

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:Western Sky Dairy

Physical address of dairy:

18501 Old River Road

Bakersfield

Kern

93311

Number and Street

City

County

Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation:

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

Bakersfield

Kern

93311

Mailing Address Number and Street

City

County

Zip Code

C. OWNERS

John Calvin DeJager

Owner Name:

John Calvin DeJager

Telephone no.:

(661) 834-9199

Landline

Cellular

18501 Old River Road

Bakersfield

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

C. PROCESS WASTEWATER GENERATED

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

	75,115,560.21 gallons applied
+	0 gallons exported
-	0 gallons imported
=	75,115,560.21 gallons generated

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

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

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

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

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

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

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

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

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

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

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

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

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

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

WSD-14B

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

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 SilageCrop: 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 <i>ton</i>
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 <i>gal</i>
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 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	611.92 <i>Gal.</i>
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 <i>gal</i>
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 <i>Gal.</i>

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 <i>gal</i>
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 <i>Gal.</i>
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 <i>gal</i>
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 <i>Lbs</i>
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 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,067.64 <i>Lbs</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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

description						
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	381.30 <i>Gal.</i>
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 <i>gal</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	76.26 <i>Gal.</i>
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 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	762.60 <i>Gal.</i>
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 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	762.60 <i>Gal.</i>
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 <i>Gal.</i>
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 <i>Gal.</i>
Well Water	Ground water	0.03	0.00	28,296.19	1,001.06	11,066,279.45 <i>gal</i>
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)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	884.88	2.37	150.43	8,086,418.79 <i>gal</i>
Application event totals		0.00	884.88	2.37	150.43	

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
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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	25,415.74	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
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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	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
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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	0.01	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
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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	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
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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	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
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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	30,710.69	1,086.48	12,119,229.12 <i>gal</i>
Application event totals		0.03	0.00	30,710.69	1,086.48	
11/01/2023	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
Canal Water	Ground water	0.01	1,288.01	31,427.41	225.40	11,876,844.18 <i>gal</i>
Application event totals		0.01	1,288.01	31,427.41	225.40	

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 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,094.24 <i>Lbs</i>
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 <i>gal</i>
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 <i>Gal.</i>
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 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.80 <i>Gal.</i>
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 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.80 <i>Gal.</i>

Application event totals		17.72	0.00	22,821.22	807.37	
10/23/2023	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	0.04	0.00	32,934.56	1,165.16	13,201,197.32 <i>gal</i>
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 <i>Gal.</i>
Application event totals		17.70	0.00	0.00	0.00	
11/29/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
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 <i>Gal.</i>
Well Water	Ground water	0.36	0.00	2.83	949.46	8,489,516.25 <i>gal</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	78.16 <i>Gal.</i>
Application event totals		30.04	0.00	2.83	949.46	
12/24/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	781.60 <i>Gal.</i>
Well Water	Ground water	0.37	0.00	2.92	981.98	8,780,282.36 <i>gal</i>
Application event totals		35.76	0.00	2.92	981.98	
01/16/2023	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	0.02	0.00	17,520.97	619.86	7,022,952.35 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	781.60 <i>Gal.</i>
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 <i>Gal.</i>
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 <i>Gal.</i>
Well Water	Ground water	0.02	0.00	21,693.39	767.47	8,695,387.28 <i>gal</i>
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 <i>gal</i>
Application event totals		0.00	1,021.30	2.73	173.62	

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 <i>gal</i>
Application event totals		0.03	0.00	31,690.25	1,121.14	
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
Canal Water	Ground water	0.01	1,301.15	31,748.10	227.70	12,044,813.10 <i>gal</i>
Application event totals		0.01	1,301.15	31,748.10	227.70	

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 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,063.72 <i>Lbs</i>
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 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	379.90 <i>Gal.</i>
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 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	607.84 <i>Gal.</i>
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 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	607.84 <i>Gal.</i>
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 <i>gal</i>
Application event totals		0.03	0.00	27,268.97	964.72	
07/27/2023	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	1,189.66	29,027.78	208.19	10,831,709.23 <i>gal</i>
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 <i>Lbs</i>
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 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	39.09	32,616.26	58.24	313.62	666,696.33 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	21.58	18,004.93	32.15	173.12	368,031.80 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.28	14,422.80	25.75	138.68	294,810.81 <i>gal</i>

Application event totals		17.29	15,589.80	26.90	319.57	
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07/10/2023	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
Canal Water	Ground water	0.04	1,167.00	29,991.98	93.36	9,923,370.80 <i>gal</i>
Application event totals		0.04	1,167.00	29,991.98	93.36	

07/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	10,019,713.66 <i>gal</i>
Lagoon Water Effluent	Process wastewater	34.49	21,267.10	30.69	240.94	572,279.80 <i>gal</i>
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	
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 <i>Gal.</i>			
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	69.00 <i>Pt.</i>			
Application event totals		3.05	0.00	0.18	0.00				
07/31/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Well Water	Ground water	0.01	1,418.53	1.39	219.87	5,864,511.28 <i>gal</i>			
Lagoon Water Effluent	Process wastewater	55.75	34,371.07	49.61	389.39	449,674.96 <i>gal</i>			
Application event totals		55.76	35,789.60	51.00	609.26				
08/16/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	172.50 <i>Gal.</i>			
Canal Water	Ground water	0.06	1,605.93	41,272.45	128.47	6,639,263.46 <i>gal</i>			
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	34.50 <i>Gal.</i>			
Application event totals		20.73	1,605.93	41,272.45	128.47				
09/01/2023		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			
Canal Water	Ground water	0.04	996.60	25,612.56	79.73	4,120,146.69 <i>gal</i>			
Lagoon Water Effluent	Process wastewater	21.60	13,318.79	19.22	150.89	174,249.05 <i>gal</i>			
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
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 <i>gal</i>
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)		Salt (lbs/acre)		Amount	
Well Water		Ground water		0.22		0.00		0.91		279.32		4,168,861.52 <i>gal</i>	
Lagoon Water Effluent		Process wastewater		52.14		45,390.75		56.57		536.91		309,151.55 <i>gal</i>	
Application event totals				52.36		45,390.75		57.48		816.23			
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	
Well Water		Ground water		0.21		0.00		0.85		260.49		3,887,814.93 <i>gal</i>	
NOVUS 28-0-0		Commercial fertilizer / Other: Liquid commercial fertilizer		3.14		0.00		0.00		0.00		34.50 <i>Gal.</i>	
Lagoon Water Effluent		Process wastewater		79.94		69,599.15		86.74		823.27		474,032.35 <i>gal</i>	
Application event totals				83.29		69,599.15		87.59		1,083.76			
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		0.22		0.00		0.90		276.18		4,122,020.64 <i>gal</i>	
Lagoon Water Effluent		Process wastewater		42.18		36,725.24		45.77		434.41		250,131.69 <i>gal</i>	
Application event totals				42.40		36,725.24		46.67		710.59			
01/17/2023		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		48.03		41,814.51		52.11		494.61		284,794.14 <i>gal</i>	
Canal Water		Ground water		0.00		906.41		23,802.33		86.11		3,747,291.41 <i>gal</i>	
Application event totals				48.03		42,720.92		23,854.44		580.72			
02/08/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation		No precipitation			
Source description		Material type		N (lbs/acre)		P (lbs/acre)		K (lbs/acre)		Salt (lbs/acre)		Amount	
Canal Water		Ground water		0.00		1,071.83		28,146.25		101.82		4,431,172.11 <i>gal</i>	
NOVUS 28-0-0		Commercial fertilizer / Other: Liquid commercial fertilizer		3.14		0.00		0.00		0.00		34.50 <i>Gal.</i>	
Application event totals				3.14		1,071.83		28,146.25		101.82			
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	
Canal Water		Ground water		0.00		1,053.70		27,670.21		100.10		4,356,226.36 <i>gal</i>	

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 <i>Lbs</i>
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
Well Water	Ground water	0.01	1,167.00	1.15	180.89	16,776,313.97 <i>gal</i>
Application event totals		0.01	1,167.00	1.15	180.89	
05/15/2023	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
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	5.94	0.00	0.00	0.00	239.93 <i>Gal.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,199.64 <i>Gal.</i>
Application event totals		7.86	5.76	5.76	0.00	
05/27/2023	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
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	239.93 <i>Pt.</i>
Application event totals		0.08	0.00	0.18	0.00	
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	0.01	1,133.01	1.11	175.62	16,287,683.17 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.28	14,422.80	25.75	138.68	498,403.10 <i>gal</i>
Application event totals		17.29	15,555.81	26.86	314.30	
06/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	119.96 <i>Gal.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	599.82 <i>Gal.</i>
Well Water	Ground water	0.01	1,189.66	1.17	184.40	17,102,067.32 <i>gal</i>
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 <i>Pt.</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	119.96 <i>Gal.</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	58.18	48,547.32	86.69	466.80	1,677,631.32 <i>gal</i>
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 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	599.82 <i>Gal.</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	119.96 <i>Gal.</i>
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 <i>gal</i>
Application event totals		0.04	1,167.00	29,991.98	93.36	

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	16,287,683.17 <i>gal</i>
Application event totals		0.25	0.00	1.02	313.84	

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
Lagoon Water Effluent	Process wastewater	53.87	46,903.77	58.46	554.81	1,110,819.96 <i>gal</i>
Well Water	Ground water	0.20	0.00	0.82	251.08	13,030,146.53 <i>gal</i>
Application event totals		54.07	46,903.77	59.28	805.89	

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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	119.96 <i>Gal.</i>
Well Water	Ground water	0.20	0.00	0.83	254.21	13,193,023.99 <i>gal</i>
Lagoon Water Effluent	Process wastewater	79.94	69,599.15	86.74	823.27	1,648,313.48 <i>gal</i>
Application event totals		83.28	69,599.15	87.57	1,077.48	

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
Well Water	Ground water	0.20	0.00	0.82	251.08	13,030,146.53 <i>gal</i>
Lagoon Water Effluent	Process wastewater	85.31	74,275.78	92.57	878.58	1,759,069.85 <i>gal</i>
Application event totals		85.51	74,275.78	93.39	1,129.66	

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
Lagoon Water Effluent	Process wastewater	80.57	70,149.34	87.43	829.77	1,661,343.65 <i>gal</i>
Canal Water	Ground water	0.00	906.41	23,802.33	86.11	13,030,146.53 <i>gal</i>
Application event totals		80.57	71,055.75	23,889.76	915.88	

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
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NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	119.96 <i>Gal.</i>
Canal Water	Ground water	0.00	1,121.68	29,455.38	106.56	16,124,805.71 <i>gal</i>
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 <i>gal</i>
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 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	833.00 <i>Lbs</i>
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 <i>gal</i>
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 <i>gal</i>
Well Water	Ground water	0.01	1,065.03	1.05	165.08	7,593,695.66 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Canal Water	Ground water	0.00	929.07	24,397.39	88.26	6,624,287.82 <i>gal</i>
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 <i>gal</i>

Application event totals		0.04	1,076.36	27,662.50	86.11	
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05/21/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	17.27	21,502.99	27.81	127.16	227,810.88 <i>gal</i>
Canal Water	Ground water	0.04	1,076.36	27,662.50	86.11	7,674,479.97 <i>gal</i>
Application event totals		17.31	22,579.35	27,690.31	213.27	

06/05/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,121.68	1.10	173.86	7,997,615.66 <i>gal</i>
Application event totals		0.01	1,121.68	1.10	173.86	

06/20/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	34.57	28,845.59	51.51	277.36	494,398.07 <i>gal</i>
Well Water	Ground water	0.01	1,144.34	1.12	177.37	8,159,184.27 <i>gal</i>
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	
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06/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,167.00	29,991.98	93.36	4,591,097.60 <i>gal</i>
Lagoon Water Effluent	Process wastewater	42.36	35,349.99	63.12	339.90	334,303.22 <i>gal</i>
Application event totals		42.40	36,516.99	30,055.10	433.26	

07/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,178.33	1.16	182.64	4,635,671.11 <i>gal</i>
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 <i>Lbs</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Canal Water	Ground water	0.00	951.73	24,992.44	90.41	8,119,077.00 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	83.89	104,464.90	135.11	617.79	1,324,182.86 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>		
Well Water	Ground water	0.01	1,076.36	1.06	166.84	9,182,289.88 <i>gal</i>		
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 <i>gal</i>		
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 <i>gal</i>		
Well Water	Ground water	0.01	1,110.35	1.09	172.10	9,472,257.11 <i>gal</i>		
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 <i>Lbs</i>
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 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	38.09	47,428.59	61.34	280.48	574,596.62 <i>gal</i>
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 <i>gal</i>
Well Water	Ground water	0.01	1,133.01	1.11	175.62	9,237,888.09 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Canal Water	Ground water	0.04	1,144.34	29,409.61	91.55	9,330,267.32 <i>gal</i>

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 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	52.87	44,116.79	78.78	424.20	864,666.32 <i>gal</i>
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 <i>gal</i>
Application event totals		0.00	849.53	22,308.73	80.71	
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	53.72	46,766.23	58.28	553.18	628,176.40 <i>gal</i>
Well Water	Ground water	0.20	0.00	0.81	250.32	7,368,139.38 <i>gal</i>
Application event totals		53.92	46,766.23	59.09	803.50	
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
Lagoon Water Effluent	Process wastewater	33.97	29,572.76	36.86	349.81	397,229.19 <i>gal</i>
Well Water	Ground water	0.22	0.00	0.90	277.25	8,160,750.00 <i>gal</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	68.04 <i>Gal.</i>
Application event totals		37.33	29,572.76	37.76	627.06	
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	0.80	244.99	7,211,095.65 <i>gal</i>
Lagoon Water Effluent	Process wastewater	79.94	69,599.15	86.74	823.27	934,874.24 <i>gal</i>
Application event totals		80.14	69,599.15	87.54	1,068.26	

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
Well Water	Ground water	0.01	1,157.26	1.14	179.38	9,435,578.66 <i>gal</i>
Application event totals		0.01	1,157.26	1.14	179.38	

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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	68.04 <i>Gal.</i>
Canal Water	Ground water	0.00	1,297.98	34,084.94	123.31	10,582,924.89 <i>gal</i>
Application event totals		3.14	1,297.98	34,084.94	123.31	

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	838.88	22,029.05	79.69	6,839,732.16 <i>gal</i>
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 <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
Canal Water	Ground water	0.00	822.79	21,606.56	78.17	619,190.51 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Well Water	Ground water	0.01	1,017.90	1.00	157.77	766,015.92 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	64.17	53,543.46	95.61	514.84	96,860.43 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	32.97	27,507.01	49.12	264.49	49,760.34 <i>gal</i>

Application event totals		32.98	28,542.58	50.14	425.00	
06/16/2023	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	1,316.33	1.29	204.03	990,602.49 <i>gal</i>
Lagoon Water Effluent	Process wastewater	60.44	50,432.66	90.05	484.93	91,232.98 <i>gal</i>
Application event totals		60.45	51,748.99	91.34	688.96	
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
Canal Water	Ground water	0.05	1,320.41	33,934.61	105.63	993,672.04 <i>gal</i>
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 <i>gal</i>
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	69.04	60,108.36	74.91	711.00	74,521.14 <i>gal</i>
Canal Water	Ground water	0.00	1,053.70	27,670.21	100.10	792,959.49 <i>gal</i>
Application event totals		69.04	61,162.06	27,745.12	811.10	
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
Canal Water	Ground water	0.00	1,065.03	27,967.74	101.18	801,485.89 <i>gal</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	6.28 <i>Gal.</i>
Lagoon Water Effluent	Process wastewater	66.04	57,494.95	71.66	680.09	71,281.09 <i>gal</i>
Application event totals		69.18	58,559.98	28,039.40	781.27	
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
Canal Water	Ground water	0.00	951.73	24,992.44	90.41	716,221.43 <i>gal</i>
Lagoon Water Effluent	Process wastewater	66.04	57,494.95	71.66	680.09	71,281.09 <i>gal</i>
Application event totals		66.04	58,446.68	25,064.10	770.50	

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
Lagoon Water Effluent	Process wastewater	69.04	60,108.36	74.91	711.00	74,521.14 <i>gal</i>
Well Water	Ground water	0.01	1,008.38	0.99	156.30	758,853.66 <i>gal</i>
Application event totals		69.05	61,116.74	75.90	867.30	

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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	6.28 <i>Gal.</i>
Well Water	Ground water	0.01	1,096.76	1.08	170.00	825,360.00 <i>gal</i>
Application event totals		3.15	1,096.76	1.08	170.00	

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
Well Water	Ground water	0.01	1,110.35	1.09	172.10	835,591.72 <i>gal</i>
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
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 <i>gal</i>
Application event totals		0.04	1,121.68	28,827.24	89.73	
07/15/2023	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
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	34.57	28,845.59	51.51	277.36	92,564.62 <i>gal</i>
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 <i>gal</i>
Application event totals		0.19	0.00	0.77	235.89	
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	50.87	44,290.37	55.20	523.90	97,404.60 <i>gal</i>
Well Water	Ground water	0.23	0.00	0.94	290.31	1,399,056.72 <i>gal</i>
Application event totals		51.10	44,290.37	56.14	814.21	
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	11.14 <i>Gal.</i>
Well Water	Ground water	0.23	0.00	0.93	287.36	1,384,839.30 <i>gal</i>
Lagoon Water Effluent	Process wastewater	48.03	41,814.51	52.11	494.61	91,959.62 <i>gal</i>
Application event totals		51.40	41,814.51	53.04	781.97	
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	0.17	0.00	0.69	211.28	1,018,210.78 <i>gal</i>
Lagoon Water Effluent	Process wastewater	41.55	36,175.05	45.08	427.90	79,557.17 <i>gal</i>
Application event totals		41.72	36,175.05	45.77	639.18	

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	764.10	20,065.36	72.59	1,020,025.78 <i>gal</i>
Lagoon Water Effluent	Process wastewater	35.86	31,223.33	38.91	369.33	68,667.22 <i>gal</i>
Application event totals		35.86	31,987.43	20,104.27	441.92	

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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	11.14 <i>Gal.</i>
Canal Water	Ground water	0.00	924.76	24,284.33	87.85	1,234,497.36 <i>gal</i>
Application event totals		3.14	924.76	24,284.33	87.85	

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	999.32	26,242.07	94.94	1,334,019.45 <i>gal</i>
Application event totals		0.00	999.32	26,242.07	94.94	

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

04/28/2023	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	0.01	1,190.34	1.17	184.50	9,047,447.80 <i>gal</i>
Application event totals		0.01	1,190.34	1.17	184.50	

04/30/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	634.28 <i>Gal.</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	5.94	0.00	0.00	0.00	126.86 <i>Gal.</i>
Application event totals		7.86	5.76	5.76	0.00	

05/11/2023	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
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	126.86 <i>Pt.</i>
Application event totals		0.08	0.00	0.18	0.00	

05/13/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	51.06	42,608.52	76.08	409.70	778,497.34 <i>gal</i>
Well Water	Ground water	0.01	934.51	0.92	144.85	7,102,927.27 <i>gal</i>
Application event totals		51.07	43,543.03	77.00	554.55	

05/26/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	12.39	0.00	0.00	0.00	222.00 <i>Gal.</i>
Well Water	Ground water	0.01	1,138.22	1.12	176.42	8,651,309.74 <i>gal</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.08	0.00	0.00	0.00	44.40 <i>Gal.</i>
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 <i>Pt.</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	63.43 <i>Gal.</i>
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 <i>gal</i>
Canal Water	Ground water	0.05	1,366.41	35,116.82	109.31	10,385,706.15 <i>gal</i>
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 <i>Gal.</i>
Canal Water	Ground water	0.06	1,535.23	39,455.46	122.82	11,668,848.71 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	317.14 <i>Gal.</i>
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 <i>gal</i>
Canal Water	Ground water	0.04	1,025.83	26,363.82	82.07	7,797,029.78 <i>gal</i>
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 <i>Gal.</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.08	0.00	0.00	0.00	51.80 <i>Gal.</i>
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 <i>Gal.</i>
Primacy Alpha	Commercial fertilizer / Other: Liquid commercial fertilizer	0.08	0.00	0.18	0.00	148.00 <i>Pt.</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	78.28	48,262.71	69.66	546.77	1,354,347.20 <i>gal</i>
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 <i>Gal.</i>
Canal Water	Ground water	0.07	1,805.57	46,403.12	144.45	16,011,035.60 <i>gal</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	74.00 <i>Gal.</i>
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 <i>gal</i>
Well Water	Ground water	0.01	1,556.99	1.53	241.33	13,806,704.75 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	62.25	54,193.80	67.54	641.04	791,710.34 <i>gal</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	74.00 <i>Gal.</i>
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 <i>gal</i>
Canal Water	Ground water	0.00	1,125.31	29,550.59	106.90	9,978,765.65 <i>gal</i>
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 <i>gal</i>
Canal Water	Ground water	0.00	870.61	22,862.14	82.71	7,720,180.65 <i>gal</i>
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 <i>Gal.</i>
Canal Water	Ground water	0.00	1,033.53	27,140.60	98.19	9,164,951.29 <i>gal</i>

Application event totals		3.14	1,033.53	27,140.60	98.19	
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03/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,003.40	0.99	155.53	8,897,699.02 <i>gal</i>
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 <i>Lbs</i>
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 <i>gal</i>
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 <i>gal</i>
Well Water	Ground water	0.01	1,144.34	1.12	177.37	5,404,684.97 <i>gal</i>
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 <i>gal</i>
Well Water	Ground water	0.01	1,167.00	1.15	180.89	5,511,708.32 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Canal Water	Ground water	0.04	1,200.99	30,865.53	96.08	5,672,243.62 <i>gal</i>

Application event totals		80.36	68,224.58	30,985.21	740.54	
06/24/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	48.01	40,063.33	71.54	385.22	454,849.72 <i>gal</i>
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	5,565,219.75 <i>gal</i>
Application event totals		48.05	41,241.66	30,354.70	479.49	
07/09/2023	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	0.04	1,189.66	30,574.35	95.17	5,618,731.68 <i>gal</i>
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 <i>gal</i>
Application event totals		0.00	1,105.37	29,026.94	105.01	
12/16/2022	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	0.23	0.00	0.94	288.49	4,918,798.46 <i>gal</i>
Lagoon Water Effluent	Process wastewater	24.17	21,044.80	26.23	248.93	163,745.89 <i>gal</i>
Application event totals		24.40	21,044.80	27.17	537.42	
01/13/2023	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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	39.41 <i>Gal.</i>
Well Water	Ground water	0.01	889.64	0.87	137.89	4,201,741.19 <i>gal</i>
Lagoon Water Effluent	Process wastewater	18.96	16,505.73	20.57	195.24	128,428.15 <i>gal</i>
Application event totals		22.11	17,395.37	21.44	333.13	
02/07/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,295.03	1.27	200.73	6,116,390.94 <i>gal</i>
Lagoon Water Effluent	Process wastewater	73.97	92,112.11	119.13	544.73	646,421.67 <i>gal</i>
Application event totals		73.98	93,407.14	120.40	745.46	

03/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	69.07	86,011.97	111.24	508.66	603,612.33 <i>gal</i>
Well Water	Ground water	0.01	843.87	0.83	130.80	3,985,553.65 <i>gal</i>
Application event totals		69.08	86,855.84	112.07	639.46	

03/24/2023	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	39.41 <i>Gal.</i>
Canal Water	Ground water	0.00	1,168.82	30,693.10	111.04	5,520,270.09 <i>gal</i>
Application event totals		3.14	1,168.82	30,693.10	111.04	

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
Canal Water	Ground water	0.00	1,165.42	30,603.84	110.71	5,504,216.71 <i>gal</i>
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 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	275.00 <i>Gal.</i>
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 <i>Pt.</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	55.00 <i>Gal.</i>
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 <i>gal</i>
Canal Water	Ground water	0.05	1,271.24	32,670.87	101.70	8,378,455.02 <i>gal</i>
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 <i>Gal.</i>
Canal Water	Ground water	0.05	1,327.44	34,115.15	106.20	8,748,839.69 <i>gal</i>
Strategic N	Commercial fertilizer / Other: Liquid commercial fertilizer	2.97	0.00	0.00	0.00	55.00 <i>Gal.</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	38.98	32,521.99	58.07	312.71	515,252.57 <i>gal</i>
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	
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 <i>gal</i>		
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)	Salt (lbs/acre)	Amount		
Well Water		Ground water	0.24	0.00	0.96	295.01	7,019,382.54 <i>gal</i>		
Lagoon Water Effluent		Process wastewater	77.73	67,673.49	84.34	800.49	734,794.99 <i>gal</i>		
Application event totals			77.97	67,673.49	85.30	1,095.50			
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		
Lagoon Water Effluent	Process wastewater		79.94	69,599.15	86.74	823.27	755,703.74 <i>gal</i>		
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer		3.14	0.00	0.00	0.00	55.00 <i>Gal.</i>		
Well Water	Ground water		0.23	0.00	0.93	285.60	6,795,360.26 <i>gal</i>		
Application event totals			83.31	69,599.15	87.67	1,108.87			
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		
Canal Water		Ground water	0.00	951.73	24,992.44	90.41	6,272,639.69 <i>gal</i>		
Lagoon Water Effluent		Process wastewater	64.14	55,844.38	69.60	660.56	606,355.18 <i>gal</i>		
Application event totals			64.14	56,796.11	25,062.04	750.97			
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		
Canal Water		Ground water	0.00	951.73	24,992.44	90.41	6,272,639.69 <i>gal</i>		
Lagoon Water Effluent		Process wastewater	69.04	60,108.36	74.91	711.00	652,653.26 <i>gal</i>		
Application event totals			69.04	61,060.09	25,067.35	801.41			
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		
Canal Water	Ground water		0.00	1,046.90	27,491.69	99.46	6,899,903.80 <i>gal</i>		
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer		3.14	0.00	0.00	0.00	55.00 <i>Gal.</i>		

Application event totals		3.14	1,046.90	27,491.69	99.46	
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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
Well Water	Ground water	0.01	963.06	0.95	149.27	6,347,314.26 <i>gal</i>
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	
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07/22/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,194.20	30,690.82	95.54	9,731,009.75 <i>gal</i>
Lagoon Water Effluent	Process wastewater	81.91	68,343.32	122.04	657.15	1,338,706.32 <i>gal</i>
Application event totals		81.95	69,537.52	30,812.86	752.69	

08/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,205.53	30,982.00	96.44	9,823,334.68 <i>gal</i>
Lagoon Water Effluent	Process wastewater	34.49	21,267.10	30.69	240.94	548,407.94 <i>gal</i>
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 <i>gal</i>
Application event totals		0.00	930.66	24,439.04	88.41	

12/10/2022	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	54.51	47,453.97	59.14	561.32	637,039.54 <i>gal</i>
Canal Water	Ground water	0.00	1,120.32	29,419.68	106.43	9,129,053.15 <i>gal</i>
Application event totals		54.51	48,574.29	29,478.82	667.75	

01/07/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,165.64	1.15	180.67	9,498,351.97 <i>gal</i>
Lagoon Water Effluent	Process wastewater	49.77	43,327.53	54.00	512.51	581,644.79 <i>gal</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	68.00 <i>Gal.</i>
Application event totals		52.92	44,493.17	55.15	693.18	

02/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	868.57	0.85	134.63	7,077,601.51 <i>gal</i>
Lagoon Water Effluent	Process wastewater	43.84	54,596.25	70.61	322.87	661,043.95 <i>gal</i>
Application event totals		43.85	55,464.82	71.46	457.50	

02/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	38.58	48,038.60	62.13	284.09	581,644.79 <i>gal</i>
Well Water	Ground water	0.01	1,067.98	1.05	165.54	8,702,513.74 <i>gal</i>
Application event totals		38.59	49,106.58	63.18	449.63	

03/18/2023	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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	68.00 <i>Gal.</i>
Well Water	Ground water	0.01	1,032.63	1.02	160.06	8,414,461.70 <i>gal</i>
Application event totals		3.15	1,032.63	1.02	160.06	

04/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	951.73	24,992.44	90.41	7,755,263.62 <i>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	
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06/14/2023	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
Lagoon Water Effluent	Process wastewater	60.44	50,432.66	90.05	484.93	875,575.05 <i>gal</i>
Canal Water	Ground water	0.05	1,278.26	32,851.40	102.26	9,231,997.11 <i>gal</i>
Application event totals		60.49	51,710.92	32,941.45	587.19	

06/29/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,162.92	1.14	180.25	8,398,973.70 <i>gal</i>
Lagoon Water Effluent	Process wastewater	34.57	28,845.59	51.51	277.36	500,796.17 <i>gal</i>
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 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

08/22/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,189.66	1.17	184.40	8,592,091.23 <i>gal</i>
Application event totals		0.01	1,189.66	1.17	184.40	

09/07/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	33.22	20,479.43	29.56	232.01	468,064.42 <i>gal</i>
Well Water	Ground water	0.01	1,155.67	1.14	179.13	8,346,602.75 <i>gal</i>
Application event totals		33.23	21,635.10	30.70	411.14	

09/23/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,110.35	28,536.06	88.83	8,019,285.30 <i>gal</i>
Lagoon Water Effluent	Process wastewater	36.70	22,627.62	32.66	256.35	517,162.09 <i>gal</i>
Application event totals		36.74	23,737.97	28,568.72	345.18	

10/09/2023	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	0.04	1,110.35	28,536.06	88.83	8,019,285.30 <i>gal</i>
Lagoon Water Effluent	Process wastewater	36.58	22,556.01	32.55	255.54	515,525.47 <i>gal</i>
Application event totals		36.62	23,666.36	28,568.61	344.37	

10/18/2022: Triticale

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 <i>gal</i>
Application event totals		0.28	0.00	1.11	342.53	

11/19/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	37.92	33,011.45	41.14	390.48	392,781.30 <i>gal</i>
Well Water	Ground water	0.26	0.00	1.03	317.61	8,281,139.26 <i>gal</i>
Application event totals		38.18	33,011.45	42.17	708.09	

12/17/2022	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	32.70	28,472.38	35.48	336.79	338,773.89 <i>gal</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	60.27 <i>Gal.</i>
Well Water	Ground water	0.26	0.00	1.05	322.19	8,400,610.17 <i>gal</i>
Application event totals		36.10	28,472.38	36.53	658.98	

01/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	803.08	21,088.86	76.29	5,800,070.58 <i>gal</i>

Lagoon Water Effluent	Process wastewater	49.77	43,327.53	54.00	512.51	515,525.47 <i>gal</i>
Application event totals		49.77	44,130.61	21,142.86	588.80	
02/09/2023	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	0.00	964.87	25,337.58	91.66	6,968,594.97 <i>gal</i>
Lagoon Water Effluent	Process wastewater	54.62	68,016.56	87.97	402.24	729,918.62 <i>gal</i>
Application event totals		54.62	68,981.43	25,425.55	493.90	
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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	60.27 <i>Gal.</i>
Canal Water	Ground water	0.00	1,008.38	26,480.09	95.80	7,282,819.87 <i>gal</i>
Application event totals		3.14	1,008.38	26,480.09	95.80	
03/26/2023	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	875.37	0.86	135.68	6,322,142.42 <i>gal</i>
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 <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	1,087.69	1.07	168.59	14,370,048.51 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	53.03	66,034.01	85.40	390.51	1,296,298.07 <i>gal</i>
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 <i>gal</i>
Well Water	Ground water	0.01	1,110.35	1.09	172.10	14,669,424.22 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Canal Water	Ground water	0.04	1,121.68	28,827.24	89.73	14,819,111.37 <i>gal</i>

Application event totals		77.77	65,977.14	28,943.05	713.34	
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06/14/2023	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
Lagoon Water Effluent	Process wastewater	42.36	35,349.99	63.12	339.90	1,122,660.00 <i>gal</i>
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	15,567,551.36 <i>gal</i>
Application event totals		42.40	36,528.32	30,346.28	434.17	

06/29/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,167.00	29,991.98	93.36	15,417,864.22 <i>gal</i>
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 <i>Lbs</i>
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 <i>gal</i>
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 <i>gal</i>
Well Water	Ground water	0.01	1,167.00	1.15	180.89	10,409,162.97 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	78.86	65,798.12	117.49	632.67	1,410,795.29 <i>gal</i>
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 <i>gal</i>
Well Water	Ground water	0.01	1,167.00	1.15	180.89	10,409,162.97 <i>gal</i>
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 <i>gal</i>

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 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	51.82	45,115.66	56.23	533.66	584,362.42 <i>gal</i>
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 <i>gal</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	65.61 <i>Gal.</i>
Well Water	Ground water	0.22	0.00	0.91	279.89	7,944,122.02 <i>gal</i>
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 <i>gal</i>
Well Water	Ground water	0.21	0.00	0.86	264.19	7,498,723.85 <i>gal</i>
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 <i>gal</i>
Lagoon Water Effluent	Process wastewater	77.65	96,687.22	125.05	571.79	1,129,529.77 <i>gal</i>
Application event totals		77.66	97,823.86	126.17	747.97	

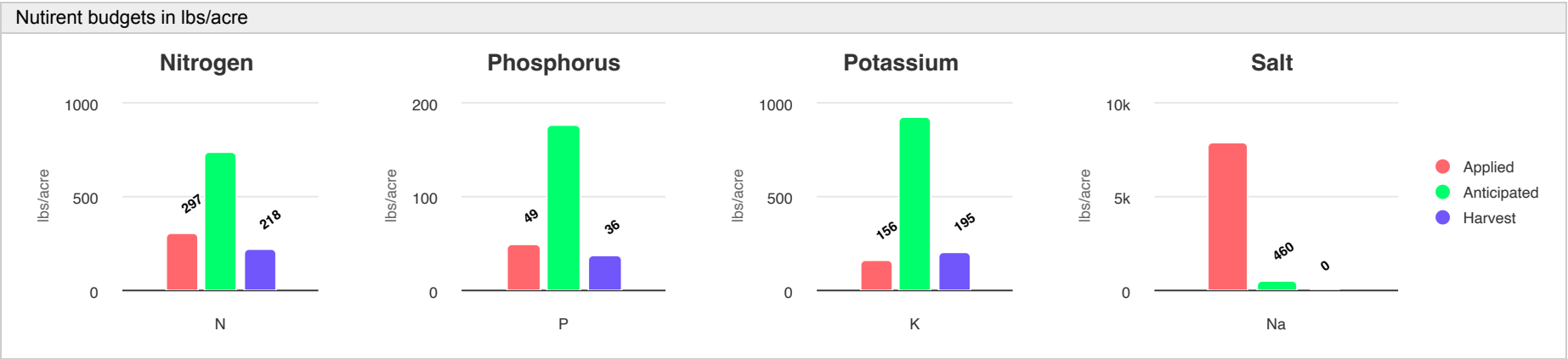
02/17/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Canal Water	Ground water	0.00	889.41	23,356.03	84.49	6,992,751.24 <i>gal</i>			
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	65.61 <i>Gal.</i>			
Application event totals		3.14	889.41	23,356.03	84.49				

03/11/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Canal Water	Ground water	0.00	887.15	23,296.53	84.28	6,974,935.33 <i>gal</i>			
Application event totals		0.00	887.15	23,296.53	84.28				

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
Total nutrients applied	296.99	48.65	156.03	7,826.51
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

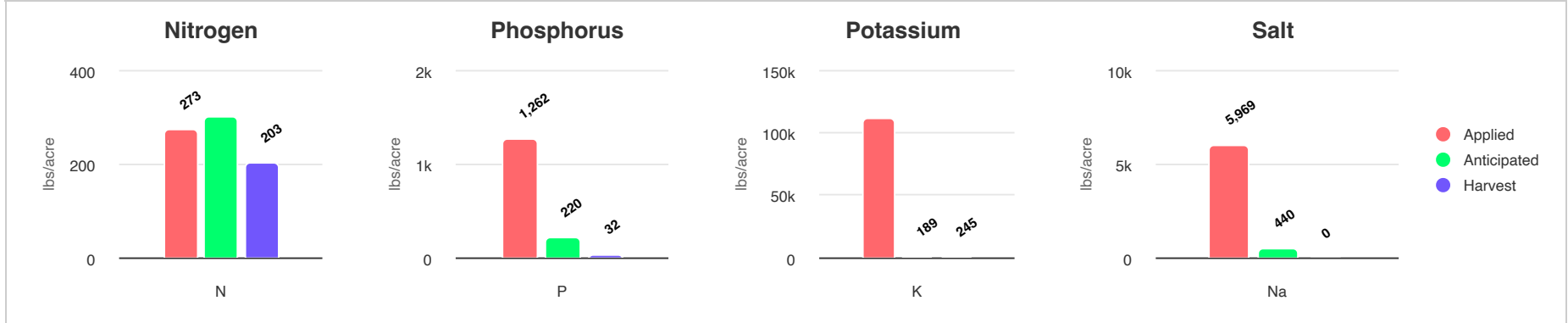
Total Harvests for the crop	
1	harvests

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
Total nutrients applied	273.20	1,261.80	111,018.82	5,968.67
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	202.60	32.43	244.97	0.00
Nutrient balance	70.59	1,229.38	110,773.85	5,968.67
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

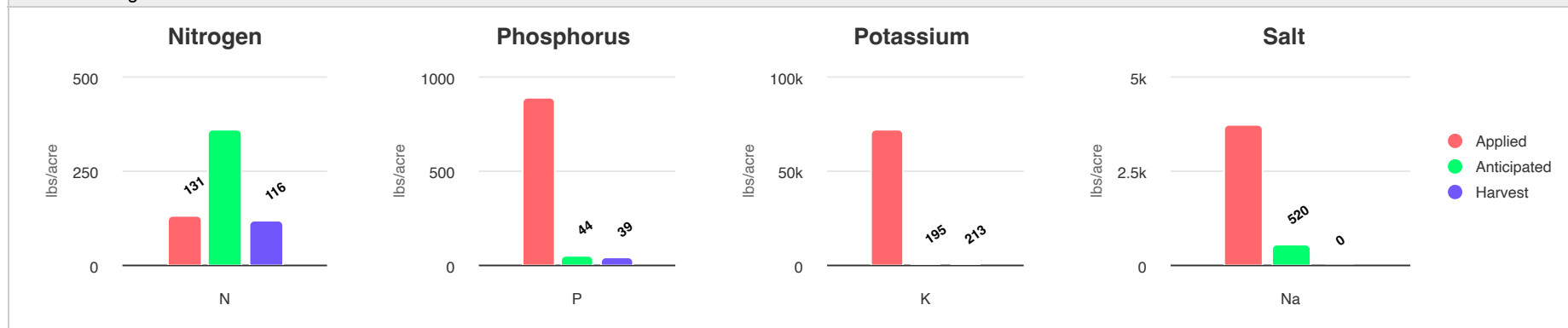
1 harvests

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
Total nutrients applied	130.63	884.88	71,386.65	3,723.48
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	116.16	38.94	213.11	0.00
Nutrient balance	14.47	845.94	71,173.54	3,723.48
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

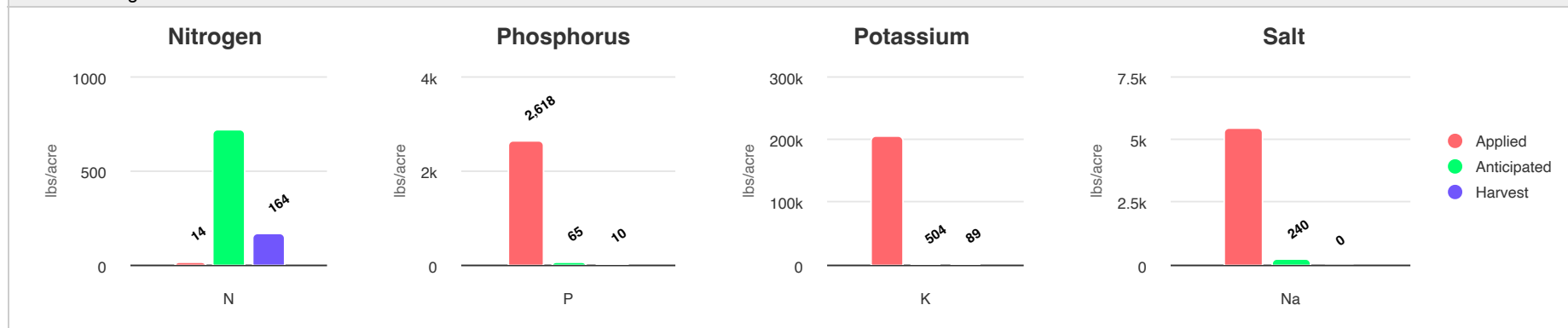
1 harvests

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
Total nutrients applied	14.16	2,618.39	204,061.85	5,417.26
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	164.09	10.28	88.89	0.00
Nutrient balance	-149.93	2,608.11	203,972.96	5,417.26
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

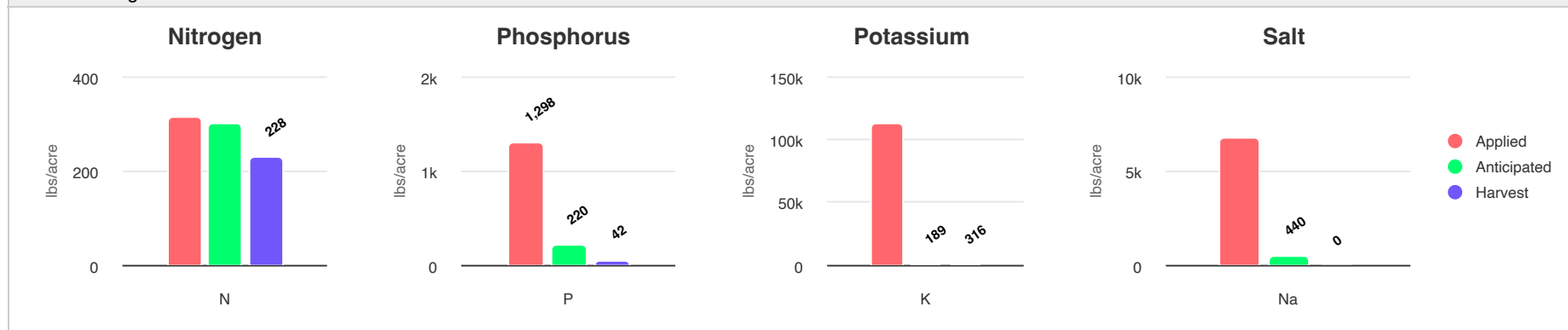
1 harvests

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
Total nutrients applied	313.21	1,298.38	112,244.25	6,701.84
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	228.30	41.59	316.44	0.00
Nutrient balance	84.91	1,256.79	111,927.81	6,701.84
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

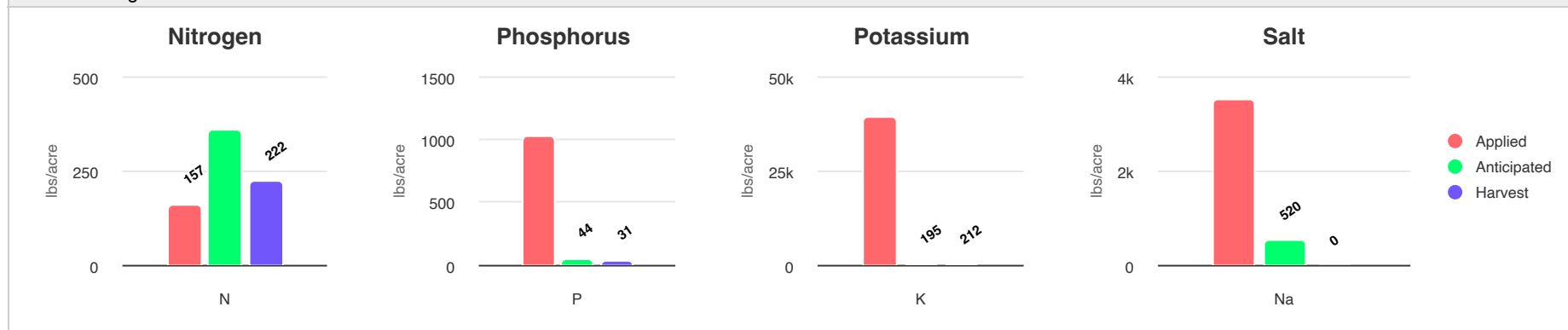
1 harvests

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
Total nutrients applied	157.46	1,021.30	39,222.84	3,492.39
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	221.63	30.71	211.95	0.00
Nutrient balance	-64.16	990.59	39,010.89	3,492.39
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

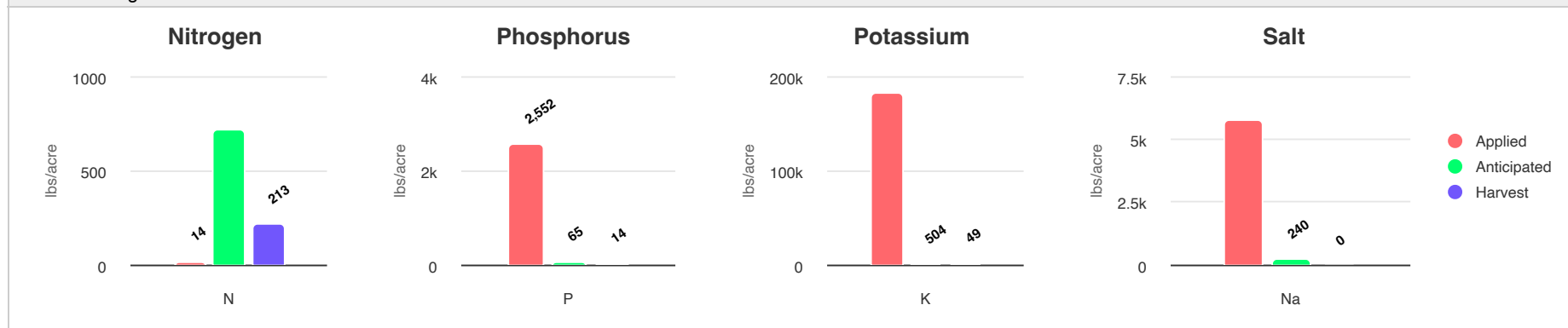
1 harvests

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
Total nutrients applied	14.16	2,552.00	181,413.08	5,735.08
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	212.61	14.38	48.89	0.00
Nutrient balance	-198.45	2,537.62	181,364.19	5,735.08
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

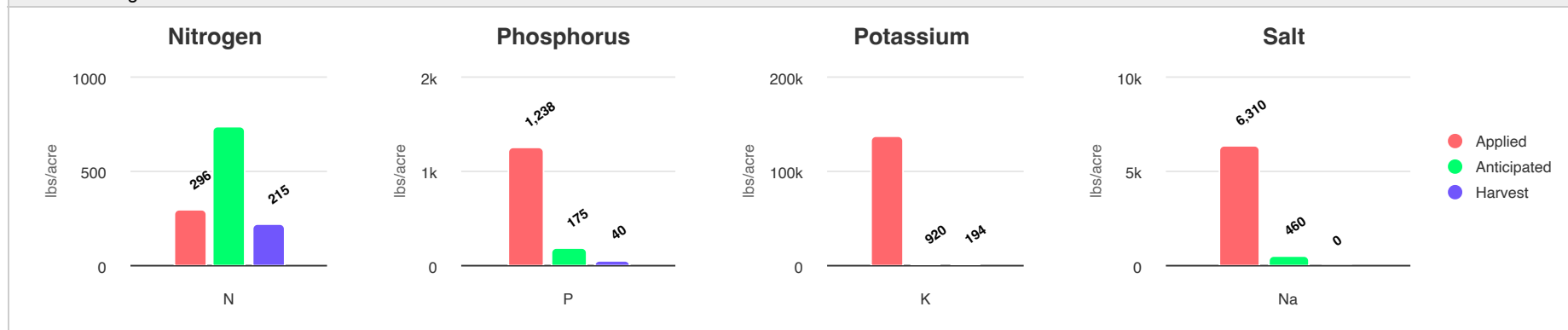
1 harvests

Field name: LR-25(2)

Crop: Corn, Late Silage

Plant date: 05/04/2023

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	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
Total nutrients applied	295.73	1,238.31	136,653.12	6,309.84
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	214.84	39.54	193.72	0.00
Nutrient balance	80.89	1,198.77	136,459.40	6,309.84
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

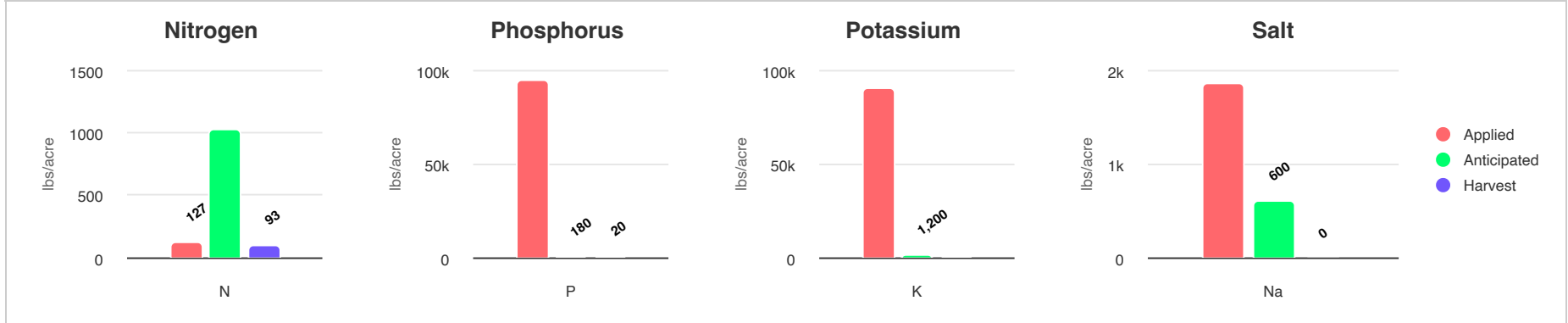
Total Harvests for the crop

1 harvests

WSD-1 - 05/10/2023: Corn, Early Silage

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
Total nutrients applied	126.60	94,378.12	89,836.08	1,855.04
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
Nutrient balance	34.08	94,358.62	89,743.56	1,855.04
Applied to removed ratio	1.37	4,838.99	971.02	0.00

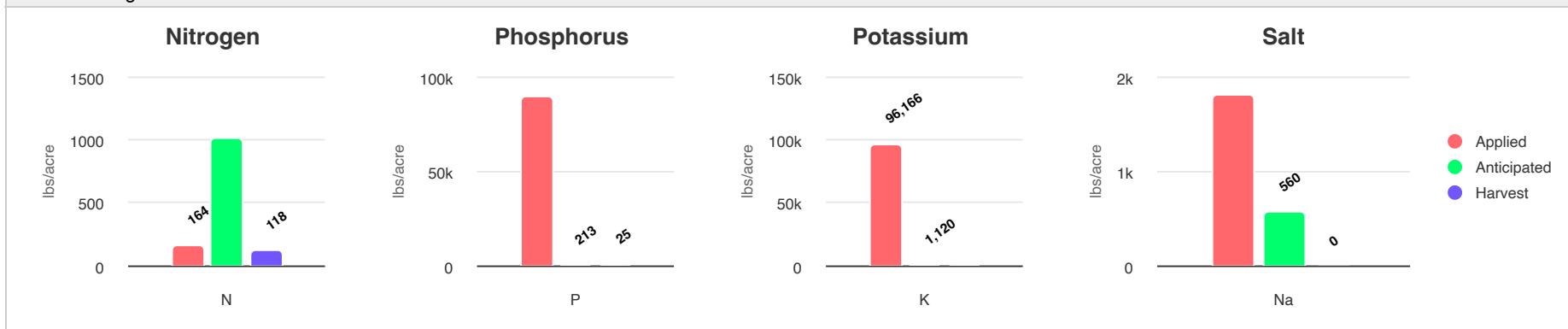
Fresh water applied	
68,596,503.51	gallons
2,526.18	acre-inches
35.60	inches/acre
Process wastewater applied	
1,901,818.75	gallons
70.04	acre-inches
0.99	inches/acre
Total Harvests for the crop	
1	harvests

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
Total nutrients applied	163.96	89,528.49	96,166.44	1,796.65
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
Nutrient balance	46.29	89,503.50	96,040.70	1,796.65
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

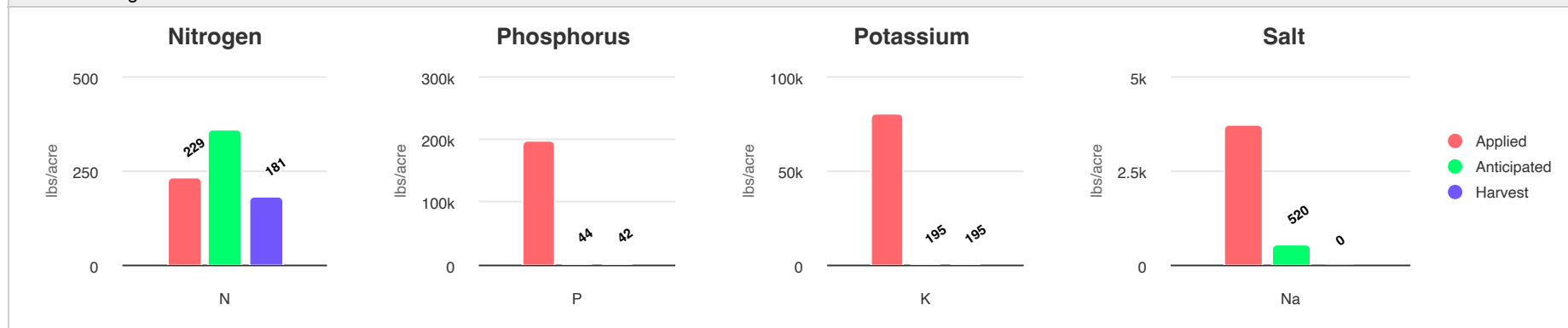
1 harvests

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
Total nutrients applied	229.46	196,561.59	79,863.63	3,697.65
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	180.81	41.63	195.11	0.00
Nutrient balance	48.65	196,519.96	79,668.52	3,697.65
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

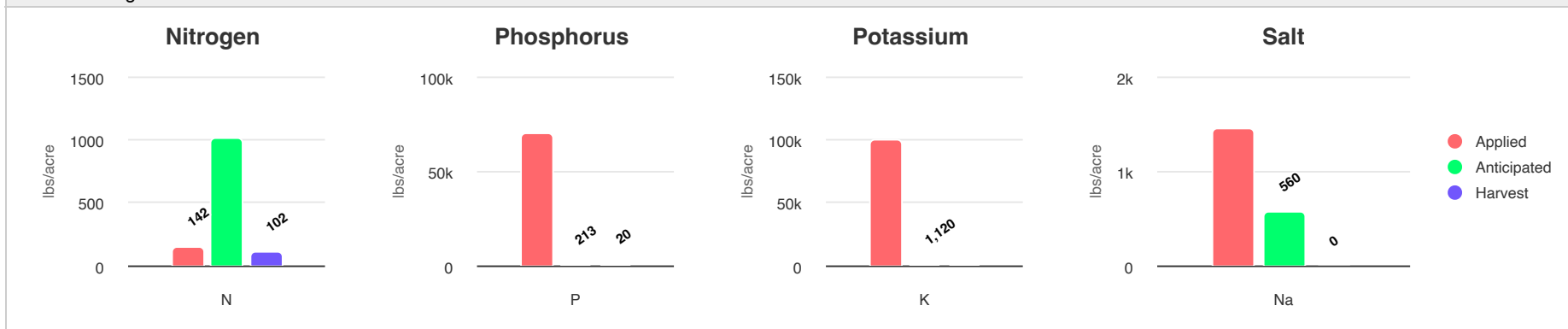
1 harvests

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
Total nutrients applied	141.96	70,334.33	99,549.77	1,455.89
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
Nutrient balance	39.97	70,314.20	99,448.93	1,455.89
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

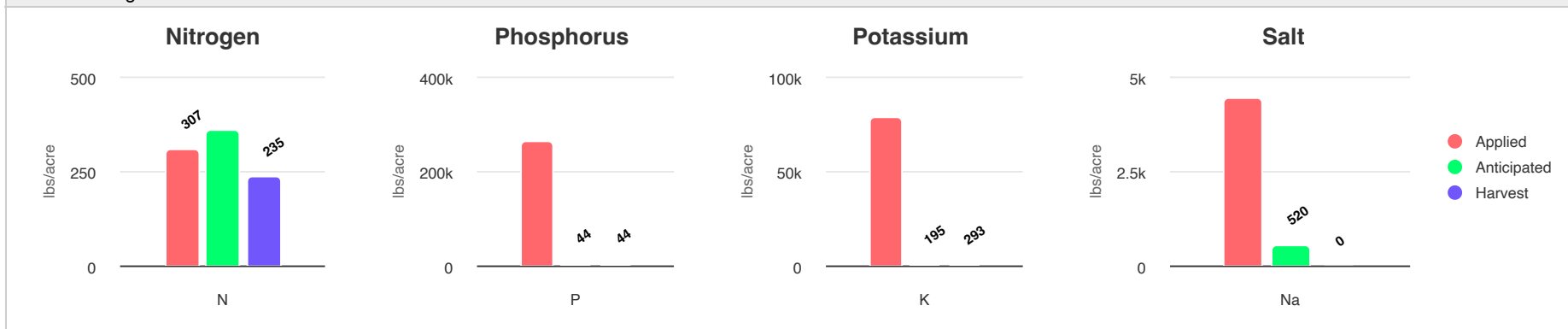
1 *harvests*

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
Total nutrients applied	306.82	263,896.53	78,281.32	4,438.65
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	234.64	43.61	293.30	0.00
Nutrient balance	72.18	263,852.92	77,988.02	4,438.65
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

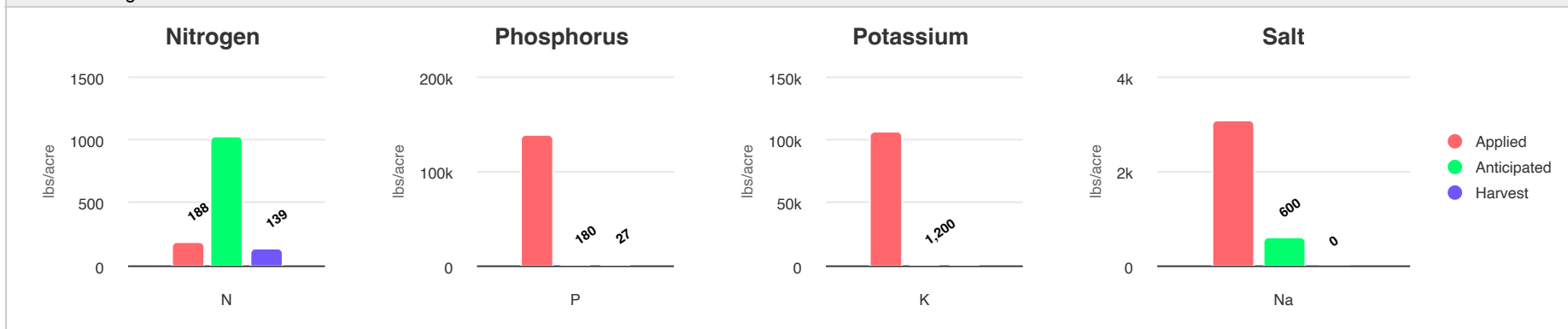
1 harvests

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
Total nutrients applied	187.74	137,503.77	105,945.88	3,084.14
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
Nutrient balance	48.49	137,477.16	105,818.07	3,084.14
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

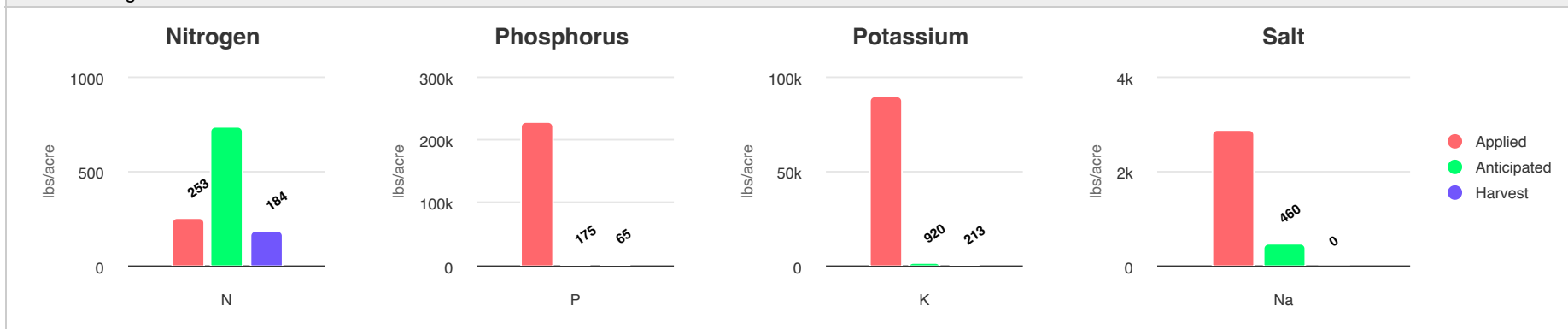
1 harvests

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
Total nutrients applied	253.36	228,164.02	89,178.10	2,865.11
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	183.55	65.37	212.64	0.00
Nutrient balance	69.81	228,098.65	88,965.46	2,865.11
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

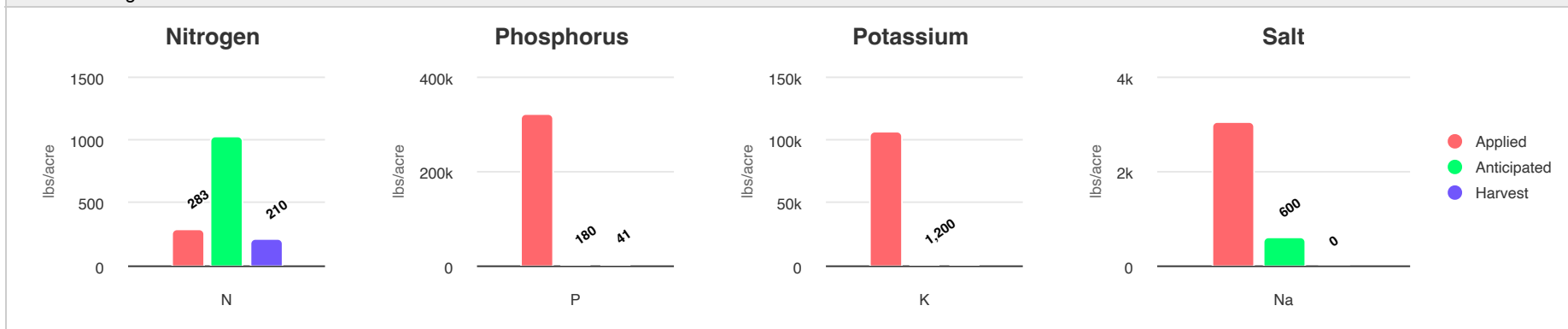
1 *harvests*

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
Total nutrients applied	283.22	320,265.26	106,008.75	3,039.25
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
Nutrient balance	73.56	320,224.75	105,793.59	3,039.25
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

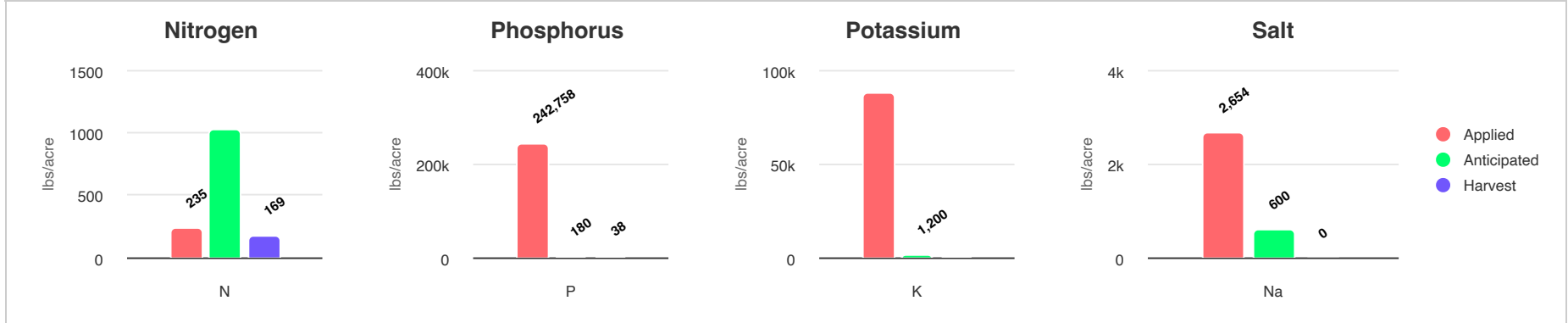
1 harvests

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
Total nutrients applied	235.47	242,757.68	87,412.95	2,654.41
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
Nutrient balance	66.09	242,719.97	87,285.82	2,654.41
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

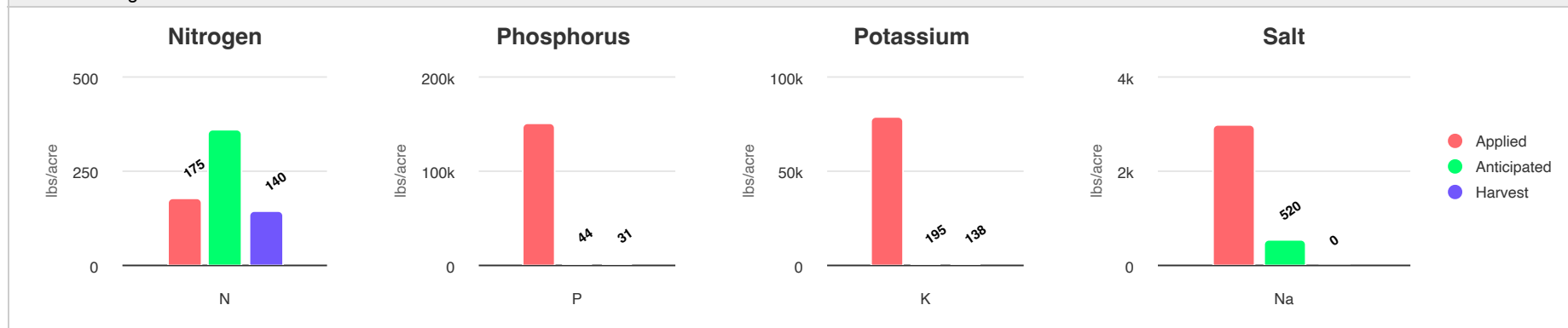
1 harvests

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
Total nutrients applied	174.54	150,081.79	78,608.25	2,961.91
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	140.25	31.15	137.86	0.00
Nutrient balance	34.29	150,050.64	78,470.39	2,961.91
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

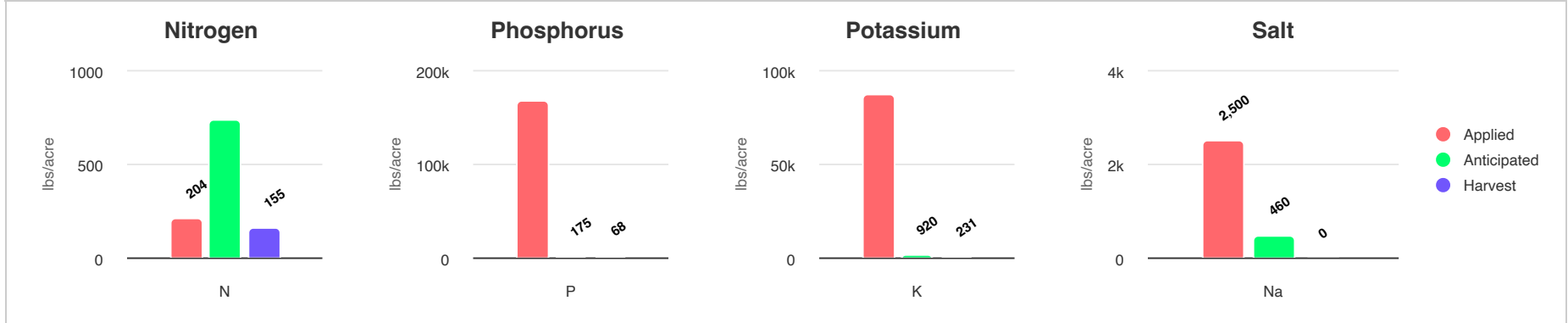
1 harvests

Field name: WSD-16

Crop: Corn, Late Silage

Plant date: 04/05/2023

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	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
Total nutrients applied	203.98	166,161.91	86,955.90	2,500.34
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	154.89	67.57	231.31	0.00
Nutrient balance	49.09	166,094.34	86,724.59	2,500.34
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

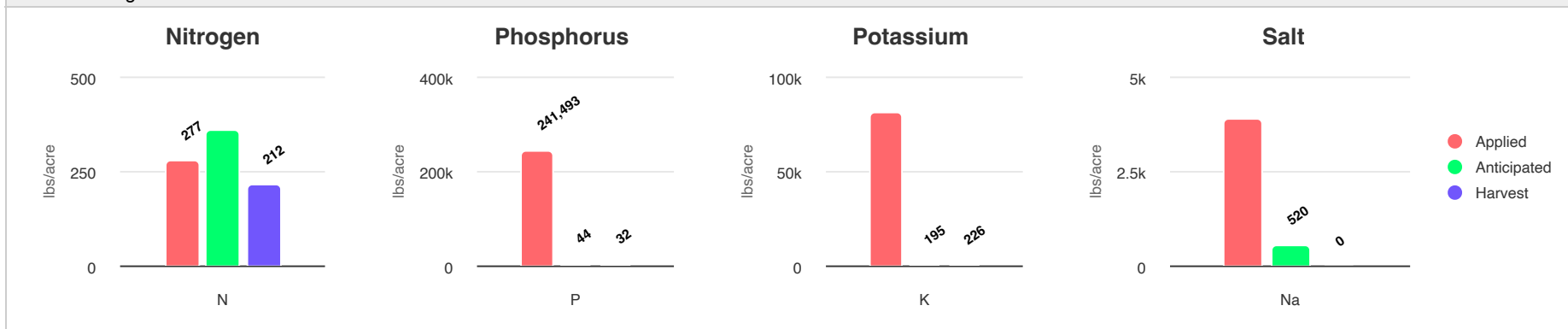
1 harvests

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
Total nutrients applied	276.72	241,492.57	80,927.71	3,886.11
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	212.24	31.77	226.21	0.00
Nutrient balance	64.48	241,460.80	80,701.50	3,886.11
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

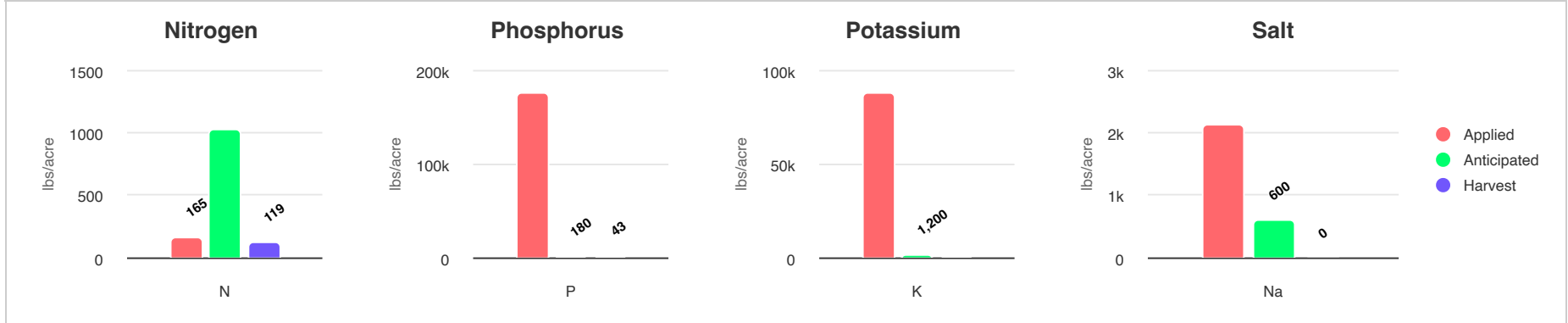
1 harvests

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
Total nutrients applied	165.46	175,032.30	87,888.30	2,121.89
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
Nutrient balance	46.24	174,988.93	87,733.01	2,121.89
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

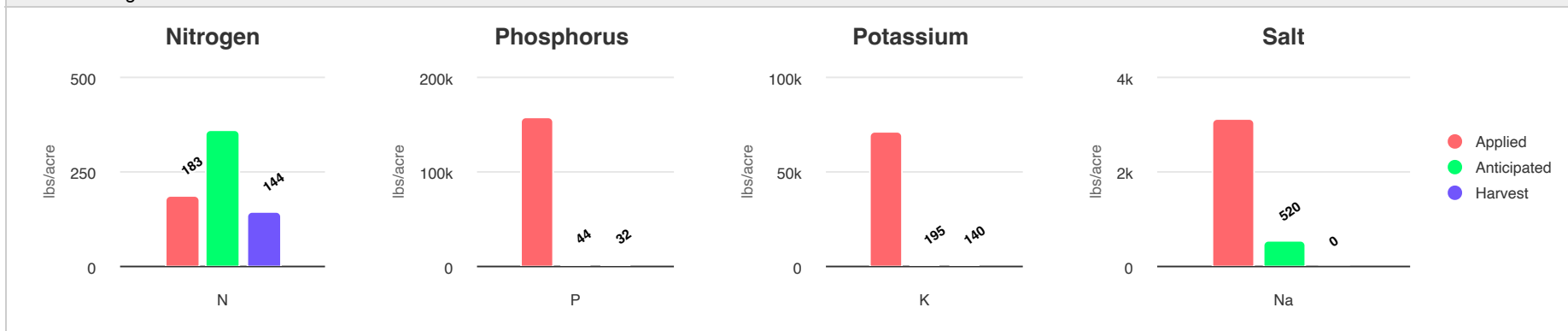
1 harvests

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
Total nutrients applied	183.41	156,191.44	70,786.39	3,095.96
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	144.35	32.06	139.74	0.00
Nutrient balance	39.06	156,159.38	70,646.65	3,095.96
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

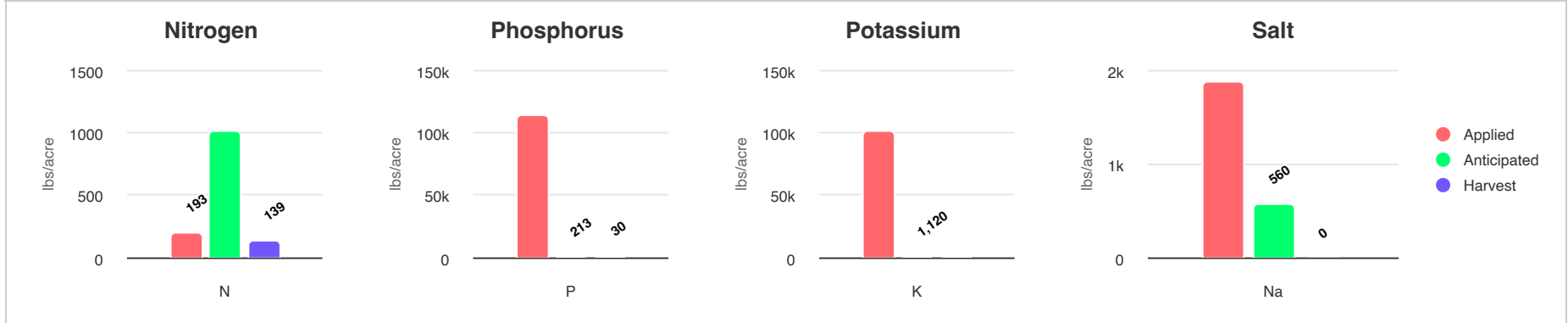
1 *harvests*

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
Total nutrients applied	193.41	113,556.27	101,130.78	1,865.49
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
Nutrient balance	53.99	113,525.80	100,968.36	1,865.49
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

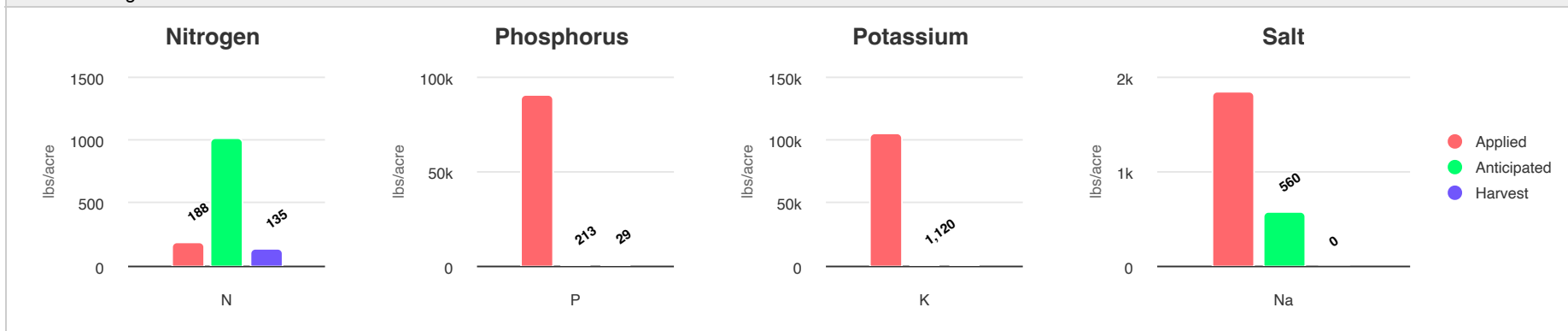
1 harvests

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
Total nutrients applied	187.92	90,370.99	104,919.38	1,830.60
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
Nutrient balance	52.50	90,342.47	104,765.21	1,830.60
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

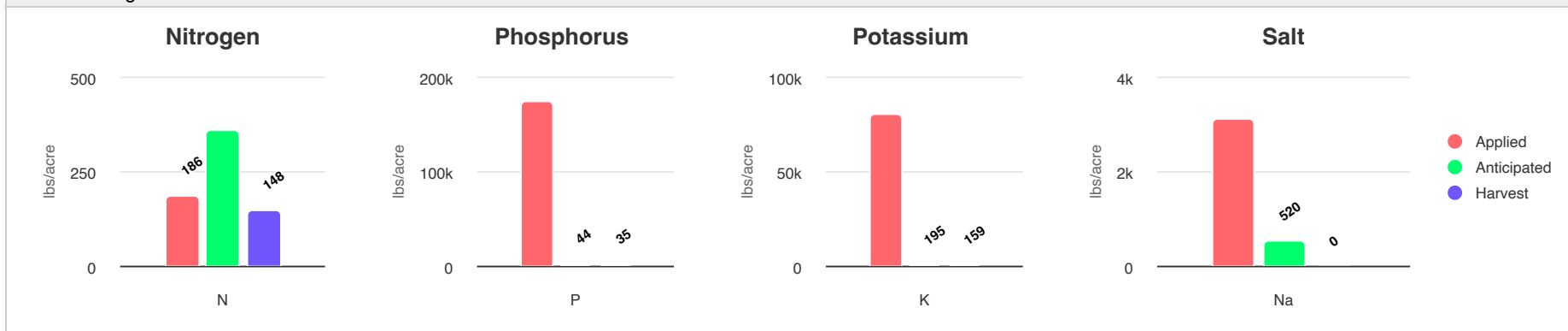
1 harvests

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
Total nutrients applied	185.72	173,271.84	79,770.37	3,097.40
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	148.22	35.08	158.73	0.00
Nutrient balance	37.50	173,236.76	79,611.64	3,097.40
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

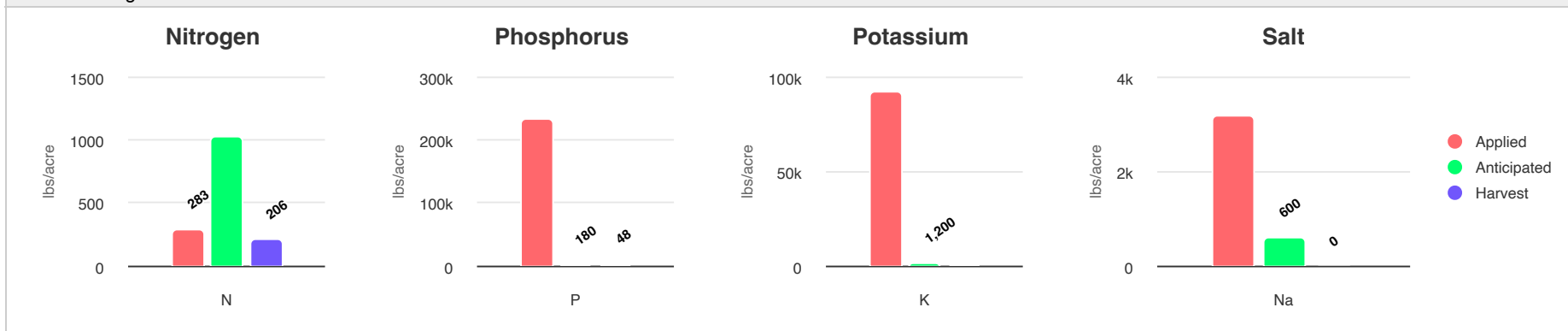
1 harvests

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
Total nutrients applied	283.15	232,606.57	92,128.33	3,154.93
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
Nutrient balance	76.89	232,558.87	91,855.95	3,154.93
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

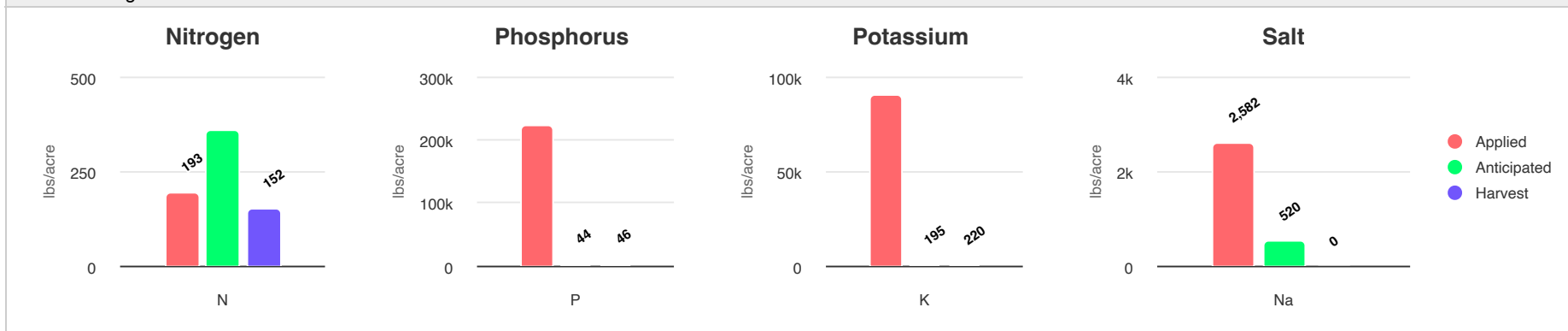
1 harvests

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
Total nutrients applied	192.71	222,142.76	90,604.96	2,582.23
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	152.36	46.10	220.13	0.00
Nutrient balance	40.35	222,096.66	90,384.83	2,582.23
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

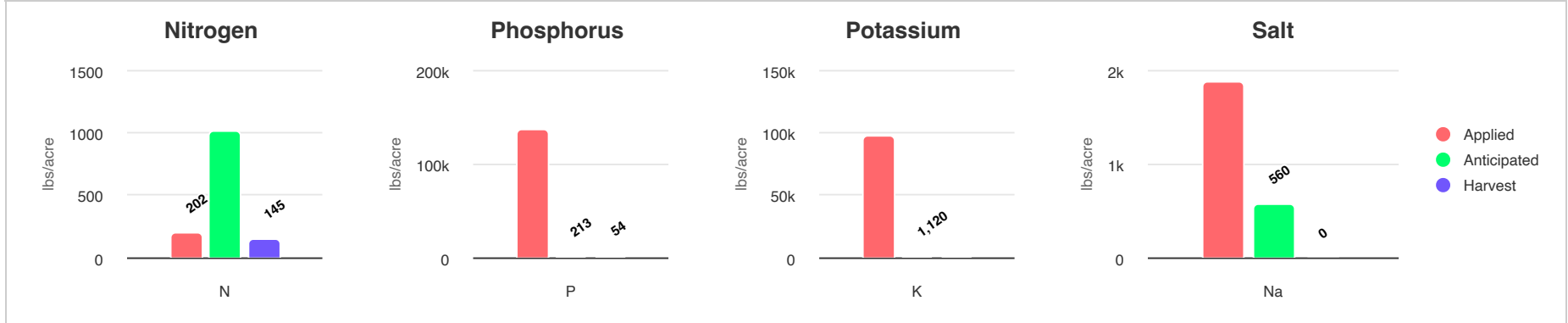
1 harvests

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
Total nutrients applied	201.51	137,101.42	96,993.62	1,871.69
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
Nutrient balance	56.56	137,047.91	96,791.07	1,871.69
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

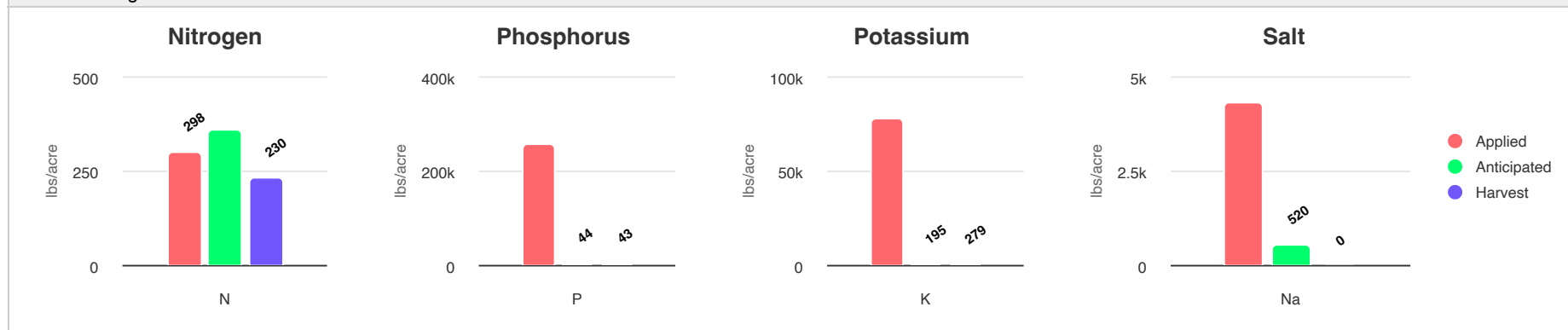
1 harvests

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
Total nutrients applied	297.85	257,138.80	77,795.99	4,309.91
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	229.87	42.76	279.47	0.00
Nutrient balance	67.98	257,096.04	77,516.52	4,309.91
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

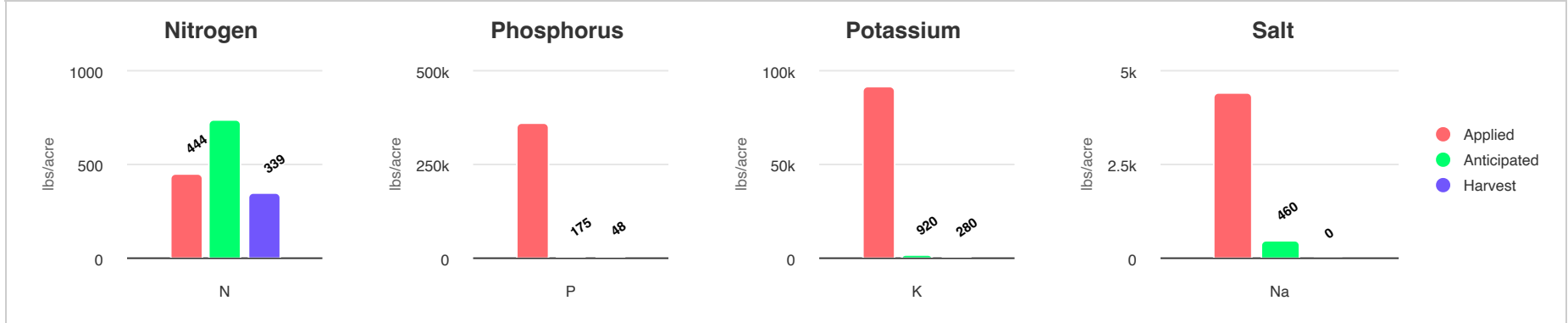
WSD-5B - 05/11/2023: Corn, Late Silage

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
Total nutrients applied	443.72	358,881.31	91,478.99	4,379.90
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	339.35	47.84	280.06	0.00
Nutrient balance	104.37	358,833.47	91,198.93	4,379.90
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

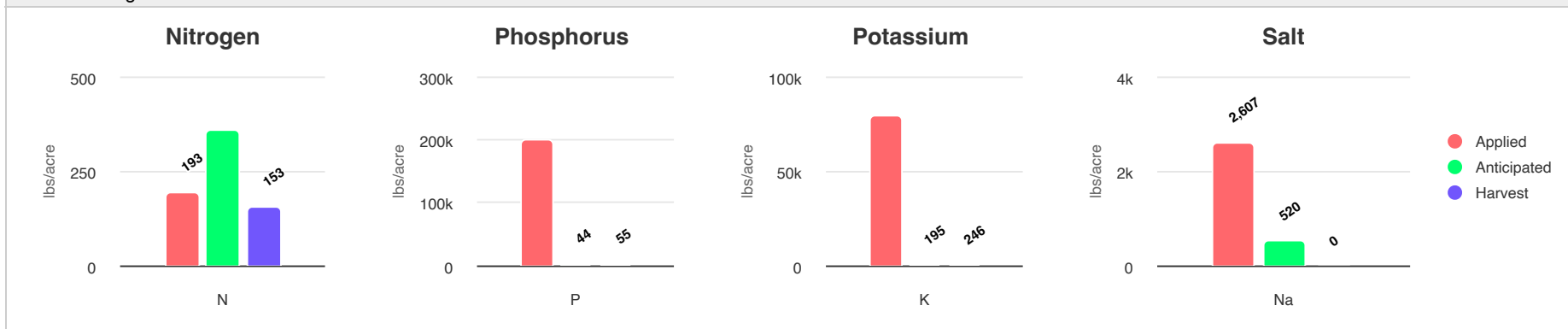
1 harvests

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
Total nutrients applied	193.02	200,553.88	79,101.11	2,606.94
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	153.09	55.32	246.08	0.00
Nutrient balance	39.93	200,498.56	78,855.03	2,606.94
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

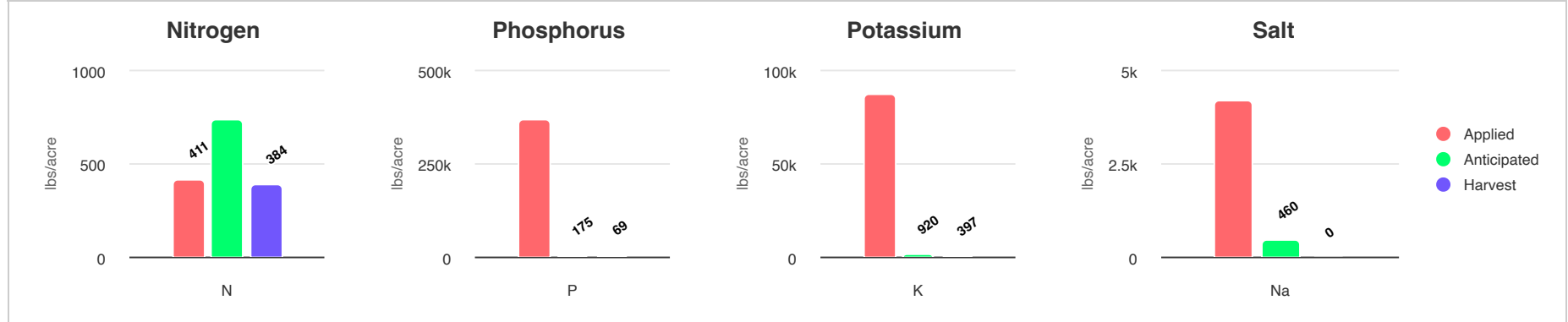
1 harvests

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
Total nutrients applied	410.57	364,776.12	87,014.86	4,171.89
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	383.69	69.41	397.11	0.00
Nutrient balance	26.88	364,706.71	86,617.75	4,171.89
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

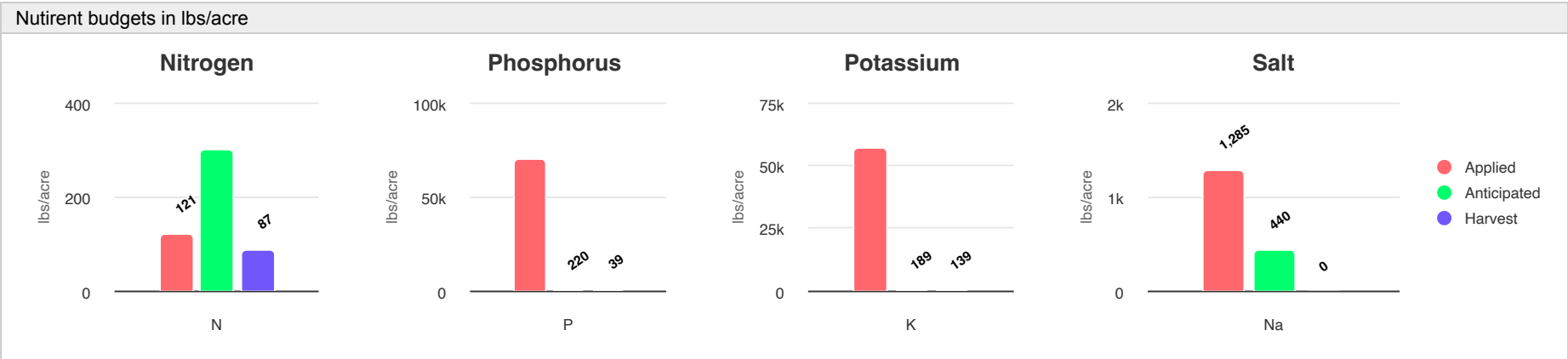
Total Harvests for the crop

1 harvests

Field name: WSD-6

Crop: Milo

Plant date: 08/15/2023



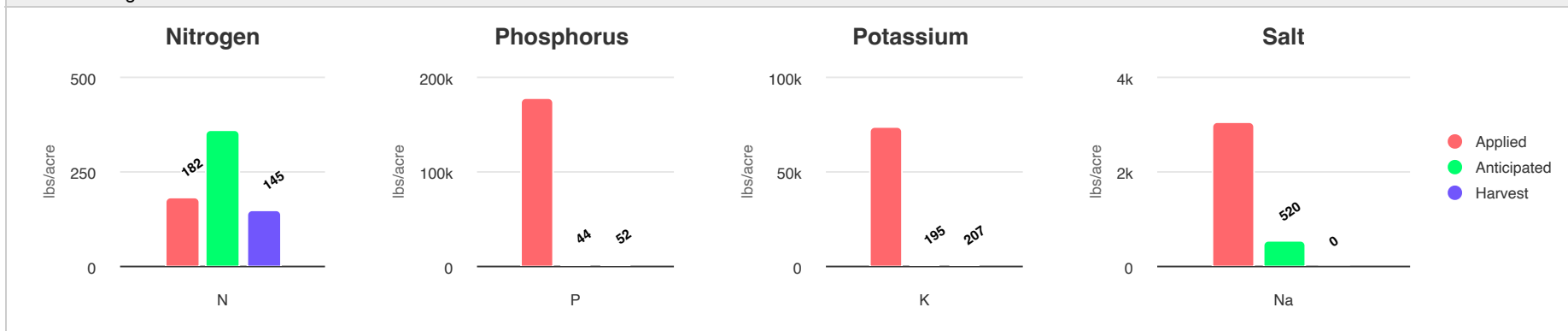
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	
Existing soil nutrient content	0.00	0.00	0.00	0.00	Fresh water applied
Plowdown credit	0.00	0.00	0.00	0.00	32,977,264.59 gallons
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	1,214.44 acre-inches
Dry manure	0.00	0.00	0.00	0.00	20.15 inches/acre
Process wastewater	106.50	65,663.06	94.77	743.90	Process wastewater applied
Fresh water	0.10	4,566.03	57,074.43	541.19	1,500,751.98 gallons
Atmospheric deposition	14.00	0.00	0.00	0.00	55.27 acre-inches
Total nutrients applied	120.60	70,229.09	57,169.20	1,285.09	0.92 inches/acre
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00	Total Harvests for the crop
Actual crop nutrient removal	87.09	38.90	139.24	0.00	1 harvests
Nutrient balance	33.51	70,190.19	57,029.96	1,285.09	
Applied to removed ratio	1.38	1,805.48	410.58	0.00	

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
Total nutrients applied	182.10	176,479.62	73,129.17	3,023.78
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	145.36	52.33	206.88	0.00
Nutrient balance	36.74	176,427.29	72,922.29	3,023.78
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

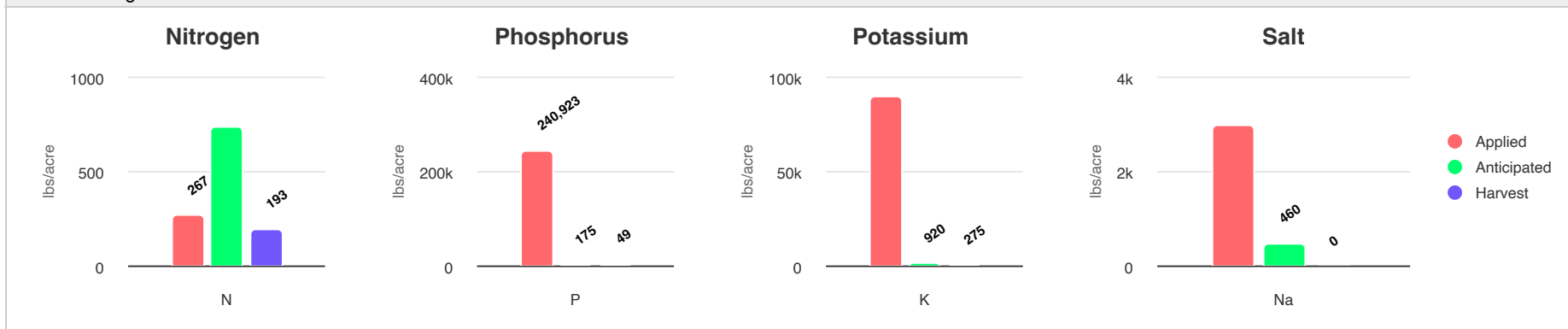
1 harvests

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
Total nutrients applied	267.26	240,922.65	89,490.27	2,966.80
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	192.79	49.37	275.19	0.00
Nutrient balance	74.47	240,873.28	89,215.08	2,966.80
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*

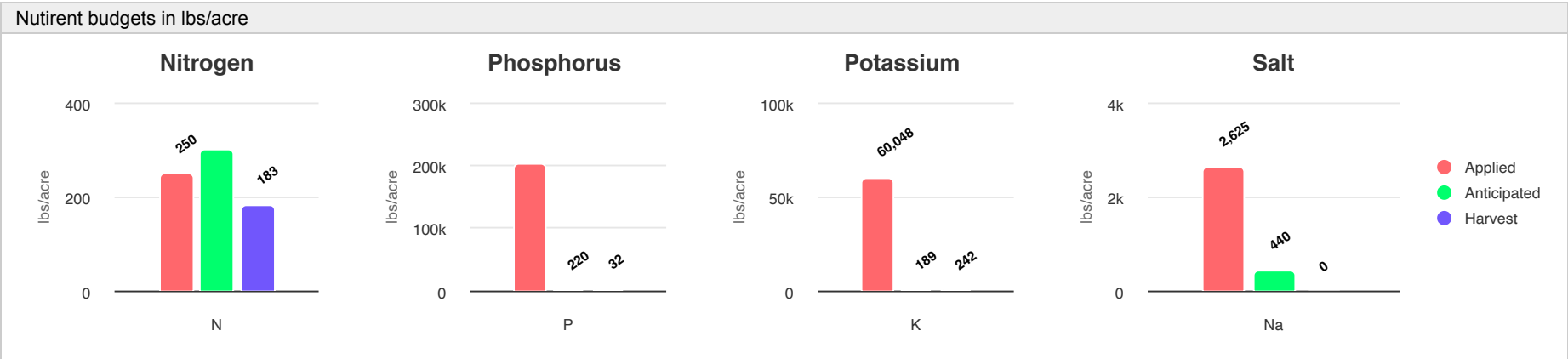
Total Harvests for the crop

1 *harvests*

Field name: WSD-8

Crop: Milo

Plant date: 06/05/2023



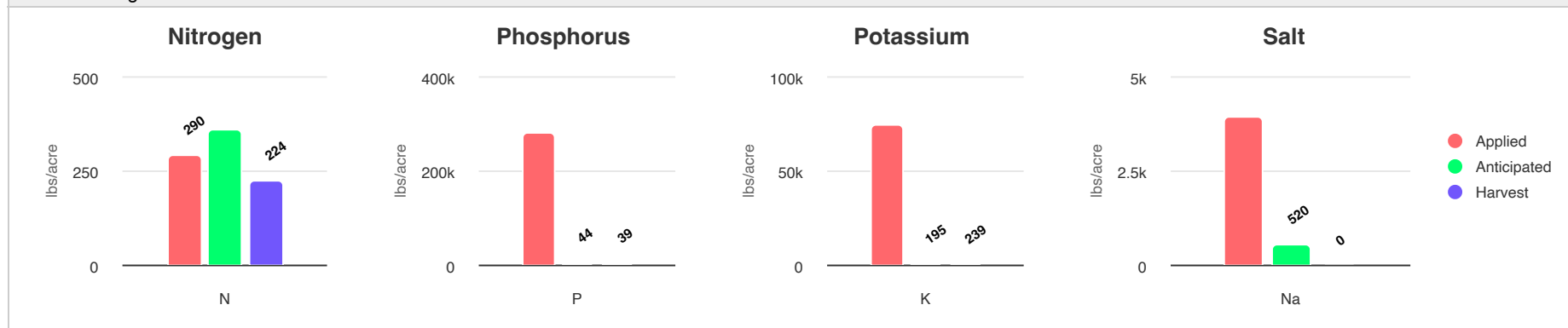
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	
Existing soil nutrient content	0.00	0.00	0.00	0.00	Fresh water applied
Plowdown credit	0.00	0.00	0.00	0.00	52,146,874.12 gallons
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	1,920.39 acre-inches
Dry manure	0.00	0.00	0.00	0.00	25.80 inches/acre
Process wastewater	235.89	196,828.76	351.47	1,892.58	Process wastewater applied
Fresh water	0.11	5,846.33	59,696.24	731.99	4,220,258.62 gallons
Atmospheric deposition	14.00	0.00	0.00	0.00	155.42 acre-inches
Total nutrients applied	250.00	202,675.09	60,047.71	2,624.57	2.09 inches/acre
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00	Total Harvests for the crop
Actual crop nutrient removal	182.68	31.52	242.24	0.00	1 harvests
Nutrient balance	67.32	202,643.57	59,805.47	2,624.57	
Applied to removed ratio	1.37	6,429.90	247.89	0.00	

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
Total nutrients applied	289.95	279,453.27	74,335.17	3,921.98
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	224.29	38.66	239.50	0.00
Nutrient balance	65.66	279,414.61	74,095.67	3,921.98
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 (%)
Value	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
DL	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 (%)
Value	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
DL	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 (%)
Value	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
DL	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 (%)
Value	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
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263073B

Sample and source description name: T3263073B

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

Moisture: 72.4%

	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	17,600.00	1,800.00	4,660.00	7,180.00	2,660.00	1,150.00	2,800.00	476.00	4,660.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263073C

Sample and source description name: T3263073C

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

Moisture: 84%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	23,900.00	5,180.00	7,520.00	9,070.00	5,260.00	2,820.00	2,820.00	679.00	7,520.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362033A

Sample and source description name: T3362033A

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

Moisture: 33.3%

	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	30,620.00	7,130.00	24,010.00	11,720.00	6,960.00	5,270.00	3,250.00	971.00	24,010.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362033B

Sample and source description name: T3362033B

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

Moisture: 76.7%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
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Value	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
DL	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 (%)
Value	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
DL	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 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	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 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	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: 08/14/2023Source 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)

Value	0.00	0.00	0.00	8.84	0.23	59.77	0.00	0.00	47.00	12.92	0.35	145.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

Canal - Kern Delta

T3362072C-178-2156

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

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)
Value	2.80	0.00	0.00	16.59	6.27	23.89	0.00	0.00	22.73	26.87	0.28	100.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

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

Mositure: 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

Mositure: 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

Mositure: 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

Mositure: 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

Mositure: 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

Mositure: 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

T3228042D

Sample
description: T3228042D

Sample date: 08/11/2023 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	11,200.00	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

Mositure: 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

Mositure: 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

Mositure: 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

Mositure: 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

Mositure: 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

Mositure: 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

Mositure: 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

Mositure: 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

Mositure: 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

Mositure: 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

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

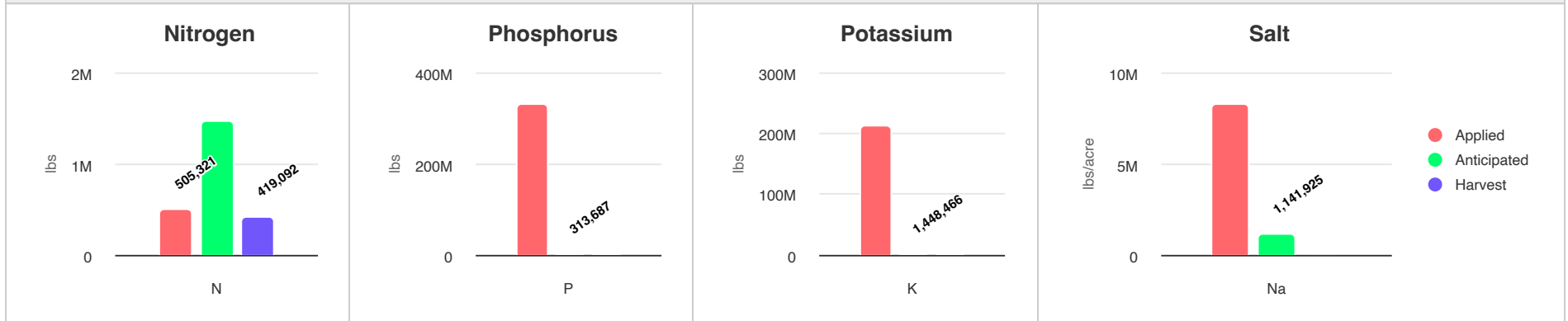
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

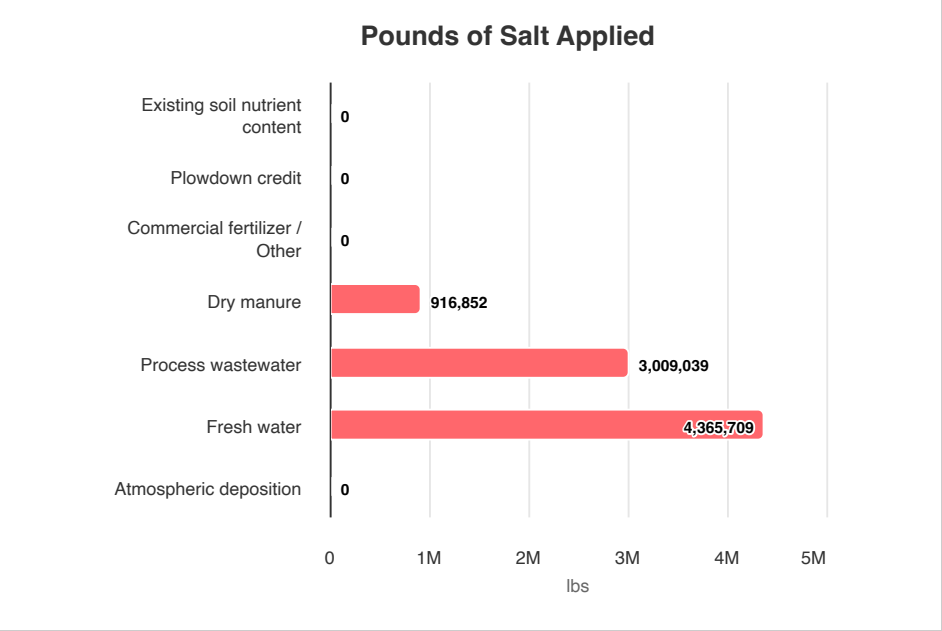
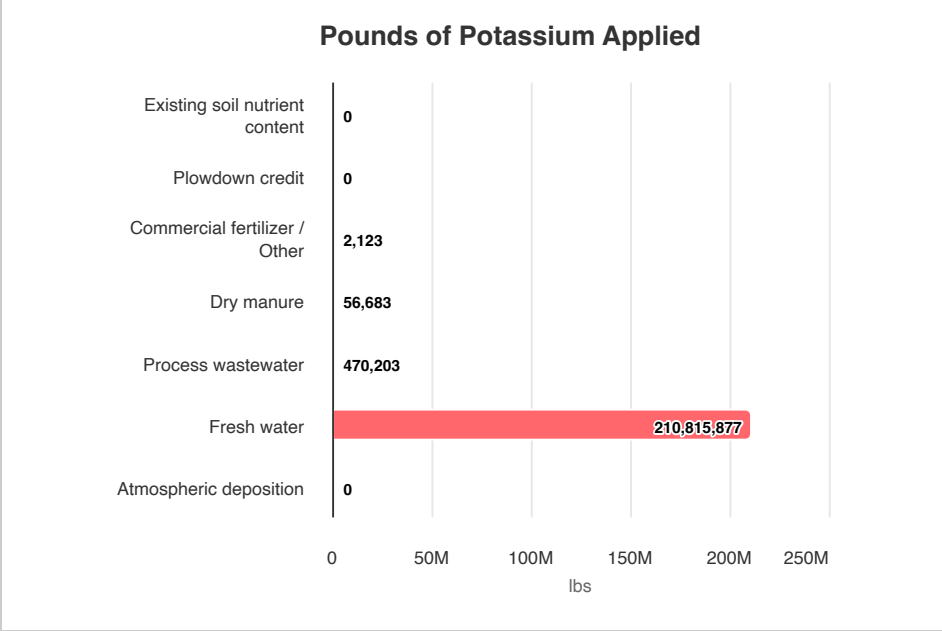
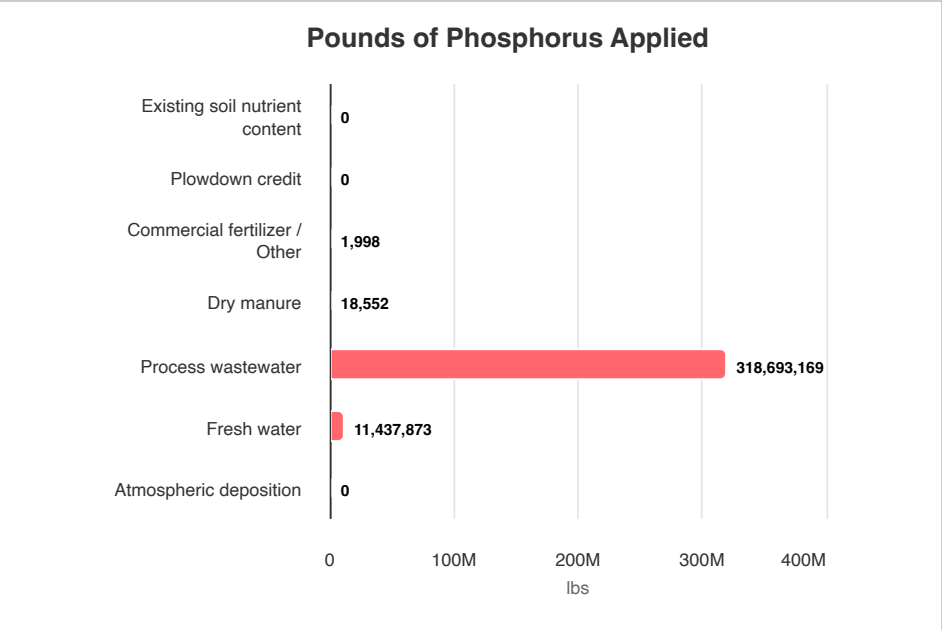
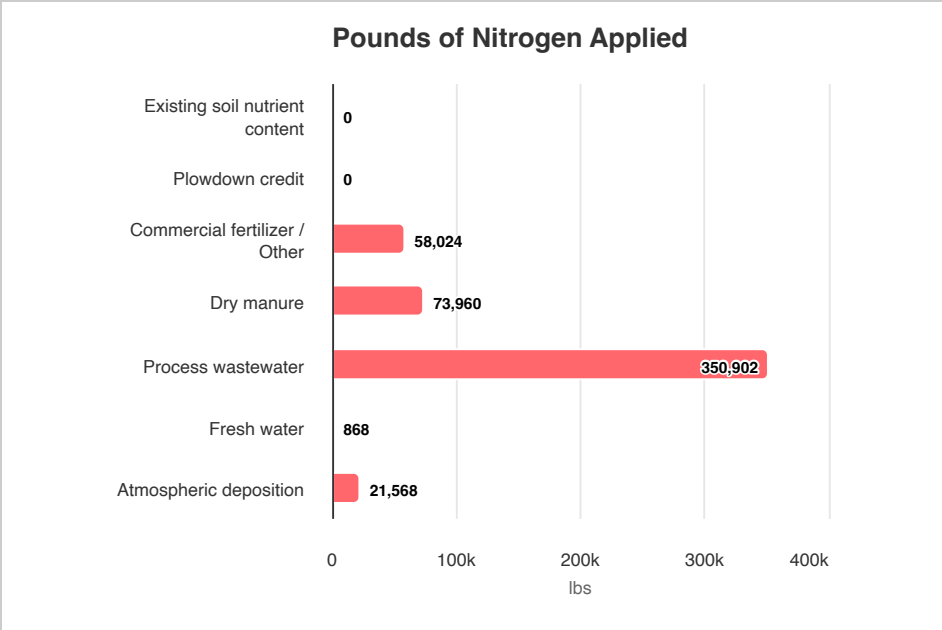
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	58,023.61	1,998.10	2,122.98	0.00
Dry manure	73,960.42	18,551.78	56,682.99	0.00
Process wastewater	350,901.52	318,693,168.89	470,202.59	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
Total nutrients applied	505,321.18	330,151,591.42	211,344,885.93	8,291,600.19
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
Nutrient balance	86,229.28	330,066,080.64	210,885,375.37	8,291,600.19
Applied to removed ratio	1.21	3,860.94	459.93	0.00

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

Nutrient budgets in lbs/acre



C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE



EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS
--

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period?	<u>Yes</u>
Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order?	<u>Yes</u>
Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order?	<u>Yes</u>

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period?	<u>No</u>
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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 PDF/A Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed.

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Discharge Maps

Provide map(s) showing the discharge and sample locations for each discharge or release of waste to land areas (land application areas or otherwise) or surface water.

Discharge Lab Reports

Provide copies of laboratory analyses of all discharges (manure, process wastewater, or tailwater), surface water (upstream and downstream of a discharge), and storm water, including chain-of-custody forms and laboratory quality assurance/quality control results.

Groundwater Monitoring

Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

Storm Water Monitoring

Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

Solid/Liquid Manure Tracking Manifest

Waste Generator Information:

Name: 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

Manure Hauler / Processor Information:

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

Contact:

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

Manure Destination Farm

Destination Information:

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

Contact:

Name: Mark Plantenga
Number: 661-203-9999

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

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

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

Signature of Owner:



Date:

12/30/2023

Signature of Hauler:



Date:

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
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 %
Total	22,060		

**Denele Analytical, Inc.**

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

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

Compliance Analysis Report

Customer

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 (SO ₄)	EPA 375.2	305	mg/L
		Sodium (Na)	EPA 200.7	248	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	4.57	mg/L
		Nitrate Nitrogen (NO ₃ -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 (NH ₃ -N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO ₃ -N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO ₄)	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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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: 1/4/24

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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Phone (209) 634-9055 - Fax (209) 634-9057
www.denelelabs.com

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

Compliance Analysis Report

Customer

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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Compliance Analysis Report

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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 #3	T3362069B	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 (SO ₄)	EPA 375.2	274	mg/L
		Sodium (Na)	EPA 200.7	245	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	4.51	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	1150	mg/L
		Calcium (Ca)	EPA 200.7	204	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	16.7	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 (NH ₃ -N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO ₃ -N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO ₄)	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 #3	T3362069B	pH (pH)	SM4500-H+ B-2000	7.7	S.U.

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

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Grower**Consultant:**

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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 #3	T3362069B	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.81	%

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

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SUBMITTED BY: Courier
ANALYZED DATE: 1/3/24

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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Grower

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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
WSD Dom W4	T3362069C	Electrical Conductivity (EC)	EPA 120.1 and	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 (SO ₄)	EPA 375.2	99.7	mg/L
		Sodium (Na)	EPA 200.7	128	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	3.30	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	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 (NH ₃ -N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO ₃ -N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO ₄)	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
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ANALYZED DATE: 1/2/24

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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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
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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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
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

Dorelle

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

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

CHAIN



23-Q1

Western Sky Dairy

LR #1

W

Ranch: Lake Ranch

Date: 12-27-23

9:00 am

IW

35.145283, -119.163891

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

CHAIN



23-Q1

Western Sky Dairy

LR #3

W

Ranch: Lake Ranch

Date: 12-27-23

8:40 am

IW

35.145159, -119.180972

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

CHAIN



23-Q1

Western Sky Dairy

WSD Dom W4

W

Ranch: Home Ranch

Date: 12-27-23

8:50 am

IW

No Lat/Lng

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Chain of Custody Recording Log

	Signature	Company	Received Date/Time	Relinquished Date/Time	Laboratory Use Only	
1st	Antonio Mera	Icon Ag		12-27-23 3:00 pm	Logged in By:	Laboratory #
2nd	Dorelle	Icon Ag	12/28 5:30 A	12/28 10:15 A		
3rd	Albert Maites Jr			12-28-23 10:15		
4th	Dorelle		12-28-23 12:00		T3362069	

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Bakersfield, CA 93311

Grower**Consultant:**

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

PURCHASE ORDER:

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

Boron (B)

SOURCE: Well Water

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

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

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Grower

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

PURCHASE ORDER:

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

SUBMITTED BY: Courier

ANALYZED DATE: 8/17/23

Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD #1	T3228023A	Electrical Conductivity (EC)	EPA 120.1 and	0.581	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	126	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	119	mg/L
		Sodium (Na)	EPA 200.7	92.9	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	0.754	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	295	mg/L
		Calcium (Ca)	EPA 200.7	27.9	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	27.0	mg/L
		Soluble Salts (SALT-SOL)	Calculation	372	mg/L

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

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Grower**Consultant:**

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

PURCHASE ORDER:

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

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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Bakersfield, CA 93312

PURCHASE ORDER:

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

Total Nitrogen (TN)
SOURCE: Well Water

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

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

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

PURCHASE ORDER:

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

Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
WSD #3	T3228023B	Boron (B)	EPA 200.7	0.171	ppm

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

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Bakersfield, CA 93311

Grower

Consultant:

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

PURCHASE ORDER:

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

SUBMITTED BY: Courier

ANALYZED DATE: 8/17/23

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	0.345	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	86.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	47.0	mg/L
		Sodium (Na)	EPA 200.7	59.8	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	145	mg/L
		Calcium (Ca)	EPA 200.7	8.84	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	12.9	mg/L
		Soluble Salts (SALT-SOL)	Calculation	221	mg/L

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

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

**Denele Analytical, Inc.**

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

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

Compliance Analysis Report

Customer

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: 8/16/23

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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18501 Old River Rd.
Bakersfield, CA 93311

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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 #3	T3228023B	pH (pH)	SM4500-H+ B-2000	8.0	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: 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 #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

1. Location: <table border="1"> <tr> <th>Analysis</th> <th>Weather</th> <th>Temp (°F)</th> <th># of Bags/Bottles</th> </tr> <tr> <td>W2</td> <td>SH</td> <td>88</td> <td>1</td> </tr> </table>	Analysis	Weather	Temp (°F)	# of Bags/Bottles	W2	SH	88	1	CHAIN Western Sky Dairy WSD #1 W Ranch: Home Ranch 10:00 Date: 8-14-2023 am IW 35.208573, -119.119693
Analysis	Weather	Temp (°F)	# of Bags/Bottles						
W2	SH	88	1						
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Analysis	Weather	Temp (°F)	# of Bags/Bottles						
W2	SH	88	1						
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Chain of Custody Recording Log

	Signature	Company	Received Date/Time	Relinquished Date/Time	Laboratory Use Only	
1st	Antonio Mera	Icon Ag		8-15-2023 7:00 am	Logged in By:	Laboratory #
2nd						
3rd		Denele	8-16-23 10:20			
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

Manure Hauler / Processor Information:

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

Contact:

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

Manure Destination

Farm

Destination Information:

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

Contact:

Name: Mark Plantenga
Number: 661-203-9999

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 %
Total	22,060		

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

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

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

Signature of Owner:



Date:

12/30/2023

Signature of Hauler:



Date:

12/30/2023