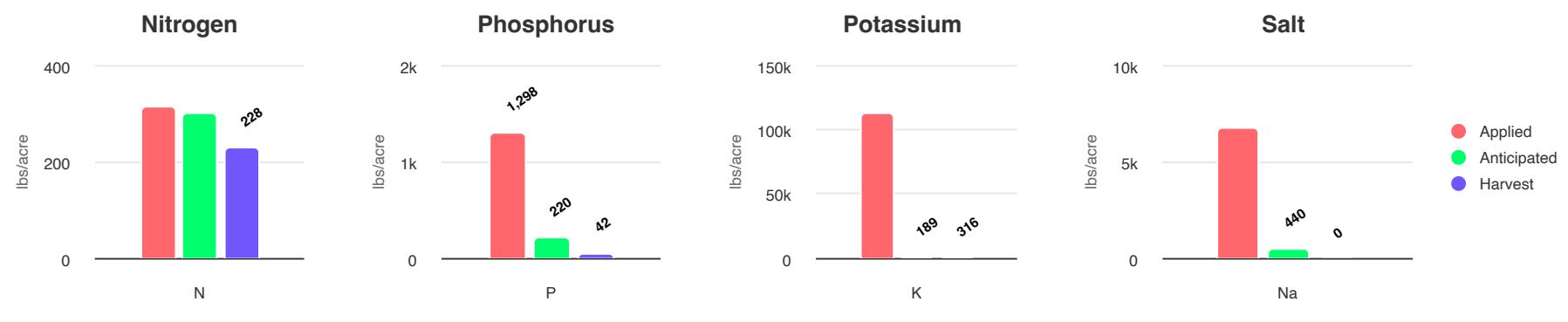
Fresh water applied		
79,460,349.74	gallons	
2,926.25	acre-inches	
38.03	inches/acre	
Process wastewater applied		
0.00	gallons	
0.00	acre-inches	
0.00	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: LR-22(8)

Crop: Milo

Plant date: 08/08/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	53.10	0.00	0.00	0.00
Dry manure	246.01	67.93	223.70	3,585.60
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.10	1,230.45	112,020.55	3,116.24
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>313.21</b>	<b>1,298.38</b>	<b>112,244.25</b>	<b>6,701.84</b>
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	228.30	41.59	316.44	0.00
<b>Nutrient balance</b>	<b>84.91</b>	<b>1,256.79</b>	<b>111,927.81</b>	<b>6,701.84</b>
Applied to removed ratio	1.37	31.22	354.71	0.00

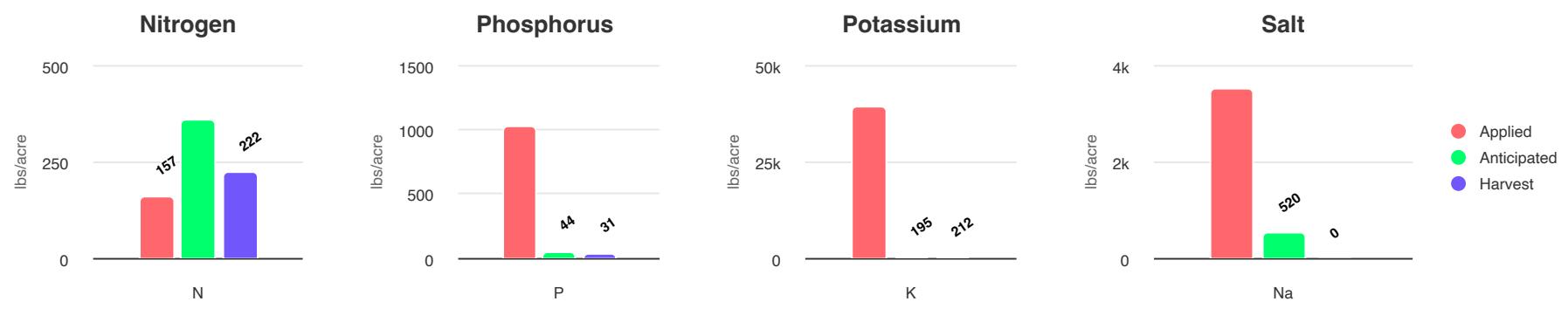
Fresh water applied
44,391,679.21 gallons
1,634.79 acre-inches
20.92 inches/acre
Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Total Harvests for the crop
1 harvests

Field name: LR-22(8)

Crop: Triticale

Plant date: 10/02/2022

## 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	156.69	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.77	1,021.30	39,222.84	3,492.39
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>157.46</b>	<b>1,021.30</b>	<b>39,222.84</b>	<b>3,492.39</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	221.63	30.71	211.95	0.00
<b>Nutrient balance</b>	<b>-64.16</b>	<b>990.59</b>	<b>39,010.89</b>	<b>3,492.39</b>
Applied to removed ratio	0.71	33.25	185.06	0.00

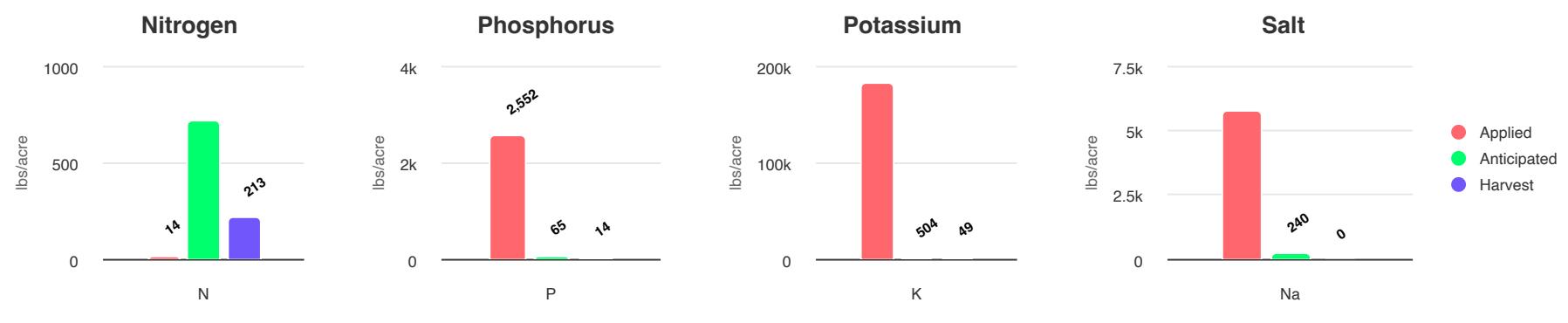
Fresh water applied		
42,553,700.60	gallons	
1,567.11	acre-inches	
20.05	inches/acre	
Process wastewater applied		
0.00	gallons	
0.00	acre-inches	
0.00	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: LR-23(6)

Crop: Alfalfa

Plant date: 01/05/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.16	2,552.00	181,413.08	5,735.08
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>14.16</b>	<b>2,552.00</b>	<b>181,413.08</b>	<b>5,735.08</b>
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	212.61	14.38	48.89	0.00
<b>Nutrient balance</b>	<b>-198.45</b>	<b>2,537.62</b>	<b>181,364.19</b>	<b>5,735.08</b>
Applied to removed ratio	0.07	177.41	3,710.80	0.00

## Fresh water applied

82,914,544.17 gallons  
3,053.46 acre-inches  
39.53 inches/acre

## Process wastewater applied

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

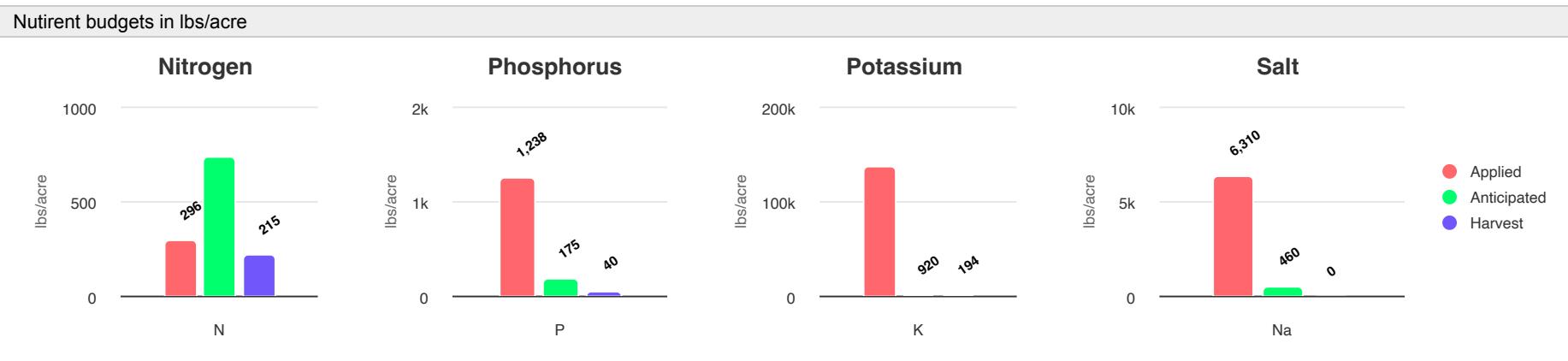
## Total Harvests for the crop

1 harvests

Field name: LR-25(2)

Crop: Corn, Late Silage

Plant date: 05/04/2023



	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	74.32	0.00	0.00	0.00
Dry manure	207.28	48.65	137.94	2,298.96
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.13	1,189.66	136,515.18	4,010.88
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>295.73</b>	<b>1,238.31</b>	<b>136,653.12</b>	<b>6,309.84</b>
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	214.84	39.54	193.72	0.00
<b>Nutrient balance</b>	<b>80.89</b>	<b>1,198.77</b>	<b>136,459.40</b>	<b>6,309.84</b>
Applied to removed ratio	1.38	31.32	705.43	0.00

Fresh water applied		
52,714,318.66	gallons	
1,941.29	acre-inches	
25.55	inches/acre	

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

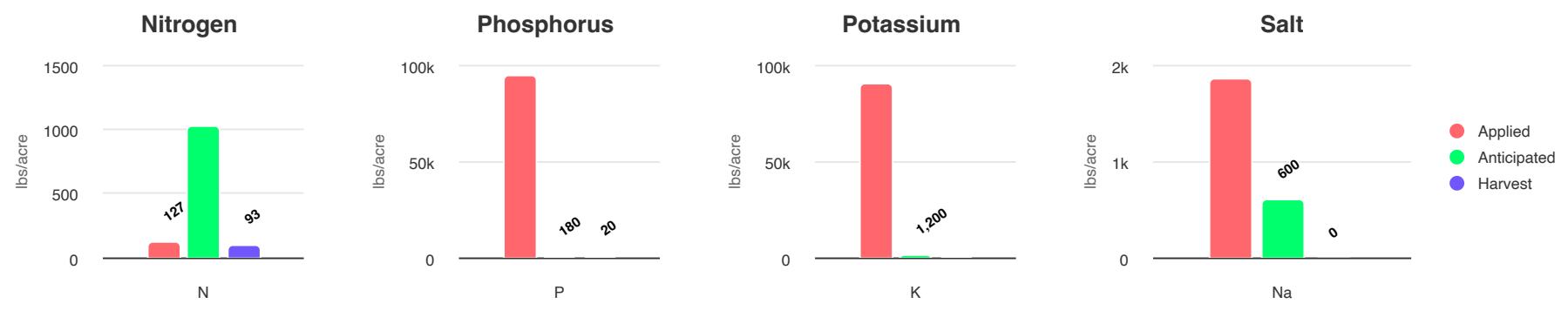
Total Harvests for the crop		
1	harvests	

Field name: WSD-1

Crop: Corn, Early Silage

Plant date: 05/10/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	112.44	86,311.09	146.83	866.36
Fresh water	0.16	8,067.03	89,689.25	988.68
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>126.60</b>	<b>94,378.12</b>	<b>89,836.08</b>	<b>1,855.04</b>
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	92.52	19.50	92.52	0.00
<b>Nutrient balance</b>	<b>34.08</b>	<b>94,358.62</b>	<b>89,743.56</b>	<b>1,855.04</b>
Applied to removed ratio	1.37	4,838.99	971.02	0.00

Fresh water applied		
68,596,503.51	gallons	
2,526.18	acre-inches	
35.60	inches/acre	

Process wastewater applied		
1,901,818.75	gallons	
70.04	acre-inches	
0.99	inches/acre	

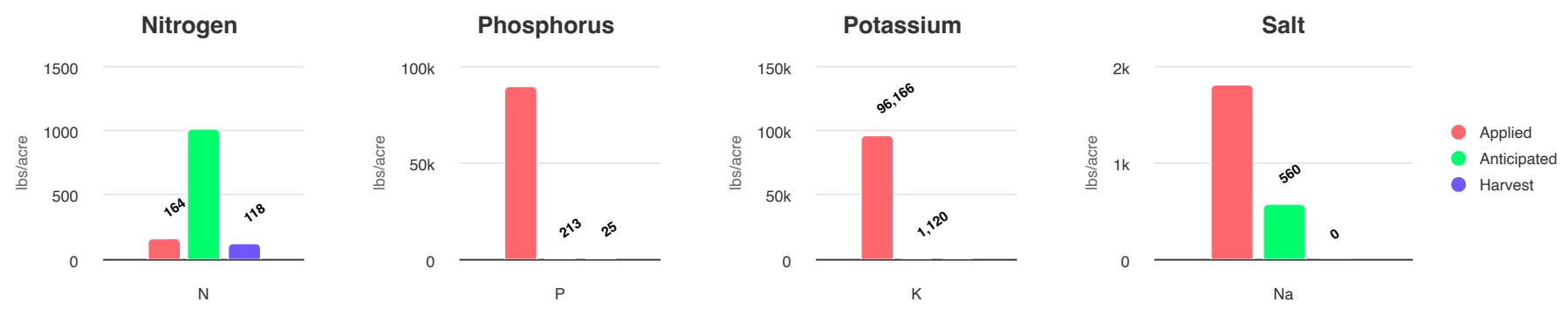
Total Harvests for the crop		
1	harvests	

Field name: WSD-10

Crop: Corn Silage

Plant date: 05/10/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	31.66	5.76	6.12	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	118.13	81,720.12	129.60	867.49
Fresh water	0.17	7,802.61	96,030.72	929.16
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>163.96</b>	<b>89,528.49</b>	<b>96,166.44</b>	<b>1,796.65</b>
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	117.67	24.99	125.74	0.00
<b>Nutrient balance</b>	<b>46.29</b>	<b>89,503.50</b>	<b>96,040.70</b>	<b>1,796.65</b>
Applied to removed ratio	1.39	3,582.34	764.79	0.00

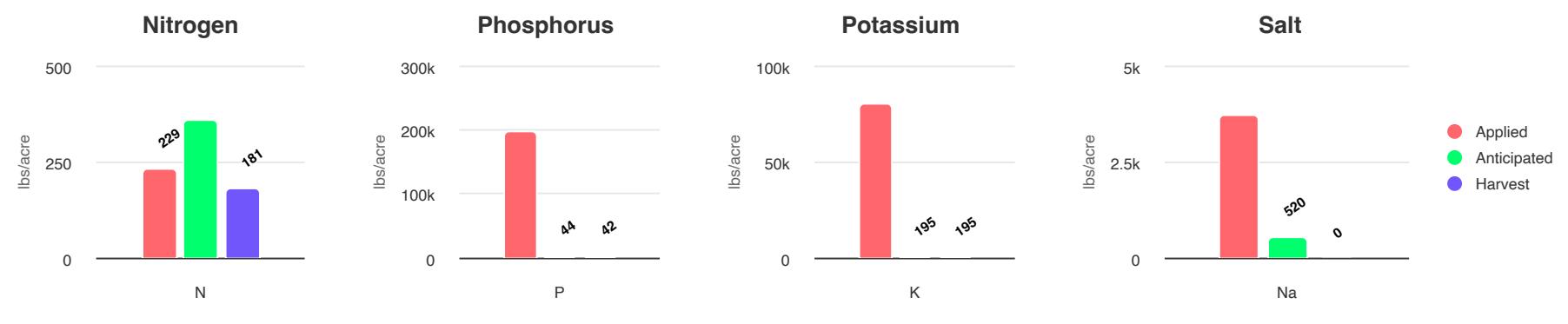
Fresh water applied		
32,257,621.39	gallons	
1,187.94	acre-inches	
34.43	inches/acre	
Process wastewater applied		
962,117.07	gallons	
35.43	acre-inches	
1.03	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: WSD-10

Crop: Triticale

Plant date: 10/03/2022

## 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	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	222.29	193,529.65	241.19	2,289.20
Fresh water	0.89	3,031.94	79,622.44	1,408.45
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>229.46</b>	<b>196,561.59</b>	<b>79,863.63</b>	<b>3,697.65</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	180.81	41.63	195.11	0.00
<b>Nutrient balance</b>	<b>48.65</b>	<b>196,519.96</b>	<b>79,668.52</b>	<b>3,697.65</b>
Applied to removed ratio	1.27	4,722.03	409.32	0.00

## Fresh water applied

29,256,977.72	gallons
1,077.44	acre-inches
31.23	inches/acre

## Process wastewater applied

1,318,109.73	gallons
48.54	acre-inches
1.41	inches/acre

## Total Harvests for the crop

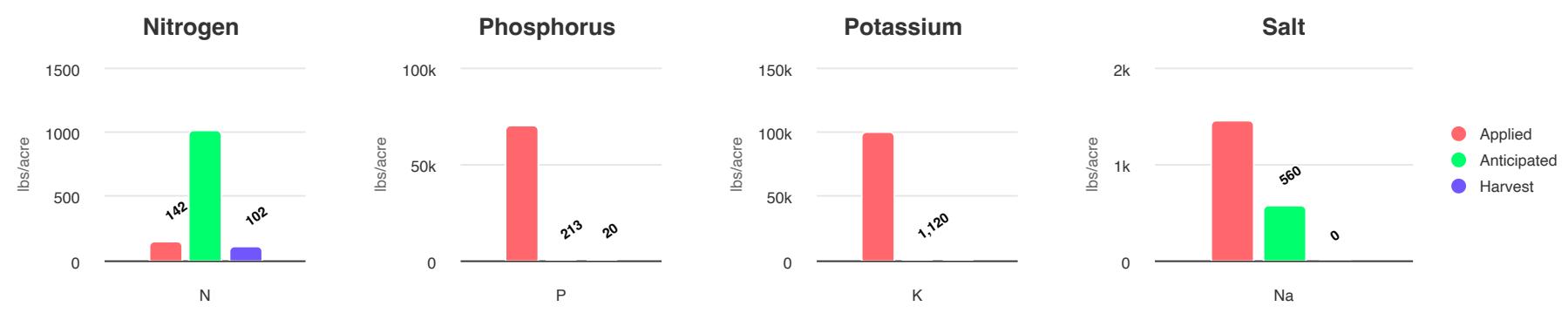
1	harvests
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Field name: WSD-11

Crop: Corn Silage

Plant date: 05/05/2023

## 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	52.33	5.76	6.12	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	75.46	62,970.12	112.44	605.48
Fresh water	0.17	7,358.45	99,431.21	850.41
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>141.96</b>	<b>70,334.33</b>	<b>99,549.77</b>	<b>1,455.89</b>
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	101.99	20.13	100.84	0.00
<b>Nutrient balance</b>	<b>39.97</b>	<b>70,314.20</b>	<b>99,448.93</b>	<b>1,455.89</b>
Applied to removed ratio	1.39	3,493.37	987.16	0.00

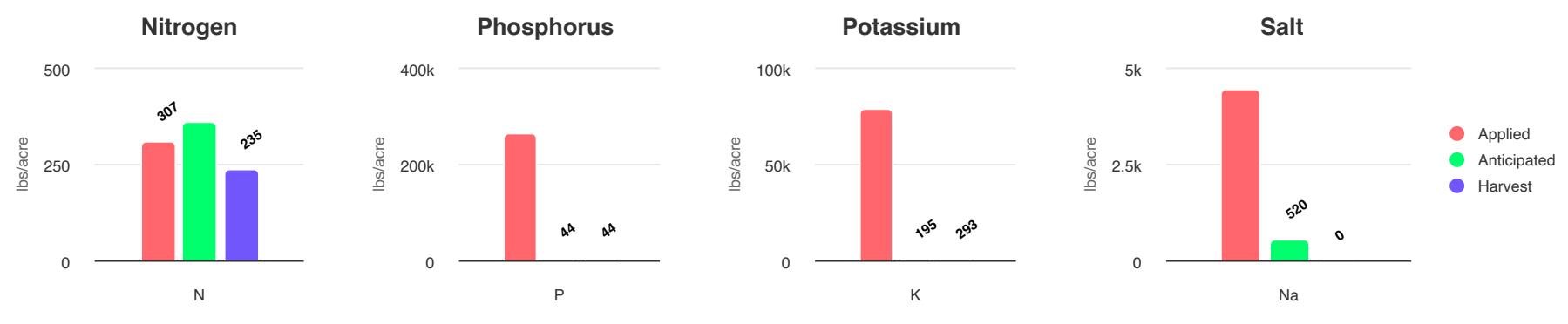
Fresh water applied		
105,781,988.80	gallons	
3,895.59	acre-inches	
32.47	inches/acre	
Process wastewater applied		
2,176,034.42	gallons	
80.14	acre-inches	
0.67	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: WSD-11

Crop: Triticale

Plant date: 10/03/2022

## 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	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	299.69	260,928.04	325.20	3,086.43
Fresh water	0.85	2,968.49	77,956.12	1,352.22
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>306.82</b>	<b>263,896.53</b>	<b>78,281.32</b>	<b>4,438.65</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	234.64	43.61	293.30	0.00
<b>Nutrient balance</b>	<b>72.18</b>	<b>263,852.92</b>	<b>77,988.02</b>	<b>4,438.65</b>
Applied to removed ratio	1.31	6,050.65	266.90	0.00

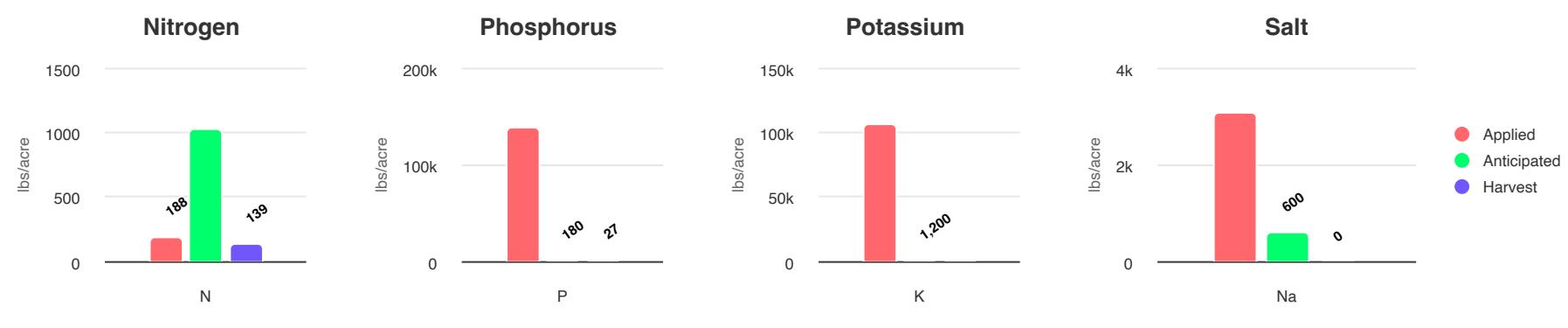
Fresh water applied	
98,214,729.80	gallons
3,616.91	acre-inches
30.15	inches/acre
Process wastewater applied	
6,179,546.94	gallons
227.57	acre-inches
1.90	inches/acre
Total Harvests for the crop	
1	harvests

Field name: WSD-12

Crop: Corn, Early Silage

Plant date: 03/03/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	56.64	19.96	84.34	1,124.88
Process wastewater	115.89	130,107.91	182.48	876.21
Fresh water	1.21	7,375.90	105,679.06	1,083.05
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>187.74</b>	<b>137,503.77</b>	<b>105,945.88</b>	<b>3,084.14</b>
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	139.25	26.61	127.81	0.00
<b>Nutrient balance</b>	<b>48.49</b>	<b>137,477.16</b>	<b>105,818.07</b>	<b>3,084.14</b>
Applied to removed ratio	1.35	5,168.15	828.94	0.00

## Fresh water applied

59,586,277.56 gallons  
2,194.36 acre-inches  
36.88 inches/acre

## Process wastewater applied

1,567,209.59 gallons  
57.71 acre-inches  
0.97 inches/acre

## Total Harvests for the crop

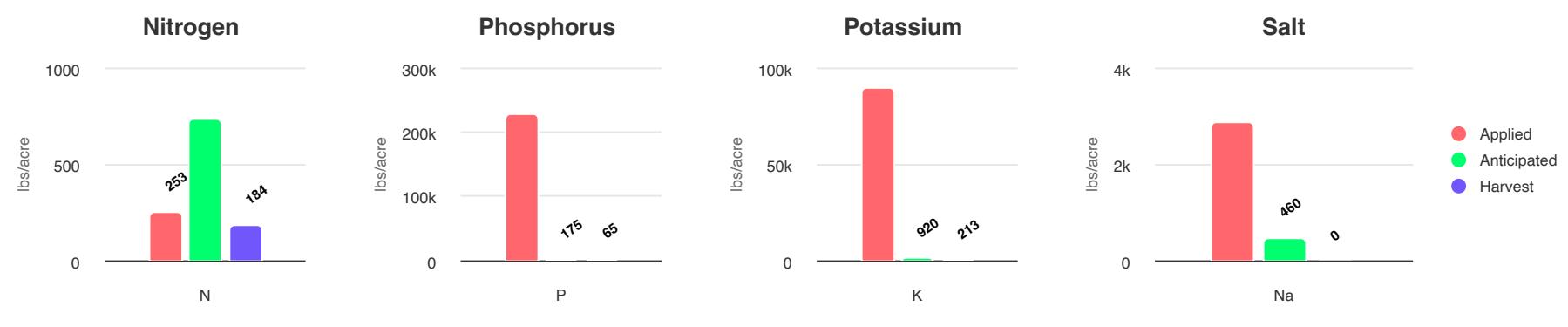
1 harvests

Field name: WSD-13

Crop: Corn, Late Silage

Plant date: 04/05/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	239.20	220,176.30	362.44	1,886.19
Fresh water	0.16	7,987.72	88,815.66	978.92
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>253.36</b>	<b>228,164.02</b>	<b>89,178.10</b>	<b>2,865.11</b>
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	183.55	65.37	212.64	0.00
<b>Nutrient balance</b>	<b>69.81</b>	<b>228,098.65</b>	<b>88,965.46</b>	<b>2,865.11</b>
Applied to removed ratio	1.38	3,490.45	419.39	0.00

## Fresh water applied

31,424,502.42 gallons  
1,157.26 acre-inches  
35.25 inches/acre

## Process wastewater applied

1,856,942.94 gallons  
68.38 acre-inches  
2.08 inches/acre

## Total Harvests for the crop

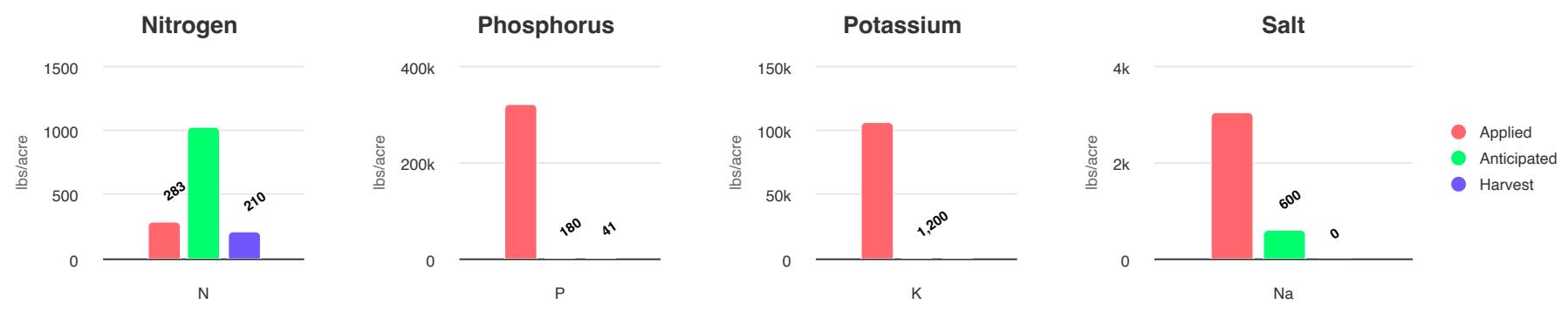
1 harvests

Field name: WSD-14A

Crop: Corn, Early Silage

Plant date: 03/03/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	269.10	311,937.63	426.60	2,018.86
Fresh water	0.12	8,327.63	105,582.15	1,020.39
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>283.22</b>	<b>320,265.26</b>	<b>106,008.75</b>	<b>3,039.25</b>
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	209.66	40.51	215.16	0.00
<b>Nutrient balance</b>	<b>73.56</b>	<b>320,224.75</b>	<b>105,793.59</b>	<b>3,039.25</b>
Applied to removed ratio	1.35	7,906.41	492.71	0.00

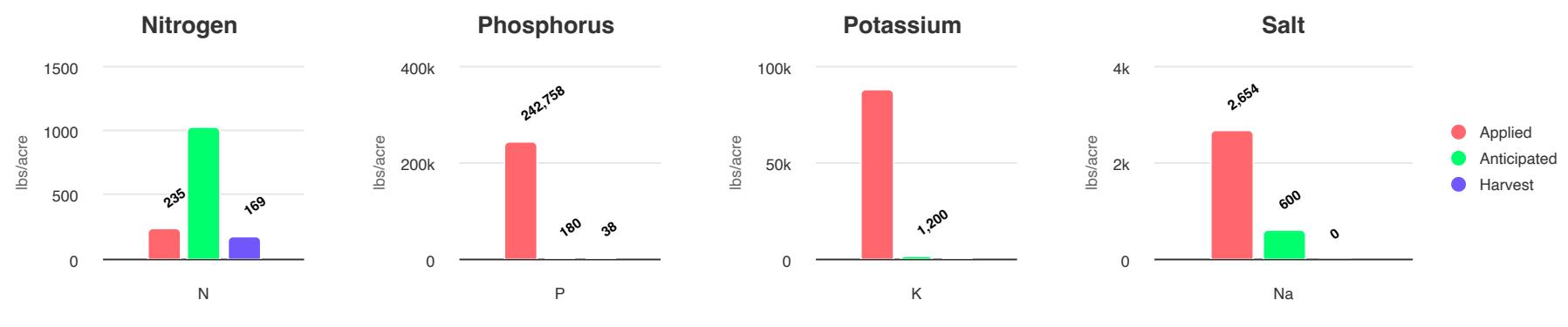
Fresh water applied		
71,041,926.94	gallons	
2,616.23	acre-inches	
36.75	inches/acre	
Process wastewater applied		
4,322,442.14	gallons	
159.18	acre-inches	
2.24	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: WSD-14B

Crop: Corn, Early Silage

Plant date: 03/20/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	221.31	234,928.58	344.50	1,694.99
Fresh water	0.16	7,829.10	87,068.45	959.42
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>235.47</b>	<b>242,757.68</b>	<b>87,412.95</b>	<b>2,654.41</b>
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	169.38	37.71	127.13	0.00
<b>Nutrient balance</b>	<b>66.09</b>	<b>242,719.97</b>	<b>87,285.82</b>	<b>2,654.41</b>
Applied to removed ratio	1.39	6,438.16	687.56	0.00

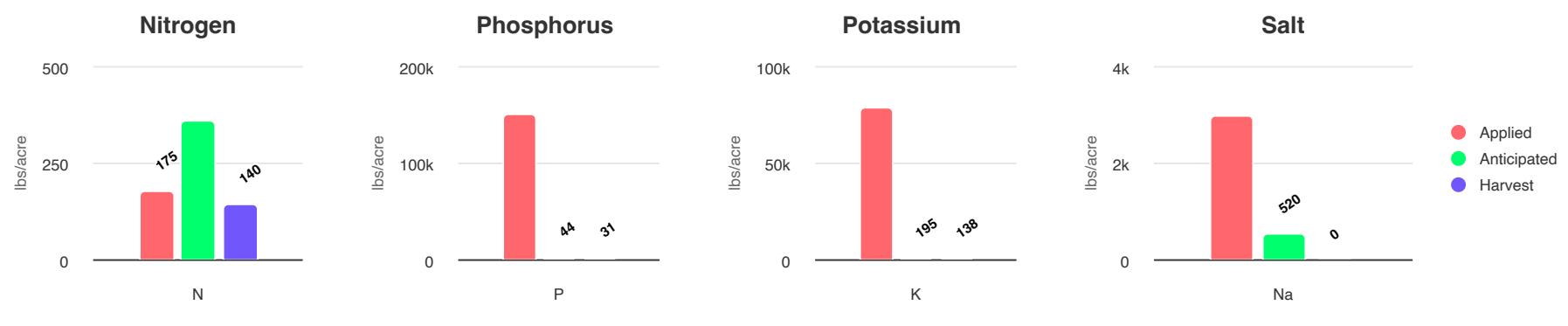
Fresh water applied	
63,833,807.02	gallons
2,350.78	acre-inches
34.55	inches/acre
Process wastewater applied	
3,464,208.03	gallons
127.58	acre-inches
1.88	inches/acre
Total Harvests for the crop	
1	harvests

Field name: WSD-14B

Crop: Triticale

Plant date: 10/03/2022

## Nutrient budgets in lbs/acre



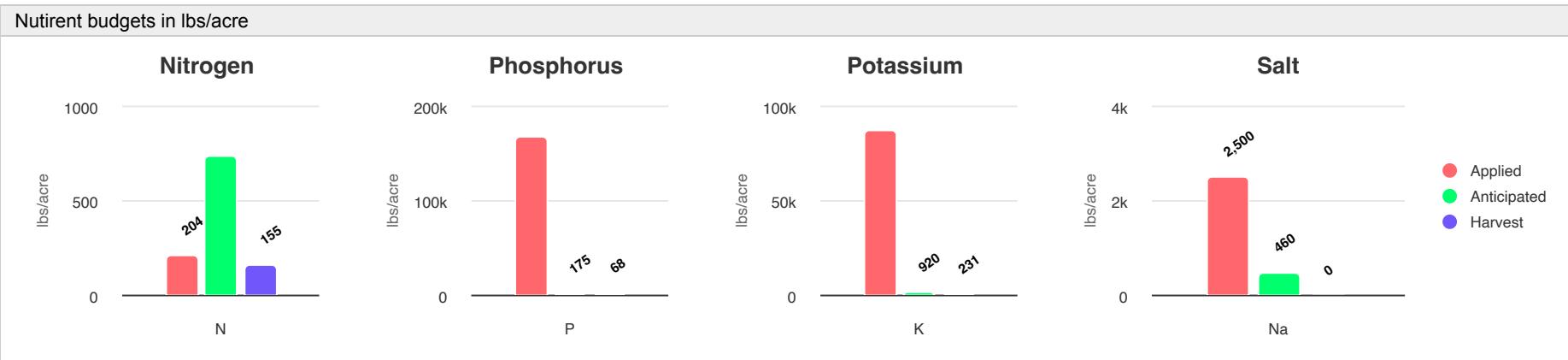
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	167.63	145,938.14	181.88	1,726.26
Fresh water	0.63	4,143.65	78,426.37	1,235.65
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>174.54</b>	<b>150,081.79</b>	<b>78,608.25</b>	<b>2,961.91</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	140.25	31.15	137.86	0.00
<b>Nutrient balance</b>	<b>34.29</b>	<b>150,050.64</b>	<b>78,470.39</b>	<b>2,961.91</b>
Applied to removed ratio	1.24	4,817.82	570.20	0.00

Fresh water applied
56,524,789.36 gallons
2,081.62 acre-inches
30.59 inches/acre
Process wastewater applied
1,960,279.83 gallons
72.19 acre-inches
1.06 inches/acre
Total Harvests for the crop
1 harvests

Field name: WSD-16

Crop: Corn, Late Silage

Plant date: 04/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	189.89	158,443.39	282.92	1,523.49
Fresh water	0.09	7,718.52	86,672.98	976.85
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>203.98</b>	<b>166,161.91</b>	<b>86,955.90</b>	<b>2,500.34</b>
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	154.89	67.57	231.31	0.00
<b>Nutrient balance</b>	<b>49.09</b>	<b>166,094.34</b>	<b>86,724.59</b>	<b>2,500.34</b>
Applied to removed ratio	1.32	2,458.99	375.92	0.00

Fresh water applied  
5,808,556.09 gallons  
213.91 acre-inches  
34.06 inches/acre

Process wastewater applied  
286,625.02 gallons  
10.56 acre-inches  
1.68 inches/acre

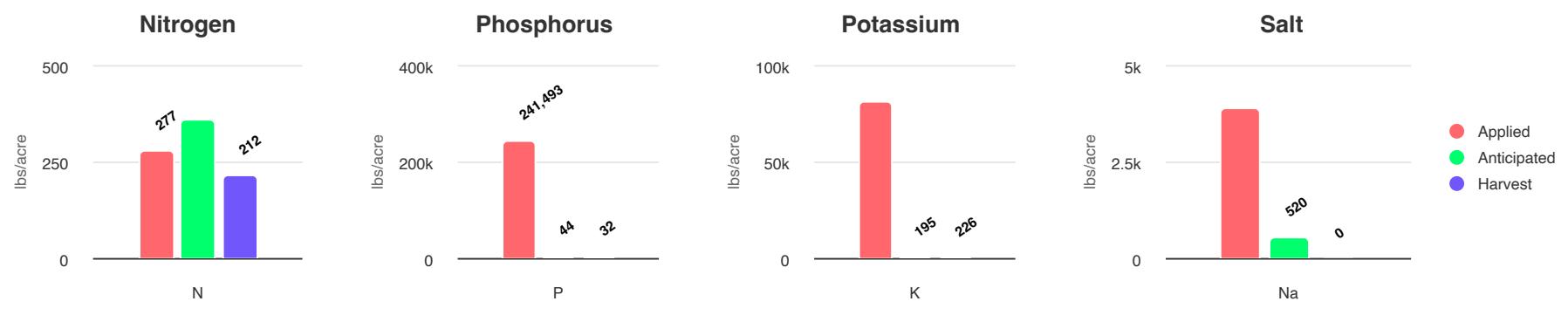
Total Harvests for the crop  
1 harvests

Field name: WSD-16

Crop: Triticale

Plant date: 10/03/2022

## 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	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	270.16	235,206.62	293.14	2,782.18
Fresh water	0.28	6,285.95	80,634.57	1,103.93
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>276.72</b>	<b>241,492.57</b>	<b>80,927.71</b>	<b>3,886.11</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	212.24	31.77	226.21	0.00
<b>Nutrient balance</b>	<b>64.48</b>	<b>241,460.80</b>	<b>80,701.50</b>	<b>3,886.11</b>
Applied to removed ratio	1.30	7,601.84	357.76	0.00

## Fresh water applied

5,583,116.78 gallons  
205.61 acre-inches  
32.74 inches/acre

## Process wastewater applied

291,604.46 gallons  
10.74 acre-inches  
1.71 inches/acre

## Total Harvests for the crop

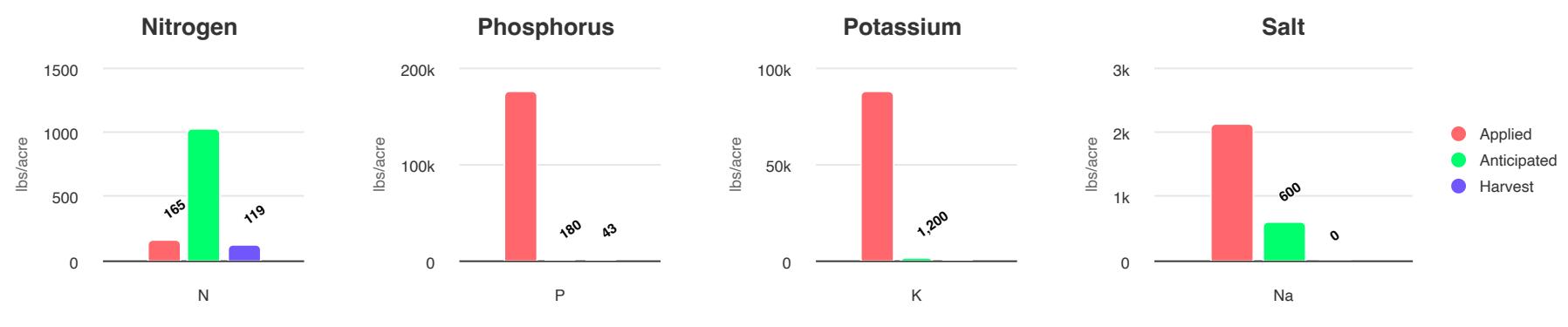
1 harvests

Field name: WSD-17

Crop: Corn, Early Silage

Plant date: 04/05/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	151.30	167,101.23	237.42	1,148.37
Fresh water	0.16	7,931.07	87,650.88	973.52
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>165.46</b>	<b>175,032.30</b>	<b>87,888.30</b>	<b>2,121.89</b>
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	119.22	43.37	155.29	0.00
<b>Nutrient balance</b>	<b>46.24</b>	<b>174,988.93</b>	<b>87,733.01</b>	<b>2,121.89</b>
Applied to removed ratio	1.39	4,036.25	565.95	0.00

## Fresh water applied

10,587,456.28 gallons  
389.90 acre-inches  
35.00 inches/acre

## Process wastewater applied

384,475.92 gallons  
14.16 acre-inches  
1.27 inches/acre

## Total Harvests for the crop

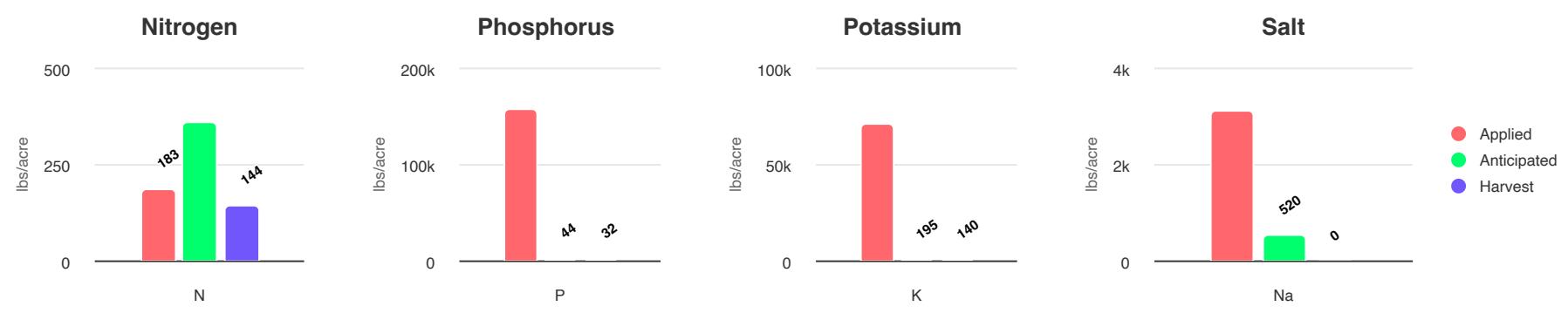
1 harvests

Field name: WSD-17

Crop: Triticale

Plant date: 10/03/2022

## 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	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	176.31	153,503.26	191.30	1,815.74
Fresh water	0.82	2,688.18	70,595.09	1,280.22
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>183.41</b>	<b>156,191.44</b>	<b>70,786.39</b>	<b>3,095.96</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	144.35	32.06	139.74	0.00
<b>Nutrient balance</b>	<b>39.06</b>	<b>156,159.38</b>	<b>70,646.65</b>	<b>3,095.96</b>
Applied to removed ratio	1.27	4,871.88	506.54	0.00

Fresh water applied	
8,527,439.66	gallons
314.04	acre-inches
28.19	inches/acre

Process wastewater applied	
337,588.61	gallons
12.43	acre-inches
1.12	inches/acre

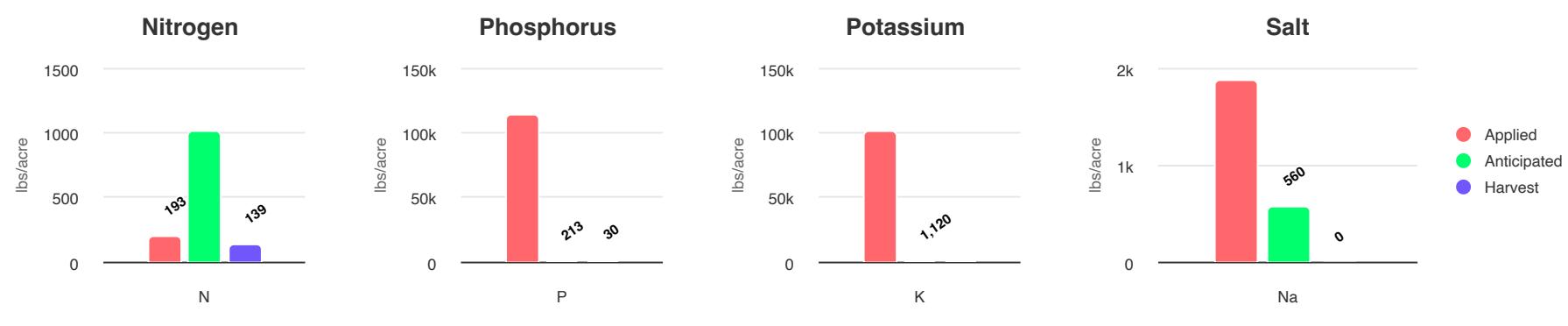
Total Harvests for the crop	
1	harvests

Field name: WSD-2

Crop: Corn Silage

Plant date: 06/05/2023

## 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	46.13	5.76	6.12	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	133.10	106,359.97	185.35	1,045.52
Fresh water	0.18	7,190.54	100,939.31	819.97
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>193.41</b>	<b>113,556.27</b>	<b>101,130.78</b>	<b>1,865.49</b>
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	139.42	30.47	162.42	0.00
<b>Nutrient balance</b>	<b>53.99</b>	<b>113,525.80</b>	<b>100,968.36</b>	<b>1,865.49</b>
Applied to removed ratio	1.39	3,726.70	622.66	0.00

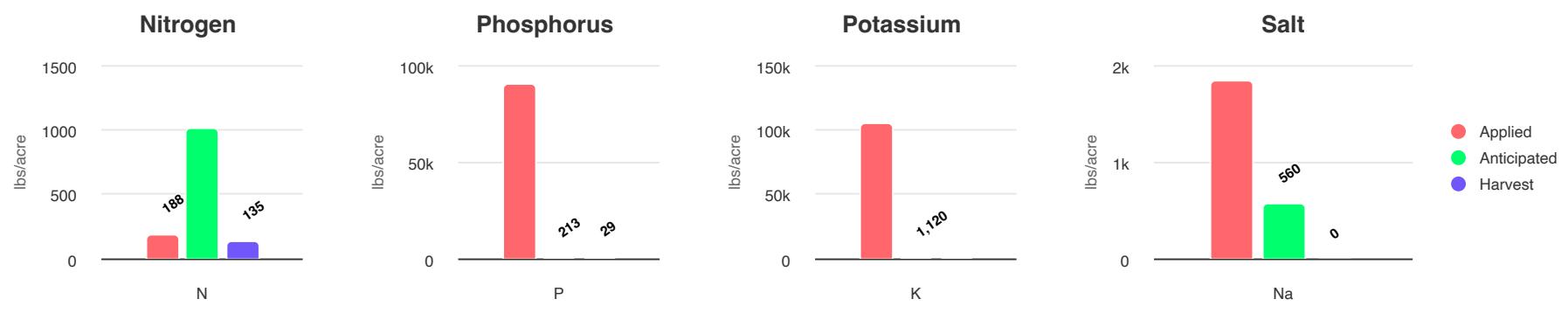
Fresh water applied		
54,653,269.45	gallons	
2,012.69	acre-inches	
31.73	inches/acre	
Process wastewater applied		
2,020,304.00	gallons	
74.40	acre-inches	
1.17	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: WSD-3

Crop: Corn Silage

Plant date: 06/15/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	46.13	5.76	6.12	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	127.61	82,448.87	123.93	909.35
Fresh water	0.18	7,916.36	104,789.33	921.25
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>187.92</b>	<b>90,370.99</b>	<b>104,919.38</b>	<b>1,830.60</b>
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	135.42	28.52	154.17	0.00
<b>Nutrient balance</b>	<b>52.50</b>	<b>90,342.47</b>	<b>104,765.21</b>	<b>1,830.60</b>
Applied to removed ratio	1.39	3,169.04	680.53	0.00

Fresh water applied		
70,198,987.48	gallons	
2,585.19	acre-inches	
34.93	inches/acre	

Process wastewater applied		
2,216,387.13	gallons	
81.62	acre-inches	
1.10	inches/acre	

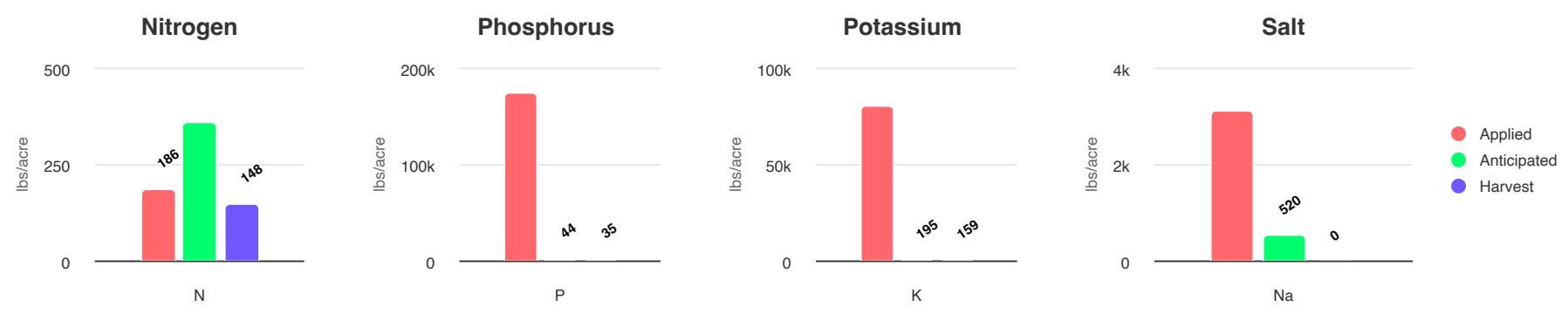
Total Harvests for the crop		
1	harvests	

Field name: WSD-3

Crop: Triticale

Plant date: 10/03/2022

## 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	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	178.69	169,238.99	213.06	1,733.07
Fresh water	0.75	4,032.85	79,557.31	1,364.33
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>185.72</b>	<b>173,271.84</b>	<b>79,770.37</b>	<b>3,097.40</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	148.22	35.08	158.73	0.00
<b>Nutrient balance</b>	<b>37.50</b>	<b>173,236.76</b>	<b>79,611.64</b>	<b>3,097.40</b>
Applied to removed ratio	1.25	4,939.91	502.55	0.00

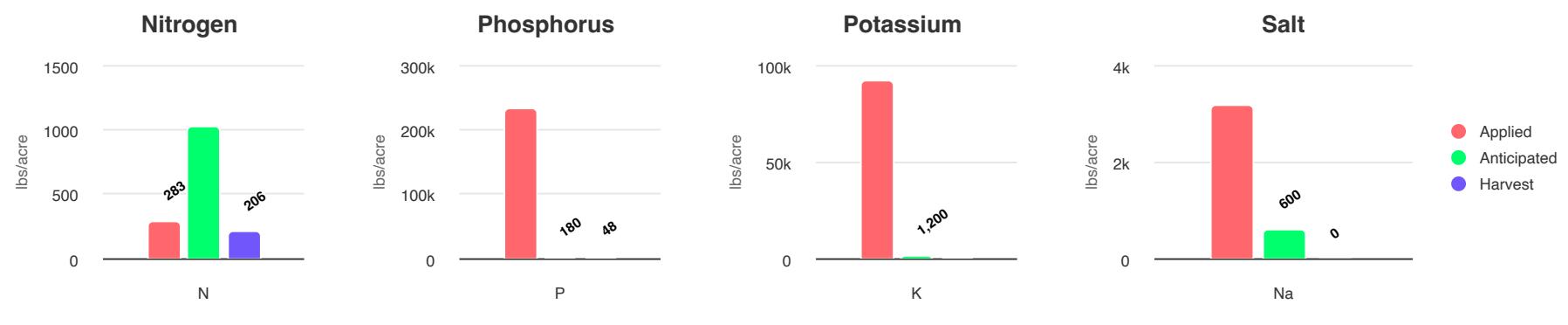
Fresh water applied	
65,245,773.93	gallons
2,402.78	acre-inches
32.47	inches/acre
Process wastewater applied	
2,407,281.69	gallons
88.65	acre-inches
1.20	inches/acre
Total Harvests for the crop	
1	harvests

Field name: WSD-4

Crop: Corn, Early Silage

Plant date: 05/16/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	268.99	224,448.90	400.78	2,158.16
Fresh water	0.16	8,157.67	91,727.55	996.77
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>283.15</b>	<b>232,606.57</b>	<b>92,128.33</b>	<b>3,154.93</b>
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	206.26	47.70	272.38	0.00
<b>Nutrient balance</b>	<b>76.89</b>	<b>232,558.87</b>	<b>91,855.95</b>	<b>3,154.93</b>
Applied to removed ratio	1.37	4,876.63	338.24	0.00

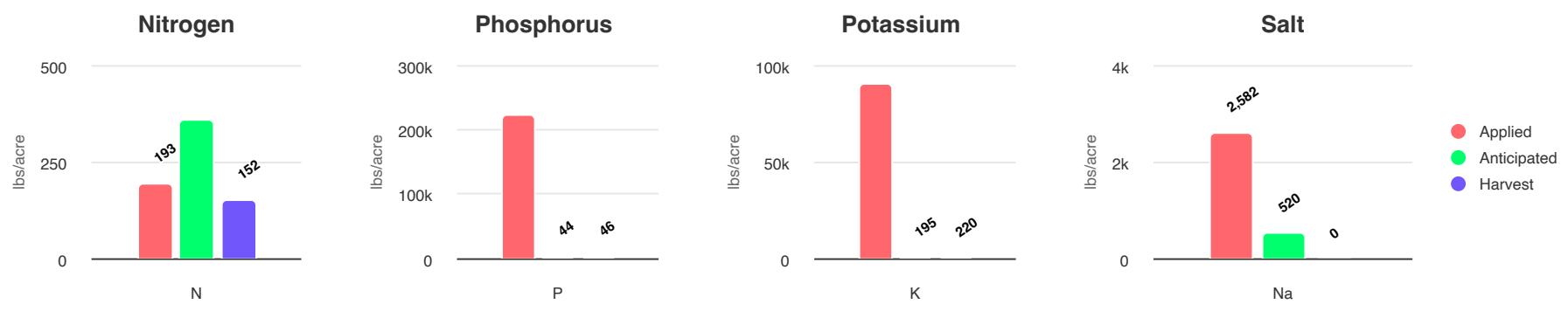
Fresh water applied		
38,528,446.34	gallons	
1,418.87	acre-inches	
36.00	inches/acre	
Process wastewater applied		
2,548,228.64	gallons	
93.84	acre-inches	
2.38	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: WSD-4

Crop: Triticale

Plant date: 11/16/2022

## 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	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	186.17	215,674.61	277.17	1,497.56
Fresh water	0.26	6,468.15	90,327.79	1,084.67
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>192.71</b>	<b>222,142.76</b>	<b>90,604.96</b>	<b>2,582.23</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	152.36	46.10	220.13	0.00
<b>Nutrient balance</b>	<b>40.35</b>	<b>222,096.66</b>	<b>90,384.83</b>	<b>2,582.23</b>
Applied to removed ratio	1.26	4,819.22	411.61	0.00

Fresh water applied		
35,467,575.22	gallons	
1,306.15	acre-inches	
33.14	inches/acre	

Process wastewater applied		
1,542,208.04	gallons	
56.79	acre-inches	
1.44	inches/acre	

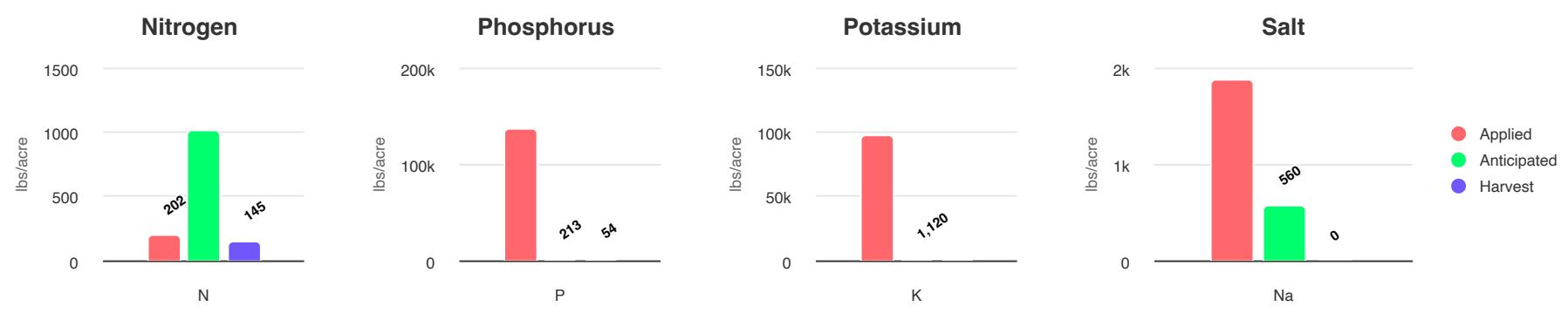
Total Harvests for the crop		
1	harvests	

Field name: WSD-5A

Crop: Corn Silage

Plant date: 04/05/2023

## 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	52.33	5.76	6.12	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	135.01	130,006.63	206.24	1,055.31
Fresh water	0.17	7,089.03	96,781.26	816.38
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>201.51</b>	<b>137,101.42</b>	<b>96,993.62</b>	<b>1,871.69</b>
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	144.95	53.51	202.55	0.00
<b>Nutrient balance</b>	<b>56.56</b>	<b>137,047.91</b>	<b>96,791.07</b>	<b>1,871.69</b>
Applied to removed ratio	1.39	2,562.19	478.86	0.00

## Fresh water applied

46,722,207.48 gallons  
1,720.62 acre-inches  
31.28 inches/acre

## Process wastewater applied

1,741,404.35 gallons  
64.13 acre-inches  
1.17 inches/acre

## Total Harvests for the crop

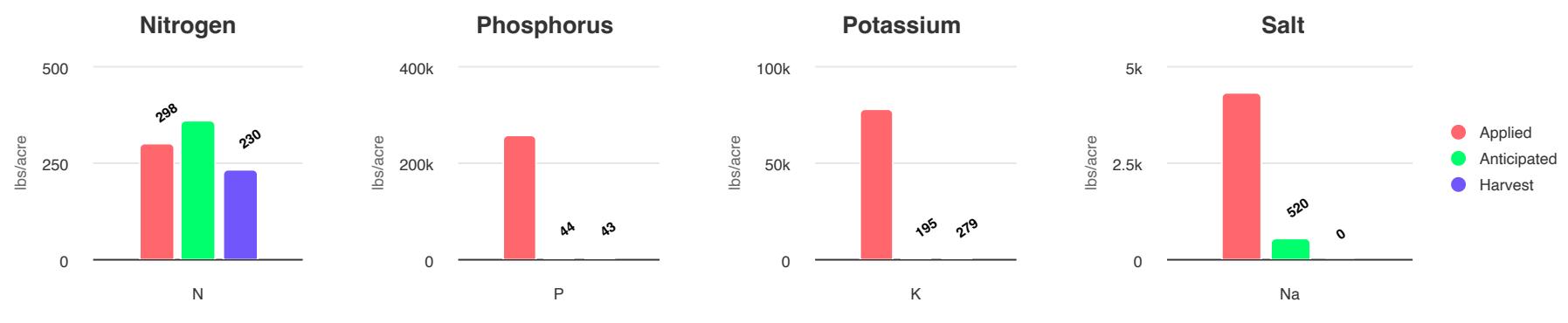
1 harvests

Field name: WSD-5A

Crop: Triticale

Plant date: 10/03/2022

## 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	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	290.85	253,225.38	315.59	2,995.32
Fresh water	0.72	3,913.42	77,480.40	1,314.59
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>297.85</b>	<b>257,138.80</b>	<b>77,795.99</b>	<b>4,309.91</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	229.87	42.76	279.47	0.00
<b>Nutrient balance</b>	<b>67.98</b>	<b>257,096.04</b>	<b>77,516.52</b>	<b>4,309.91</b>
Applied to removed ratio	1.30	6,013.17	278.37	0.00

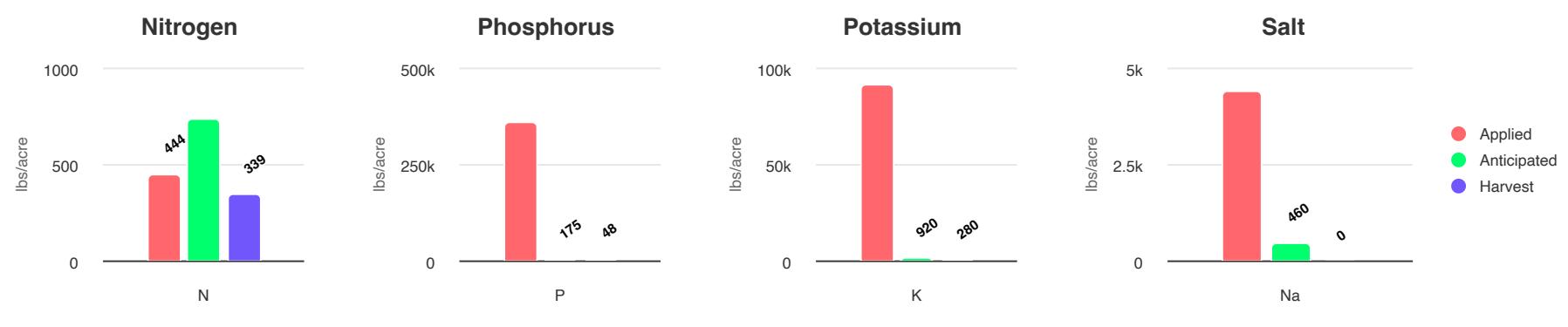
Fresh water applied	
46,850,645.78	gallons
1,725.35	acre-inches
31.37	inches/acre
Process wastewater applied	
2,749,507.17	gallons
101.25	acre-inches
1.84	inches/acre
Total Harvests for the crop	
1	harvests

Field name: WSD-5B

Crop: Corn, Late Silage

Plant date: 05/11/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	429.56	350,917.58	619.33	3,410.66
Fresh water	0.16	7,963.73	90,859.66	969.24
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>443.72</b>	<b>358,881.31</b>	<b>91,478.99</b>	<b>4,379.90</b>
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	339.35	47.84	280.06	0.00
<b>Nutrient balance</b>	<b>104.37</b>	<b>358,833.47</b>	<b>91,198.93</b>	<b>4,379.90</b>
Applied to removed ratio	1.31	7,501.10	326.64	0.00

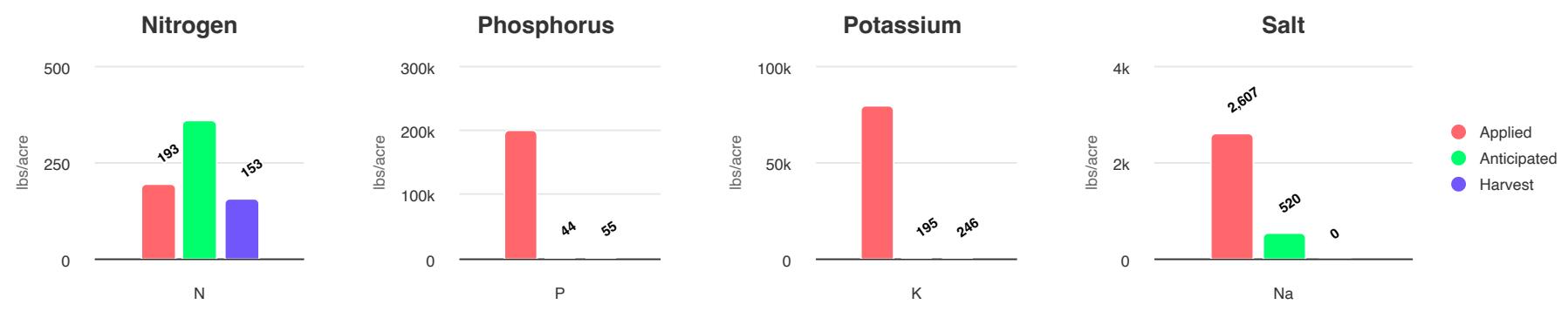
Fresh water applied
64,893,095.47 gallons
2,389.79 acre-inches
35.14 inches/acre
Process wastewater applied
7,005,588.51 gallons
257.99 acre-inches
3.79 inches/acre
Total Harvests for the crop
1 harvests

Field name: WSD-5B

Crop: Triticale

Plant date: 11/10/2022

## 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	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	186.70	193,416.35	245.88	1,680.79
Fresh water	0.04	7,137.53	78,855.23	926.15
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>193.02</b>	<b>200,553.88</b>	<b>79,101.11</b>	<b>2,606.94</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	153.09	55.32	246.08	0.00
<b>Nutrient balance</b>	<b>39.93</b>	<b>200,498.56</b>	<b>78,855.03</b>	<b>2,606.94</b>
Applied to removed ratio	1.26	3,625.27	321.44	0.00

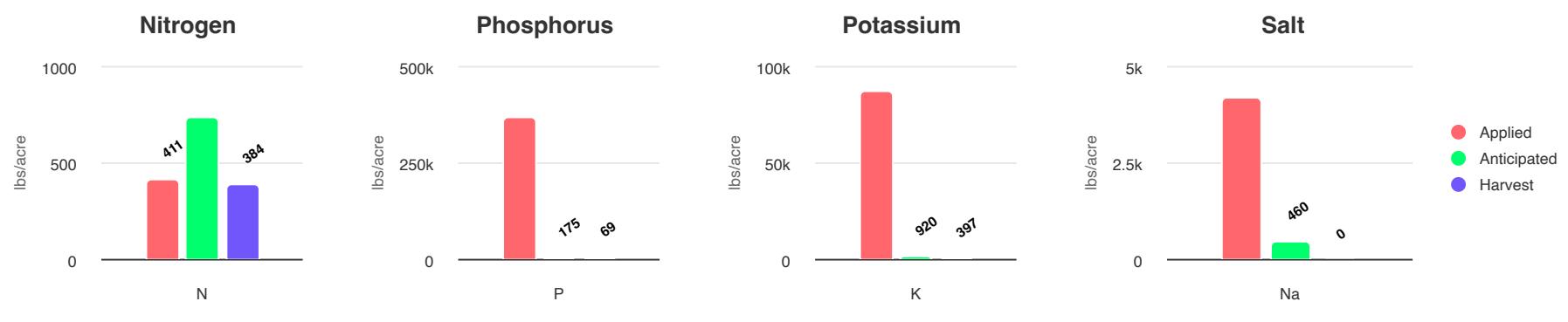
Fresh water applied
58,160,785.72 gallons
2,141.86 acre-inches
31.50 inches/acre
Process wastewater applied
2,461,373.07 gallons
90.64 acre-inches
1.33 inches/acre
Total Harvests for the crop
1 harvests

Field name: WSD-6

Crop: Corn, Late Silage

Plant date: 04/03/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	396.41	356,487.23	598.19	3,139.30
Fresh water	0.16	8,288.89	86,416.67	1,032.59
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>410.57</b>	<b>364,776.12</b>	<b>87,014.86</b>	<b>4,171.89</b>
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	383.69	69.41	397.11	0.00
<b>Nutrient balance</b>	<b>26.88</b>	<b>364,706.71</b>	<b>86,617.75</b>	<b>4,171.89</b>
Applied to removed ratio	1.07	5,255.17	219.12	0.00

## Fresh water applied

59,864,781.13 gallons  
2,204.62 acre-inches  
36.58 inches/acre

## Process wastewater applied

5,672,416.83 gallons  
208.90 acre-inches  
3.47 inches/acre

## Total Harvests for the crop

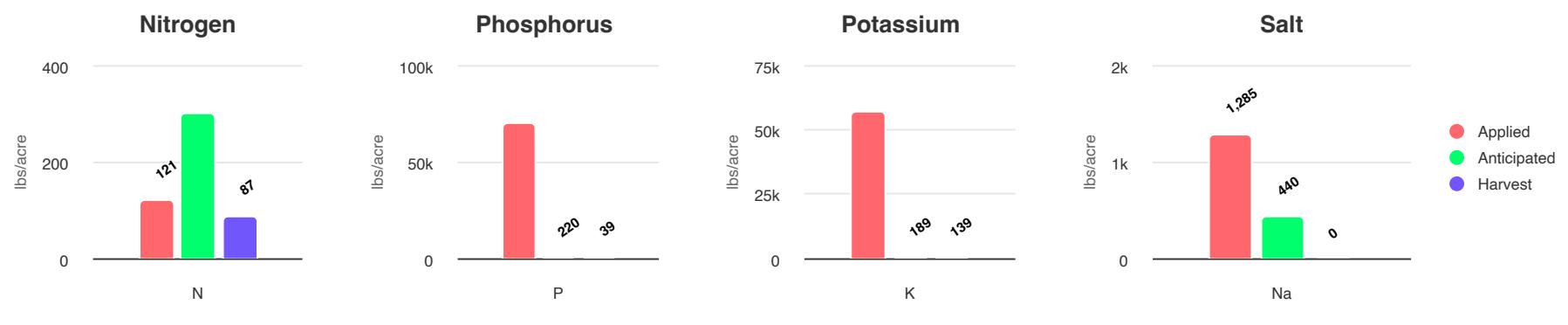
1 harvests

Field name: WSD-6

Crop: Milo

Plant date: 08/15/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	106.50	65,663.06	94.77	743.90
Fresh water	0.10	4,566.03	57,074.43	541.19
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>120.60</b>	<b>70,229.09</b>	<b>57,169.20</b>	<b>1,285.09</b>
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	87.09	38.90	139.24	0.00
<b>Nutrient balance</b>	<b>33.51</b>	<b>70,190.19</b>	<b>57,029.96</b>	<b>1,285.09</b>
Applied to removed ratio	1.38	1,805.48	410.58	0.00

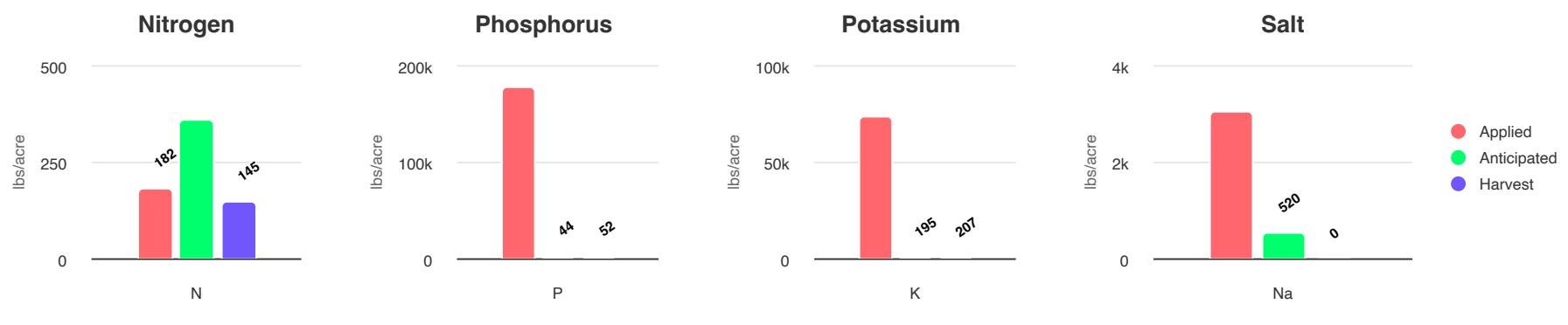
Fresh water applied		
32,977,264.59	gallons	
1,214.44	acre-inches	
20.15	inches/acre	
Process wastewater applied		
1,500,751.98	gallons	
55.27	acre-inches	
0.92	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: WSD-6

Crop: Triticale

Plant date: 10/18/2022

## 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	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	175.01	172,827.92	218.59	1,642.02
Fresh water	0.81	3,651.70	72,910.58	1,381.76
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>182.10</b>	<b>176,479.62</b>	<b>73,129.17</b>	<b>3,023.78</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	145.36	52.33	206.88	0.00
<b>Nutrient balance</b>	<b>36.74</b>	<b>176,427.29</b>	<b>72,922.29</b>	<b>3,023.78</b>
Applied to removed ratio	1.25	3,372.38	353.49	0.00

Fresh water applied		
51,986,242.02	gallons	
1,914.48	acre-inches	
31.76	inches/acre	

Process wastewater applied		
1,976,999.28	gallons	
72.81	acre-inches	
1.21	inches/acre	

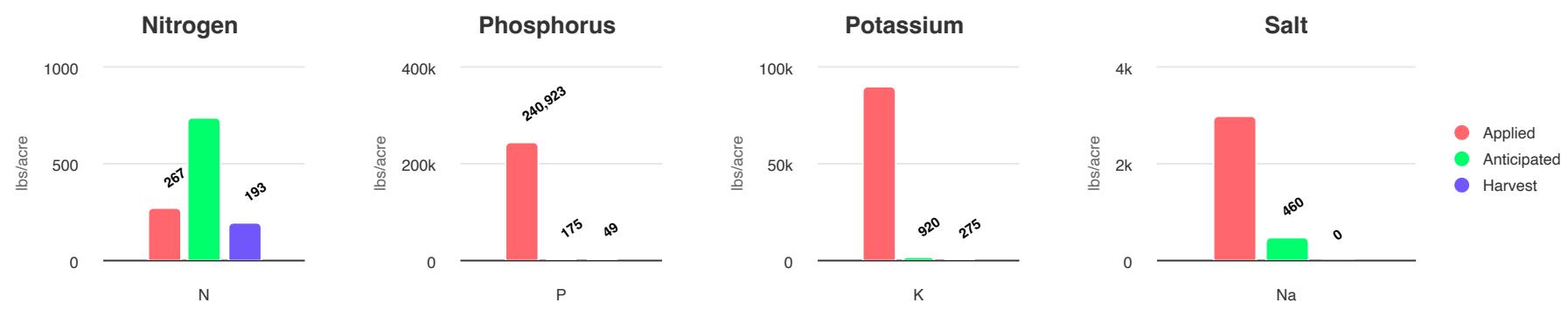
Total Harvests for the crop		
1	harvests	

Field name: WSD-7

Crop: Corn, Late Silage

Plant date: 04/03/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	253.10	232,980.25	383.50	1,995.76
Fresh water	0.16	7,942.40	89,106.77	971.04
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>267.26</b>	<b>240,922.65</b>	<b>89,490.27</b>	<b>2,966.80</b>
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	192.79	49.37	275.19	0.00
<b>Nutrient balance</b>	<b>74.47</b>	<b>240,873.28</b>	<b>89,215.08</b>	<b>2,966.80</b>
Applied to removed ratio	1.39	4,879.82	325.19	0.00

## Fresh water applied

104,931,288.13 gallons  
3,864.26 acre-inches  
35.05 inches/acre

## Process wastewater applied

6,598,247.09 gallons  
242.99 acre-inches  
2.20 inches/acre

## Total Harvests for the crop

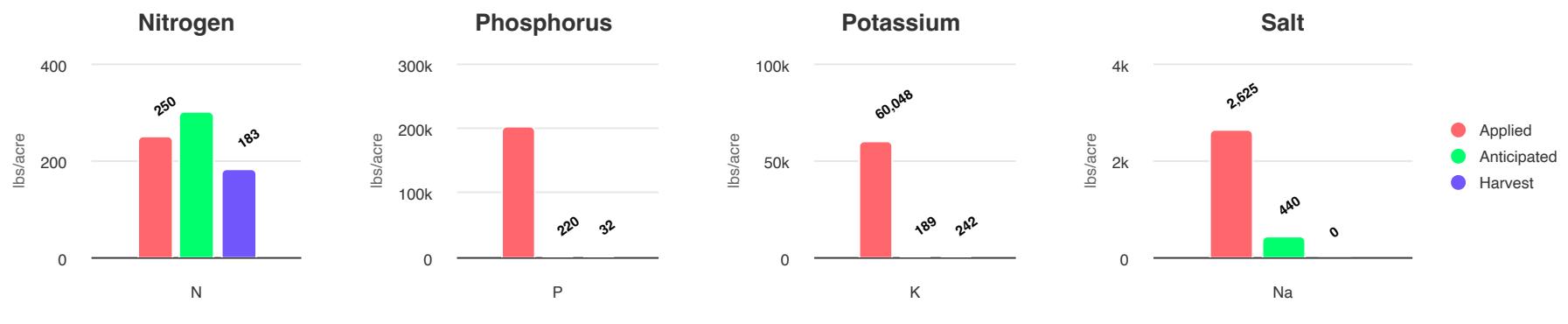
1 harvests

Field name: WSD-8

Crop: Milo

Plant date: 06/05/2023

## Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	235.89	196,828.76	351.47	1,892.58
Fresh water	0.11	5,846.33	59,696.24	731.99
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>250.00</b>	<b>202,675.09</b>	<b>60,047.71</b>	<b>2,624.57</b>
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	182.68	31.52	242.24	0.00
<b>Nutrient balance</b>	<b>67.32</b>	<b>202,643.57</b>	<b>59,805.47</b>	<b>2,624.57</b>
Applied to removed ratio	1.37	6,429.90	247.89	0.00

Fresh water applied		
52,146,874.12	gallons	
1,920.39	acre-inches	
25.80	inches/acre	

Process wastewater applied		
4,220,258.62	gallons	
155.42	acre-inches	
2.09	inches/acre	

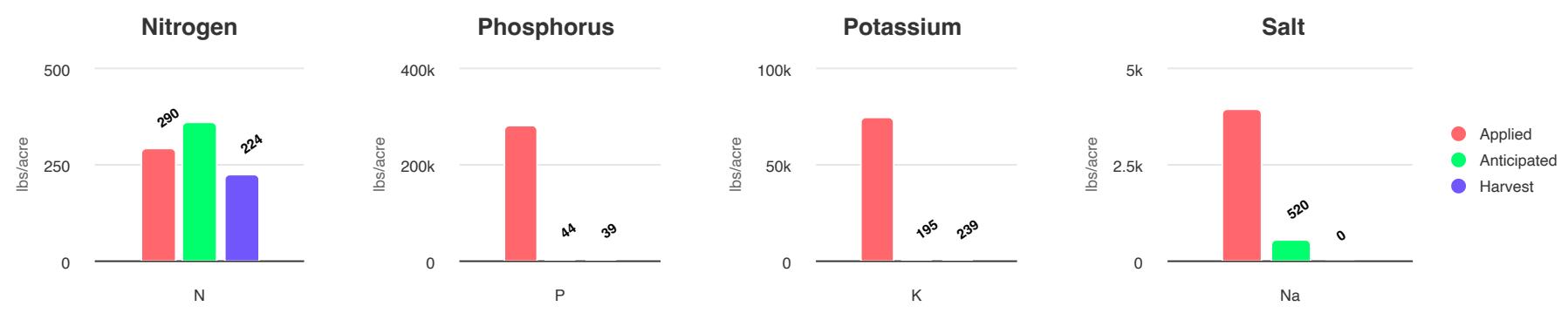
Total Harvests for the crop		
1	harvests	

Field name: WSD-9

Crop: Triticale

Plant date: 10/03/2022

## 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	6.28	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	283.03	275,499.28	347.90	2,686.90
Fresh water	0.64	3,953.99	73,987.27	1,235.08
Atmospheric deposition	0.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>289.95</b>	<b>279,453.27</b>	<b>74,335.17</b>	<b>3,921.98</b>
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	224.29	38.66	239.50	0.00
<b>Nutrient balance</b>	<b>65.66</b>	<b>279,414.61</b>	<b>74,095.67</b>	<b>3,921.98</b>
Applied to removed ratio	1.29	7,228.34	310.38	0.00

Fresh water applied		
53,545,768.14	gallons	
1,971.91	acre-inches	
30.05	inches/acre	
Process wastewater applied		
3,445,600.35	gallons	
126.89	acre-inches	
1.93	inches/acre	
Total Harvests for the crop		
1	harvests	

## NUTRIENT ANALYSES

### A. MANURE ANALYSES

T3090002A

Sample and source description name:	T3090002A									
Sample date:	03/17/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	56.4%									

	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	21,650.00	7,630.00	32,240.00	26,460.00	10,150.00	6,250.00	9,000.00	1,869.00	32,240.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3090002B

Sample and source description name:	T3090002B									
Sample date:	03/17/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	70.3%									

	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	17,830.00	2,260.00	5,190.00	7,440.00	3,680.00	1,640.00	2,800.00	519.00	5,190.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3090002C

Sample and source description name:	T3090002C									
Sample date:	03/17/2023	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	27,060.00	8,030.00	8,770.00	10,600.00	6,900.00	4,240.00	3,300.00	848.00	8,770.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167063A

Sample and source description name:	T3167063A									
Sample date:	06/12/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	

Moisture: 7.3%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	27,950.00	6,560.00	18,600.00	11,070.00	6,830.00	4,570.00	3,700.00	894.00	18,600.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

#### T3167063B

Sample and source description name:

T3167063B

Sample date: 06/12/2023

Material type: Corral solids

Source of analysis:

Lab Analysis

Method of reporting:

As-is

Moisture: 73.8%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	20,620.00	2,180.00	3,060.00	6,810.00	3,160.00	1,460.00	2,500.00	473.00	3,060.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

#### T3167063C

Sample and source description name:

T3167063C

Sample date: 06/12/2023

Material type: Corral solids

Source of analysis:

Lab Analysis

Method of reporting:

As-is

Moisture: 83.8%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	26,540.00	7,530.00	9,530.00	9,500.00	6,900.00	3,920.00	2,600.00	767.00	9,530.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

#### T3263073A

Sample and source description name:

T3263073A

Sample date: 09/15/2023

Material type: Corral solids

Source of analysis:

Lab Analysis

Method of reporting:

As-is

Moisture: 17%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	24,700.00	6,820.00	22,460.00	12,990.00	7,120.00	4,440.00	4,530.00	996.00	22,460.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10



<b>Value</b>	13,810.00	1,570.00	5,210.00	5,730.00	2,140.00	1,320.00	1,640.00	403.00	5,210.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362033C

Sample and source description name: T3362033C  
Sample date: 12/22/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is  
Moisture: 85.6%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
<b>Value</b>	32,760.00	6,690.00	8,550.00	9,960.00	5,910.00	3,380.00	2,210.00	762.00	8,550.00	0.00
<b>DL</b>	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

## B. PROCESS WASTEWATER ANALYSES

T3089014A

Sample and source description name:	T3089014A
Sample date:	03/17/2023
Material type:	Process wastewater
Source of analysis:	Lab Analysis

	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	540.40	0.00	386.40	0.06	67.30	870.41	165.94	78.50	271.02	0.00	0.00	241.67	261.64	6.68	3,980.00
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

T3167002A

Sample and source description name:	T3167002A
Sample date:	06/12/2023
Material type:	Process wastewater
Source of analysis:	Lab Analysis

	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	498.40	0.00	453.60	0.15	41.60	742.82	119.31	71.23	242.79	0.00	0.00	367.61	250.94	6.47	4,000.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

T3263054A

Sample and source description name: T3263054A

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	512.40	0.00	414.40	0.11	31.60	456.07	83.15	60.71	244.99	0.00	0.00	202.81	216.02	6.04	3,580.00
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

T3362074A

Sample and source description name:	T3362074A														
Sample date:	12/22/2023	Material type:	Process wastewater				Source of analysis:	Lab Analysis			pH:	0			
	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	683.20	0.00	450.80	0.09	94.20	728.95	126.83	97.17	265.66	0.00	0.00	284.58	300.74	7.02	4,700.00
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**

WSD #1														
T3228023A														
Sample and source description name:	T3228023A													
Sample date:	08/14/2023	Source of analysis:	Lab Analysis											
	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)		
Value	0.00	0.00	0.00	27.87	0.75	92.93	0.00	0.00	118.83	27.00	0.58	295.00		
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10		

WSD #3														
T3228023B														
Sample and source description name:	T3228023B													
Sample date:	08/14/2023	Source of analysis:	Lab Analysis											
	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)		

<b>Value</b>	0.00	0.00	0.00	8.84	0.23	59.77	0.00	0.00	47.00	12.92	0.35	145.00
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

#### Canal - Kern Delta

T3362072C-178-2156

Sample and source description name: T3362072C-178-2156

Sample date: 12/27/2023

Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
<b>Value</b>	5.64	0.00	0.04	16.51	6.29	23.76	0.00	0.00	23.77	27.71	0.28	80.00
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

#### Canal - Farmers

T3362072B-185-2358

Sample and source description name: T3362072B-185-2358

Sample date: 12/27/2023

Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
<b>Value</b>	2.80	0.00	0.00	16.59	6.27	23.89	0.00	0.00	22.73	26.87	0.28	100.00
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

#### Canal - Buena Vista

T3362072A-1893-2359

Sample and source description name:

T3362072A-1893-2359

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	5.61	0.00	0.01	17.65	5.28	28.42	0.00	0.00	20.73	29.20	0.27	175.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

LR #1

T3362069A

Sample and source description name:

T3362069A

Sample date: 12/27/2023

Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	2.85	0.00	0.05	201.75	4.57	248.28	0.00	0.00	304.82	21.23	1.86	1,155.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

LR #3

T3362069B

Sample and source description name:

T3362069B

Sample date: 12/27/2023

Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	2.81	0.00	0.01	204.36	4.51	244.74	0.00	0.00	274.18	16.70	1.86	1,150.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

WSD Dom W4

T3362069C

Sample and source description name:

T3362069C

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	8.90	0.00	3.30	48.43	0.09	127.59	0.00	0.00	99.69	149.62	0.85	355.00
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

No soil analyses entered.

#### E. PLANT TISSUE ANALYSES

WSD-1 - 05/01/2023: Corn, Early Silage

T3228042A

Sample description: T3228042A

Sample date: 08/11/2023      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	11,100.00	2,340.00	11,100.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-10 - 10/01/2022: Triticale

T3167037A

Sample description: T3167037A

Sample date: 06/09/2023      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	9,860.00	2,270.00	10,640.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-11 - 10/01/2022: Triticale

T3167037B

Sample description: T3167037B  
Sample date: 06/09/2023 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	13,880.00	2,580.00	17,350.00	160.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-12 - 03/01/2023: Corn, Early Silage

T3228043B

Sample description: T3228043B  
Sample date: 08/11/2023 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	11,200.00	2,140.00	10,280.00	60.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-14A - 03/01/2023: Corn, Early Silage

T3228043C

Sample description: T3228043C  
Sample date: 08/11/2023 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	10,300.00	1,990.00	10,570.00	60.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-14B - 10/01/2022: Triticale

T3167037D

Sample description: T3167037D  
Sample date: 06/09/2023 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	10,580.00	2,350.00	10,400.00	180.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-16 - 10/01/2022: Triticale

T3167037E

Sample  
description: T3167037E

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	17,170.00	2,570.00	18,300.00	210.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-17 - 10/01/2022: Triticale

T3167037F

Sample  
description: T3167037F

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	9,410.00	2,090.00	9,110.00	140.00	0.00
DL	100.00	200.00	500.00		0.10

LR-21(7) - 01/01/2023: Alfalfa

T3167029C

Sample  
description: T3167029C

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	47,110.00	2,950.00	25,520.00	810.00	0.00
DL	100.00	200.00	500.00		0.10

LR-22(8) - 10/01/2022: Triticale

T3167039D

Sample  
description: T3167039D

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	19,700.00	2,730.00	18,840.00	170.00	0.00
DL	100.00	200.00	500.00		0.10

LR-23(6) - 01/01/2023: Alfalfa

T3167029D

Sample  
description: T3167029D

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	43,010.00	2,910.00	9,890.00	300.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-3 - 10/01/2022: Triticale

T3167039A

Sample  
description: T3167039A

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	9,170.00	2,170.00	9,820.00	140.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-4 - 05/15/2023: Corn, Early Silage

T322804D

Sample description: T322804D  
Sample date: 08/11/2023 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	11,200.00	2,590.00	14,790.00	60.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-5A - 10/01/2022: Triticale

T3362049F

Sample description: T3362049F  
Sample date: 06/01/2023 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	9,630.00	3,480.00	15,480.00	120.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-5B - 05/10/2023: Corn, Late Silage

T3342003A

Sample  
description: T3342003A

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	19,860.00	2,800.00	16,390.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-6 - 04/01/2023: Corn, Late Silage

T3342003B

Sample  
description: T3342003B

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	20,010.00	3,620.00	20,710.00	90.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-7 - 04/01/2023: Corn, Late Silage

T3342003C

Sample  
description: T3342003C

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	11,090.00	2,840.00	15,830.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-9 - 10/01/2022: Triticale

T3167039C

Sample  
description: T3167039C

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	15,780.00	2,720.00	16,850.00	160.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-2 - 06/01/2023: Corn Silage

T3228042B

Sample description: T3228042B  
Sample date: 08/11/2023 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	9,700.00	2,120.00	11,300.00	130.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-3 - 06/01/2023: Corn Silage

T3228042C

Sample description: T3228042C  
Sample date: 08/11/2023 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	10,400.00	2,190.00	11,840.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-11 - 05/01/2023: Corn Silage

T3228043A

Sample description: T3228043A  
Sample date: 08/11/2023 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	11,600.00	2,290.00	11,470.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

LR-25(2) - 05/01/2023: Corn, Late Silage

T3228044B

Sample description: T3228044B  
Sample date: 08/11/2023 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	11,900.00	2,190.00	10,730.00	160.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-10 - 05/02/2023: Corn Silage

T3228042F

Sample description: T3228042F  
Sample date: 08/11/2023 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	10,500.00	2,230.00	11,220.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

LR-18 (1) - 06/01/2023: Corn, Late Silage

T3228043D

Sample description: T3228043D  
Sample date: 08/11/2023 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	11,700.00	1,940.00	10,450.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-5A - 04/01/2023: Corn Silage

T3362047E

Sample  
description: T3362047E

Sample date: 10/20/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	9,210.00	3,400.00	12,870.00	90.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-17 - 04/01/2023: Corn, Early Silage

T3362047D

Sample  
description: T3362047D

Sample date: 10/20/2023

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	8,990.00	3,270.00	11,710.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-14B - 03/16/2023: Corn, Early Silage

T3362048D

Sample  
description: T3362048D

Sample date: 10/20/2023

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	16,130.00	3,690.00	21,840.00	530.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-13 - 04/01/2023: Corn, Late Silage

T3362047A

Sample  
description: T3362047A

Sample date: 10/28/2023

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	11,990.00	4,270.00	13,890.00	260.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-16 - 04/01/2023: Corn, Late Silage

T3362047C

Sample  
description: T3362047C

Sample date: 10/20/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	9,100.00	3,970.00	13,590.00	120.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-8 - 06/01/2023: Milo

T3362050B

Sample  
description: T3362050B

Sample date: 11/01/2023

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	17,850.00	3,080.00	23,670.00	660.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-6 - 10/15/2022: Triticale

T3362049D

Sample  
description: T3362049D

Sample date: 06/01/2023

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	9,500.00	3,420.00	13,520.00	120.00	0.00
DL	100.00	200.00	500.00		0.10

LR-19 (3) - 07/01/2023: Milo

T3362050C

Sample  
description: T3362050C

Sample date: 11/01/2023

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	17,120.00	2,740.00	20,700.00	630.00	0.00
DL	100.00	200.00	500.00		0.10

LR-22(8) - 08/04/2023: Milo

T3362050D

Sample  
description: T3362050D

Sample date: 11/01/2023

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	17,510.00	3,190.00	24,270.00	700.00	0.00
DL	100.00	200.00	500.00		0.10

LR-19 (3) - 10/18/2022: Triticale

T3362051D

Sample  
description: T3362051D

Sample date: 06/01/2023

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	8,590.00	2,880.00	15,760.00	120.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-6 - 08/10/2023: Milo

T3362047F

Sample description: T3362047F  
Sample date: 10/20/2023 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	8,150.00	3,640.00	13,030.00	110.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-4 - 11/15/2022: Triticale

T3362049E

Sample description: T3362049E  
Sample date: 06/01/2023 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	11,040.00	3,340.00	15,950.00	110.00	0.00
DL	100.00	200.00	500.00		0.10

WSD-5B - 11/09/2022: Triticale

ATS-T3362049F

Sample  
description: ATS-T3362049F

Sample date: 06/01/2023      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 (%)
<b>Value</b>	9,630.00	3,480.00	15,480.00	120.00	0.00
<b>DL</b>	100.00	200.00	500.00		0.10

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

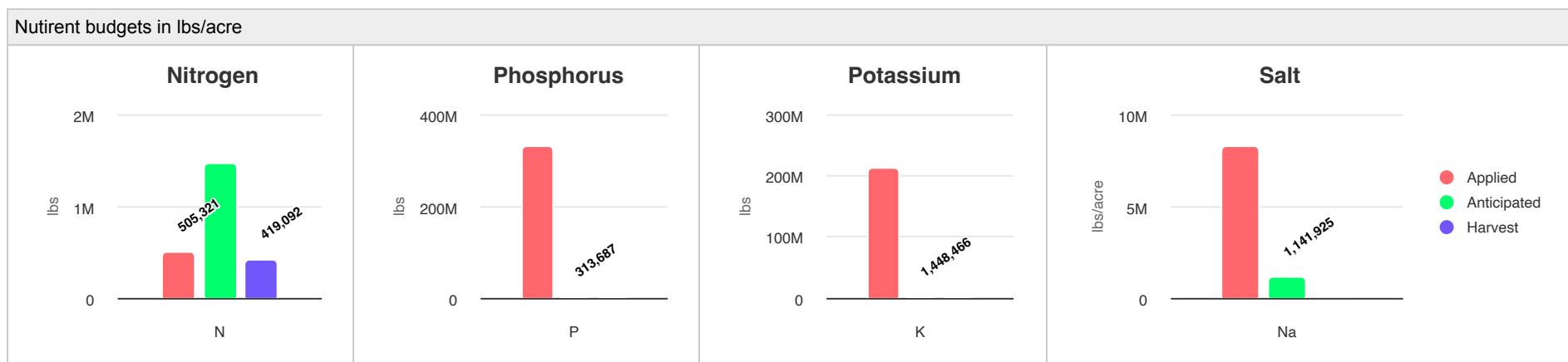
No subsurface (tile) drainage analyses entered.

## NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

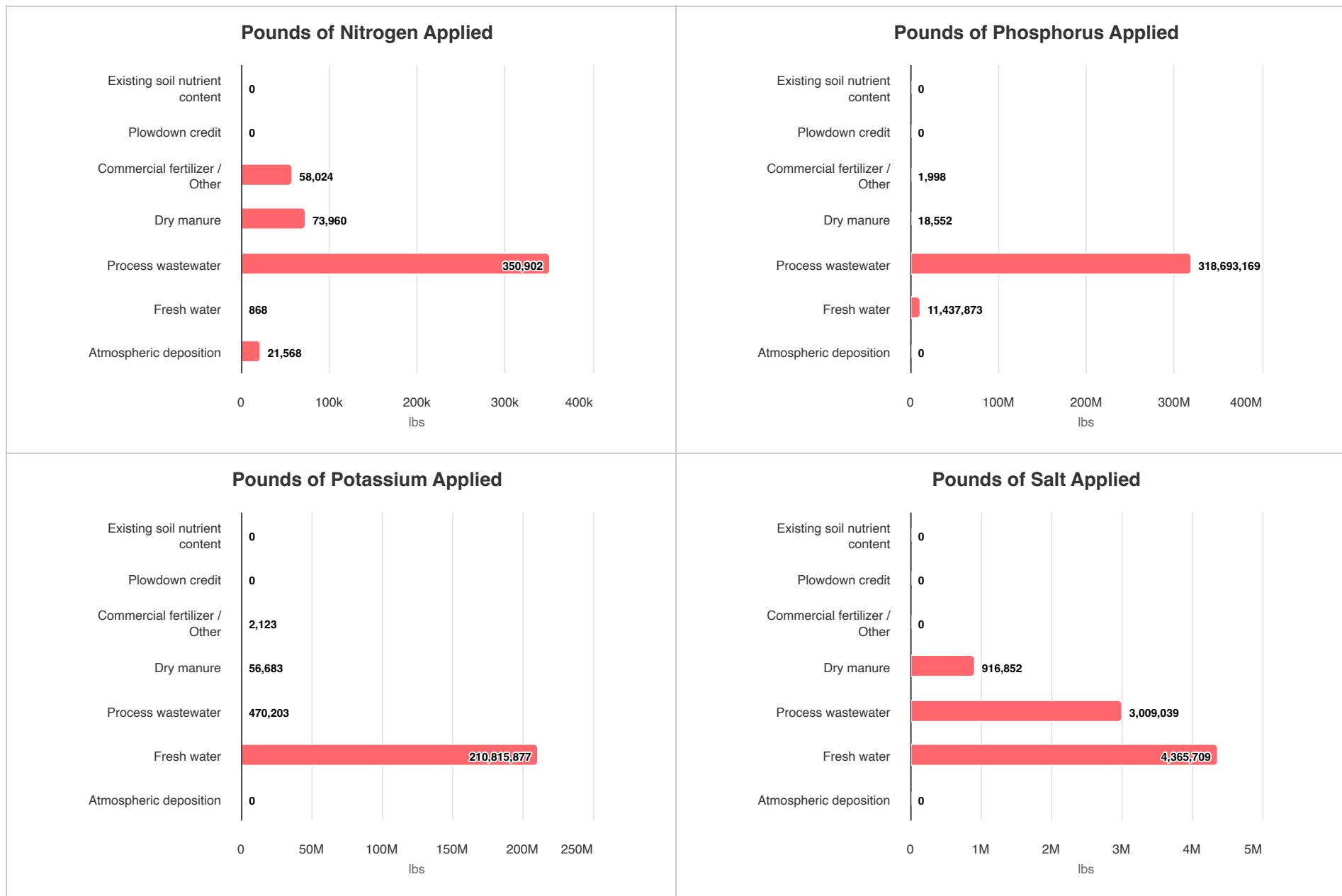
### A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	58,023.61	1,998.10	2,122.98	0.00
Dry manure	73,960.42	18,551.78	56,682.99	0.00
Process wastewater	350,901.52	318,693,168.89	470,202.59	2,686.90
Fresh water	867.82	11,437,872.66	210,815,877.37	1,235.08
Atmospheric deposition	21,567.82	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>505,321.18</b>	<b>330,151,591.42</b>	<b>211,344,885.93</b>	<b>8,291,600.19</b>
Anticipated crop nutrient removal	1,461,879.84	313,686.59	1,448,465.91	1,141,925.09
Actual crop nutrient removal	419,091.90	85,510.78	459,510.56	0.00
<b>Nutrient balance</b>	<b>86,229.28</b>	<b>330,066,080.64</b>	<b>210,885,375.37</b>	<b>8,291,600.19</b>
Applied to removed ratio	1.21	3,860.94	459.93	0.00

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



### C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE



## EXCEPTION REPORTING

### A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

*No manure or process wastewater discharges occurred during the reporting period.*

### B. STORM WATER DISCHARGES

The following is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility's Nutrient Management Plan.

*No stormwater discharges occurred during the reporting period.*

### C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

The following is a summary of all discharges from the land application area to surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient Management Plan.

*No land application area to surface water discharges occurred during the reporting period.*

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

Was the facility's NMP updated in the reporting period?

Yes

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

Yes

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

Yes

**B. EXPORT AGREEMENT STATEMENT**

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

No

ADDITIONAL NOTES

A. NOTES

Well Specific Notes

2023 Non Op Wells: WSD #2, LR #2

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 Calvin DeJager**

PRINT OR TYPE NAME

**6/29/2024**

DATE



SIGNATURE OF OPERATOR OF FACILITY

**Mark Plangenga**

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 Calvin DeJager  
Facility Name: Western Sky Dairy  
Facility Address: 18501 Old River Road  
Facility City/State: Bakersfield, CA 93311

**Contact:**

Name: Mark Plangenga  
Number: (661) 834-9199

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

**Manure Hauler / Processor Information:**

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

**Contact:**

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

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

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

**Manure Destination** Farm**Destination Information:**

Name: Lake Ranch  
Facility Address: South Lake Road  
Facility City/State: Bakersfield, CA

**Contact:**

Name: Mark Plantenga  
Number: 661-203-9999

**Signature of Owner:****Date:**

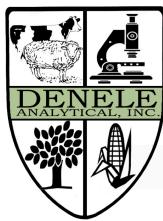
12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Mar 1, 2023 - Mar, 31 2023	6,014	ton	64 %
May 1, 2023 - May, 31 2023	8,674	ton	68 %
Jul 1, 2023 - Jul, 31 2023	7,372	ton	67 %
<b>Total</b>	22,060		

**Signature of Hauler:****Date:**

12/30/2023





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[www.denelelabs.com](http://www.denelelabs.com)

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

## Compliance Analysis Report

**Customer**

Western Sky Dairy  
18501 Old River Rd.  
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

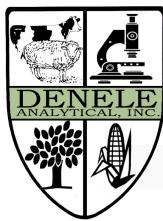
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
LR #1	T3362069A	Boron (B)	EPA 200.7	0.770	ppm

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

**Customer**

Western Sky Dairy  
18501 Old River Rd.  
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

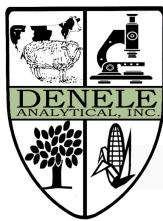
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
LR #1	T3362069A	Electrical Conductivity (EC)	EPA 120.1 and	1.86	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	58.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO4)	EPA 375.2	305	mg/L
		Sodium (Na)	EPA 200.7	248	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	4.57	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	1160	mg/L
		Calcium (Ca)	EPA 200.7	202	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	21.2	mg/L
		Soluble Salts (SALT-SOL)	Calculation	1190	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**

Western Sky Dairy  
18501 Old River Rd.  
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

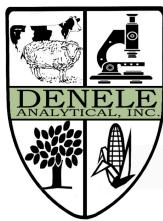
## pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
LR #1	T3362069A	pH (pH)	SM4500-H+ B-2000	7.7	S.U.

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

**Customer**

Western Sky Dairy  
18501 Old River Rd.  
Bakersfield, CA 93311

**Grower****Consultant:**

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

**PURCHASE ORDER:**

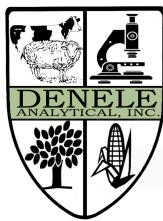
RECEIVED DATE: 12/28/23 12:00 PM  
SUBMITTED BY: Courier  
ANALYZED DATE: 1/4/24

Total Nitrogen (TN)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
LR #1	T3362069A	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.85	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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## Denele Analytical, Inc.

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[www.denelelabs.com](http://www.denelelabs.com)

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

## Compliance Analysis Report

**Customer**

Western Sky Dairy  
18501 Old River Rd.  
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

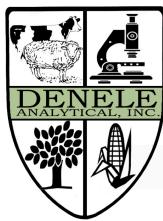
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
LR #3	T3362069B	Boron (B)	EPA 200.7	0.750	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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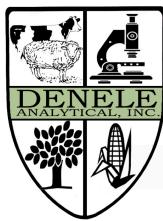
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
LR #3	T3362069B	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	1.86 58.0	mmhos/cm mg/L
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	< 2.00	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	274	mg/L
		Sulfate (SO4)	EPA 375.2	245	mg/L
		Sodium (Na)	EPA 200.7	245	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	4.51	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	1150 204	mg/L mg/L
		Calcium (Ca)	EPA 200.7	16.7	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	1190	mg/L
		Soluble Salts (SALT-SOL)	Calculation		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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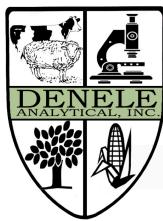
## pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
LR #3	T3362069B	pH (pH)	SM4500-H+ B-2000	7.7	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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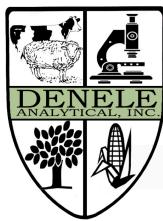
RECEIVED DATE: 12/28/23 12:00 PM  
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ANALYZED DATE: 1/4/24

Total Nitrogen (TN)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
LR #3	T3362069B	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.81	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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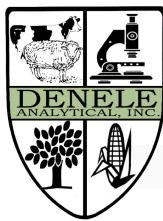
**Boron (B)**

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD Dom W4	T3362069C	Boron (B)	EPA 200.7	0.100	ppm

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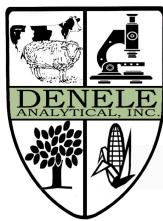
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD Dom W4	T3362069C	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.855	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	32.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO4)	EPA 375.2	99.7	mg/L
		Sodium (Na)	EPA 200.7	128	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	3.30	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and EPA 200.7	355	mg/L
		Calcium (Ca)	EPA 200.7	48.4	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	150	mg/L
		Soluble Salts (SALT-SOL)	Calculation	547	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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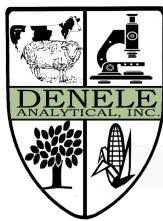
Icon Sampling Fee (ISF)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD Dom W4	T3362069C	Icon Sampling Fee (ISF)	N/A	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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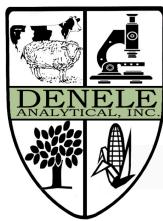
**pH (pH)**

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD Dom W4	T3362069C	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
WSD Dom W4	T3362069C	Total Nitrogen (TN)	SM 4500-NH3 D,C	8.90	%

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

## Western Sky 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:

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	CC	50	1

CHAIN



Western Sky Dairy

LR #1

W

Ranch: Lake Ranch

Date: 12-27-23 9:00 am

IW

35.145283, -119.163891

Location:

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	CC	50	1

CHAIN



Western Sky Dairy

LR #3

W

Ranch: Lake Ranch

Date: 12-27-23 8:40 am

IW

35.145159, -119.180972

Location:

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	CC	50	1

CHAIN



Western Sky Dairy

WSD Dom W4

W

Ranch: Home Ranch

Date: 12-27-23 8:50 am

IW

No Lat/Lng

Location:

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

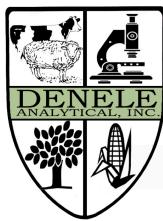
Analysis	Weather	Temp (°F)	# of Bags/Bottles

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 Mesa	Icon Ag		12-27-23 3:00 PM	Logged in By: Laboratory #
2nd	Denele	Icon Ag	12/28 5:30 AM	12/28 8:10 AM	
3rd	albert Molina Jr			12-28-23 10:15	
4th	Denele	Icon Ag	12-28-23 12:00		T33le20le9



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**Grower****Consultant:**

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Bakersfield, CA 93312

**PURCHASE ORDER:**

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ANALYZED DATE: 8/17/23

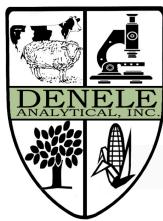
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD #1	T3228023A	Boron (B)	EPA 200.7	0.150	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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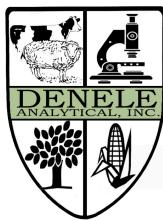
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD #1	T3228023A	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.581 126	mmhos/cm mg/L
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	< 2.00	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	119	mg/L
		Sulfate (SO4)	EPA 375.2	92.9	mg/L
		Sodium (Na)	EPA 200.7	9.500	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	0.754	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	295 27.9	mg/L mg/L
		Calcium (Ca)	SM 4500-CI D-2011	27.0	mg/L
		Chloride (Cl)	Calculation	372	mg/L
		Soluble Salts (SALT-SOL)			

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	97.8	100 (T3228016A)	102 (T3228016A)			1.78
Calcium (Ca)	95.3	103 (T3228029B)	112 (T3228029B)			8.90
Chloride (Cl)	103	96.4 (T3228016A)	96.9 (T3228016A)			0.559
Magnesium (Mg)	95.1	94.5 (T3228029B)	105 (T3228029B)			10.5
Nitrate Nitrogen (NO3-N)	105	100 (T3228016A)	96.7 (T3228016A)			3.70
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO4)	103	114 (T3228016A)	107 (T3228016A)			5.66
Total Dissolved Solids (TDS)	109			410 (T3228024B)	435 (Dup)	5.92

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

## Compliance Analysis Report

**Customer**

Western Sky Dairy  
18501 Old River Rd.  
Bakersfield, CA 93311

**Grower****Consultant:**

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

## PURCHASE ORDER:

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

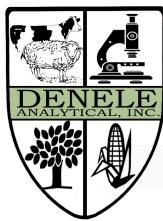
## pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD #1	T3228023A	pH (pH)	SM4500-H+ B-2000	8.1	S.U.

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

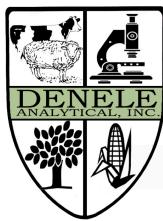
RECEIVED DATE: 8/16/23 10:00 AM  
SUBMITTED BY: Courier  
ANALYZED DATE: 8/22/23

Total Nitrogen (TN)  
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD #1	T3228023A	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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Bakersfield, CA 93312

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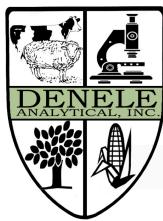
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD #3	T3228023B	Boron (B)	EPA 200.7	0.171	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
WSD #3	T3228023B	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.345 86.0	mmhos/cm mg/L
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	< 2.00	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	47.0	mg/L
		Sulfate (SO4)	EPA 375.2	59.8	mg/L
		Sodium (Na)	EPA 200.7	< 0.500	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	145 8.84	mg/L mg/L
		Calcium (Ca)	SM 4500-CI D-2011	12.9	mg/L
		Chloride (Cl)	Calculation	221	mg/L
		Soluble Salts (SALT-SOL)			

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	97.8	100 (T3228016A)	102 (T3228016A)			1.78
Calcium (Ca)	95.3	103 (T3228029B)	112 (T3228029B)			8.90
Chloride (Cl)	103	96.4 (T3228016A)	96.9 (T3228016A)			0.559
Magnesium (Mg)	95.1	94.5 (T3228029B)	105 (T3228029B)			10.5
Nitrate Nitrogen (NO3-N)	105	100 (T3228016A)	96.7 (T3228016A)			3.70
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO4)	103	114 (T3228016A)	107 (T3228016A)	410 (T3228024B)	435 (Dup)	5.66
Total Dissolved Solids (TDS)	109					5.92

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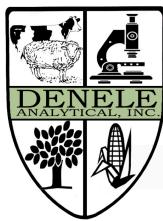
Icon Sampling Fee (ISF)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD #3	T3228023B	Icon Sampling Fee (ISF)	1664B	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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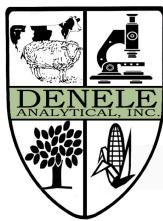
## pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD #3	T3228023B	pH (pH)	SM4500-H+ B-2000	8.0	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
WSD #3	T3228023B	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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# Irrigation / Ground / Tile Water



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

Dominic Patino

(661) 333-7776

(661) 215-5168

dpatino@iconaginc.com

Date

8-14-2023

Sampled By

TONY

Lab Name

Denele

## Western Sky Dairy

Ranch: Lake 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:

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	SH	88	1

CHAIN



23.O1

Western Sky Dairy

WSD #1

W

Ranch: Home Ranch

Date: 8-14-2023 10:00 am

IW 35.208573, -119.119693

Location:

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	SH	88	1

CHAIN



23.O1

Western Sky Dairy

WSD #3

W

Ranch: Home Ranch

Date: 8-14-2023 10:15 am

IW 35.192713, -119.110301

Location:

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

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 Nera	Icon Ag		8-15-2023 7:00 am	Logged in By:	Laboratory #
2nd						
3rd	Denele		8-16-23 10:20			
4th						

T 3228023

# Solid/Liquid Manure Tracking Manifest

**Waste Generator Information:**

Name: John Calvin DeJager  
Facility Name: Western Sky Dairy  
Facility Address: 18501 Old River Road  
Facility City/State: Bakersfield, CA 93311

**Contact:**

Name: Mark Plangenga  
Number: 661-834-9199

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

**Contact:**

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

**Signature of Owner:****Date:**

12/30/2023

**Manure Destination** Farm**Destination Information:**

Name: Lake Ranch  
Facility Address: South Lake Road  
Facility City/State: Bakersfield, CA

**Contact:**

Name: Mark Plantenga  
Number: 661-203-9999

**Signature of Hauler:****Date:**

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Mar 1, 2023 - Mar, 31 2023	6,014	ton	64 %
May 1, 2023 - May, 31 2023	8,674	ton	68 %
Jul 1, 2023 - Jul, 31 2023	7,372	ton	67 %
<b>Total</b>	22,060		