DELLAVALLE™
LABORATORY INC

California Regional Water Quality Control Board
Central Valley Region
1885 E Street
Fresno, CA 93706

June 26, 2024

Dear CRWQCB,

This folder contains the 2023 Annual Report for;

Bar 20 Dairy LLC located at 24387 W. Whitesbridge Road in Kerman California.

This document has been prepared by Dellavalle Laboratory, Inc. in accordance with WDR General Order R5-2007-0035. This report was compiled using data provided by the owners and operators of the dairy. Please find the following documents included;

- The Annual Report
- Manure Tracking Manifest
- Corrective Actions Documents
- Well Monitoring Analysis

Every effort has been made to maintain clear and accurate records. All records are held on-site and at Dellavalle Laboratory, Inc. in both electronic and hard copy form. These records will be kept for five years. Copies of every item in this folder have been made and are kept by the dairyman and Dellavalle Laboratory.

1910 W. McKinley, Suite 110 Fresno CA 93728-1298 (559) 233-6129

DELLAVALLE™
LABORATORY INC

Annual Report

1910 W. McKinley, Suite 110 Fresno CA 93728-1298 (559) 233-6129

Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: Bar 20 Dairy LLC

Physical address of dairy:

Number and Street	City	County	Zip Code
25500-2438 W West Whitesbridge RD	Kerman	Fresno	93630

Street and nearest cross street (if no address): West Whitesbridge

Date facility was originally placed in operation: 01/01/1950

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0015-0010-017S-0000 0015-0010-021S-0000

B. OPERATORS

Shehadey, Steve

Operator name: Shehadey, Steve

Telephone no.: (559) 824-6587 (Landline) (Cellular)

Mailing Address Number and Street	City	State	Zip Code
P.O. Box 1231	Fresno	CA	93715-1231

This operator is responsible for paying permit fees.

C. OWNERS

Shehadey, Steve

Legal owner name: Shehadey, Steve

Telephone no.: (559) 824-6587 (Landline) (Cellular)

Mailing Address Number and Street	City	State	Zip Code
P.O. Box 1231	Fresno	CA	93715-1231

This owner is responsible for paying permit fees.

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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	200	600	3,600	2,800	700	1,000
Number under roof	6,500	350	0	0	500	200
Maximum number	8,600	1,000	3,950	4,135	1,300	1,800
Average number	6,300	800	2,480	3,350	1,200	1,200
Avg live weight (lbs)	1,500	1,550	1,100	750		

Predominant milk cow breed: Holstein

Average milk production: 81 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 249,126.57 *tons per reporting period*

Total nitrogen from manure: 3,041,139.71 *lbs per reporting period*

After ammonia losses (30% loss applied): 2,128,797.80 *lbs per reporting period*

Total phosphorus from manure: 498,827.20 *lbs per reporting period*

Total potassium from manure: 1,252,038.23 *lbs per reporting period*

Total salt from manure: 3,150,315.00 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 151,276,325 *gallons*

Total nitrogen generated: 404,762.47 *lbs*

Total phosphorus generated: 117,718.84 *lbs*

Total potassium generated: 885,435.35 *lbs*

Total salt generated: 4,129,571.15 *lbs*

	151,276,325	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	151,276,325	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
DW 3N	Ground water
DW 3S	Ground water
IW 1	Ground water
IW 10-4	Ground water
IW 15	Ground water

Source Description	Type
IW 16	Ground water
IW 19	Ground water
IW 20	Ground water
IW 3	Ground water
IW 4-4E	Ground water
IW 5	Ground water
IW 5-1	Ground water
IW 5-2E	Ground water
IW 5-4E	Ground water
IW 5-4W	Ground water
IW 8-4	Ground water
IW SF 11	Ground water
IW SF 12N	Ground water
IW SF 12S	Ground water
IW SF 16	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

Date	Material type / Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
01/01/2023	Solid commercial fertilizer *11-52-0*	143.63 *ton*	Dry-weight	0.1	11.000000	52.000000	0.000000	0.000000
05/15/2023	Liquid commercial fertilizer *3-18-18*	7,007.00 *gal*			3.000000	18.000000	18.000000	0.000000
06/12/2023	Liquid commercial fertilizer *UN-32*	35,034.00 *gal*			32.000000	0.000000	0.000000	0.000000

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Commercial fertilizer / Other	126,876.00	159,751.04	10,525.21	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total imports for all materials	126,876.00	159,751.04	10,525.21	0.00

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
10--1E	45	45	1	none	0015-0100-002S-0000
10--1W	92	92	1	none	0015-0100-001S-0000
10--2E	33	33	1	none	0015-0100-002S-0000
10--2W	67	67	1	none	0015-0100-001S-0000
10--3E	17	17	2	process wastewater	0015-0100-002S-0000
10--3W	85	85	1	none	0015-0100-001S-0000
10--4	79	79	2	process wastewater	0015-0100-001S-0000
11	117	117	2	process wastewater	0015-0060-044S-0000
12	119	119	2	process wastewater	0015-0060-044S-0000
13	119	119	0	none	0015-0060-014S-0000
14	120	120	0	none	0015-0060-014S-0000
15	119	119	1	none	0015-0060-052S-0000 0015-0060-054S-0000
16	117	117	1	none	0015-0060-046S-0000 0015-0060-052S-0000
17	120	120	2	process wastewater	0015-0060-046S-0000 0015-0060-052S-0000
2A	42	42	1	none	0015-0060-053S-0000
2B	39	39	1	none	0015-0060-053S-0000
2C	39	39	2	process wastewater	0015-0060-053S-0000
2D	43	43	2	process wastewater	0015-0060-053S-0000
2E	39	39	2	process wastewater	0015-0060-053S-0000
2F	39	39	2	process wastewater	0015-0060-053S-0000
3--1	71	71	1	none	0015-0100-019S-0000
3A	85	85	2	process wastewater	0015-0060-048S-0000
3B	38	38	1	none	0015-0060-048S-0000
3C	38	38	1	none	0015-0060-053S-0000
3E	38	38	1	none	0015-0060-048S-0000
3F	38	38	1	none	0015-0060-053S-0000
4--2E	18	18	1	process wastewater	0015-0100-017S-0000
4--3E	35	35	1	none	0015-0100-006S-0000
4--3W	51	51	2	process wastewater	0015-0100-006S-0000 0015-0100-017S-0000
4--4E	34	34	2	process wastewater	0015-0100-006S-0000

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
4--4W	42	42	2	process wastewater	0015-0100-006S-0000
5--1	76	76	2	process wastewater	0015-0100-008S-0000
5--2E	39	39	2	process wastewater	0015-0100-008S-0000
5--2W	83	83	1	none	0015-0100-008S-0000
5--3E	78	78	1	none	0015-0100-008S-0000
5--3W	42	42	0	none	0015-0100-008S-0000
5--4E	35	35	0	none	0015-0100-008S-0000
5--4W	41	41	1	none	0015-0100-008S-0000
5A	51	51	1	none	0015-0060-042S-0000 0015-0060-053S-0000
8--1	79	79	2	process wastewater	0015-0100-004S-0000
8--2	80	80	2	process wastewater	0015-0100-004S-0000
8--3	83	83	2	process wastewater	0015-0100-004S-0000
8--4	75	75	1	none	0015-0100-004S-0000
9--1	69	69	2	process wastewater	0015-0100-003S-0000
9--2	49	49	1	none	0015-0100-003S-0000
9--3	68	68	1	none	0015-0100-002S-0000 0015-0100-003S-0000
R4-1	35	35	2	process wastewater	0015-0100-020S-0000
R4-2	39	39	2	process wastewater	0015-0100-020S-0000
R4-3	39	39	1	none	0015-0100-020S-0000
R4-4	39	39	2	process wastewater	0015-0100-020S-0000
R4-5	57	57	1	none	0015-0100-020S-0000
R4-6	39	39	2	process wastewater	0015-0100-020S-0000
Totals for areas that were used for application	1,420	1,420	47		
Totals for areas that were not used for application	1,754	1,754	24		
Land application area totals	3,174	3,174	71		

B. CROPS AND HARVESTS

10--1E

Field name: 10--1E

10--1E

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 45 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	629.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	13.98	380.20	33.55	204.08	1,324.86

10--1W

Field name: 10--1W

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 92 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	641.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	6.97	189.51	16.72	101.72	660.39

10--2E

Field name: 10--2E

10--2E

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 33 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	371.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	11.24	305.79	26.98	164.14	1,065.59

10--2W

Field name: 10--2W

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 67 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	959.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	14.31	389.33	34.35	208.98	1,356.67

10--3E

Field name: 10--3E

10--3E

11/05/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 17 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	322.90 *ton*	As-is		60.1	4,100.00	900.00	5,300.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	18.99	155.75	34.19	201.34	1,546.05

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 17 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	290.90 *ton*	As-is		61.1	5,800.00	1,100.00	4,600.00		5.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	17.11	198.50	37.65	157.43	785.46

10--3W

Field name: 10--3W

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 85 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	858.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	10.09	274.56	24.23	147.37	956.75

10--4

Field name: 10--4

10/26/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 79 Plant date: 10/26/2022

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	1,405.20 *ton*	As-is		66.0	5,900.00	900.00	6,800.00		9.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	17.79	209.89	32.02	241.91	1,149.06

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 79 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,216.20 *ton*	As-is		58.7	5,500.00	900.00	4,900.00		3.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	28.05	308.58	50.50	274.92	787.85

11

Field name: 11

11/04/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 117 Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/21/2023	2,149.80 *ton*	As-is		73.9	5,700.00	900.00	7,700.00		5.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	18.37	209.47	33.07	282.97	479.57

11

05/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 117 Plant date: 05/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/06/2023	3,088.60 *ton*	As-is		64.0	5,100.00	1,000.00	4,700.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	26.40	269.26	52.80	248.14	1,292.46

12

Field name: 12

10/13/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 119 Plant date: 10/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	1,591.70 *ton*	As-is		62.9	6,300.00	1,100.00	7,900.00		8.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	13.38	168.53	29.43	211.33	813.83

05/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 119 Plant date: 05/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/07/2023	3,190.30 *ton*	As-is		64.0	5,100.00	1,000.00	4,700.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	26.81	273.45	53.62	252.01	1,312.58

15

Field name: 15

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 119 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,322.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	11.11	302.17	26.66	162.19	1,052.97

16

Field name: 16

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 117 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,406.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	12.02	326.86	28.84	175.45	1,139.02

17

Field name: 17

17

11/28/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 120 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/21/2023	635.70 *ton*	As-is		61.6	6,800.00	900.00	6,300.00		8.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	5.30	72.05	9.54	66.75	325.48

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 120 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	1,948.00 *ton*	As-is		67.9	4,200.00	700.00	2,700.00		5.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	16.23	136.36	22.73	87.66	541.93

2A

Field name: 2A

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 42 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	467.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	11.12	302.44	26.69	162.34	1,053.90

2B

Field name: 2B

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 39 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	327.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	8.38	228.06	20.12	122.42	794.72

2C

Field name: 2C

11/26/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 39 Plant date: 11/26/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	188.60 *ton*	As-is		55.9	7,200.00	1,000.00	7,200.00		8.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	4.84	69.64	9.67	69.64	345.49

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 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 (%)
09/25/2023	713.50 *ton*	As-is		62.9	4,600.00	900.00	3,000.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	18.29	168.31	32.93	109.77	841.64

2D

Field name: 2D

10/27/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 43 Plant date: 10/27/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/11/2023	787.50 *ton*	As-is		62.4	5,100.00	1,000.00	6,000.00		10.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	18.31	186.80	36.63	219.77	1,377.21

06/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 43 Plant date: 06/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	949.10 *ton*	As-is		63.0	4,100.00	1,000.00	3,200.00		6.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	22.07	180.99	44.14	141.26	1,061.67

2E

Field name: 2E

10/31/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 39 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	801.50 *ton*	As-is		66.9	4,300.00	700.00	5,300.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	20.55	176.74	28.77	217.84	1,346.89

2E

06/06/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 06/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	800.80 *ton*	As-is		61.3	3,800.00	900.00	2,800.00		5.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	20.53	156.05	36.96	114.99	810.53

2F

Field name: 2F

10/15/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 39 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	639.80 *ton*	As-is		69.0	5,300.00	900.00	6,900.00		8.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	16.41	173.89	29.53	226.39	854.38

05/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 05/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	937.80 *ton*	As-is		67.1	3,700.00	700.00	4,600.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	24.05	177.94	33.66	221.22	1,202.50

3--1

Field name: 3--1

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 71 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	631.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	8.89	241.74	21.33	129.75	842.37

3A

Field name: 3A

10/28/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 85 Plant date: 10/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	1,566.90 *ton*	As-is		71.6	5,900.00	1,000.00	6,800.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	18.43	217.52	36.87	250.70	1,141.29

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 85 Plant date: 06/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	2,190.00 *ton*	As-is		59.8	5,200.00	1,100.00	4,200.00		5.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	25.76	267.95	56.68	216.42	1,222.17

3B

Field name: 3B

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 38 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	353.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	9.29	252.67	22.29	135.63	880.48

3C

Field name: 3C

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 38 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	501.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	13.18	358.61	31.64	192.49	1,249.64

3E

Field name: 3E

3E

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 38 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	392.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	10.32	280.59	24.76	150.61	977.76

3F

Field name: 3F

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 38 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	548.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	14.42	392.25	34.61	210.55	1,366.87

4--2E

Field name: 4--2E

4--2E

10/29/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 18 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	257.30 *ton*	As-is		66.0	5,900.00	900.00	9,800.00		9.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	14.29	168.67	25.73	280.17	923.42

4--3E

Field name: 4--3E

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 35 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	375.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	10.71	291.43	25.71	156.43	1,015.53

4--3W

Field name: 4--3W

4--3W

10/29/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 51 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	764.90 *ton*	As-is		63.8	6,400.00	1,200.00	7,600.00		9.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	15.00	191.97	36.00	227.97	1,042.42

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 51 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	903.90 *ton*	As-is		54.9	5,300.00	1,200.00	5,100.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	17.72	187.87	42.54	180.78	719.40

4--4E

Field name: 4--4E

10/29/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 34 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	694.20 *ton*	As-is		68.9	6,800.00	1,200.00	7,200.00		10.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	20.42	277.68	49.00	294.01	1,308.08

4--4E

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 34 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,095.40 *ton*	As-is		61.7	4,700.00	1,000.00	4,400.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	32.22	302.85	64.44	283.52	1,505.40

4--4W

Field name: 4--4W

10/29/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 42 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	942.40 *ton*	As-is		70.1	5,100.00	900.00	6,100.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	22.44	228.87	40.39	273.74	1,395.47

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 42 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 (%)
09/26/2023	1,278.90 *ton*	As-is		66.9	4,400.00	800.00	4,000.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	30.45	267.96	48.72	243.60	1,169.16

5--1

Field name: 5--1

11/23/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 76 Plant date: 11/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/27/2023	620.60 *ton*	As-is		70.7	5,400.00	900.00	7,800.00		7.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	8.17	88.19	14.70	127.39	373.24

05/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	1,817.00 *ton*	As-is		64.0	5,100.00	1,000.00	4,700.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	23.91	243.86	47.82	224.73	1,170.53

5--2E

Field name: 5--2E

11/26/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 39 Plant date: 11/26/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/13/2023	238.20 *ton*	As-is		57.5	8,400.00	1,100.00	7,400.00		7.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	6.11	102.61	13.44	90.39	378.98

5--2E

06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	1,018.50 *ton*	As-is		65.0	4,800.00	1,000.00	500.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	26.12	250.71	52.23	26.12	1,096.85

5--2W

Field name: 5--2W

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 83 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	978.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	11.78	320.50	28.28	172.03	1,116.84

5--3E

Field name: 5--3E

5--3E

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 78 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,056.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	13.54	368.25	32.49	197.66	1,283.22

5--4W

Field name: 5--4W

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 41 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	495.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	12.07	328.39	28.98	176.27	1,144.33

5A

Field name: 5A

5A

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 51 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	542.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	10.63	289.07	25.51	155.16	1,007.30

8--1

Field name: 8--1

10/20/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 79 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	1,200.50 *ton*	As-is		61.1	6,500.00	1,000.00	7,300.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	15.20	197.55	30.39	221.86	733.00

05/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 79 Plant date: 05/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,680.10 *ton*	As-is		62.0	5,100.00	1,100.00	5,300.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	21.27	216.92	46.79	225.43	969.78

8--2

Field name: 8--2

11/05/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 80 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,583.90 *ton*	As-is		71.8	5,900.00	1,000.00	6,600.00		10.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	19.80	233.63	39.60	261.34	1,194.81

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/09/2023	1,943.00 *ton*	As-is		59.1	4,700.00	1,100.00	5,400.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	24.29	228.30	53.43	262.31	1,231.76

8--3

Field name: 8--3

10/14/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 83 Plant date: 10/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	1,524.40 *ton*	As-is		68.9	6,200.00	800.00	5,700.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	18.37	227.74	29.39	209.38	776.82

8--3

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 83 Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/11/2023	1,729.70 *ton*	As-is		64.7	4,900.00	800.00	4,000.00		4.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	20.84	204.23	33.34	166.72	691.50

8--4

Field name: 8--4

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 75 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	714.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	9.52	258.94	22.85	138.99	902.33

9--1

Field name: 9--1

9--1

10/24/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 69 Plant date: 10/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	1,254.10 *ton*	As-is		64.6	5,400.00	900.00	6,600.00		6.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	18.18	196.29	32.72	239.91	836.43

07/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 69 Plant date: 07/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/20/2023	1,253.80 *ton*	As-is		64.0	5,100.00	1,000.00	4,700.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	18.17	185.34	36.34	170.81	889.65

9--2

Field name: 9--2

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 49 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	465.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	9.49	258.12	22.78	138.55	899.47

9--3

Field name: 9--3

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 68 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	914.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	13.44	365.60	32.26	196.24	1,274.00

R4-1

Field name: R4-1

11/23/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 35 Plant date: 11/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	383.10 *ton*	As-is		72.2	6,200.00	1,000.00	7,300.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	10.95	135.73	21.89	159.81	669.44

05/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 35 Plant date: 05/30/2023

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	816.80 *ton*	As-is		70.5	4,000.00	1,100.00	4,800.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	23.34	186.70	51.34	224.04	853.67

R4-2

Field name: R4-2

11/24/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 39 Plant date: 11/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/13/2023	698.50 *ton*	As-is		61.8	9,300.00	1,300.00	9,900.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	17.91	333.13	46.57	354.62	1,382.03

05/31/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 05/31/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	885.30 *ton*	As-is		63.6	5,500.00	1,100.00	5,200.00		6.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	22.70	249.70	49.94	236.08	1,041.11

R4-3

Field name: R4-3

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 39 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	337.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	8.64	235.04	20.74	126.16	819.02

R4-4

Field name: R4-4

10/19/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 39 Plant date: 10/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/27/2023	526.70 *ton*	As-is		66.3	5,500.00	900.00	7,200.00		9.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	13.51	148.56	24.31	194.47	864.73

06/06/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 06/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	962.80 *ton*	As-is		63.7	5,500.00	1,200.00	4,400.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	24.69	271.56	59.25	217.25	1,093.30

R4-5

Field name: R4-5

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 57 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	804.00 *ton*	As-is		68.3	13,600.00	1,200.00	7,300.00		14.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	99.20	400.00	0.00
Total actual harvest content	14.11	383.66	33.85	205.94	1,336.94

R4-6

Field name: R4-6

10/24/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 39 Plant date: 10/24/2022

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	543.90 *ton*	As-is		61.5	7,300.00	1,100.00	7,700.00		7.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	83.60	198.00	0.00
Total actual harvest content	13.95	203.61	30.68	214.77	751.70

05/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 05/29/2023

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	917.10 *ton*	As-is		66.9	4,800.00	1,000.00	5,300.00		6.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	105.00	240.00	0.00
Total actual harvest content	23.52	225.75	47.03	249.26	1,074.14

NUTRIENT BUDGET

A. LAND APPLICATIONS

10--1E - 01/01/2023: Alfalfa, hay

Field name: 10--1E

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/22/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.79	3,657,677.00 *gal*
Application event totals		0.00	0.00	0.00	57.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 10-4	Ground water	0.00	0.00	0.00	57.79	3,657,677.00 *gal*
Application event totals		0.00	0.00	0.00	57.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 10-4	Ground water	0.00	0.00	0.00	57.79	3,657,677.00 *gal*
Application event totals		0.00	0.00	0.00	57.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/14/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.79	3,657,677.00 *gal*
Application event totals		0.00	0.00	0.00	57.79	

10--1E - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/11/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.79	3,657,677.00 *gal*
Application event totals		0.00	0.00	0.00	57.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/09/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.79	3,657,677.00 *gal*
Application event totals		0.00	0.00	0.00	57.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/06/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.79	3,657,677.00 *gal*
Application event totals		0.00	0.00	0.00	57.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/04/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.79	3,657,677.00 *gal*
Application event totals		0.00	0.00	0.00	57.79	

10--1W - 01/01/2023: Alfalfa, hay

Field name: 10--1W

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

10--1W - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/22/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.94	7,470,134.00 *gal*
Application event totals		0.00	0.00	0.00	82.94	

06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 1	Ground water	0.00	0.00	0.00	82.94	7,470,134.00 *gal*
Application event totals		0.00	0.00	0.00	82.94	

07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 1	Ground water	0.00	0.00	0.00	82.94	7,470,134.00 *gal*
Application event totals		0.00	0.00	0.00	82.94	

08/14/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.94	7,470,134.00 *gal*
Application event totals		0.00	0.00	0.00	82.94	

09/11/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.94	7,470,134.00 *gal*
Application event totals		0.00	0.00	0.00	82.94	

10/09/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.94	7,470,134.00 *gal*
Application event totals		0.00	0.00	0.00	82.94	

10--1W - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/06/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.94	7,470,134.00 *gal*
Application event totals		0.00	0.00	0.00	82.94	

12/04/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.94	7,470,134.00 *gal*
Application event totals		0.00	0.00	0.00	82.94	

10--2E - 01/01/2023: Alfalfa, hay

Field name: 10--2E

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 10-4	Ground water	0.00	0.00	0.00	58.62	2,720,856.00 *gal*
Application event totals		0.00	0.00	0.00	58.62	

06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 10-4	Ground water	0.00	0.00	0.00	58.62	2,720,856.00 *gal*
Application event totals		0.00	0.00	0.00	58.62	

10--2E - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 10-4	Ground water	0.00	0.00	0.00	58.62	2,720,856.00 *gal*
Application event totals		0.00	0.00	0.00	58.62	

08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 10-4	Ground water	0.00	0.00	0.00	58.62	2,720,856.00 *gal*
Application event totals		0.00	0.00	0.00	58.62	

09/12/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	58.62	2,720,856.00 *gal*
Application event totals		0.00	0.00	0.00	58.62	

10/10/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	58.62	2,720,856.00 *gal*
Application event totals		0.00	0.00	0.00	58.62	

11/07/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	58.62	2,720,856.00 *gal*
Application event totals		0.00	0.00	0.00	58.62	

12/05/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	58.62	2,720,856.00 *gal*
Application event totals		0.00	0.00	0.00	58.62	

10--2W - 01/01/2023: Alfalfa, hay

10--2W - 01/01/2023: Alfalfa, hay

Field name: 10--2W

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

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
IW 1	Ground water	0.00	0.00	0.00	83.33	5,466,151.00 *gal*
Application event totals		0.00	0.00	0.00	83.33	

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
IW 1	Ground water	0.00	0.00	0.00	83.33	5,466,151.00 *gal*
Application event totals		0.00	0.00	0.00	83.33	

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
IW 1	Ground water	0.00	0.00	0.00	83.33	5,466,151.00 *gal*
Application event totals		0.00	0.00	0.00	83.33	

08/20/2023	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
IW 1	Ground water	0.00	0.00	0.00	83.33	5,466,151.00 *gal*
Application event totals		0.00	0.00	0.00	83.33	

09/17/2023	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
IW 1	Ground water	0.00	0.00	0.00	83.33	5,466,151.00 *gal*
Application event totals		0.00	0.00	0.00	83.33	

10--2W - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2023	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
IW 1	Ground water	0.00	0.00	0.00	83.33	5,466,151.00 *gal*
Application event totals		0.00	0.00	0.00	83.33	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/12/2023	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
IW 1	Ground water	0.00	0.00	0.00	83.33	5,466,151.00 *gal*
Application event totals		0.00	0.00	0.00	83.33	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/10/2023	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
IW 1	Ground water	0.00	0.00	0.00	83.33	5,466,151.00 *gal*
Application event totals		0.00	0.00	0.00	83.33	

10--3E - 11/05/2022: Triticale, soft dough

Field name: 10--3E

Crop: Triticale, soft dough

Plant date: 11/05/2022

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
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		0.00	0.00	0.00	57.92	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.46	34.90	160.89	543.85	461,622.00 *gal*
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		77.46	34.90	160.89	601.76	

10--3E - 11/05/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/03/2023	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	Process wastewater	77.46	34.90	160.89	543.85	461,622.00 *gal*
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		77.46	34.90	160.89	601.76	

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
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		0.00	0.00	0.00	57.92	

10--3E - 06/19/2023: Corn, silage

Field name: 10--3E

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		88.00	0.00	0.00	57.92	

10--3E - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		0.00	0.00	0.00	57.92	

08/06/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		0.00	0.00	0.00	57.92	

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
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		0.00	0.00	0.00	57.92	

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
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		0.00	0.00	0.00	57.92	

09/05/2023	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
Lagoon	Process wastewater	71.73	14.50	157.49	822.57	461,622.00 *gal*
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		71.73	14.50	157.49	880.49	

09/15/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		0.00	0.00	0.00	57.92	

10--3E - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 10-4	Ground water	0.00	0.00	0.00	57.92	1,384,867.00 *gal*
Application event totals		0.00	0.00	0.00	57.92	

10--3W - 01/01/2023: Alfalfa, hay

Field name: 10--3W

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	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
IW 1	Ground water	0.00	0.00	0.00	82.72	6,883,602.00 *gal*
Application event totals		0.00	0.00	0.00	82.72	

06/26/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.72	6,883,602.00 *gal*
Application event totals		0.00	0.00	0.00	82.72	

07/24/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.72	6,883,602.00 *gal*
Application event totals		0.00	0.00	0.00	82.72	

10--3W - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 1	Ground water	0.00	0.00	0.00	82.72	6,883,602.00 *gal*
Application event totals		0.00	0.00	0.00	82.72	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 1	Ground water	0.00	0.00	0.00	82.72	6,883,602.00 *gal*
Application event totals		0.00	0.00	0.00	82.72	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/16/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.72	6,883,602.00 *gal*
Application event totals		0.00	0.00	0.00	82.72	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/13/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.72	6,883,602.00 *gal*
Application event totals		0.00	0.00	0.00	82.72	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/11/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.72	6,883,602.00 *gal*
Application event totals		0.00	0.00	0.00	82.72	

10--4 - 10/26/2022: Triticale, soft dough

Field name: 10--4

Crop: Triticale, soft dough

Plant date: 10/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

10--4 - 10/26/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/02/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		0.00	0.00	0.00	82.92	

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
Lagoon	Process wastewater	77.20	34.78	160.34	541.99	2,137,854.00 *gal*
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		77.20	34.78	160.34	624.91	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		0.00	0.00	0.00	82.92	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.75	22.58	168.69	858.15	2,137,854.00 *gal*
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		75.75	22.58	168.69	941.07	

10--4 - 06/14/2023: Corn, silage

Field name: 10--4

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

10--4 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/14/2023	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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/12/2023	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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		88.00	0.00	0.00	82.92	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		0.00	0.00	0.00	82.92	

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
Lagoon	Process wastewater	71.49	14.45	156.95	819.75	2,137,854.00 *gal*
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		71.49	14.45	156.95	902.68	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/11/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		0.00	0.00	0.00	82.92	

10--4 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.49	14.45	156.95	819.75	2,137,854.00 *gal*
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		71.49	14.45	156.95	902.68	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/31/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		0.00	0.00	0.00	82.92	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/10/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		0.00	0.00	0.00	82.92	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/20/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		0.00	0.00	0.00	82.92	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/30/2023	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
IW 1	Ground water	0.00	0.00	0.00	82.92	6,413,562.00 *gal*
Application event totals		0.00	0.00	0.00	82.92	

11 - 11/04/2022: Triticale, soft dough

Field name: 11

Crop: Triticale, soft dough

Plant date: 11/04/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

11 - 11/04/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/11/2022	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
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		0.00	0.00	0.00	190.91	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/10/2023	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	Process wastewater	77.47	34.90	160.90	543.89	3,177,319.00 *gal*
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		77.47	34.90	160.90	734.80	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/02/2023	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	Process wastewater	77.47	34.90	160.90	543.89	3,177,319.00 *gal*
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		77.47	34.90	160.90	734.80	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/31/2023	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
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		0.00	0.00	0.00	190.91	

11 - 05/18/2023: Corn, silage

Field name: 11

Crop: Corn, silage

Plant date: 05/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

11 - 05/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

06/15/2023	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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		88.00	0.00	0.00	190.91	

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
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		0.00	0.00	0.00	190.91	

07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		0.00	0.00	0.00	190.91	

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
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		0.00	0.00	0.00	190.91	

07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	64.56	13.05	141.75	740.37	2,859,587.00 *gal*
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		64.56	13.05	141.75	931.28	

11 - 05/18/2023: Corn, silage

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
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		0.00	0.00	0.00	190.91	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/14/2023	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
Lagoon	Process wastewater	64.56	13.05	141.75	740.37	2,859,587.00 *gal*
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		64.56	13.05	141.75	931.28	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 11	Ground water	0.00	0.00	0.00	190.91	9,531,956.00 *gal*
Application event totals		0.00	0.00	0.00	190.91	

12 - 10/13/2022: Triticale, soft dough

Field name: 12

Crop: Triticale, soft dough

Plant date: 10/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		0.14	0.00	0.00	482.58	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/19/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		0.14	0.00	0.00	482.58	

12 - 10/13/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.45	34.89	160.86	543.75	3,230,813.00 *gal*
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		77.59	34.89	160.86	1,026.34	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/04/2023	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	Process wastewater	76.00	22.66	169.24	860.94	3,230,813.00 *gal*
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		76.14	22.66	169.24	1,343.53	

12 - 05/22/2023: Corn, silage

Field name: 12

Crop: Corn, silage

Plant date: 05/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/22/2023	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
3/18/18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		88.14	0.00	0.00	482.58	

12 - 05/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		0.14	0.00	0.00	482.58	

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
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		0.14	0.00	0.00	482.58	

07/19/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		0.14	0.00	0.00	482.58	

07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	64.55	13.05	141.72	740.18	2,907,731.00 *gal*
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		64.68	13.05	141.72	1,222.77	

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
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		0.14	0.00	0.00	482.58	

08/18/2023	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	Process wastewater	64.55	13.05	141.72	740.18	2,907,731.00 *gal*
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		64.68	13.05	141.72	1,222.77	

12 - 05/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/28/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	482.58	9,692,438.00 *gal*
Application event totals		0.14	0.00	0.00	482.58	

15 - 01/01/2023: Alfalfa, hay

Field name: 15

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

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
IW 15	Ground water	0.00	0.00	0.00	78.58	9,726,652.00 *gal*
Application event totals		0.00	0.00	0.00	78.58	

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
IW 15	Ground water	0.00	0.00	0.00	78.58	9,726,652.00 *gal*
Application event totals		0.00	0.00	0.00	78.58	

07/14/2023	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
IW 15	Ground water	0.00	0.00	0.00	78.58	9,726,652.00 *gal*
Application event totals		0.00	0.00	0.00	78.58	

15 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/11/2023	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
IW 15	Ground water	0.00	0.00	0.00	78.58	9,726,652.00 *gal*
Application event totals		0.00	0.00	0.00	78.58	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 15	Ground water	0.00	0.00	0.00	78.58	9,726,652.00 *gal*
Application event totals		0.00	0.00	0.00	78.58	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/06/2023	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
IW 15	Ground water	0.00	0.00	0.00	78.58	9,726,652.00 *gal*
Application event totals		0.00	0.00	0.00	78.58	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/03/2023	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
IW 15	Ground water	0.00	0.00	0.00	78.58	9,726,652.00 *gal*
Application event totals		0.00	0.00	0.00	78.58	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/01/2023	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
IW 15	Ground water	0.00	0.00	0.00	78.58	9,726,652.00 *gal*
Application event totals		0.00	0.00	0.00	78.58	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/29/2023	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
IW 15	Ground water	0.00	0.00	0.00	78.58	9,726,652.00 *gal*
Application event totals		0.00	0.00	0.00	78.58	

16 - 01/01/2023: Alfalfa, hay

16 - 01/01/2023: Alfalfa, hay

Field name: 16

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

05/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 16	Ground water	0.00	0.00	0.00	568.41	9,555,581.00 *gal*
Application event totals		0.00	0.00	0.00	568.41	

06/17/2023	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
IW 16	Ground water	0.00	0.00	0.00	568.41	9,555,581.00 *gal*
Application event totals		0.00	0.00	0.00	568.41	

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
IW 16	Ground water	0.00	0.00	0.00	568.41	9,555,581.00 *gal*
Application event totals		0.00	0.00	0.00	568.41	

08/12/2023	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
IW 16	Ground water	0.00	0.00	0.00	568.41	9,555,581.00 *gal*
Application event totals		0.00	0.00	0.00	568.41	

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
IW 16	Ground water	0.00	0.00	0.00	568.41	9,555,581.00 *gal*
Application event totals		0.00	0.00	0.00	568.41	

16 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/07/2023	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
IW 16	Ground water	0.00	0.00	0.00	568.41	9,555,581.00 *gal*
Application event totals		0.00	0.00	0.00	568.41	

11/04/2023	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
IW 16	Ground water	0.00	0.00	0.00	568.41	9,555,581.00 *gal*
Application event totals		0.00	0.00	0.00	568.41	

12/02/2023	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
IW 16	Ground water	0.00	0.00	0.00	568.41	9,555,581.00 *gal*
Application event totals		0.00	0.00	0.00	568.41	

12/30/2023	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
IW 16	Ground water	0.00	0.00	0.00	568.41	9,555,581.00 *gal*
Application event totals		0.00	0.00	0.00	568.41	

17 - 11/28/2022: Triticale, soft dough

Field name: 17

Crop: Triticale, soft dough

Plant date: 11/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/05/2022	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
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		0.00	0.00	0.00	567.81	

17 - 11/28/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/03/2023	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	Process wastewater	77.58	34.95	161.13	544.66	3,263,398.00 *gal*
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		77.58	34.95	161.13	1,112.47	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/26/2023	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
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		0.00	0.00	0.00	567.81	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/31/2023	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
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		0.00	0.00	0.00	567.81	

17 - 06/02/2023: Corn, silage

Field name: 17

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/02/2023	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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

17 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/30/2023	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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		88.00	0.00	0.00	567.81	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		0.00	0.00	0.00	567.81	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		0.00	0.00	0.00	567.81	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/30/2023	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	Process wastewater	43.10	8.71	94.63	494.28	1,958,039.00 *gal*
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		43.10	8.71	94.63	1,062.09	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/09/2023	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
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		0.00	0.00	0.00	567.81	

17 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	43.10	8.71	94.63	494.28	1,958,039.00 *gal*
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		43.10	8.71	94.63	1,062.09	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		0.00	0.00	0.00	567.81	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 16	Ground water	0.00	0.00	0.00	567.81	9,790,193.00 *gal*
Application event totals		0.00	0.00	0.00	567.81	

2A - 01/01/2023: Alfalfa, hay

Field name: 2A

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 20	Ground water	0.00	0.00	0.00	29.51	3,454,021.00 *gal*
Application event totals		0.00	0.00	0.00	29.51	

2A - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 20	Ground water	0.00	0.00	0.00	29.51	3,454,021.00 *gal*
Application event totals		0.00	0.00	0.00	29.51	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 20	Ground water	0.00	0.00	0.00	29.51	3,454,021.00 *gal*
Application event totals		0.00	0.00	0.00	29.51	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 20	Ground water	0.00	0.00	0.00	29.51	3,454,021.00 *gal*
Application event totals		0.00	0.00	0.00	29.51	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/04/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.51	3,454,021.00 *gal*
Application event totals		0.00	0.00	0.00	29.51	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/02/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.51	3,454,021.00 *gal*
Application event totals		0.00	0.00	0.00	29.51	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/30/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.51	3,454,021.00 *gal*
Application event totals		0.00	0.00	0.00	29.51	

2A - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/27/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.51	3,454,021.00 *gal*
Application event totals		0.00	0.00	0.00	29.51	

12/25/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.51	3,454,021.00 *gal*
Application event totals		0.00	0.00	0.00	29.51	

2B - 01/01/2023: Alfalfa, hay

Field name: 2B

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,185,194.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

06/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 20	Ground water	0.00	0.00	0.00	29.31	3,185,194.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

2B - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 20	Ground water	0.00	0.00	0.00	29.31	3,185,194.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

08/17/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,185,194.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

09/14/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,185,194.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

10/12/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,185,194.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

11/09/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,185,194.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

12/07/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,185,194.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

2C - 11/26/2022: Triticale, soft dough

2C - 11/26/2022: Triticale, soft dough

Field name: 2C

Crop: Triticale, soft dough — Plant date: 11/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/03/2022	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
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		0.00	0.00	0.00	159.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/01/2023	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	Process wastewater	78.20	35.23	162.41	549.00	1,069,063.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		78.20	35.23	162.41	708.35	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		0.00	0.00	0.00	159.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/12/2023	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
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		0.00	0.00	0.00	159.35	

2C - 06/05/2023: Corn, silage

Field name: 2C

Crop: Corn, silage — Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

2C - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		88.00	0.00	0.00	159.35	

07/13/2023	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
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		0.00	0.00	0.00	159.35	

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
Lagoon	Process wastewater	65.17	13.18	143.08	747.33	962,157.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		65.17	13.18	143.08	906.68	

08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	65.17	13.18	143.08	747.33	962,157.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		65.17	13.18	143.08	906.68	

2C - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/12/2023	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
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		0.00	0.00	0.00	159.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		0.00	0.00	0.00	159.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		0.00	0.00	0.00	159.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/11/2023	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
IW 19	Ground water	0.00	0.00	0.00	159.35	3,207,188.00 *gal*
Application event totals		0.00	0.00	0.00	159.35	

2D - 10/27/2022: Triticale, soft dough

Field name: 2D

Crop: Triticale, soft dough

Plant date: 10/27/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/03/2022	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
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		0.00	0.00	0.00	29.30	

2D - 10/27/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/02/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		0.00	0.00	0.00	29.30	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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	Process wastewater	77.64	34.98	161.26	545.11	1,170,348.00 *gal*
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		77.64	34.98	161.26	574.41	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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	Process wastewater	76.19	22.71	169.67	863.09	1,170,348.00 *gal*
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		76.19	22.71	169.67	892.39	

2D - 06/03/2023: Corn, silage

Field name: 2D

Crop: Corn, silage

Plant date: 06/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

2D - 06/03/2023: Corn, silage

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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		88.00	0.00	0.00	29.30	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/11/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		0.00	0.00	0.00	29.30	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/21/2023	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	Process wastewater	71.90	14.54	157.85	824.48	1,170,348.00 *gal*
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		71.90	14.54	157.85	853.78	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Lagoon	Process wastewater	71.90	14.54	157.85	824.48	1,170,348.00 *gal*
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		71.90	14.54	157.85	853.78	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/10/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		0.00	0.00	0.00	29.30	

2D - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/20/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		0.00	0.00	0.00	29.30	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/30/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		0.00	0.00	0.00	29.30	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 20	Ground water	0.00	0.00	0.00	29.30	3,511,045.00 *gal*
Application event totals		0.00	0.00	0.00	29.30	

2E - 10/31/2022: Triticale, soft dough

Field name: 2E

Crop: Triticale, soft dough

Plant date: 10/31/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/07/2022	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
Lagoon	Process wastewater	59.01	13.07	150.29	795.39	1,053,042.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		59.01	13.07	150.29	952.35	

2E - 10/31/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/06/2023	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
Lagoon	Process wastewater	77.03	34.70	159.98	540.78	1,053,042.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		77.03	34.70	159.98	697.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/29/2023	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
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		0.00	0.00	0.00	156.96	

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
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		0.00	0.00	0.00	156.96	

2E - 06/06/2023: Corn, silage

Field name: 2E

Crop: Corn, silage

Plant date: 06/06/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/06/2023	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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

2E - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/04/2023	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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		88.00	0.00	0.00	156.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/14/2023	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
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		0.00	0.00	0.00	156.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/24/2023	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	Process wastewater	57.06	11.54	125.28	654.34	842,433.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		57.06	11.54	125.28	811.30	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/03/2023	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
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		0.00	0.00	0.00	156.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	57.06	11.54	125.28	654.34	842,433.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		57.06	11.54	125.28	811.30	

2E - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		0.00	0.00	0.00	156.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/02/2023	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
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		0.00	0.00	0.00	156.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/12/2023	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
IW 19	Ground water	0.00	0.00	0.00	156.96	3,159,125.00 *gal*
Application event totals		0.00	0.00	0.00	156.96	

2F - 10/15/2022: Triticale, soft dough

Field name: 2F

Crop: Triticale, soft dough

Plant date: 10/15/2022

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
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		0.00	0.00	0.00	157.45	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/21/2022	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	Process wastewater	59.19	13.11	150.76	797.85	1,056,300.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		59.19	13.11	150.76	955.30	

2F - 10/15/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Lagoon	Process wastewater	77.27	34.81	160.47	542.45	1,056,300.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		77.27	34.81	160.47	699.90	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		0.00	0.00	0.00	157.45	

2F - 05/24/2023: Corn, silage

Field name: 2F

Crop: Corn, silage

Plant date: 05/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		88.00	0.00	0.00	157.45	

2F - 05/24/2023: Corn, silage

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
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		0.00	0.00	0.00	157.45	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.55	14.47	157.08	820.46	1,056,300.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		71.55	14.47	157.08	977.90	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/21/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		0.00	0.00	0.00	157.45	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Lagoon	Process wastewater	71.55	14.47	157.08	820.46	1,056,300.00 *gal*
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		71.55	14.47	157.08	977.90	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/10/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		0.00	0.00	0.00	157.45	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/20/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		0.00	0.00	0.00	157.45	

2F - 05/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/30/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.45	3,168,901.00 *gal*
Application event totals		0.00	0.00	0.00	157.45	

3--1 - 01/01/2023: Alfalfa, hay

Field name: 3--1

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

05/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5	Ground water	0.00	0.00	0.00	101.42	5,775,709.00 *gal*
Application event totals		0.00	0.00	0.00	101.42	

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
IW 5	Ground water	0.00	0.00	0.00	101.42	5,775,709.00 *gal*
Application event totals		0.00	0.00	0.00	101.42	

07/16/2023	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
IW 5	Ground water	0.00	0.00	0.00	101.42	5,775,709.00 *gal*
Application event totals		0.00	0.00	0.00	101.42	

3--1 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5	Ground water	0.00	0.00	0.00	101.42	5,775,709.00 *gal*
Application event totals		0.00	0.00	0.00	101.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/10/2023	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
IW 5	Ground water	0.00	0.00	0.00	101.42	5,775,709.00 *gal*
Application event totals		0.00	0.00	0.00	101.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/08/2023	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
IW 5	Ground water	0.00	0.00	0.00	101.42	5,775,709.00 *gal*
Application event totals		0.00	0.00	0.00	101.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2023	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
IW 5	Ground water	0.00	0.00	0.00	101.42	5,775,709.00 *gal*
Application event totals		0.00	0.00	0.00	101.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/03/2023	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
IW 5	Ground water	0.00	0.00	0.00	101.42	5,775,709.00 *gal*
Application event totals		0.00	0.00	0.00	101.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/31/2023	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
IW 5	Ground water	0.00	0.00	0.00	101.42	5,775,709.00 *gal*
Application event totals		0.00	0.00	0.00	101.42	

3A - 10/28/2022: Triticale, soft dough

3A - 10/28/2022: Triticale, soft dough

Field name: 3A

Crop: Triticale, soft dough

Plant date: 10/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		0.00	0.00	0.00	29.13	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/03/2023	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	Process wastewater	59.14	13.10	150.61	797.08	2,299,965.00 *gal*
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		59.14	13.10	150.61	826.21	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/26/2023	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	Process wastewater	77.19	34.77	160.32	541.93	2,299,965.00 *gal*
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		77.19	34.77	160.32	571.05	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		0.00	0.00	0.00	29.13	

3A - 06/09/2023: Corn, silage

Field name: 3A

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

3A - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 20	Ground water	0.00	0.00	0.00	20.89	6,899,895.00 *gal*
Application event totals		88.00	0.00	0.00	20.89	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		0.00	0.00	0.00	29.13	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Lagoon	Process wastewater	71.48	14.45	156.93	819.66	2,299,965.00 *gal*
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		71.48	14.45	156.93	848.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/06/2023	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
Lagoon	Process wastewater	71.48	14.45	156.93	819.66	2,299,965.00 *gal*
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		71.48	14.45	156.93	848.79	

3A - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		0.00	0.00	0.00	29.13	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Lagoon	Process wastewater	71.48	14.45	156.93	819.66	2,299,965.00 *gal*
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		71.48	14.45	156.93	848.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/05/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		0.00	0.00	0.00	29.13	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/15/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		0.00	0.00	0.00	29.13	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 20	Ground water	0.00	0.00	0.00	29.13	6,899,895.00 *gal*
Application event totals		0.00	0.00	0.00	29.13	

3B - 01/01/2023: Alfalfa, hay

Field name: 3B

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

3B - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	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
IW 19	Ground water	0.00	0.00	0.00	155.77	3,054,853.00 *gal*
Application event totals		0.00	0.00	0.00	155.77	

06/26/2023	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
IW 19	Ground water	0.00	0.00	0.00	155.77	3,054,853.00 *gal*
Application event totals		0.00	0.00	0.00	155.77	

07/24/2023	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
IW 19	Ground water	0.00	0.00	0.00	155.77	3,054,853.00 *gal*
Application event totals		0.00	0.00	0.00	155.77	

08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 19	Ground water	0.00	0.00	0.00	155.77	3,054,853.00 *gal*
Application event totals		0.00	0.00	0.00	155.77	

09/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 19	Ground water	0.00	0.00	0.00	155.77	3,054,853.00 *gal*
Application event totals		0.00	0.00	0.00	155.77	

3B - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/16/2023	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
IW 19	Ground water	0.00	0.00	0.00	155.77	3,054,853.00 *gal*
Application event totals		0.00	0.00	0.00	155.77	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/13/2023	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
IW 19	Ground water	0.00	0.00	0.00	155.77	3,054,853.00 *gal*
Application event totals		0.00	0.00	0.00	155.77	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/11/2023	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
IW 19	Ground water	0.00	0.00	0.00	155.77	3,054,853.00 *gal*
Application event totals		0.00	0.00	0.00	155.77	

3C - 01/01/2023: Alfalfa, hay

Field name: 3C

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

3C - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/16/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/14/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/11/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

3C - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/19/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

3E - 01/01/2023: Alfalfa, hay

Field name: 3E

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 20	Ground water	0.00	0.00	0.00	29.31	3,103,731.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,103,731.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

07/21/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,103,731.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

3E - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/18/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,103,731.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/15/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,103,731.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/13/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,103,731.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/10/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,103,731.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/08/2023	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
IW 20	Ground water	0.00	0.00	0.00	29.31	3,103,731.00 *gal*
Application event totals		0.00	0.00	0.00	29.31	

3F - 01/01/2023: Alfalfa, hay

Field name: 3F

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

3F - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

08/20/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

09/17/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

3F - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/12/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/10/2023	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
IW 19	Ground water	0.00	0.00	0.00	157.44	3,087,438.00 *gal*
Application event totals		0.00	0.00	0.00	157.44	

4--2E - 10/29/2022: Triticale, soft dough

Field name: 4--2E

Crop: Triticale, soft dough

Plant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2022	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,607.24	1,433,744.00 *gal*
Application event totals		0.00	0.00	0.00	1,607.24	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/04/2023	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	Process wastewater	75.74	34.12	157.31	531.76	477,915.00 *gal*
IW 5-2E	Ground water	0.00	0.00	0.00	1,607.24	1,433,744.00 *gal*
Application event totals		75.74	34.12	157.31	2,139.00	

4--2E - 10/29/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/27/2023	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
Lagoon	Process wastewater	75.74	34.12	157.31	531.76	477,915.00 *gal*
IW 5-2E	Ground water	0.00	0.00	0.00	1,607.24	1,433,744.00 *gal*
Application event totals		75.74	34.12	157.31	2,139.00	

4--3E - 01/01/2023: Alfalfa, hay

Field name: 4--3E

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 16	Ground water	0.00	0.00	0.00	681.33	2,834,904.00 *gal*
Application event totals		0.00	0.00	0.00	681.33	

07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 16	Ground water	0.00	0.00	0.00	681.33	2,834,904.00 *gal*
Application event totals		0.00	0.00	0.00	681.33	

08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 16	Ground water	0.00	0.00	0.00	681.33	2,834,904.00 *gal*
Application event totals		0.00	0.00	0.00	681.33	

4--3E - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/12/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	681.33	2,834,904.00 *gal*
Application event totals		0.00	0.00	0.00	681.33	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/10/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	681.33	2,834,904.00 *gal*
Application event totals		0.00	0.00	0.00	681.33	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/07/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	681.33	2,834,904.00 *gal*
Application event totals		0.00	0.00	0.00	681.33	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/05/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	681.33	2,834,904.00 *gal*
Application event totals		0.00	0.00	0.00	681.33	

4--3W - 10/29/2022: Triticale, soft dough

Field name: 4--3W

Crop: Triticale, soft dough

Plant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2022	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
Lagoon	Process wastewater	59.86	13.26	152.45	806.81	1,396,815.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		59.86	13.26	152.45	1,497.96	

4--3W - 10/29/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/04/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		0.00	0.00	0.00	691.16	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/27/2023	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
Lagoon	Process wastewater	78.13	35.20	162.28	548.54	1,396,815.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		78.13	35.20	162.28	1,239.69	

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
Lagoon	Process wastewater	76.67	22.86	170.73	868.52	1,396,815.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		76.67	22.86	170.73	1,559.67	

4--3W - 06/20/2023: Corn, silage

Field name: 4--3W

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

4--3W - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		88.00	0.00	0.00	691.16	

07/28/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		0.00	0.00	0.00	691.16	

08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.35	14.63	158.85	829.66	1,396,815.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		72.35	14.63	158.85	1,520.82	

08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.35	14.63	158.85	829.66	1,396,815.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		72.35	14.63	158.85	1,520.82	

08/27/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		0.00	0.00	0.00	691.16	

4--3W - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		0.00	0.00	0.00	691.16	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/16/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		0.00	0.00	0.00	691.16	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		0.00	0.00	0.00	691.16	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/06/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	691.16	4,190,444.00 *gal*
Application event totals		0.00	0.00	0.00	691.16	

4--4E - 10/29/2022: Triticale, soft dough

Field name: 4--4E

Crop: Triticale, soft dough Plant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2022	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
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		0.00	0.00	0.00	694.11	

4--4E - 10/29/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/04/2023	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	Process wastewater	78.47	35.35	162.97	550.88	935,192.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		78.47	35.35	162.97	1,245.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/27/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		0.00	0.00	0.00	694.11	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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	Process wastewater	77.00	22.95	171.46	872.23	935,192.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		77.00	22.95	171.46	1,566.34	

4--4E - 06/08/2023: Corn, silage

Field name: 4--4E

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

4--4E - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		88.00	0.00	0.00	694.11	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/16/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		0.00	0.00	0.00	694.11	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		0.00	0.00	0.00	694.11	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.66	14.69	159.53	833.21	935,192.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		72.66	14.69	159.53	1,527.32	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.66	14.69	159.53	833.21	935,192.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		72.66	14.69	159.53	1,527.32	

4--4E - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/25/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		0.00	0.00	0.00	694.11	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/04/2023	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	Process wastewater	72.66	14.69	159.53	833.21	935,192.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		72.66	14.69	159.53	1,527.32	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/14/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		0.00	0.00	0.00	694.11	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/24/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	694.11	2,805,577.00 *gal*
Application event totals		0.00	0.00	0.00	694.11	

4--4W - 10/29/2022: Triticale, soft dough

Field name: 4--4W

Crop: Triticale, soft dough

Plant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2022	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
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		0.00	0.00	0.00	688.67	

4--4W - 10/29/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/04/2023	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	Process wastewater	77.85	35.07	161.69	546.56	1,146,181.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		77.85	35.07	161.69	1,235.24	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/27/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		0.00	0.00	0.00	688.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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	Process wastewater	76.39	22.77	170.12	865.39	1,146,181.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		76.39	22.77	170.12	1,554.07	

4--4W - 06/07/2023: Corn, silage

Field name: 4--4W

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

4--4W - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		88.00	0.00	0.00	688.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		0.00	0.00	0.00	688.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		0.00	0.00	0.00	688.67	

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
Lagoon	Process wastewater	72.09	14.58	158.28	826.68	1,146,181.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		72.09	14.58	158.28	1,515.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/14/2023	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
Lagoon	Process wastewater	72.09	14.58	158.28	826.68	1,146,181.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		72.09	14.58	158.28	1,515.35	

4--4W - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		0.00	0.00	0.00	688.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/03/2023	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	Process wastewater	72.09	14.58	158.28	826.68	1,146,181.00 *gal*
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		72.09	14.58	158.28	1,515.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/13/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	688.67	3,438,543.00 *gal*
Application event totals		0.00	0.00	0.00	688.67	

5--1 - 11/23/2022: Triticale, soft dough

Field name: 5--1

Crop: Triticale, soft dough

Plant date: 11/23/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		0.00	0.00	0.00	101.96	

5--1 - 11/23/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.77	35.03	161.52	545.99	2,071,869.00 *gal*
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		77.77	35.03	161.52	647.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/21/2023	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
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		0.00	0.00	0.00	101.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		0.00	0.00	0.00	101.96	

5--1 - 05/20/2023: Corn, silage

Field name: 5--1

Crop: Corn, silage

Plant date: 05/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

5--1 - 05/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/17/2023	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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		88.00	0.00	0.00	101.96	

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
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		0.00	0.00	0.00	101.96	

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	Process wastewater	57.61	11.65	126.49	660.65	1,657,495.00 *gal*
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		57.61	11.65	126.49	762.61	

07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	57.61	11.65	126.49	660.65	1,657,495.00 *gal*
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		57.61	11.65	126.49	762.61	

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
Lagoon	Process wastewater	57.61	11.65	126.49	660.65	1,657,495.00 *gal*
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		57.61	11.65	126.49	762.61	

5--1 - 05/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/06/2023	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
Lagoon	Process wastewater	57.61	11.65	126.49	660.65	1,657,495.00 *gal*
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		57.61	11.65	126.49	762.61	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		0.00	0.00	0.00	101.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 5	Ground water	0.00	0.00	0.00	101.96	6,215,608.00 *gal*
Application event totals		0.00	0.00	0.00	101.96	

5--2E - 11/26/2022: Triticale, soft dough

Field name: 5--2E

Crop: Triticale, soft dough

Plant date: 11/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/03/2022	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	Process wastewater	58.75	13.01	149.63	791.91	1,048,426.00 *gal*
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		58.75	13.01	149.63	2,419.24	

5--2E - 11/26/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/01/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		0.00	0.00	0.00	1,627.33	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		0.00	0.00	0.00	1,627.33	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/22/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		0.00	0.00	0.00	1,627.33	

5--2E - 06/16/2023: Corn, silage

Field name: 5--2E

Crop: Corn, silage

Plant date: 06/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		88.00	0.00	0.00	1,627.33	

5--2E - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/24/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		0.00	0.00	0.00	1,627.33	

08/03/2023	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	Process wastewater	71.01	14.36	155.91	814.34	1,048,426.00 *gal*
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		71.01	14.36	155.91	2,441.68	

08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.01	14.36	155.91	814.34	1,048,426.00 *gal*
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		71.01	14.36	155.91	2,441.68	

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
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		0.00	0.00	0.00	1,627.33	

09/02/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		0.00	0.00	0.00	1,627.33	

09/12/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		0.00	0.00	0.00	1,627.33	

5--2E - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/22/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,627.33	3,145,277.00 *gal*
Application event totals		0.00	0.00	0.00	1,627.33	

5--2W - 01/01/2023: Alfalfa, hay

Field name: 5--2W

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

05/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5-2E	Ground water	0.00	0.00	0.00	813.96	3,348,119.00 *gal*
Application event totals		0.00	0.00	0.00	813.96	

06/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5-2E	Ground water	0.00	0.00	0.00	813.96	3,348,119.00 *gal*
Application event totals		0.00	0.00	0.00	813.96	

07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5-2E	Ground water	0.00	0.00	0.00	813.96	3,348,119.00 *gal*
Application event totals		0.00	0.00	0.00	813.96	

5--2W - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/03/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	813.96	3,348,119.00 *gal*
Application event totals		0.00	0.00	0.00	813.96	

08/31/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	813.96	3,348,119.00 *gal*
Application event totals		0.00	0.00	0.00	813.96	

09/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5-2E	Ground water	0.00	0.00	0.00	813.96	3,348,119.00 *gal*
Application event totals		0.00	0.00	0.00	813.96	

10/26/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	813.96	3,348,119.00 *gal*
Application event totals		0.00	0.00	0.00	813.96	

11/23/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	813.96	3,348,119.00 *gal*
Application event totals		0.00	0.00	0.00	813.96	

12/21/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	813.96	3,348,119.00 *gal*
Application event totals		0.00	0.00	0.00	813.96	

5--3E - 01/01/2023: Alfalfa, hay

5--3E - 01/01/2023: Alfalfa, hay

Field name: 5--3E

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

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
IW 5-2E	Ground water	0.00	0.00	0.00	1,639.56	6,337,802.00 *gal*
Application event totals		0.00	0.00	0.00	1,639.56	

06/15/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,639.56	6,337,802.00 *gal*
Application event totals		0.00	0.00	0.00	1,639.56	

07/13/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,639.56	6,337,802.00 *gal*
Application event totals		0.00	0.00	0.00	1,639.56	

08/10/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,639.56	6,337,802.00 *gal*
Application event totals		0.00	0.00	0.00	1,639.56	

09/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5-2E	Ground water	0.00	0.00	0.00	1,639.56	6,337,802.00 *gal*
Application event totals		0.00	0.00	0.00	1,639.56	

5--3E - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 5-2E	Ground water	0.00	0.00	0.00	1,639.56	6,337,802.00 *gal*
Application event totals		0.00	0.00	0.00	1,639.56	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/02/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,639.56	6,337,802.00 *gal*
Application event totals		0.00	0.00	0.00	1,639.56	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/30/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,639.56	6,337,802.00 *gal*
Application event totals		0.00	0.00	0.00	1,639.56	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/28/2023	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
IW 5-2E	Ground water	0.00	0.00	0.00	1,639.56	6,337,802.00 *gal*
Application event totals		0.00	0.00	0.00	1,639.56	

5--4W - 01/01/2023: Alfalfa, hay

Field name: 5--4W

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

5--4W - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 5-4W	Ground water	0.00	0.00	0.00	811.85	3,307,388.00 *gal*
Application event totals		0.00	0.00	0.00	811.85	

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
IW 5-4W	Ground water	0.00	0.00	0.00	811.85	3,307,388.00 *gal*
Application event totals		0.00	0.00	0.00	811.85	

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
IW 5-4W	Ground water	0.00	0.00	0.00	811.85	3,307,388.00 *gal*
Application event totals		0.00	0.00	0.00	811.85	

08/20/2023	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
IW 5-4W	Ground water	0.00	0.00	0.00	811.85	3,307,388.00 *gal*
Application event totals		0.00	0.00	0.00	811.85	

09/17/2023	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
IW 5-4W	Ground water	0.00	0.00	0.00	811.85	3,307,388.00 *gal*
Application event totals		0.00	0.00	0.00	811.85	

10/15/2023	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
IW 5-4W	Ground water	0.00	0.00	0.00	811.85	3,307,388.00 *gal*
Application event totals		0.00	0.00	0.00	811.85	

5--4W - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/12/2023	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
IW 5-4W	Ground water	0.00	0.00	0.00	811.85	3,307,388.00 *gal*
Application event totals		0.00	0.00	0.00	811.85	

12/10/2023	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
IW 5-4W	Ground water	0.00	0.00	0.00	811.85	3,307,388.00 *gal*
Application event totals		0.00	0.00	0.00	811.85	

5A - 01/01/2023: Alfalfa, hay

Field name: 5A

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	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
IW 3	Ground water	0.41	0.00	0.00	45.59	4,146,454.00 *gal*
Application event totals		0.41	0.00	0.00	45.59	

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
IW 3	Ground water	0.41	0.00	0.00	45.59	4,146,454.00 *gal*
Application event totals		0.41	0.00	0.00	45.59	

5A - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 3	Ground water	0.41	0.00	0.00	45.59	4,146,454.00 *gal*
Application event totals		0.41	0.00	0.00	45.59	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 3	Ground water	0.41	0.00	0.00	45.59	4,146,454.00 *gal*
Application event totals		0.41	0.00	0.00	45.59	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/16/2023	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
IW 3	Ground water	0.41	0.00	0.00	45.59	4,146,454.00 *gal*
Application event totals		0.41	0.00	0.00	45.59	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/14/2023	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
IW 3	Ground water	0.41	0.00	0.00	45.59	4,146,454.00 *gal*
Application event totals		0.41	0.00	0.00	45.59	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/11/2023	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
IW 3	Ground water	0.41	0.00	0.00	45.59	4,146,454.00 *gal*
Application event totals		0.41	0.00	0.00	45.59	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/09/2023	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
IW 3	Ground water	0.41	0.00	0.00	45.59	4,146,454.00 *gal*
Application event totals		0.41	0.00	0.00	45.59	

8--1 - 10/20/2022: Triticale, soft dough

8--1 - 10/20/2022: Triticale, soft dough

Field name: 8--1

Crop: Triticale, soft dough

Plant date: 10/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/27/2022	Subsurface (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	Process wastewater	59.12	13.09	150.57	796.87	2,137,039.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		59.12	13.09	150.57	2,121.52	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/26/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		0.00	0.00	0.00	1,324.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/18/2023	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	Process wastewater	77.17	34.76	160.28	541.78	2,137,039.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		77.17	34.76	160.28	1,866.43	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/04/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		0.00	0.00	0.00	1,324.65	

8--1 - 05/26/2023: Corn, silage

Field name: 8--1

Crop: Corn, silage

Plant date: 05/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

8--1 - 05/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		88.00	0.00	0.00	1,324.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		0.00	0.00	0.00	1,324.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/13/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		0.00	0.00	0.00	1,324.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Lagoon	Process wastewater	71.46	14.45	156.89	819.44	2,137,039.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		71.46	14.45	156.89	2,144.09	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		0.00	0.00	0.00	1,324.65	

8--1 - 05/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/12/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		0.00	0.00	0.00	1,324.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		0.00	0.00	0.00	1,324.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 8-4	Ground water	0.00	0.00	0.00	1,324.65	6,411,118.00 *gal*
Application event totals		0.00	0.00	0.00	1,324.65	

8--2 - 11/05/2022: Triticale, soft dough

Field name: 8--2

Crop: Triticale, soft dough

Plant date: 11/05/2022

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
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		0.00	0.00	0.00	1,326.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.27	34.81	160.49	542.49	2,166,909.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		77.27	34.81	160.49	1,868.86	

8--2 - 11/05/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/03/2023	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	Process wastewater	77.27	34.81	160.49	542.49	2,166,909.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		77.27	34.81	160.49	1,868.86	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/24/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		0.00	0.00	0.00	1,326.38	

8--2 - 06/12/2023: Corn, silage

Field name: 8--2

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		88.00	0.00	0.00	1,326.38	

8--2 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		0.00	0.00	0.00	1,326.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/30/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		0.00	0.00	0.00	1,326.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/09/2023	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	Process wastewater	71.55	14.47	157.09	820.51	2,166,909.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		71.55	14.47	157.09	2,146.89	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		0.00	0.00	0.00	1,326.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.55	14.47	157.09	820.51	2,166,909.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		71.55	14.47	157.09	2,146.89	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		0.00	0.00	0.00	1,326.38	

8--2 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		0.00	0.00	0.00	1,326.38	

09/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 8-4	Ground water	0.00	0.00	0.00	1,326.38	6,500,727.00 *gal*
Application event totals		0.00	0.00	0.00	1,326.38	

8--3 - 10/14/2022: Triticale, soft dough

Field name: 8--3

Crop: Triticale, soft dough

Plant date: 10/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/21/2022	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
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		0.00	0.00	0.00	1,328.58	

12/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		0.00	0.00	0.00	1,328.58	

01/12/2023	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
Lagoon	Process wastewater	77.40	34.87	160.75	543.39	2,251,902.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		77.40	34.87	160.75	1,871.97	

8--3 - 10/14/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Lagoon	Process wastewater	75.95	22.64	169.13	860.36	2,251,902.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		75.95	22.64	169.13	2,188.94	

8--3 - 06/21/2023: Corn, silage

Field name: 8--3

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/19/2023	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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		88.00	0.00	0.00	1,328.58	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/29/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		0.00	0.00	0.00	1,328.58	

8--3 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		0.00	0.00	0.00	1,328.58	

08/18/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		0.00	0.00	0.00	1,328.58	

08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.67	14.49	157.36	821.87	2,251,902.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		71.67	14.49	157.36	2,150.45	

09/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.67	14.49	157.36	821.87	2,251,902.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		71.67	14.49	157.36	2,150.45	

09/17/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		0.00	0.00	0.00	1,328.58	

09/27/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,328.58	6,755,706.00 *gal*
Application event totals		0.00	0.00	0.00	1,328.58	

8--4 - 01/01/2023: Alfalfa, hay

Field name: 8--4

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	104.00	0.00	0.00	
Application event totals		22.00	104.00	0.00	0.00	

05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 16	Ground water	0.00	0.00	0.00	687.07	6,125,999.00 *gal*
Application event totals		0.00	0.00	0.00	687.07	

06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 16	Ground water	0.00	0.00	0.00	687.07	6,125,999.00 *gal*
Application event totals		0.00	0.00	0.00	687.07	

07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 16	Ground water	0.00	0.00	0.00	687.07	6,125,999.00 *gal*
Application event totals		0.00	0.00	0.00	687.07	

08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 16	Ground water	0.00	0.00	0.00	687.07	6,125,999.00 *gal*
Application event totals		0.00	0.00	0.00	687.07	

09/12/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	687.07	6,125,999.00 *gal*
Application event totals		0.00	0.00	0.00	687.07	

8--4 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/10/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	687.07	6,125,999.00 *gal*
Application event totals		0.00	0.00	0.00	687.07	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/07/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	687.07	6,125,999.00 *gal*
Application event totals		0.00	0.00	0.00	687.07	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/05/2023	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
IW SF 16	Ground water	0.00	0.00	0.00	687.07	6,125,999.00 *gal*
Application event totals		0.00	0.00	0.00	687.07	

9--1 - 10/24/2022: Triticale, soft dough

Field name: 9--1

Crop: Triticale, soft dough

Plant date: 10/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/31/2022	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
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		0.00	0.00	0.00	1,325.46	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/30/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	59.16	13.10	150.66	797.36	1,867,669.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		59.16	13.10	150.66	2,122.82	

9--1 - 10/24/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/22/2023	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
Lagoon	Process wastewater	77.22	34.79	160.37	542.11	1,867,669.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		77.22	34.79	160.37	1,867.57	

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
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		0.00	0.00	0.00	1,325.46	

9--1 - 07/04/2023: Corn, silage

Field name: 9--1

Crop: Corn, silage

Plant date: 07/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/04/2023	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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		88.00	0.00	0.00	1,325.46	

9--1 - 07/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/11/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		0.00	0.00	0.00	1,325.46	

08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.50	14.46	156.99	819.94	1,867,669.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		71.50	14.46	156.99	2,145.41	

08/31/2023	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
Lagoon	Process wastewater	71.50	14.46	156.99	819.94	1,867,669.00 *gal*
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		71.50	14.46	156.99	2,145.41	

09/10/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		0.00	0.00	0.00	1,325.46	

09/20/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		0.00	0.00	0.00	1,325.46	

09/30/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		0.00	0.00	0.00	1,325.46	

9--1 - 07/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/10/2023	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
IW 8-4	Ground water	0.00	0.00	0.00	1,325.46	5,603,008.00 *gal*
Application event totals		0.00	0.00	0.00	1,325.46	

9--2 - 01/01/2023: Alfalfa, hay

Field name: 9--2

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	105.00	0.00	0.00	
Application event totals		22.00	105.00	0.00	0.00	

05/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 10-4	Ground water	0.00	0.00	0.00	57.33	3,950,943.00 *gal*
Application event totals		0.00	0.00	0.00	57.33	

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
IW 10-4	Ground water	0.00	0.00	0.00	57.33	3,950,943.00 *gal*
Application event totals		0.00	0.00	0.00	57.33	

07/16/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.33	3,950,943.00 *gal*
Application event totals		0.00	0.00	0.00	57.33	

9--2 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 10-4	Ground water	0.00	0.00	0.00	57.33	3,950,943.00 *gal*
Application event totals		0.00	0.00	0.00	57.33	

09/10/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.33	3,950,943.00 *gal*
Application event totals		0.00	0.00	0.00	57.33	

10/08/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.33	3,950,943.00 *gal*
Application event totals		0.00	0.00	0.00	57.33	

11/05/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.33	3,950,943.00 *gal*
Application event totals		0.00	0.00	0.00	57.33	

12/03/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.33	3,950,943.00 *gal*
Application event totals		0.00	0.00	0.00	57.33	

12/31/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	57.33	3,950,943.00 *gal*
Application event totals		0.00	0.00	0.00	57.33	

9--3 - 01/01/2023: Alfalfa, hay

9--3 - 01/01/2023: Alfalfa, hay

Field name: 9--3

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	105.00	0.00	0.00	
Application event totals		22.00	105.00	0.00	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
IW 10-4	Ground water	0.00	0.00	0.00	58.09	5,555,760.00 *gal*
Application event totals		0.00	0.00	0.00	58.09	

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
IW 10-4	Ground water	0.00	0.00	0.00	58.09	5,555,760.00 *gal*
Application event totals		0.00	0.00	0.00	58.09	

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
IW 10-4	Ground water	0.00	0.00	0.00	58.09	5,555,760.00 *gal*
Application event totals		0.00	0.00	0.00	58.09	

08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 10-4	Ground water	0.00	0.00	0.00	58.09	5,555,760.00 *gal*
Application event totals		0.00	0.00	0.00	58.09	

09/16/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	58.09	5,555,760.00 *gal*
Application event totals		0.00	0.00	0.00	58.09	

9--3 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/14/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	58.09	5,555,760.00 *gal*
Application event totals		0.00	0.00	0.00	58.09	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/11/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	58.09	5,555,760.00 *gal*
Application event totals		0.00	0.00	0.00	58.09	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/09/2023	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
IW 10-4	Ground water	0.00	0.00	0.00	58.09	5,555,760.00 *gal*
Application event totals		0.00	0.00	0.00	58.09	

R4-1 - 11/23/2022: Triticale, soft dough

Field name: R4-1

Crop: Triticale, soft dough

Plant date: 11/23/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		0.00	0.00	0.00	723.44	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.04	34.71	160.01	540.89	945,239.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		77.04	34.71	160.01	1,264.34	

R4-1 - 11/23/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/21/2023	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
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		0.00	0.00	0.00	723.44	

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
Lagoon	Process wastewater	75.60	22.54	168.35	856.41	945,239.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		75.60	22.54	168.35	1,579.86	

R4-1 - 05/30/2023: Corn, silage

Field name: R4-1

Crop: Corn, silage

Plant date: 05/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/30/2022	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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		88.00	0.00	0.00	723.44	

R4-1 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		0.00	0.00	0.00	723.44	

07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.34	14.42	156.63	818.10	945,239.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		71.34	14.42	156.63	1,541.54	

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
Lagoon	Process wastewater	71.34	14.42	156.63	818.10	945,239.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		71.34	14.42	156.63	1,541.54	

08/06/2023	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
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		0.00	0.00	0.00	723.44	

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
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		0.00	0.00	0.00	723.44	

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
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		0.00	0.00	0.00	723.44	

R4-1 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/05/2023	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
IW SF 12S	Ground water	0.00	0.00	0.00	723.44	2,835,718.00 *gal*
Application event totals		0.00	0.00	0.00	723.44	

R4-2 - 11/24/2022: Triticale, soft dough

Field name: R4-2

Crop: Triticale, soft dough

Plant date: 11/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/01/2022	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
Lagoon	Process wastewater	58.72	13.00	149.55	791.50	1,047,883.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		58.72	13.00	149.55	1,511.24	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	76.65	34.53	159.20	538.13	1,047,883.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		76.65	34.53	159.20	1,257.87	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/22/2023	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
Lagoon	Process wastewater	76.65	34.53	159.20	538.13	1,047,883.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		76.65	34.53	159.20	1,257.87	

R4-2 - 11/24/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/22/2023	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
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		0.00	0.00	0.00	719.75	

R4-2 - 05/31/2023: Corn, silage

Field name: R4-2

Crop: Corn, silage

Plant date: 05/31/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/31/2023	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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		88.00	0.00	0.00	719.75	

07/08/2023	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
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		0.00	0.00	0.00	719.75	

R4-2 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	56.78	11.48	124.67	651.13	838,306.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		56.78	11.48	124.67	1,370.88	

07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	56.78	11.48	124.67	651.13	838,306.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		56.78	11.48	124.67	1,370.88	

08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	56.78	11.48	124.67	651.13	838,306.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		56.78	11.48	124.67	1,370.88	

08/17/2023	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
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		0.00	0.00	0.00	719.75	

08/27/2023	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
Lagoon	Process wastewater	56.78	11.48	124.67	651.13	838,306.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		56.78	11.48	124.67	1,370.88	

R4-2 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12S	Ground water	0.00	0.00	0.00	719.75	3,143,648.00 *gal*
Application event totals		0.00	0.00	0.00	719.75	

R4-3 - 01/01/2023: Alfalfa, hay

Field name: R4-3

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	106.00	0.00	0.00	
Application event totals		22.00	106.00	0.00	0.00	

06/06/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	486.38	3,201,486.00 *gal*
Application event totals		0.14	0.00	0.00	486.38	

07/04/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	486.38	3,201,486.00 *gal*
Application event totals		0.14	0.00	0.00	486.38	

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
IW SF 12N	Ground water	0.14	0.00	0.00	486.38	3,201,486.00 *gal*
Application event totals		0.14	0.00	0.00	486.38	

R4-3 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12N	Ground water	0.14	0.00	0.00	486.38	3,201,486.00 *gal*
Application event totals		0.14	0.00	0.00	486.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 12N	Ground water	0.14	0.00	0.00	486.38	3,201,486.00 *gal*
Application event totals		0.14	0.00	0.00	486.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/24/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	486.38	3,201,486.00 *gal*
Application event totals		0.14	0.00	0.00	486.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/21/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	486.38	3,201,486.00 *gal*
Application event totals		0.14	0.00	0.00	486.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/19/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	486.38	3,201,486.00 *gal*
Application event totals		0.14	0.00	0.00	486.38	

R4-4 - 10/19/2022: Triticale, soft dough

Field name: R4-4

Crop: Triticale, soft dough

Plant date: 10/19/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

R4-4 - 10/19/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/26/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		0.00	0.00	0.00	730.19	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Lagoon	Process wastewater	59.58	13.19	151.73	802.98	1,063,089.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		59.58	13.19	151.73	1,533.17	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.76	35.03	161.51	545.94	1,063,089.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		77.76	35.03	161.51	1,276.13	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		0.00	0.00	0.00	730.19	

R4-4 - 06/06/2023: Corn, silage

Field name: R4-4

Crop: Corn, silage

Plant date: 06/06/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

R4-4 - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/06/2023	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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/04/2023	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
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		88.00	0.00	0.00	730.19	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/14/2023	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
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		0.00	0.00	0.00	730.19	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/24/2023	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	Process wastewater	72.01	14.56	158.09	825.73	1,063,089.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		72.01	14.56	158.09	1,555.92	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/03/2023	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	Process wastewater	72.01	14.56	158.09	825.73	1,063,089.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		72.01	14.56	158.09	1,555.92	

R4-4 - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.01	14.56	158.09	825.73	1,063,089.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		72.01	14.56	158.09	1,555.92	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		0.00	0.00	0.00	730.19	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/02/2023	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
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		0.00	0.00	0.00	730.19	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/12/2023	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
IW SF 12S	Ground water	0.00	0.00	0.00	730.19	3,189,267.00 *gal*
Application event totals		0.00	0.00	0.00	730.19	

R4-5 - 01/01/2023: Alfalfa, hay

Field name: R4-5

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11-52-0	Solid commercial fertilizer	22.00	106.00	0.00	0.00	
Application event totals		22.00	106.00	0.00	0.00	

R4-5 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW SF 12N	Ground water	0.14	0.00	0.00	479.28	4,610,792.00 *gal*
Application event totals		0.14	0.00	0.00	479.28	

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
IW SF 12N	Ground water	0.14	0.00	0.00	479.28	4,610,792.00 *gal*
Application event totals		0.14	0.00	0.00	479.28	

07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12N	Ground water	0.14	0.00	0.00	479.28	4,610,792.00 *gal*
Application event totals		0.14	0.00	0.00	479.28	

08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12N	Ground water	0.14	0.00	0.00	479.28	4,610,792.00 *gal*
Application event totals		0.14	0.00	0.00	479.28	

09/19/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	479.28	4,610,792.00 *gal*
Application event totals		0.14	0.00	0.00	479.28	

10/17/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	479.28	4,610,792.00 *gal*
Application event totals		0.14	0.00	0.00	479.28	

R4-5 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/14/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	479.28	4,610,792.00 *gal*
Application event totals		0.14	0.00	0.00	479.28	

12/12/2023	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
IW SF 12N	Ground water	0.14	0.00	0.00	479.28	4,610,792.00 *gal*
Application event totals		0.14	0.00	0.00	479.28	

R4-6 - 10/24/2022: Triticale, soft dough

Field name: R4-6

Crop: Triticale, soft dough

Plant date: 10/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/31/2022	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	Process wastewater	59.12	13.09	150.56	796.83	1,054,943.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		59.12	13.09	150.56	1,521.43	

12/30/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		0.00	0.00	0.00	724.60	

R4-6 - 10/24/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/22/2023	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
Lagoon	Process wastewater	77.17	34.76	160.27	541.75	1,054,943.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		77.17	34.76	160.27	1,266.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		0.00	0.00	0.00	724.60	

R4-6 - 05/29/2023: Corn, silage

Field name: R4-6

Crop: Corn, silage

Plant date: 05/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
3-18-18	Liquid commercial fertilizer	2.00	12.00	12.00	0.00	
Application event totals		2.00	12.00	12.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	88.00	0.00	0.00	0.00	
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		88.00	0.00	0.00	724.60	

R4-6 - 05/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		0.00	0.00	0.00	724.60	

07/16/2023	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
Lagoon	Process wastewater	71.46	14.45	156.88	819.40	1,054,943.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		71.46	14.45	156.88	1,544.00	

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
Lagoon	Process wastewater	71.46	14.45	156.88	819.40	1,054,943.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		71.46	14.45	156.88	1,544.00	

08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.46	14.45	156.88	819.40	1,054,943.00 *gal*
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		71.46	14.45	156.88	1,544.00	

08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		0.00	0.00	0.00	724.60	

R4-6 - 05/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/25/2023	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
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		0.00	0.00	0.00	724.60	

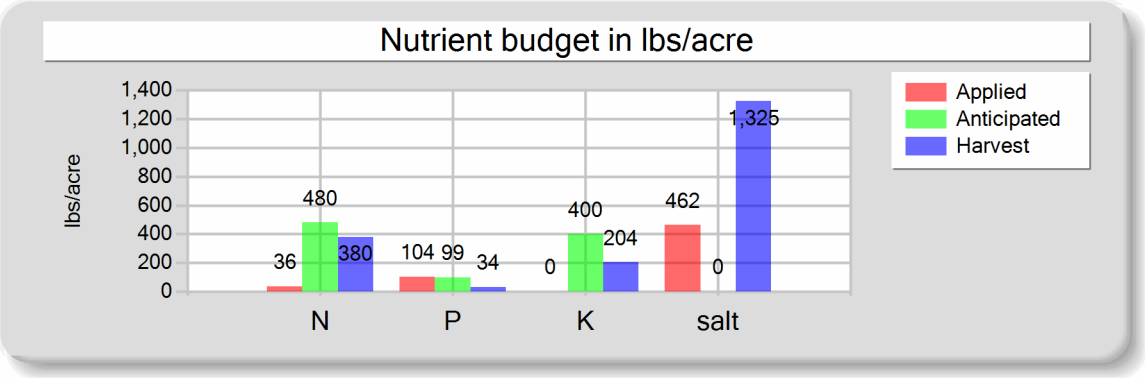
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW SF 12S	Ground water	0.00	0.00	0.00	724.60	3,164,828.00 *gal*
Application event totals		0.00	0.00	0.00	724.60	

B. NUTRIENT BUDGET

10--1E - 01/01/2023: Alfalfa, hay

Field name: 10--1E Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	462.33
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	462.33
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	380.20	33.55	204.08	1,324.86
Nutrient balance	-344.20	70.45	-204.08	-862.53
Applied to removed ratio	0.09	3.10	0.00	0.35

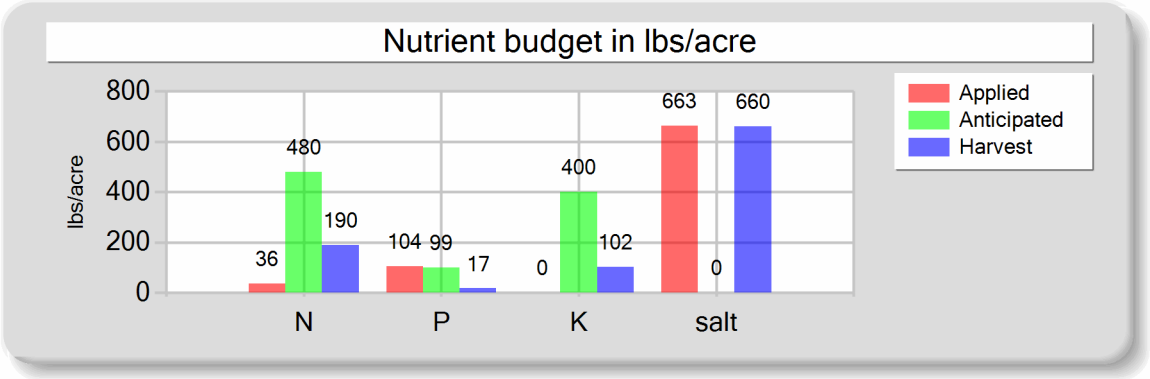
Fresh water applied	
29,261,416.00	*gallons*
1,077.60	*acre-inches*
23.95	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

10--1W - 01/01/2023: Alfalfa, hay

Field name: 10--1W Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	663.50
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	663.50
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	189.51	16.72	101.72	660.39
Nutrient balance	-153.51	87.28	-101.72	3.11
Applied to removed ratio	0.19	6.22	0.00	1.00

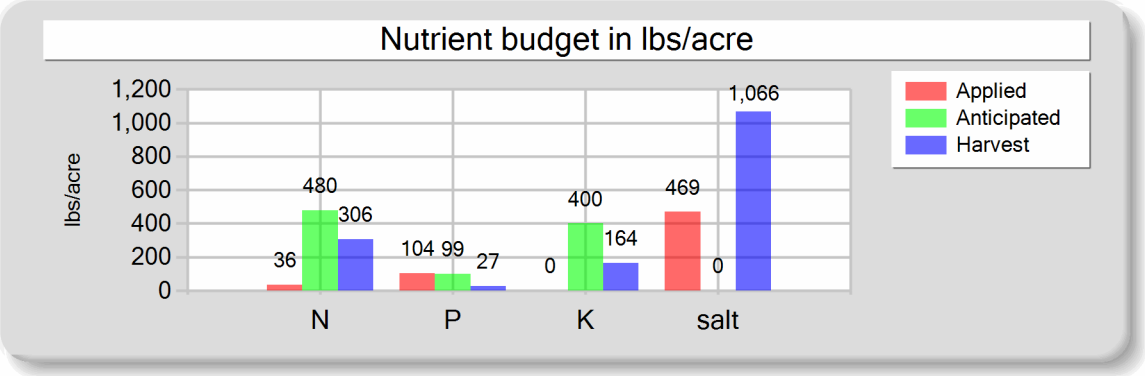
Fresh water applied	
59,761,072.00	*gallons*
2,200.80	*acre-inches*
23.92	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

10--2E - 01/01/2023: Alfalfa, hay

Field name: 10--2E Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	468.97
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	468.97
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	305.79	26.98	164.14	1,065.59
Nutrient balance	-269.79	77.02	-164.14	-596.62
Applied to removed ratio	0.12	3.85	0.00	0.44

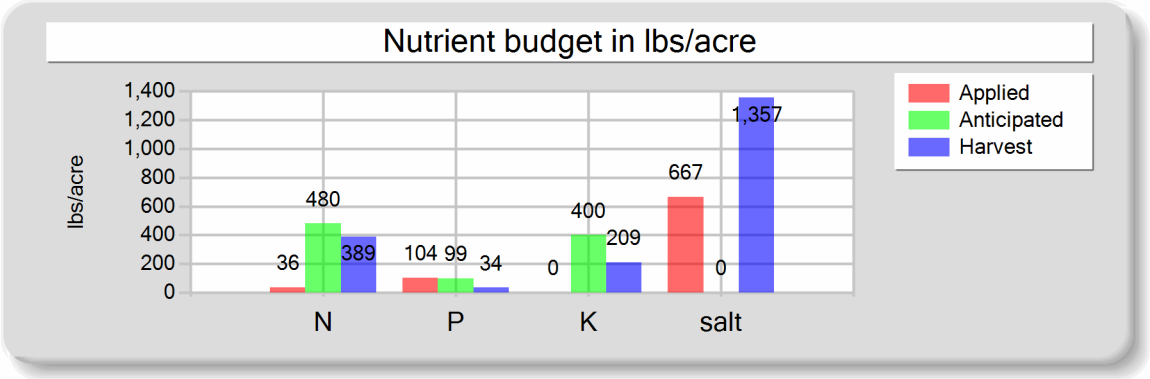
Fresh water applied	
21,766,848.00	*gallons*
801.60	*acre-inches*
24.29	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

10--2W - 01/01/2023: Alfalfa, hay

Field name: 10--2W Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	666.66
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	666.66
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	389.33	34.35	208.98	1,356.67
Nutrient balance	-353.33	69.65	-208.98	-690.01
Applied to removed ratio	0.09	3.03	0.00	0.49

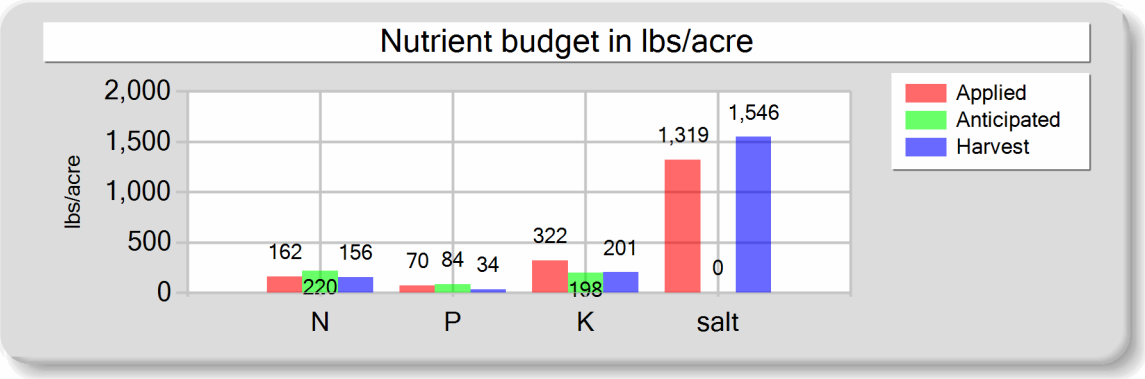
Fresh water applied	
43,729,208.00	*gallons*
1,610.40	*acre-inches*
24.04	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

10--3E - 11/05/2022: Triticale, soft dough

Field name: 10--3E Crop: Triticale, soft dough Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	154.93	69.79	321.77	1,087.69
Fresh water	0.00	0.00	0.00	231.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	161.93	69.79	321.77	1,319.37
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	155.75	34.19	201.34	1,546.05
Nutrient balance	6.18	35.60	120.44	-226.68
Applied to removed ratio	1.04	2.04	1.60	0.85

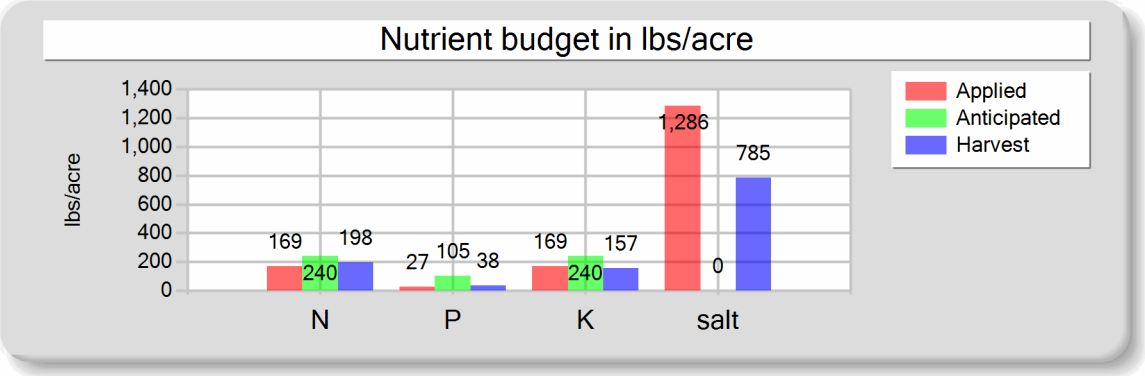
Fresh water applied	
5,539,468.00	*gallons*
204.00	*acre-inches*
12.00	*inches/acre*

Process wastewater applied	
923,244.00	*gallons*
34.00	*acre-inches*
2.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

10--3E - 06/19/2023: Corn, silage

Field name: 10--3E Crop: Corn, silage Plant date: 06/19/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	71.73	14.50	157.49	822.57
Fresh water	0.00	0.00	0.00	463.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	168.73	26.50	169.49	1,285.92
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	198.50	37.65	157.43	785.46
Nutrient balance	-29.77	-11.14	12.06	500.46
Applied to removed ratio	0.85	0.70	1.08	1.64

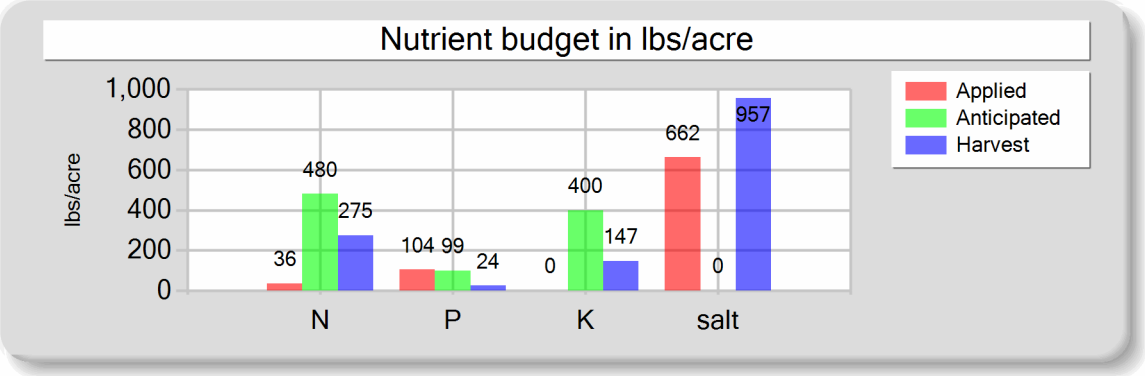
Fresh water applied	
11,078,936.00	*gallons*
408.00	*acre-inches*
24.00	*inches/acre*

Process wastewater applied	
461,622.00	*gallons*
17.00	*acre-inches*
1.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

10--3W - 01/01/2023: Alfalfa, hay

Field name: 10--3W Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	661.75
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	661.75
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	274.56	24.23	147.37	956.75
Nutrient balance	-238.56	79.77	-147.37	-295.00
Applied to removed ratio	0.13	4.29	0.00	0.69

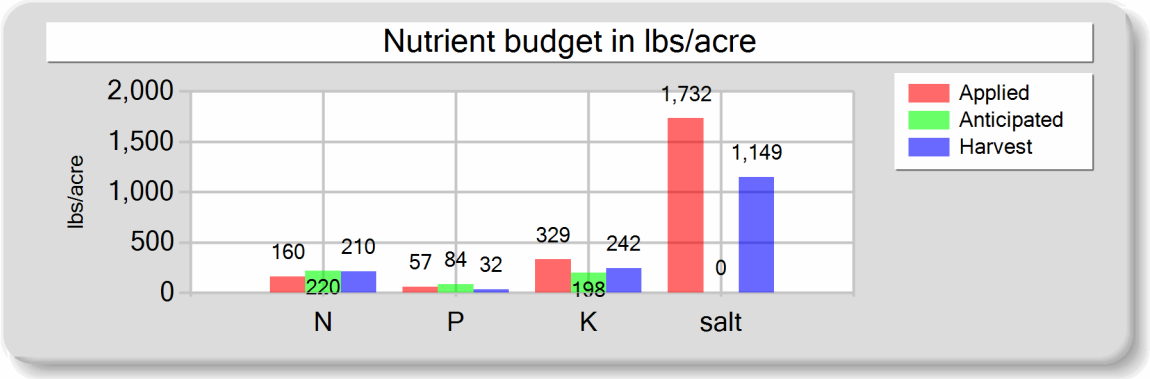
Fresh water applied	
55,068,816.00	*gallons*
2,028.00	*acre-inches*
23.86	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

10--4 - 10/26/2022: Triticale, soft dough

Field name: 10--4 Crop: Triticale, soft dough Plant date: 10/26/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	152.95	57.36	329.03	1,400.13
Fresh water	0.00	0.00	0.00	331.70
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	159.95	57.36	329.03	1,731.83
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	209.89	32.02	241.91	1,149.06
Nutrient balance	-49.94	25.34	87.12	582.77
Applied to removed ratio	0.76	1.79	1.36	1.51

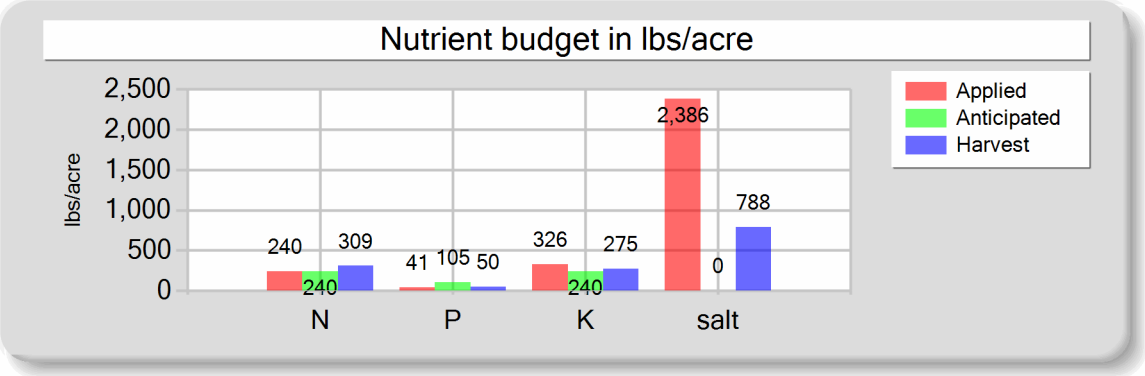
Fresh water applied	
25,654,248.00	*gallons*
944.76	*acre-inches*
11.96	*inches/acre*

Process wastewater applied	
4,275,708.00	*gallons*
157.46	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

10--4 - 06/14/2023: Corn, silage

Field name: 10--4 Crop: Corn, silage Plant date: 06/14/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	142.97	28.91	313.90	1,639.51
Fresh water	0.00	0.00	0.00	746.32
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	239.97	40.91	325.90	2,385.82
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	308.58	50.50	274.92	787.85
Nutrient balance	-68.61	-9.59	50.98	1,597.98
Applied to removed ratio	0.78	0.81	1.19	3.03

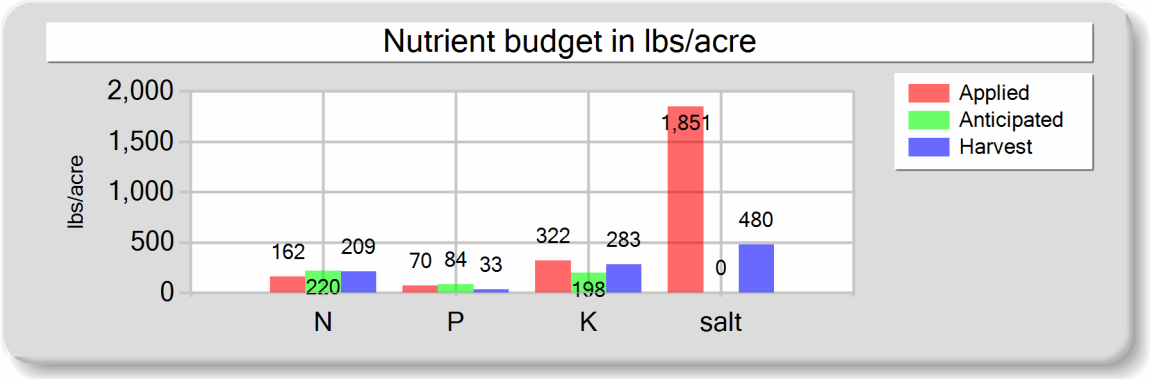
Fresh water applied	
57,722,058.00	*gallons*
2,125.71	*acre-inches*
26.91	*inches/acre*

Process wastewater applied	
4,275,708.00	*gallons*
157.46	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

11 - 11/04/2022: Triticale, soft dough

Field name: 11 Crop: Triticale, soft dough Plant date: 11/04/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	154.94	69.80	321.80	1,087.78
Fresh water	0.00	0.00	0.00	763.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	161.94	69.80	321.80	1,851.41
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	209.47	33.07	282.97	479.57
Nutrient balance	-47.53	36.73	38.84	1,371.84
Applied to removed ratio	0.77	2.11	1.14	3.86

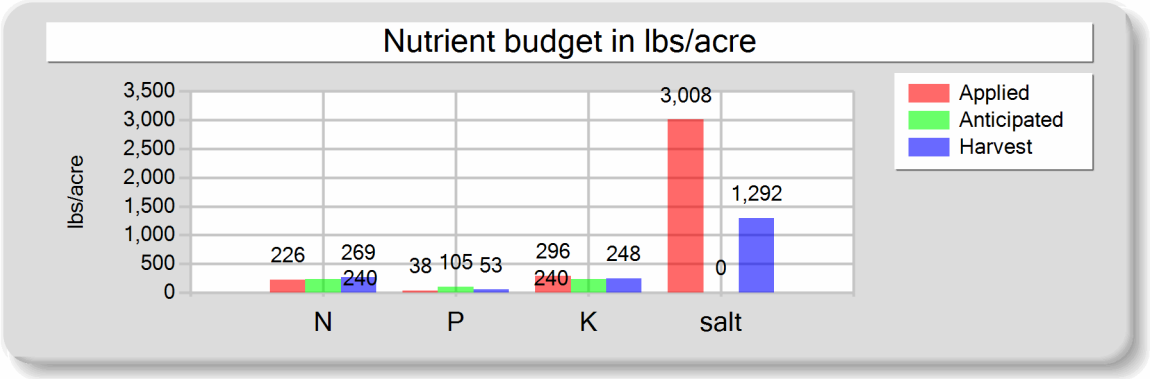
Fresh water applied	
38,127,824.00	*gallons*
1,404.12	*acre-inches*
12.00	*inches/acre*

Process wastewater applied	
6,354,638.00	*gallons*
234.02	*acre-inches*
2.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

11 - 05/18/2023: Corn, silage

Field name: 11 Crop: Corn, silage Plant date: 05/18/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	129.13	26.11	283.50	1,480.75
Fresh water	0.00	0.00	0.00	1,527.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	226.13	38.11	295.50	3,007.99
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	269.26	52.80	248.14	1,292.46
Nutrient balance	-43.14	-14.69	47.36	1,715.53
Applied to removed ratio	0.84	0.72	1.19	2.33

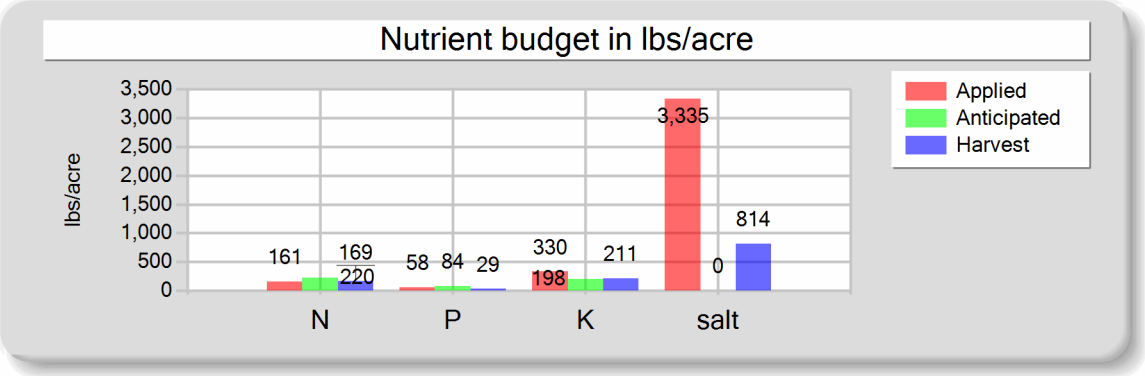
Fresh water applied	
76,255,648.00	*gallons*
2,808.24	*acre-inches*
24.00	*inches/acre*

Process wastewater applied	
5,719,174.00	*gallons*
210.62	*acre-inches*
1.80	*inches/acre*

Total harvests for the crop	
1	*harvests*

12 - 10/13/2022: Triticale, soft dough

Field name: 12 Crop: Triticale, soft dough Plant date: 10/13/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	153.45	57.55	330.10	1,404.70
Fresh water	0.54	0.00	0.00	1,930.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	161.00	57.55	330.10	3,335.02
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	168.53	29.43	211.33	813.83
Nutrient balance	-7.54	28.12	118.77	2,521.20
Applied to removed ratio	0.96	1.96	1.56	4.10

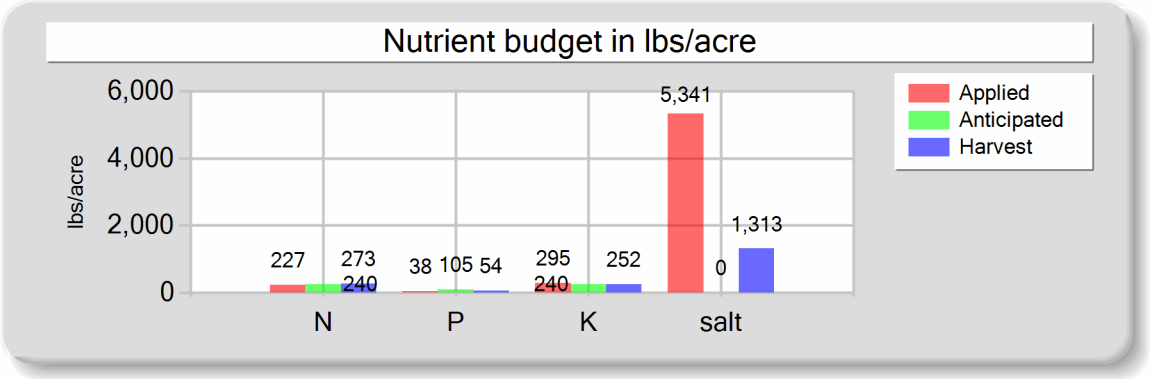
Fresh water applied	
38,769,752.00	*gallons*
1,427.76	*acre-inches*
12.00	*inches/acre*

Process wastewater applied	
6,461,626.00	*gallons*
237.96	*acre-inches*
2.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

12 - 05/22/2023: Corn, silage

Field name: 12 Crop: Corn, silage Plant date: 05/22/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	129.09	26.10	283.43	1,480.37
Fresh water	1.09	0.00	0.00	3,860.65
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	227.18	38.10	295.43	5,341.02
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	273.45	53.62	252.01	1,312.58
Nutrient balance	-46.27	-15.52	43.42	4,028.44
Applied to removed ratio	0.83	0.71	1.17	4.07

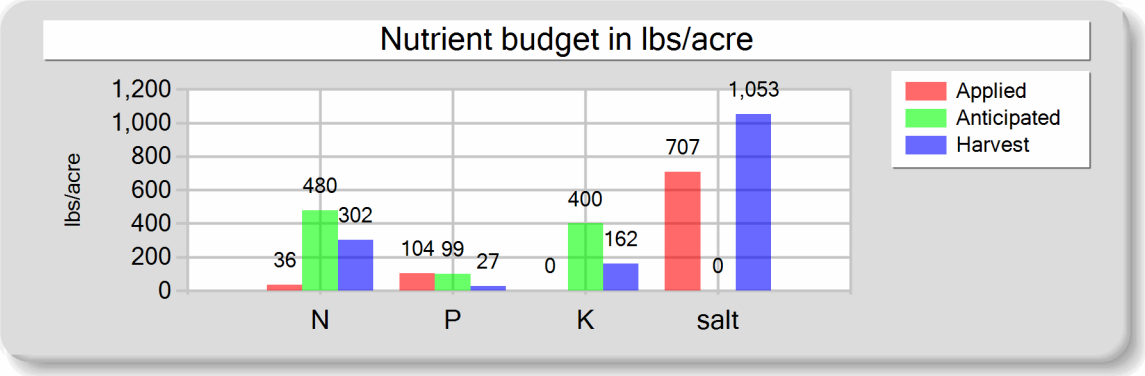
Fresh water applied	
77,539,504.00	*gallons*
2,855.52	*acre-inches*
24.00	*inches/acre*

Process wastewater applied	
5,815,462.00	*gallons*
214.16	*acre-inches*
1.80	*inches/acre*

Total harvests for the crop	
1	*harvests*

15 - 01/01/2023: Alfalfa, hay

Field name: 15 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	707.19
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	707.19
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	302.17	26.66	162.19	1,052.97
Nutrient balance	-266.17	77.34	-162.19	-345.77
Applied to removed ratio	0.12	3.90	0.00	0.67

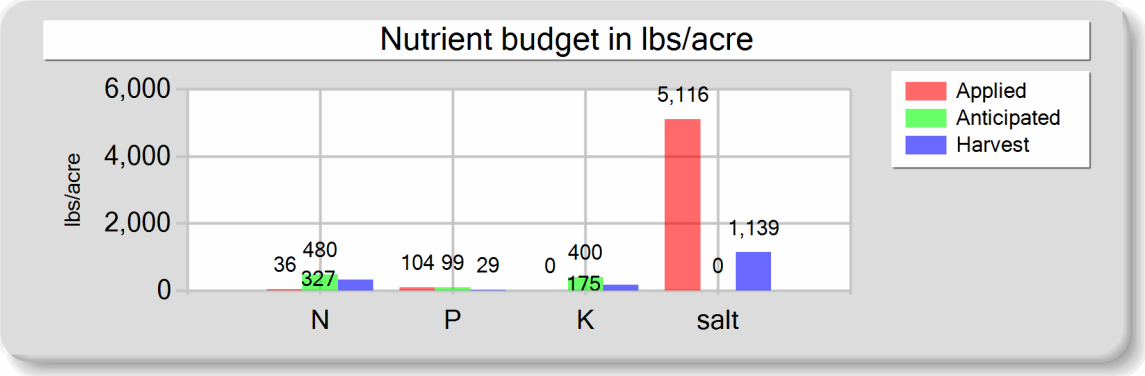
Fresh water applied	
87,539,868.00	*gallons*
3,223.80	*acre-inches*
27.09	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

16 - 01/01/2023: Alfalfa, hay

Field name: 16 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	5,115.71
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	5,115.71
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	326.86	28.84	175.45	1,139.02
Nutrient balance	-290.86	75.16	-175.45	3,976.70
Applied to removed ratio	0.11	3.61	0.00	4.49

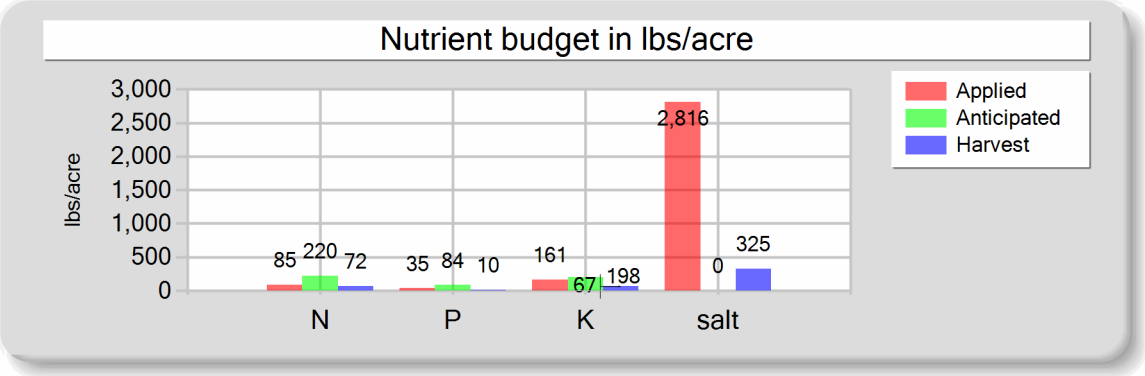
Fresh water applied	
86,000,229.00	*gallons*
3,167.10	*acre-inches*
27.07	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

17 - 11/28/2022: Triticale, soft dough

Field name: 17 Crop: Triticale, soft dough Plant date: 11/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	77.58	34.95	161.13	544.66
Fresh water	0.00	0.00	0.00	2,271.24
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	84.58	34.95	161.13	2,815.90
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	72.05	9.54	66.75	325.48
Nutrient balance	12.53	25.41	94.38	2,490.42
Applied to removed ratio	1.17	3.67	2.41	8.65

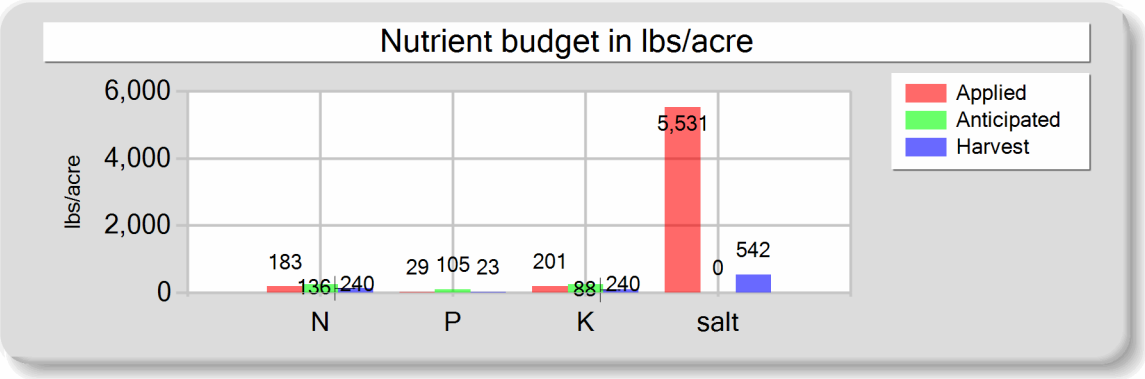
Fresh water applied	
39,160,772.00	*gallons*
1,442.16	*acre-inches*
12.02	*inches/acre*

Process wastewater applied	
3,263,398.00	*gallons*
120.18	*acre-inches*
1.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

17 - 06/02/2023: Corn, silage

Field name: 17 Crop: Corn, silage Plant date: 06/02/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	86.21	17.43	189.27	988.56
Fresh water	0.00	0.00	0.00	4,542.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	183.21	29.43	201.27	5,531.03
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	136.36	22.73	87.66	541.93
Nutrient balance	46.85	6.70	113.61	4,989.10
Applied to removed ratio	1.34	1.29	2.30	10.21

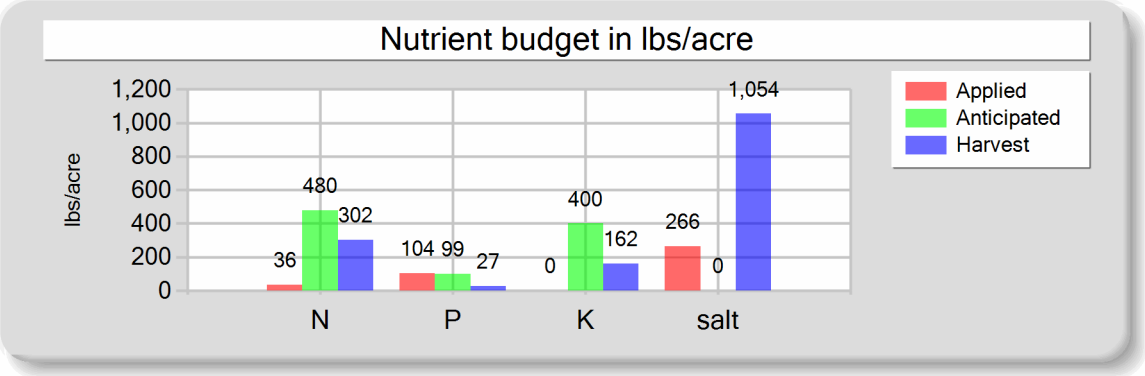
Fresh water applied	
78,321,544.00	*gallons*
2,884.32	*acre-inches*
24.04	*inches/acre*

Process wastewater applied	
3,916,078.00	*gallons*
144.22	*acre-inches*
1.20	*inches/acre*

Total harvests for the crop	
1	*harvests*

2A - 01/01/2023: Alfalfa, hay

Field name: 2A Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	265.59
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	265.59
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	302.44	26.69	162.34	1,053.90
Nutrient balance	-266.44	77.31	-162.34	-788.31
Applied to removed ratio	0.12	3.90	0.00	0.25

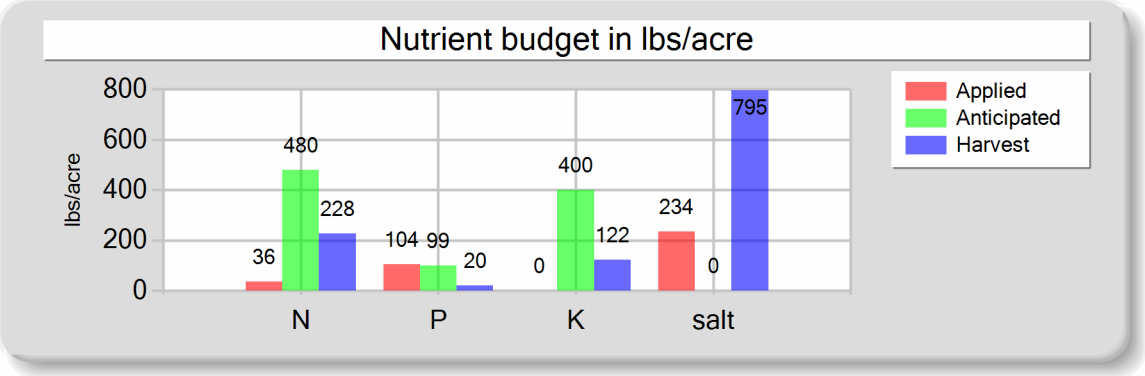
Fresh water applied	
31,086,189.00	*gallons*
1,144.80	*acre-inches*
27.26	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

2B - 01/01/2023: Alfalfa, hay

Field name: 2B | Crop: Alfalfa, hay | Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	234.45
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	234.45
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	228.06	20.12	122.42	794.72
Nutrient balance	-192.06	83.88	-122.42	-560.27
Applied to removed ratio	0.16	5.17	0.00	0.30

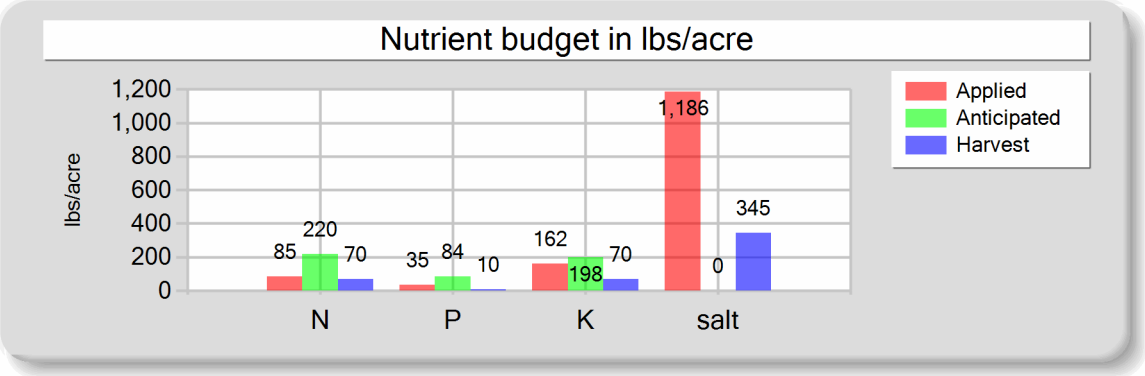
Fresh water applied	
25,481,552.00	*gallons*
938.40	*acre-inches*
24.06	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

2C - 11/26/2022: Triticale, soft dough

Field name: 2C | Crop: Triticale, soft dough | Plant date: 11/26/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	78.20	35.23	162.41	549.00
Fresh water	0.00	0.00	0.00	637.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	85.20	35.23	162.41	1,186.40
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	69.64	9.67	69.64	345.49
Nutrient balance	15.56	25.56	92.78	840.91
Applied to removed ratio	1.22	3.64	2.33	3.43

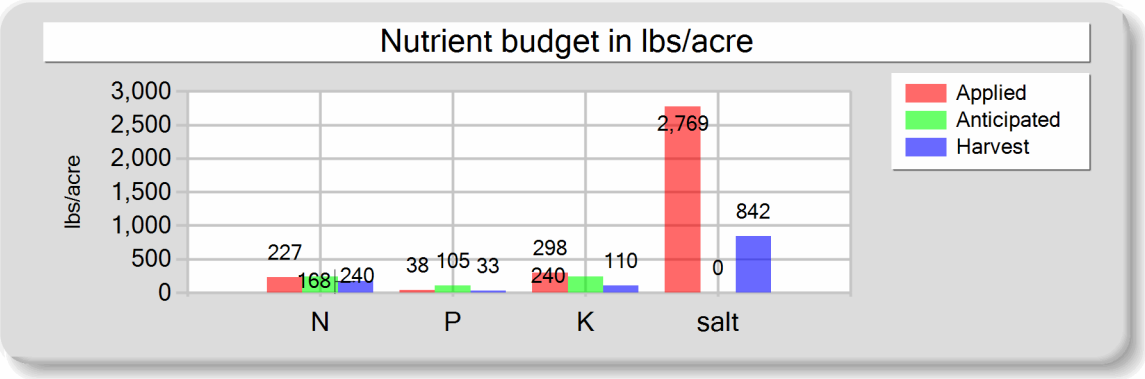
Fresh water applied	
12,828,752.00	*gallons*
472.44	*acre-inches*
12.11	*inches/acre*

Process wastewater applied	
1,069,063.00	*gallons*
39.37	*acre-inches*
1.01	*inches/acre*

Total harvests for the crop	
1	*harvests*

2C - 06/05/2023: Corn, silage

Field name: 2C Crop: Corn, silage 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
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	130.34	26.35	286.17	1,494.67
Fresh water	0.00	0.00	0.00	1,274.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	227.34	38.35	298.17	2,769.46
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	168.31	32.93	109.77	841.64
Nutrient balance	59.03	5.42	188.40	1,927.82
Applied to removed ratio	1.35	1.16	2.72	3.29

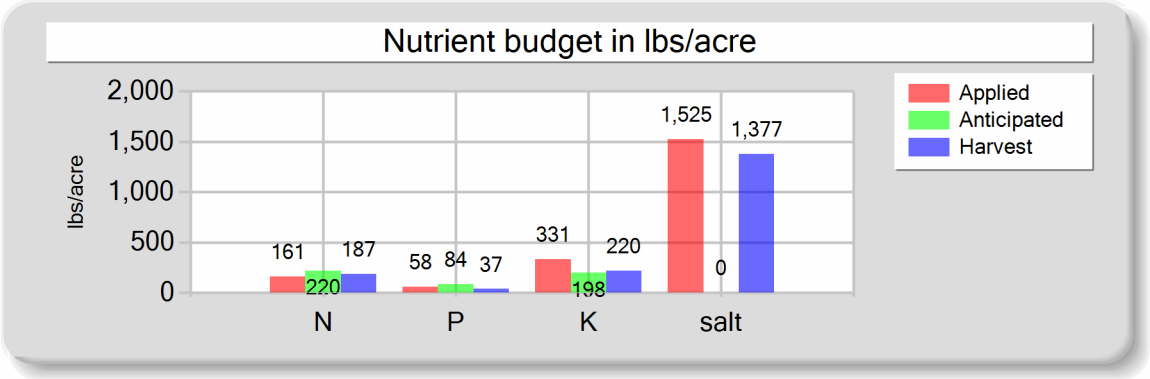
Fresh water applied	
25,657,504.00	*gallons*
944.88	*acre-inches*
24.23	*inches/acre*

Process wastewater applied	
1,924,314.00	*gallons*
70.87	*acre-inches*
1.82	*inches/acre*

Total harvests for the crop	
1	*harvests*

2D - 10/27/2022: Triticale, soft dough

Field name: 2D | Crop: Triticale, soft dough | Plant date: 10/27/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	153.83	57.69	330.93	1,408.20
Fresh water	0.00	0.00	0.00	117.20
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	160.83	57.69	330.93	1,525.40
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	186.80	36.63	219.77	1,377.21
Nutrient balance	-25.97	21.06	111.16	148.19
Applied to removed ratio	0.86	1.58	1.51	1.11

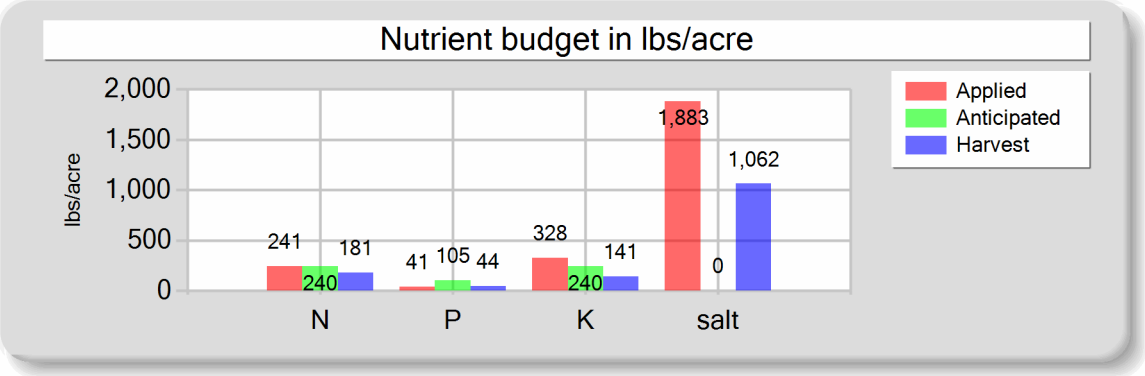
Fresh water applied	
14,044,180.00	*gallons*
517.20	*acre-inches*
12.03	*inches/acre*

Process wastewater applied	
2,340,696.00	*gallons*
86.20	*acre-inches*
2.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

2D - 06/03/2023: Corn, silage

Field name: 2D | Crop: Corn, silage | Plant date: 06/03/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	143.80	29.07	315.71	1,648.96
Fresh water	0.00	0.00	0.00	234.40
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	240.80	41.07	327.71	1,883.36
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	180.99	44.14	141.26	1,061.67
Nutrient balance	59.80	-3.07	186.45	821.69
Applied to removed ratio	1.33	0.93	2.32	1.77

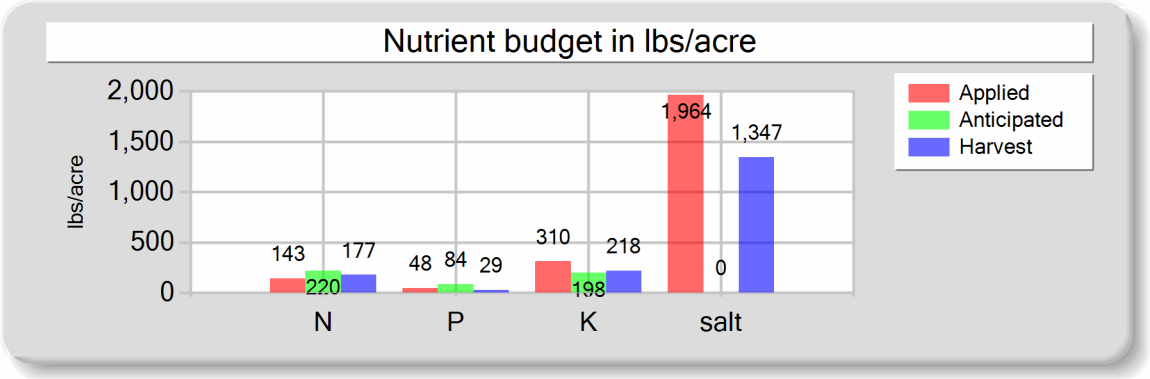
Fresh water applied	
28,088,360.00	*gallons*
1,034.40	*acre-inches*
24.06	*inches/acre*

Process wastewater applied	
2,340,696.00	*gallons*
86.20	*acre-inches*
2.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

2E - 10/31/2022: Triticale, soft dough

Field name: 2E | Crop: Triticale, soft dough | Plant date: 10/31/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	136.04	47.77	310.27	1,336.17
Fresh water	0.00	0.00	0.00	627.84
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	143.04	47.77	310.27	1,964.01
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	176.74	28.77	217.84	1,346.89
Nutrient balance	-33.70	19.00	92.43	617.12
Applied to removed ratio	0.81	1.66	1.42	1.46

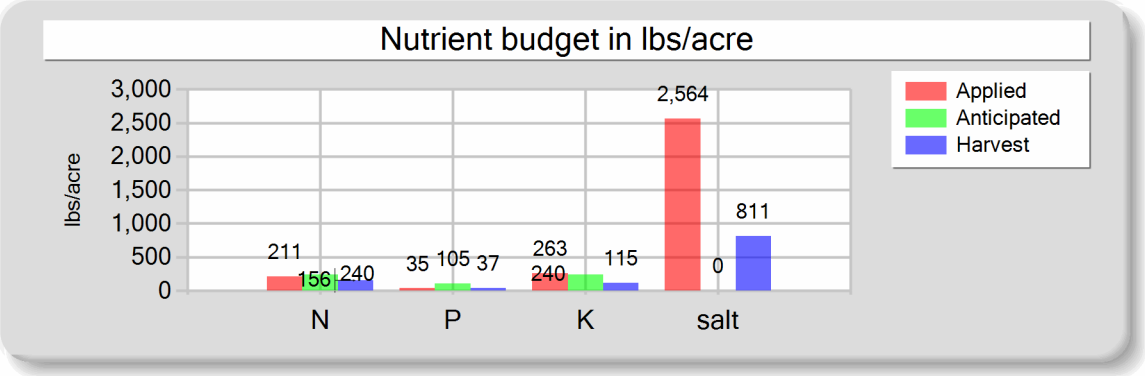
Fresh water applied	
12,636,500.00	*gallons*
465.36	*acre-inches*
11.93	*inches/acre*

Process wastewater applied	
2,106,084.00	*gallons*
77.56	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

2E - 06/06/2023: Corn, silage

Field name: 2E Crop: Corn, silage Plant date: 06/06/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	114.12	23.07	250.56	1,308.68
Fresh water	0.00	0.00	0.00	1,255.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	211.12	35.07	262.56	2,564.37
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	156.05	36.96	114.99	810.53
Nutrient balance	55.07	-1.89	147.57	1,753.83
Applied to removed ratio	1.35	0.95	2.28	3.16

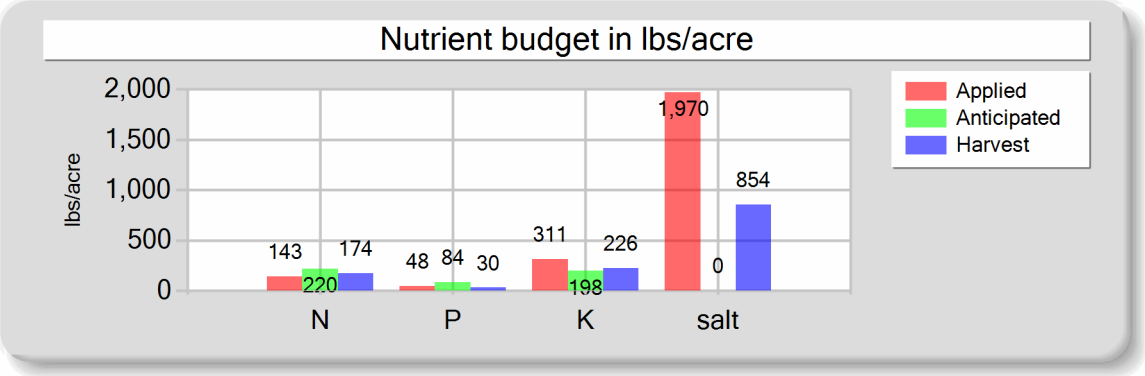
Fresh water applied	
25,273,000.00	*gallons*
930.72	*acre-inches*
23.86	*inches/acre*

Process wastewater applied	
1,684,866.00	*gallons*
62.05	*acre-inches*
1.59	*inches/acre*

Total harvests for the crop	
1	*harvests*

2F - 10/15/2022: Triticale, soft dough

Field name: 2F | Crop: Triticale, soft dough | Plant date: 10/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	136.46	47.92	311.23	1,340.31
Fresh water	0.00	0.00	0.00	629.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	143.46	47.92	311.23	1,970.09
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	173.89	29.53	226.39	854.38
Nutrient balance	-30.43	18.39	84.84	1,115.71
Applied to removed ratio	0.82	1.62	1.37	2.31

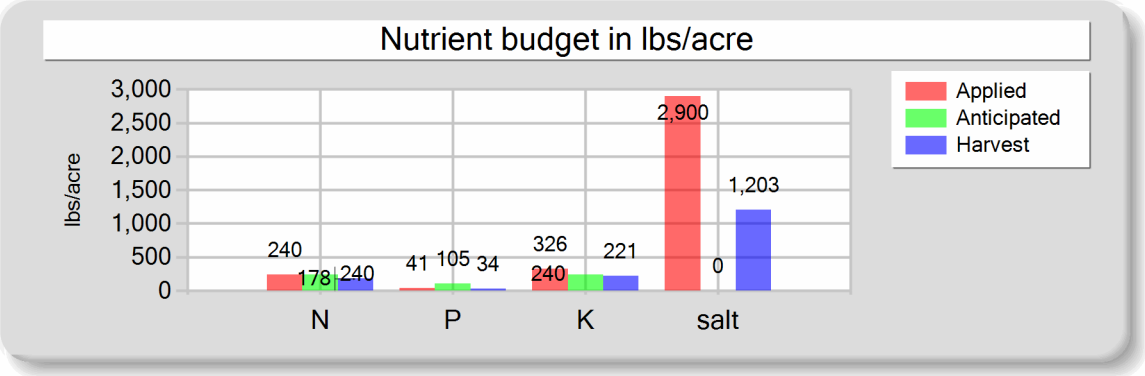
Fresh water applied	
12,675,604.00	*gallons*
466.80	*acre-inches*
11.97	*inches/acre*

Process wastewater applied	
2,112,600.00	*gallons*
77.80	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

2F - 05/24/2023: Corn, silage

Field name: 2F | Crop: Corn, silage | Plant date: 05/24/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	143.09	28.93	314.17	1,640.91
Fresh water	0.00	0.00	0.00	1,259.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	240.09	40.93	326.17	2,900.48
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	177.94	33.66	221.22	1,202.50
Nutrient balance	62.15	7.27	104.94	1,697.98
Applied to removed ratio	1.35	1.22	1.47	2.41

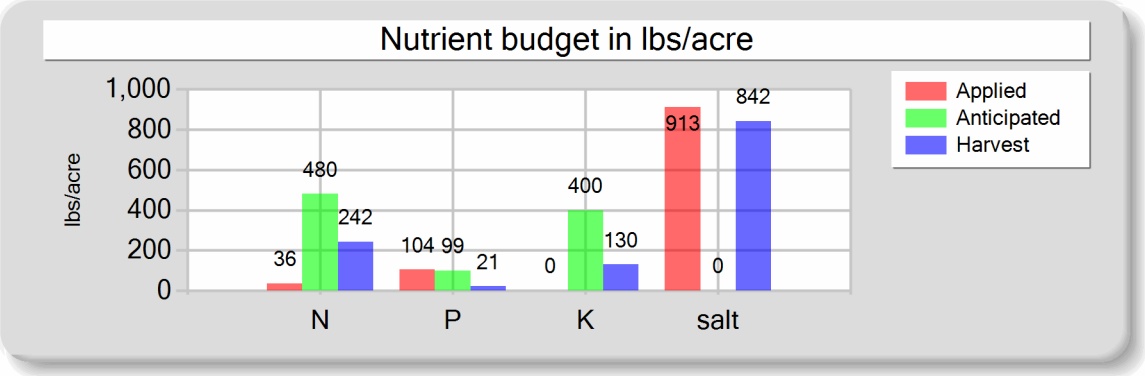
Fresh water applied	
25,351,208.00	*gallons*
933.60	*acre-inches*
23.94	*inches/acre*

Process wastewater applied	
2,112,600.00	*gallons*
77.80	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

3--1 - 01/01/2023: Alfalfa, hay

Field name: 3--1 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	912.78
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	912.78
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	241.74	21.33	129.75	842.37
Nutrient balance	-205.74	82.67	-129.75	70.41
Applied to removed ratio	0.15	4.88	0.00	1.08

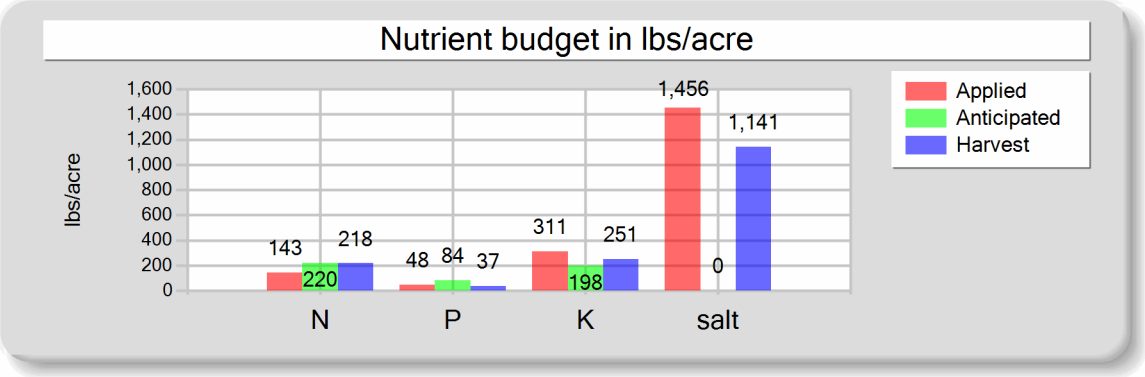
Fresh water applied	
51,981,381.00	*gallons*
1,914.30	*acre-inches*
26.96	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3A - 10/28/2022: Triticale, soft dough

Field name: 3A | Crop: Triticale, soft dough | Plant date: 10/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	136.33	47.87	310.93	1,339.01
Fresh water	0.00	0.00	0.00	116.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	143.33	47.87	310.93	1,455.52
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	217.52	36.87	250.70	1,141.29
Nutrient balance	-74.19	11.00	60.23	314.23
Applied to removed ratio	0.66	1.30	1.24	1.28

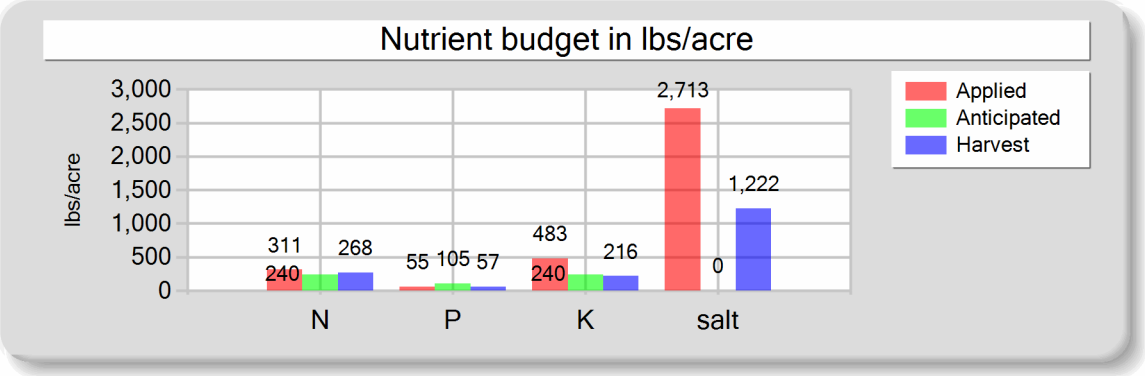
Fresh water applied	
27,599,580.00	*gallons*
1,016.40	*acre-inches*
11.96	*inches/acre*

Process wastewater applied	
4,599,930.00	*gallons*
169.40	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

3A - 06/09/2023: Corn, silage

Field name: 3A | Crop: Corn, silage | Plant date: 06/09/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	214.43	43.35	470.80	2,458.99
Fresh water	0.00	0.00	0.00	253.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	311.43	55.35	482.80	2,712.91
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	267.95	56.68	216.42	1,222.17
Nutrient balance	43.48	-1.33	266.37	1,490.73
Applied to removed ratio	1.16	0.98	2.23	2.22

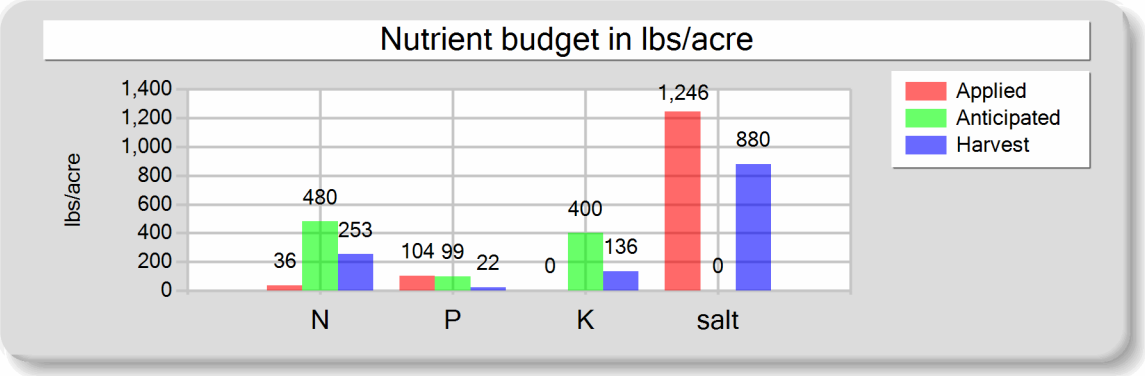
Fresh water applied	
62,099,055.00	*gallons*
2,286.90	*acre-inches*
26.90	*inches/acre*

Process wastewater applied	
6,899,895.00	*gallons*
254.10	*acre-inches*
2.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

3B - 01/01/2023: Alfalfa, hay

Field name: 3B Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	1,246.19
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	1,246.19
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	252.67	22.29	135.63	880.48
Nutrient balance	-216.67	81.71	-135.63	365.71
Applied to removed ratio	0.14	4.66	0.00	1.42

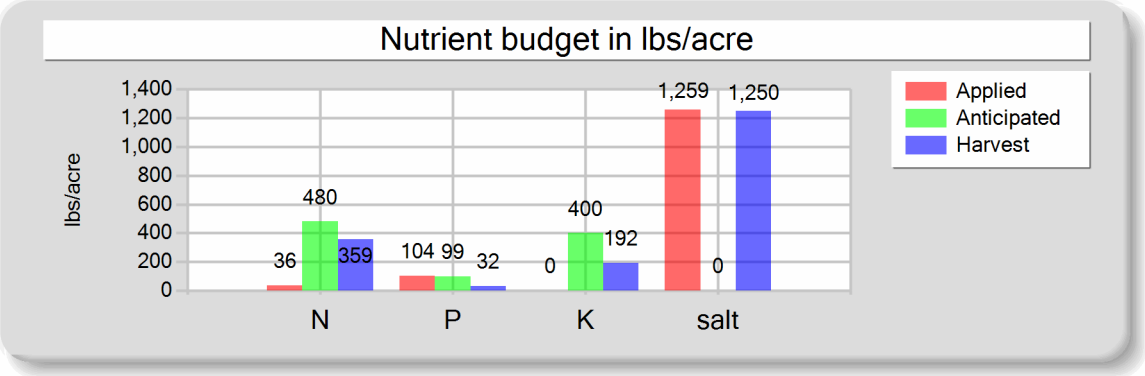
Fresh water applied	
24,438,824.00	*gallons*
900.00	*acre-inches*
23.68	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3C - 01/01/2023: Alfalfa, hay

Field name: 3C | Crop: Alfalfa, hay | Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	1,259.49
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	1,259.49
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	358.61	31.64	192.49	1,249.64
Nutrient balance	-322.61	72.36	-192.49	9.85
Applied to removed ratio	0.10	3.29	0.00	1.01

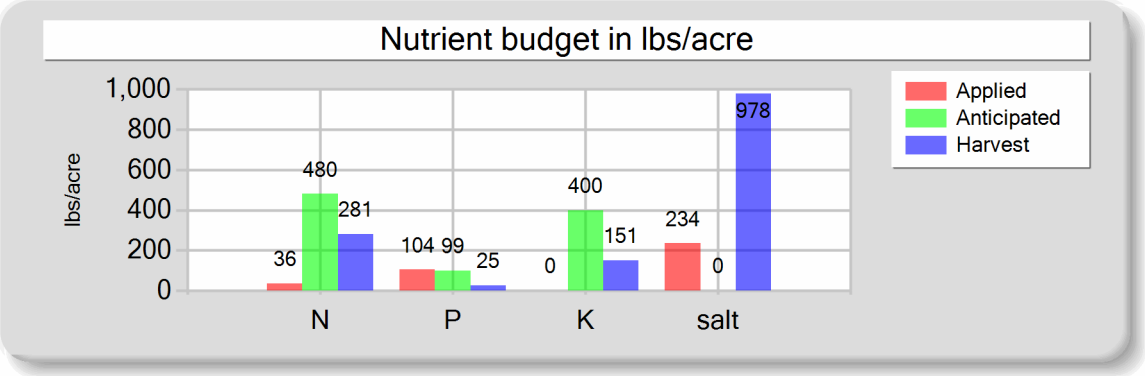
Fresh water applied	
24,699,504.00	*gallons*
909.60	*acre-inches*
23.94	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3E - 01/01/2023: Alfalfa, hay

Field name: 3E | Crop: Alfalfa, hay | Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	234.47
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	234.47
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	280.59	24.76	150.61	977.76
Nutrient balance	-244.59	79.24	-150.61	-743.29
Applied to removed ratio	0.13	4.20	0.00	0.24

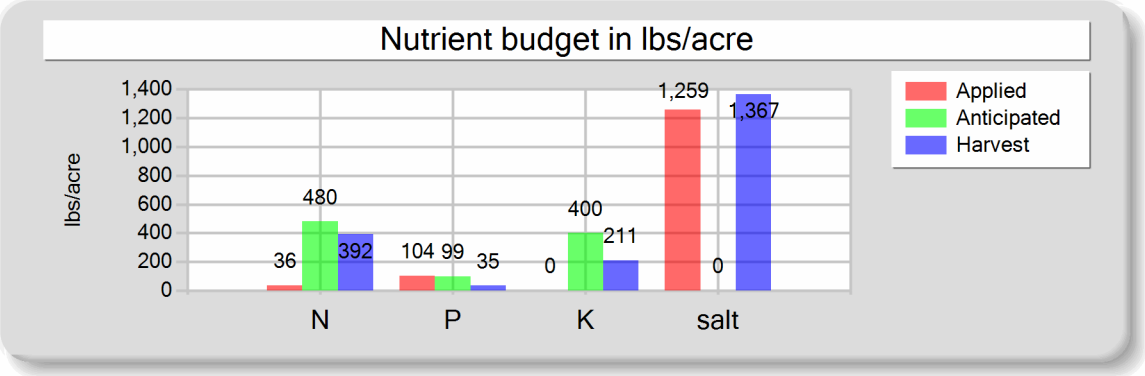
Fresh water applied	
24,829,848.00	*gallons*
914.40	*acre-inches*
24.06	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3F - 01/01/2023: Alfalfa, hay

Field name: 3F | Crop: Alfalfa, hay | Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	1,259.49
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	1,259.49
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	392.25	34.61	210.55	1,366.87
Nutrient balance	-356.25	69.39	-210.55	-107.39
Applied to removed ratio	0.09	3.00	0.00	0.92

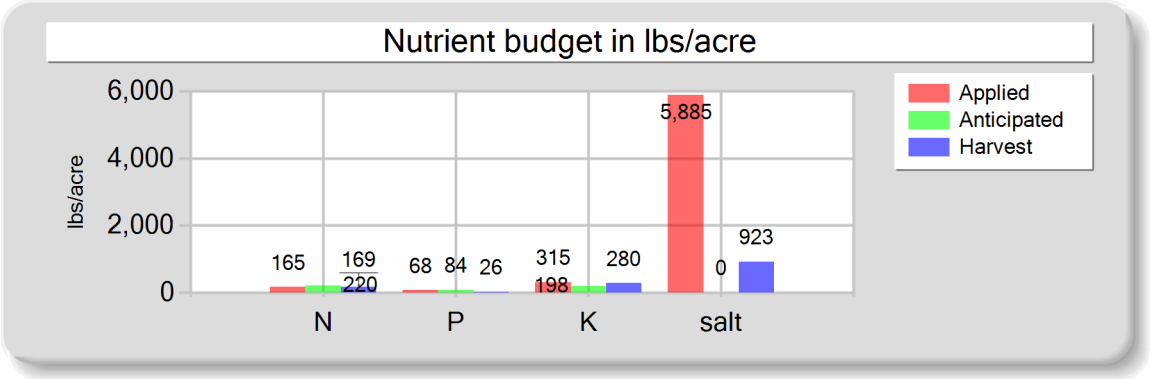
Fresh water applied	
24,699,504.00	*gallons*
909.60	*acre-inches*
23.94	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

4--2E - 10/29/2022: Triticale, soft dough

Field name: 4--2E | Crop: Triticale, soft dough | Plant date: 10/29/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	151.49	68.24	314.62	1,063.52
Fresh water	0.00	0.00	0.00	4,821.73
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	165.49	68.24	314.62	5,885.25
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	168.67	25.73	280.17	923.42
Nutrient balance	-3.19	42.51	34.45	4,961.83
Applied to removed ratio	0.98	2.65	1.12	6.37

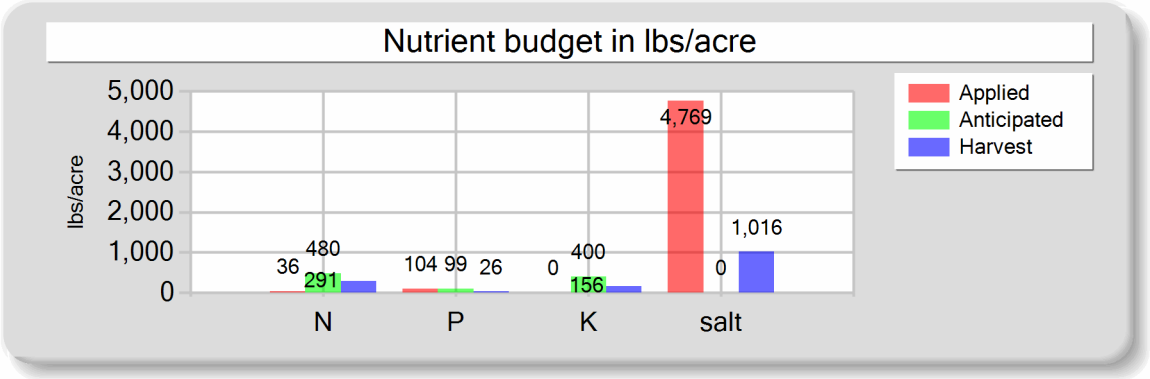
Fresh water applied	
4,301,232.00	*gallons*
158.40	*acre-inches*
8.80	*inches/acre*

Process wastewater applied	
955,830.00	*gallons*
35.20	*acre-inches*
1.96	*inches/acre*

Total harvests for the crop	
1	*harvests*

4--3E - 01/01/2023: Alfalfa, hay

Field name: 4--3E Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	4,769.31
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	4,769.31
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	291.43	25.71	156.43	1,015.53
Nutrient balance	-255.43	78.29	-156.43	3,753.77
Applied to removed ratio	0.12	4.04	0.00	4.70

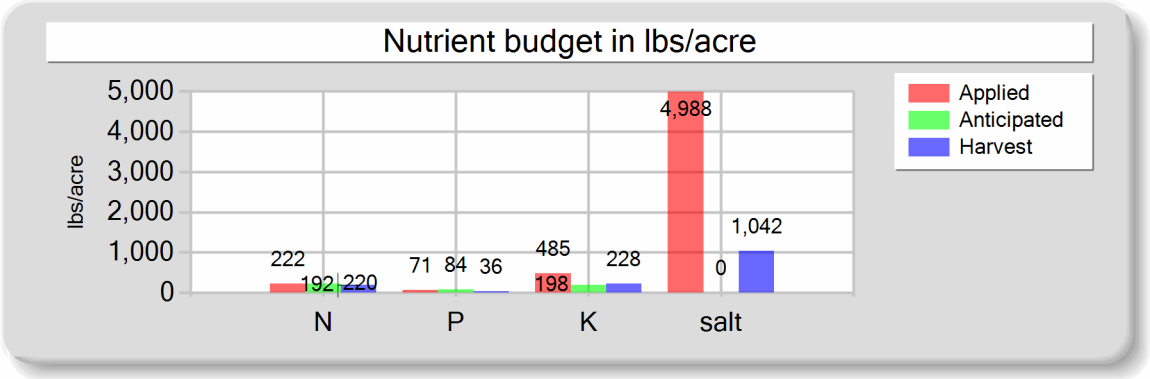
Fresh water applied	
19,844,328.00	*gallons*
730.80	*acre-inches*
20.88	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

4--3W - 10/29/2022: Triticale, soft dough

Field name: 4--3W | Crop: Triticale, soft dough | Plant date: 10/29/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	214.66	71.31	485.46	2,223.86
Fresh water	0.00	0.00	0.00	2,764.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	221.66	71.31	485.46	4,988.49
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	191.97	36.00	227.97	1,042.42
Nutrient balance	29.69	35.31	257.49	3,946.07
Applied to removed ratio	1.15	1.98	2.13	4.79

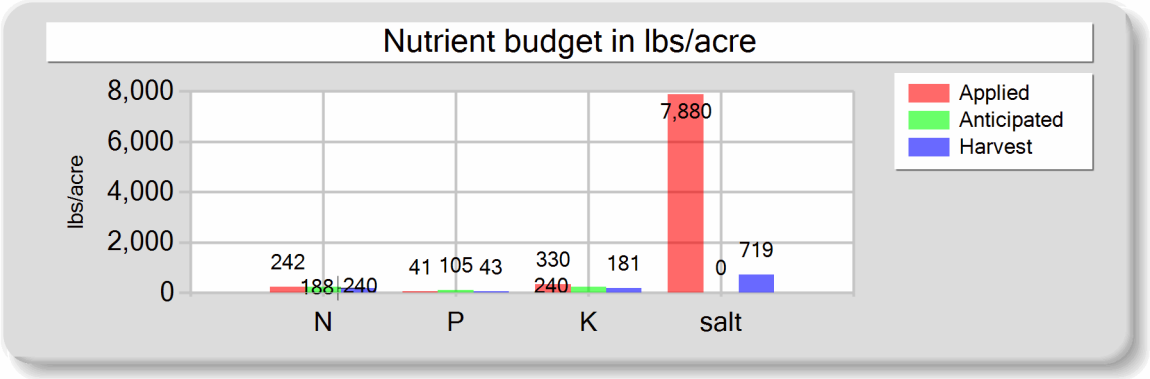
Fresh water applied	
16,761,776.00	*gallons*
617.28	*acre-inches*
12.10	*inches/acre*

Process wastewater applied	
4,190,445.00	*gallons*
154.32	*acre-inches*
3.03	*inches/acre*

Total harvests for the crop	
1	*harvests*

4--3W - 06/20/2023: Corn, silage

Field name: 4--3W Crop: Corn, silage Plant date: 06/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	144.70	29.26	317.69	1,659.33
Fresh water	0.00	0.00	0.00	6,220.41
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	241.70	41.26	329.69	7,879.74
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	187.87	42.54	180.78	719.40
Nutrient balance	53.83	-1.28	148.91	7,160.34
Applied to removed ratio	1.29	0.97	1.82	10.95

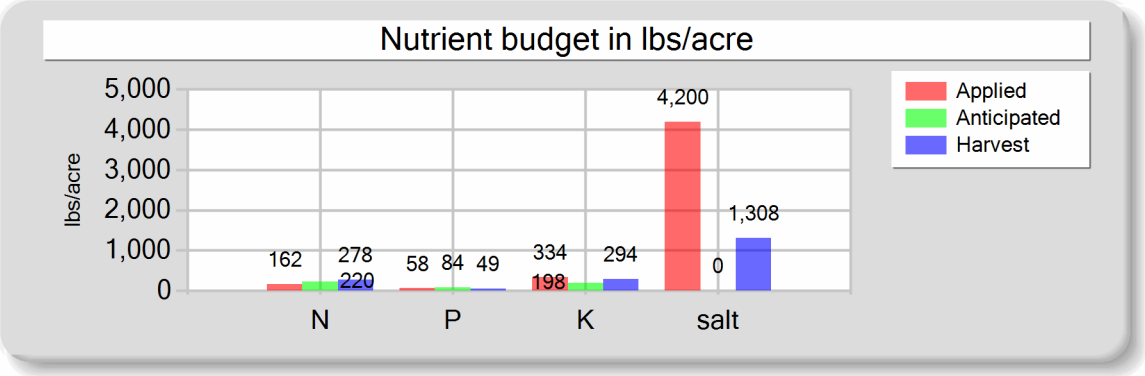
Fresh water applied	
37,713,996.00	*gallons*
1,388.88	*acre-inches*
27.23	*inches/acre*

Process wastewater applied	
2,793,630.00	*gallons*
102.88	*acre-inches*
2.02	*inches/acre*

Total harvests for the crop	
1	*harvests*

4--4E - 10/29/2022: Triticale, soft dough

Field name: 4--4E Crop: Triticale, soft dough Plant date: 10/29/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	155.46	58.30	334.43	1,423.11
Fresh water	0.00	0.00	0.00	2,776.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	162.46	58.30	334.43	4,199.57
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	277.68	49.00	294.01	1,308.08
Nutrient balance	-115.22	9.30	40.42	2,891.49
Applied to removed ratio	0.59	1.19	1.14	3.21

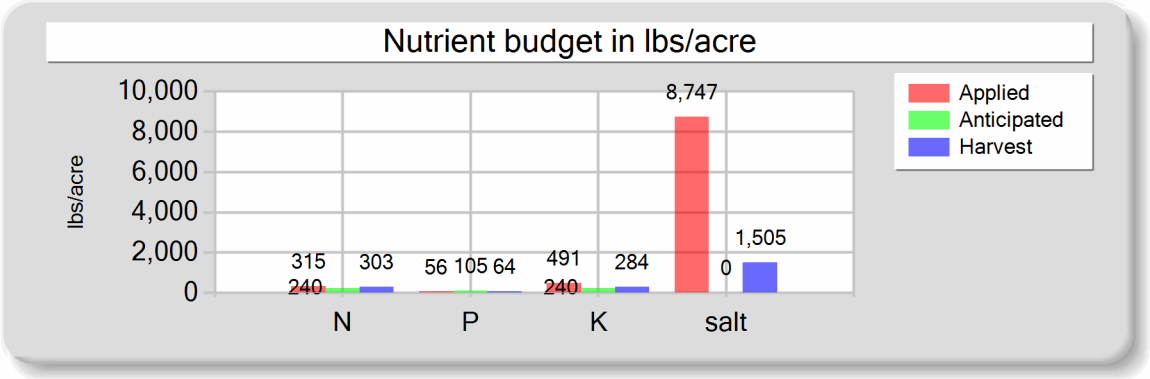
Fresh water applied	
11,222,308.00	*gallons*
413.28	*acre-inches*
12.16	*inches/acre*

Process wastewater applied	
1,870,384.00	*gallons*
68.88	*acre-inches*
2.03	*inches/acre*

Total harvests for the crop	
1	*harvests*

4--4E - 06/08/2023: Corn, silage

Field name: 4--4E Crop: Corn, silage Plant date: 06/08/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	217.98	44.07	478.58	2,499.63
Fresh water	0.00	0.00	0.00	6,247.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	314.98	56.07	490.58	8,746.65
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	302.85	64.44	283.52	1,505.40
Nutrient balance	12.13	-8.36	207.06	7,241.25
Applied to removed ratio	1.04	0.87	1.73	5.81

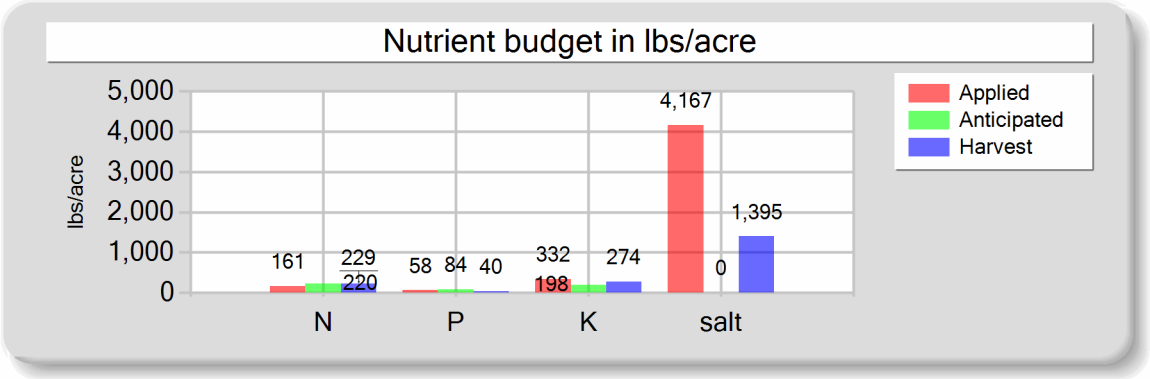
Fresh water applied	
25,250,193.00	*gallons*
929.88	*acre-inches*
27.35	*inches/acre*

Process wastewater applied	
2,805,576.00	*gallons*
103.32	*acre-inches*
3.04	*inches/acre*

Total harvests for the crop	
1	*harvests*

4--4W - 10/29/2022: Triticale, soft dough

Field name: 4--4W Crop: Triticale, soft dough Plant date: 10/29/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	154.25	57.84	331.81	1,411.96
Fresh water	0.00	0.00	0.00	2,754.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	161.25	57.84	331.81	4,166.64
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	228.87	40.39	273.74	1,395.47
Nutrient balance	-67.62	17.46	58.07	2,771.17
Applied to removed ratio	0.70	1.43	1.21	2.99

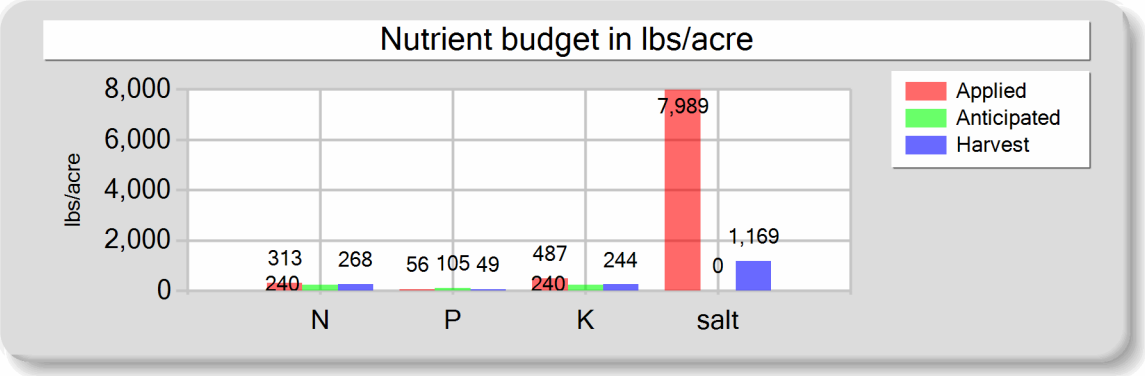
Fresh water applied	
13,754,172.00	*gallons*
506.52	*acre-inches*
12.06	*inches/acre*

Process wastewater applied	
2,292,362.00	*gallons*
84.42	*acre-inches*
2.01	*inches/acre*

Total harvests for the crop	
1	*harvests*

4--4W - 06/07/2023: Corn, silage

Field name: 4--4W Crop: Corn, 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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	216.27	43.73	474.83	2,480.04
Fresh water	0.00	0.00	0.00	5,509.37
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	313.27	55.73	486.83	7,989.41
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	267.96	48.72	243.60	1,169.16
Nutrient balance	45.31	7.01	243.23	6,820.25
Applied to removed ratio	1.17	1.14	2.00	6.83

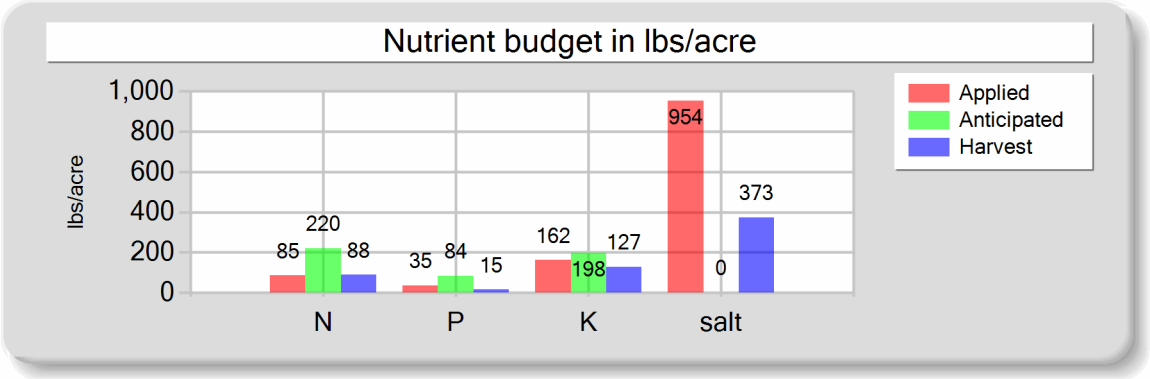
Fresh water applied	
27,508,344.00	*gallons*
1,013.04	*acre-inches*
24.12	*inches/acre*

Process wastewater applied	
3,438,543.00	*gallons*
126.63	*acre-inches*
3.01	*inches/acre*

Total harvests for the crop	
1	*harvests*

5--1 - 11/23/2022: Triticale, soft dough

Field name: 5--1 Crop: Triticale, soft dough Plant date: 11/23/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	77.77	35.03	161.52	545.99
Fresh water	0.00	0.00	0.00	407.86
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	84.77	35.03	161.52	953.85
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	88.19	14.70	127.39	373.24
Nutrient balance	-3.42	20.34	34.14	580.61
Applied to removed ratio	0.96	2.38	1.27	2.56

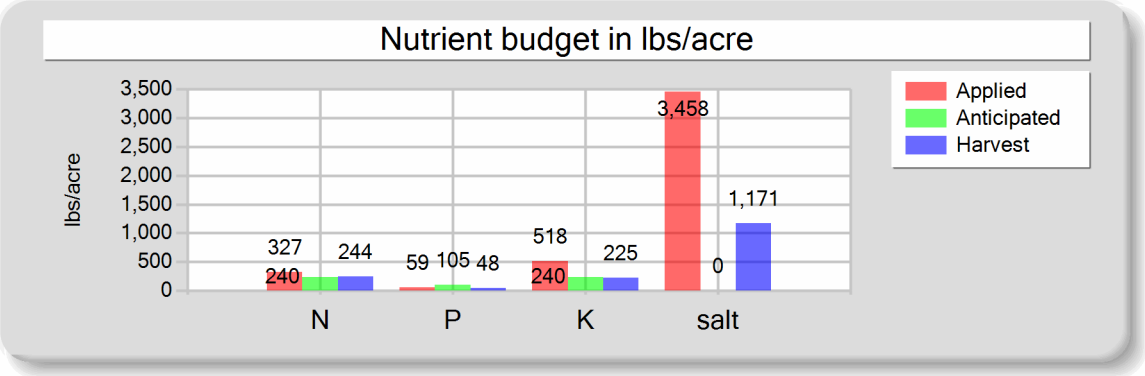
Fresh water applied	
24,862,432.00	*gallons*
915.60	*acre-inches*
12.05	*inches/acre*

Process wastewater applied	
2,071,869.00	*gallons*
76.30	*acre-inches*
1.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

5--1 - 05/20/2023: Corn, silage

Field name: 5--1 Crop: Corn, silage Plant date: 05/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	230.44	46.59	505.95	2,642.60
Fresh water	0.00	0.00	0.00	815.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.44	58.59	517.95	3,458.31
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	243.86	47.82	224.73	1,170.53
Nutrient balance	83.58	10.78	293.22	2,287.78
Applied to removed ratio	1.34	1.23	2.30	2.95

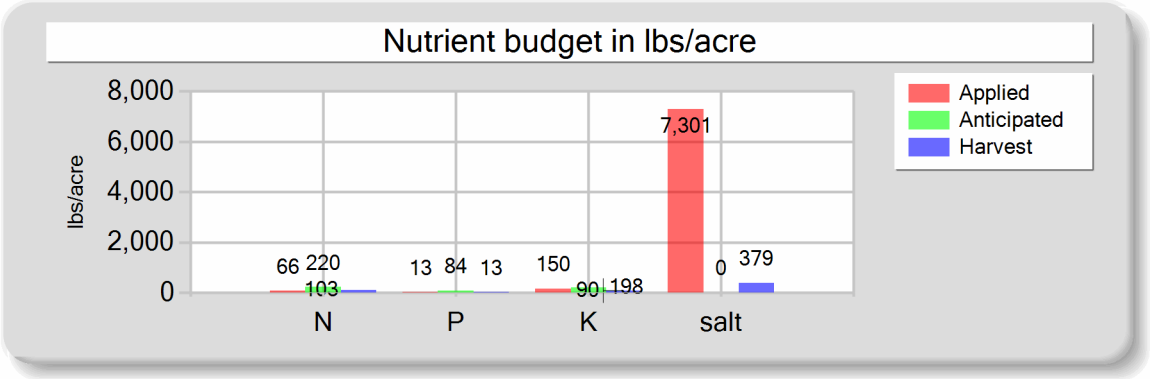
Fresh water applied	
49,724,864.00	*gallons*
1,831.20	*acre-inches*
24.09	*inches/acre*

Process wastewater applied	
6,629,980.00	*gallons*
244.16	*acre-inches*
3.21	*inches/acre*

Total harvests for the crop	
1	*harvests*

5--2E - 11/26/2022: Triticale, soft dough

Field name: 5--2E Crop: Triticale, soft dough Plant date: 11/26/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	58.75	13.01	149.63	791.91
Fresh water	0.00	0.00	0.00	6,509.34
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	65.75	13.01	149.63	7,301.25
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	102.61	13.44	90.39	378.98
Nutrient balance	-36.86	-0.43	59.24	6,922.26
Applied to removed ratio	0.64	0.97	1.66	19.27

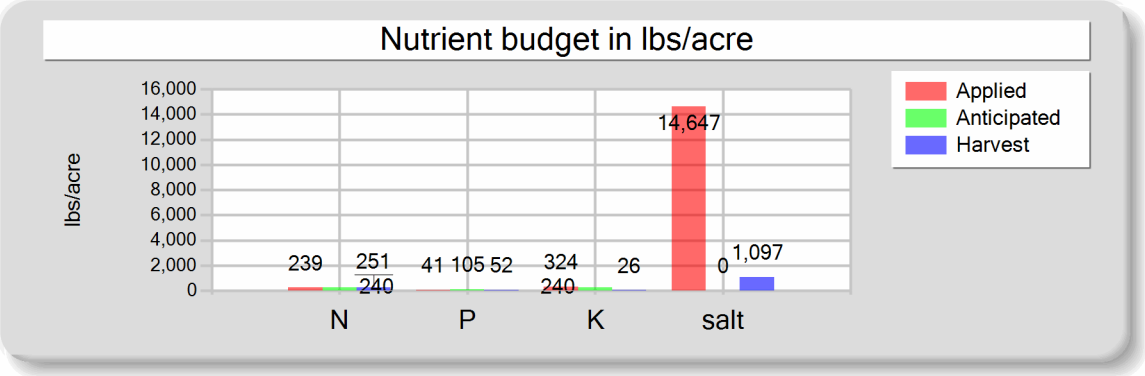
Fresh water applied	
12,581,108.00	*gallons*
463.32	*acre-inches*
11.88	*inches/acre*

Process wastewater applied	
1,048,426.00	*gallons*
38.61	*acre-inches*
0.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

5--2E - 06/16/2023: Corn, silage

Field name: 5--2E Crop: Corn, silage Plant date: 06/16/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	142.03	28.72	311.83	1,628.68
Fresh water	0.00	0.00	0.00	13,018.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	239.03	40.72	323.83	14,647.36
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	250.71	52.23	26.12	1,096.85
Nutrient balance	-11.68	-11.52	297.71	13,550.51
Applied to removed ratio	0.95	0.78	12.40	13.35

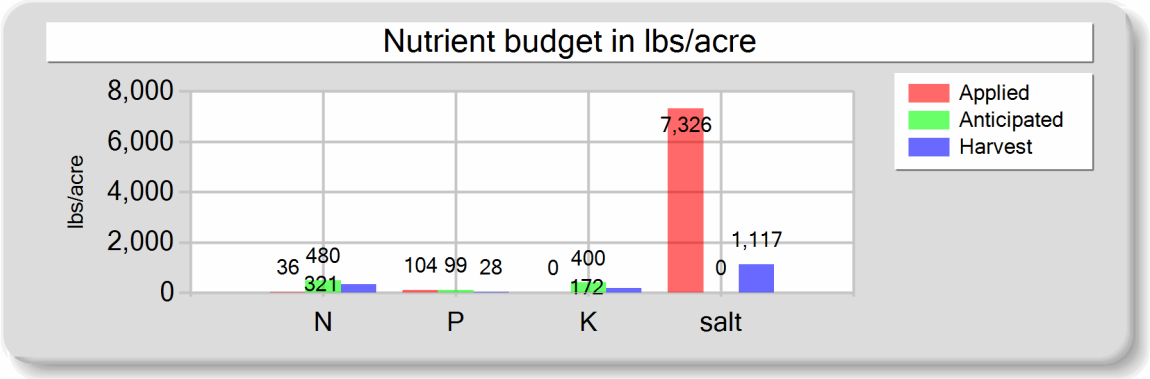
Fresh water applied	
25,162,216.00	*gallons*
926.64	*acre-inches*
23.76	*inches/acre*

Process wastewater applied	
2,096,852.00	*gallons*
77.22	*acre-inches*
1.98	*inches/acre*

Total harvests for the crop	
1	*harvests*

5--2W - 01/01/2023: Alfalfa, hay

Field name: 5--2W Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	7,325.68
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	7,325.68
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	320.50	28.28	172.03	1,116.84
Nutrient balance	-284.50	75.72	-172.03	6,208.84
Applied to removed ratio	0.11	3.68	0.00	6.56

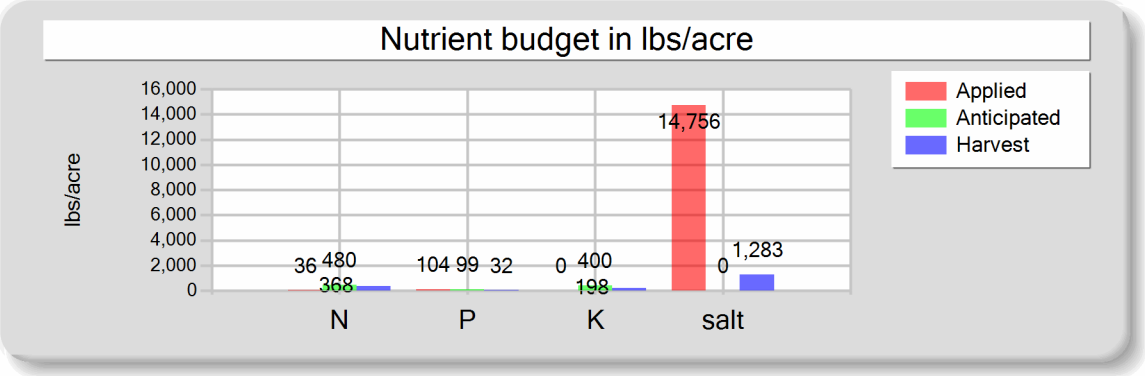
Fresh water applied	
30,133,071.00	*gallons*
1,109.70	*acre-inches*
13.37	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

5--3E - 01/01/2023: Alfalfa, hay

Field name: 5--3E Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	14,756.02
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	14,756.02
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	368.25	32.49	197.66	1,283.22
Nutrient balance	-332.25	71.51	-197.66	13,472.80
Applied to removed ratio	0.10	3.20	0.00	11.50

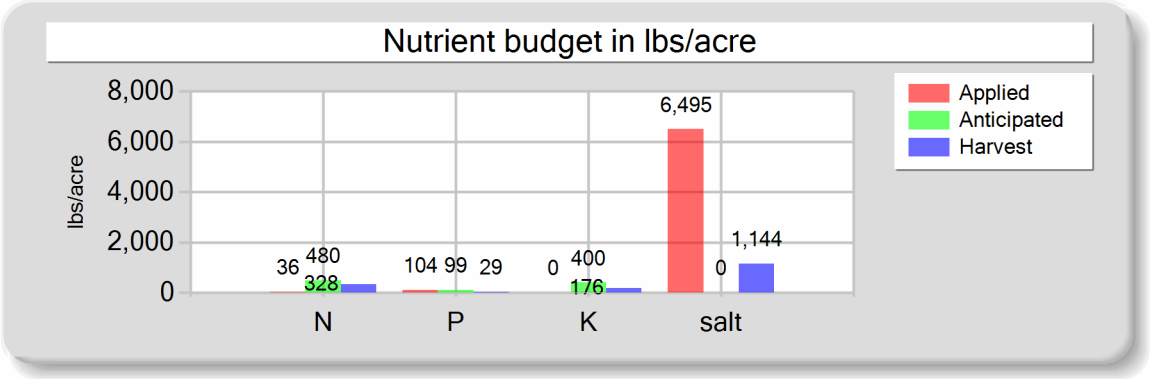
Fresh water applied	
57,040,218.00	*gallons*
2,100.60	*acre-inches*
26.93	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

5--4W - 01/01/2023: Alfalfa, hay

Field name: 5--4W Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	6,494.79
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	6,494.79
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	328.39	28.98	176.27	1,144.33
Nutrient balance	-292.39	75.02	-176.27	5,350.46
Applied to removed ratio	0.11	3.59	0.00	5.68

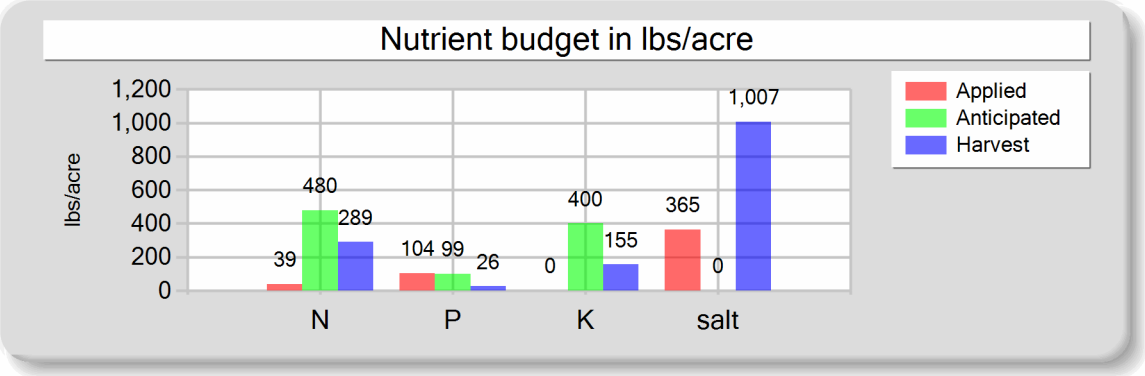
Fresh water applied	
26,459,104.00	*gallons*
974.40	*acre-inches*
23.77	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

5A - 01/01/2023: Alfalfa, hay

Field name: 5A Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	3.26	0.00	0.00	364.75
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	39.26	104.00	0.00	364.75
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	289.07	25.51	155.16	1,007.30
Nutrient balance	-249.81	78.49	-155.16	-642.55
Applied to removed ratio	0.14	4.08	0.00	0.36

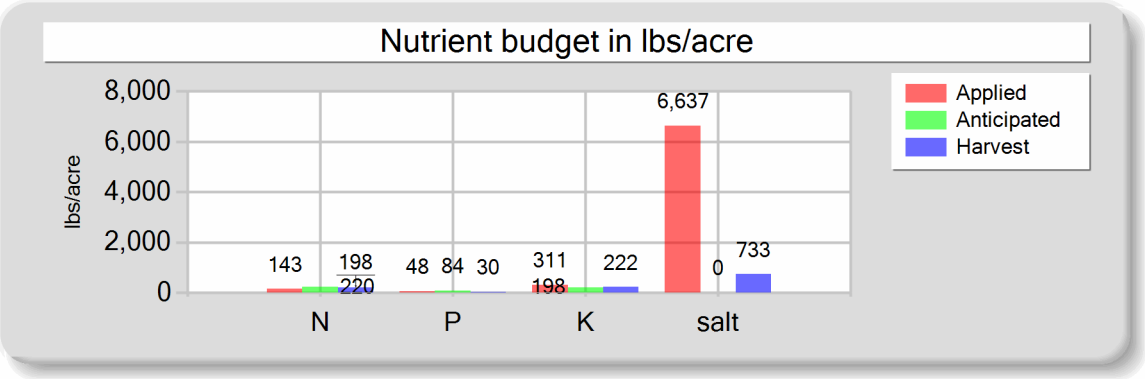
Fresh water applied	
33,171,632.00	*gallons*
1,221.60	*acre-inches*
23.95	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

8--1 - 10/20/2022: Triticale, soft dough

Field name: 8--1 Crop: Triticale, soft dough Plant date: 10/20/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	136.29	47.86	310.85	1,338.65
Fresh water	0.00	0.00	0.00	5,298.61
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	143.29	47.86	310.85	6,637.26
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	197.55	30.39	221.86	733.00
Nutrient balance	-54.26	17.46	88.98	5,904.25
Applied to removed ratio	0.73	1.57	1.40	9.05

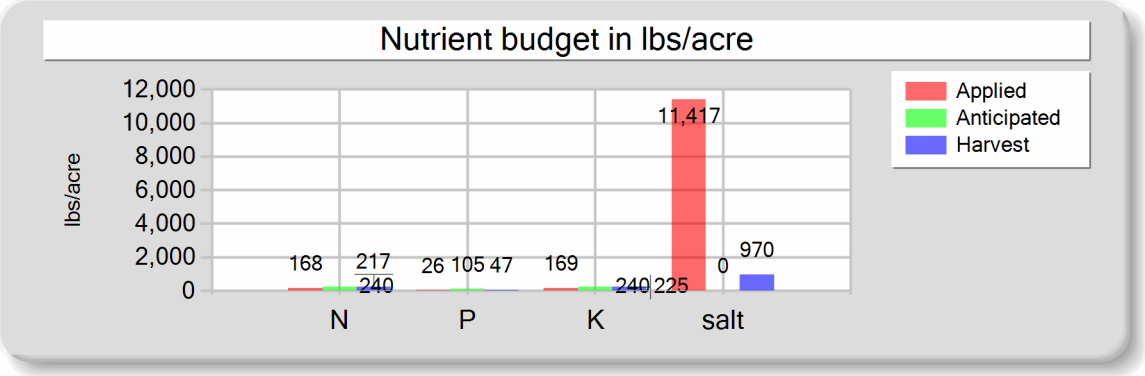
Fresh water applied	
25,644,472.00	*gallons*
944.40	*acre-inches*
11.95	*inches/acre*

Process wastewater applied	
4,274,078.00	*gallons*
157.40	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

8--1 - 05/26/2023: Corn, silage

Field name: 8--1 Crop: Corn, silage Plant date: 05/26/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	71.46	14.45	156.89	819.44
Fresh water	0.00	0.00	0.00	10,597.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	168.46	26.45	168.89	11,416.66
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	216.92	46.79	225.43	969.78
Nutrient balance	-48.47	-20.34	-56.54	10,446.88
Applied to removed ratio	0.78	0.57	0.75	11.77

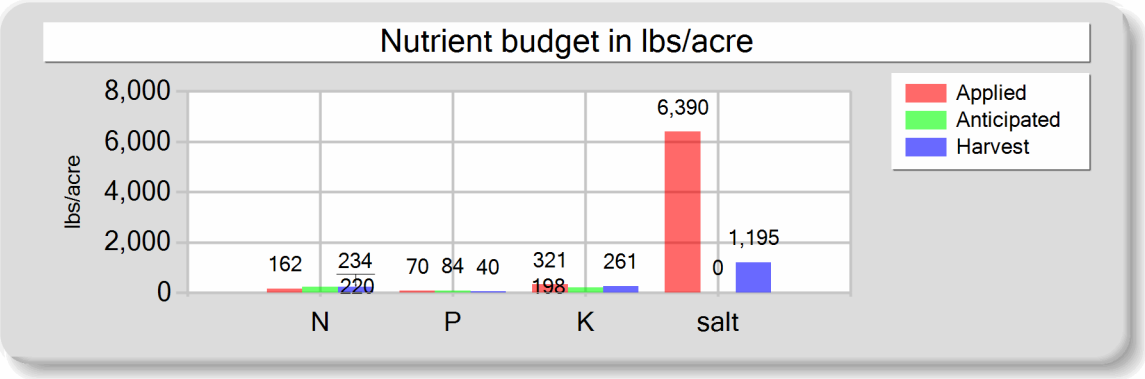
Fresh water applied	
51,288,944.00	*gallons*
1,888.80	*acre-inches*
23.91	*inches/acre*

Process wastewater applied	
2,137,039.00	*gallons*
78.70	*acre-inches*
1.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

8--2 - 11/05/2022: Triticale, soft dough

Field name: 8--2 Crop: Triticale, soft dough Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	154.54	69.62	320.97	1,084.97
Fresh water	0.00	0.00	0.00	5,305.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	161.54	69.62	320.97	6,390.48
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	233.63	39.60	261.34	1,194.81
Nutrient balance	-72.08	30.02	59.63	5,195.67
Applied to removed ratio	0.69	1.76	1.23	5.35

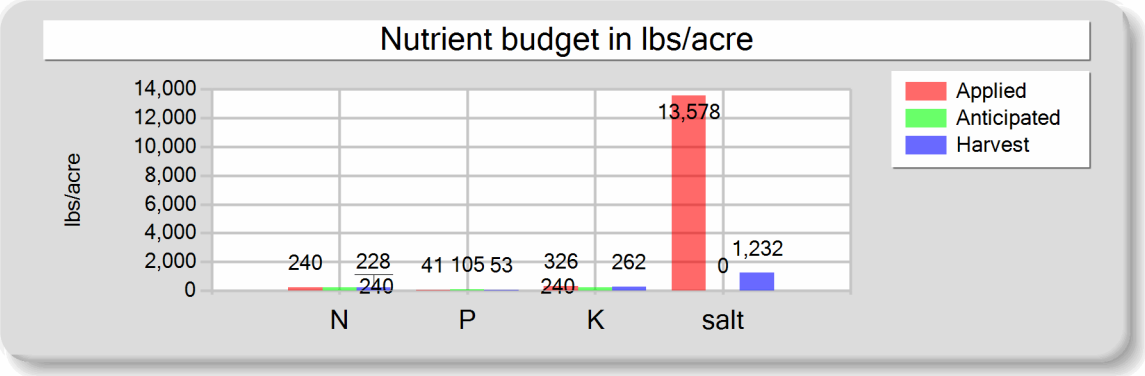
Fresh water applied	
26,002,908.00	*gallons*
957.60	*acre-inches*
11.97	*inches/acre*

Process wastewater applied	
4,333,818.00	*gallons*
159.60	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

8--2 - 06/12/2023: Corn, silage

Field name: 8--2 Crop: Corn, silage Plant date: 06/12/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	143.10	28.93	314.19	1,641.02
Fresh water	0.00	0.00	0.00	11,937.40
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	240.10	40.93	326.19	13,578.42
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	228.30	53.43	262.31	1,231.76
Nutrient balance	11.80	-12.50	63.88	12,346.65
Applied to removed ratio	1.05	0.77	1.24	11.02

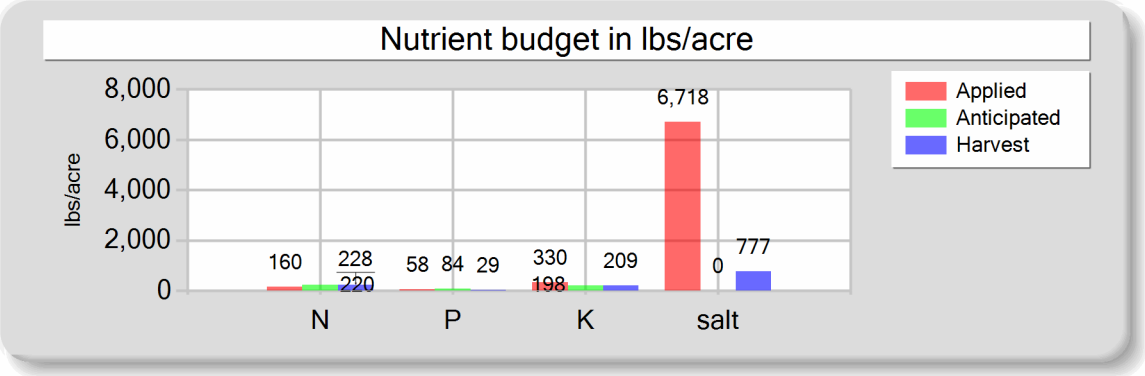
Fresh water applied	
58,506,543.00	*gallons*
2,154.60	*acre-inches*
26.93	*inches/acre*

Process wastewater applied	
4,333,818.00	*gallons*
159.60	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

8--3 - 10/14/2022: Triticale, soft dough

Field name: 8--3 Crop: Triticale, soft dough Plant date: 10/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	153.35	57.51	329.88	1,403.75
Fresh water	0.00	0.00	0.00	5,314.32
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	160.35	57.51	329.88	6,718.07
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	227.74	29.39	209.38	776.82
Nutrient balance	-67.39	28.12	120.51	5,941.25
Applied to removed ratio	0.70	1.96	1.58	8.65

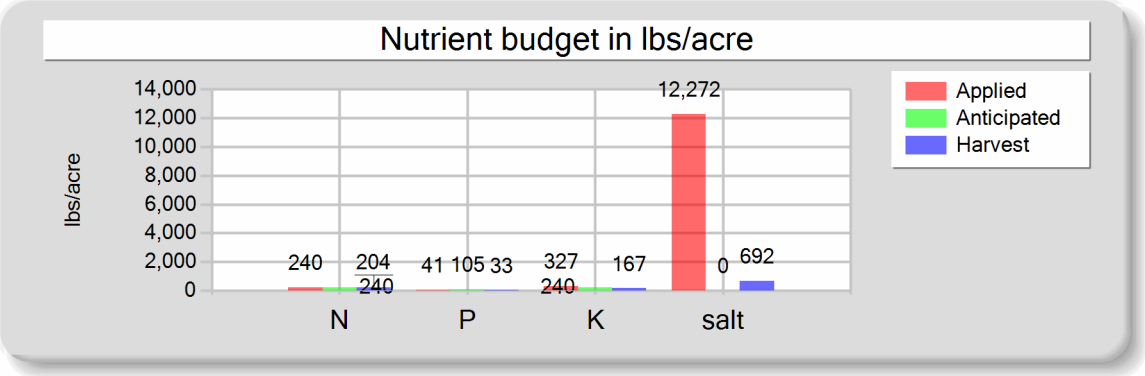
Fresh water applied	
27,022,824.00	*gallons*
995.16	*acre-inches*
11.99	*inches/acre*

Process wastewater applied	
4,503,804.00	*gallons*
165.86	*acre-inches*
2.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

8--3 - 06/21/2023: Corn, silage

Field name: 8--3 Crop: Corn, silage Plant date: 06/21/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	143.34	28.98	314.71	1,643.74
Fresh water	0.00	0.00	0.00	10,628.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	240.34	40.98	326.71	12,272.39
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	204.23	33.34	166.72	691.50
Nutrient balance	36.11	7.64	159.99	11,580.88
Applied to removed ratio	1.18	1.23	1.96	17.75

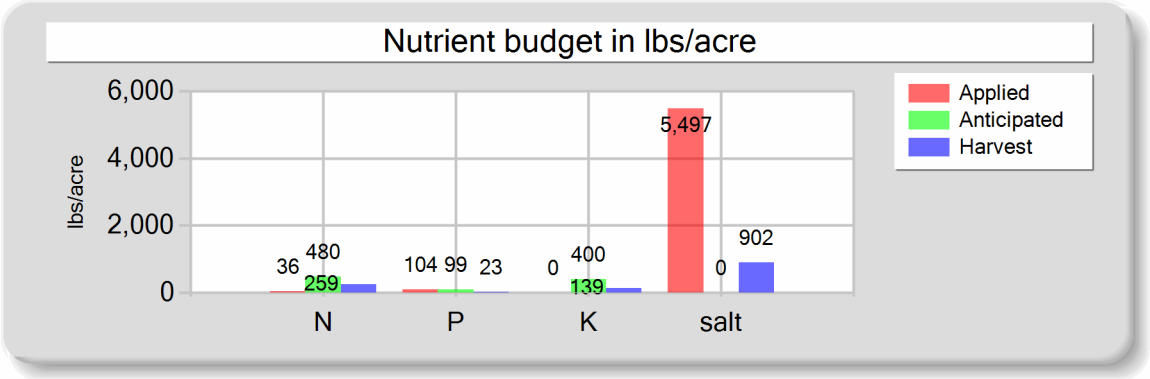
Fresh water applied	
54,045,648.00	*gallons*
1,990.32	*acre-inches*
23.98	*inches/acre*

Process wastewater applied	
4,503,804.00	*gallons*
165.86	*acre-inches*
2.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

8--4 - 01/01/2023: Alfalfa, hay

Field name: 8--4 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	104.00	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	0.00	0.00	0.00	5,496.58
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	104.00	0.00	5,496.58
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	258.94	22.85	138.99	902.33
Nutrient balance	-222.94	81.15	-138.99	4,594.25
Applied to removed ratio	0.14	4.55	0.00	6.09

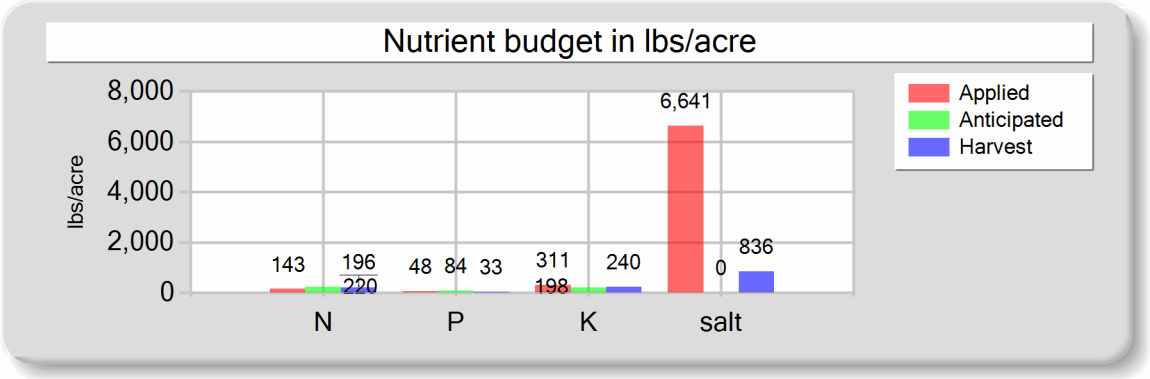
Fresh water applied	
49,007,992.00	*gallons*
1,804.80	*acre-inches*
24.06	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

9--1 - 10/24/2022: Triticale, soft dough

Field name: 9--1 Crop: Triticale, soft dough Plant date: 10/24/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	136.37	47.89	311.04	1,339.47
Fresh water	0.00	0.00	0.00	5,301.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	143.37	47.89	311.04	6,641.32
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	196.29	32.72	239.91	836.43
Nutrient balance	-52.92	15.17	71.12	5,804.89
Applied to removed ratio	0.73	1.46	1.30	7.94

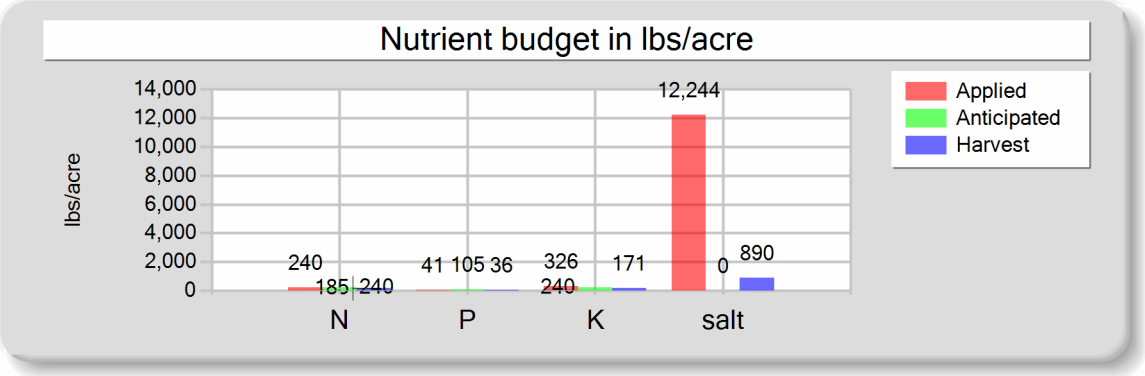
Fresh water applied	
22,412,032.00	*gallons*
825.36	*acre-inches*
11.96	*inches/acre*

Process wastewater applied	
3,735,338.00	*gallons*
137.56	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

9--1 - 07/04/2023: Corn, silage

Field name: 9--1 Crop: Corn, silage Plant date: 07/04/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	143.00	28.91	313.97	1,639.89
Fresh water	0.00	0.00	0.00	10,603.70
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	240.00	40.91	325.97	12,243.58
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	185.34	36.34	170.81	889.65
Nutrient balance	54.66	4.57	155.17	11,353.93
Applied to removed ratio	1.29	1.13	1.91	13.76

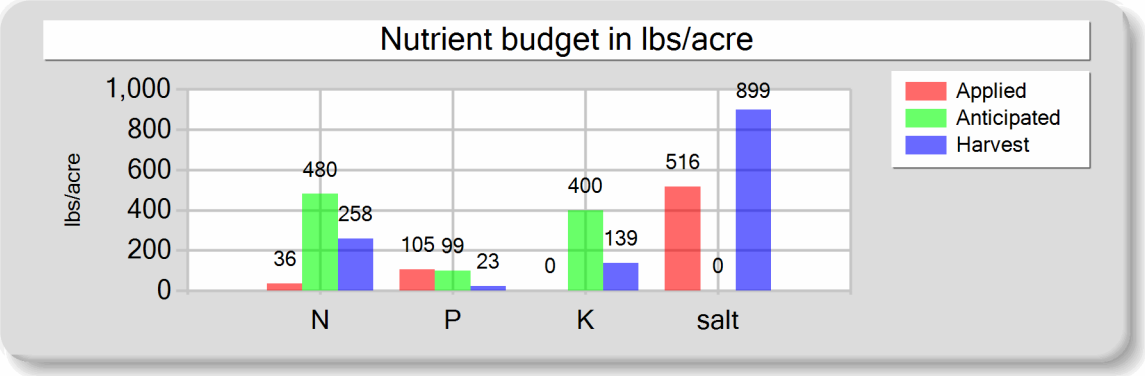
Fresh water applied	
44,824,064.00	*gallons*
1,650.72	*acre-inches*
23.92	*inches/acre*

Process wastewater applied	
3,735,338.00	*gallons*
137.56	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

9--2 - 01/01/2023: Alfalfa, hay

Field name: 9--2 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	105.00	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	0.00	0.00	0.00	515.96
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	105.00	0.00	515.96
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	258.12	22.78	138.55	899.47
Nutrient balance	-222.12	82.22	-138.55	-383.51
Applied to removed ratio	0.14	4.61	0.00	0.57

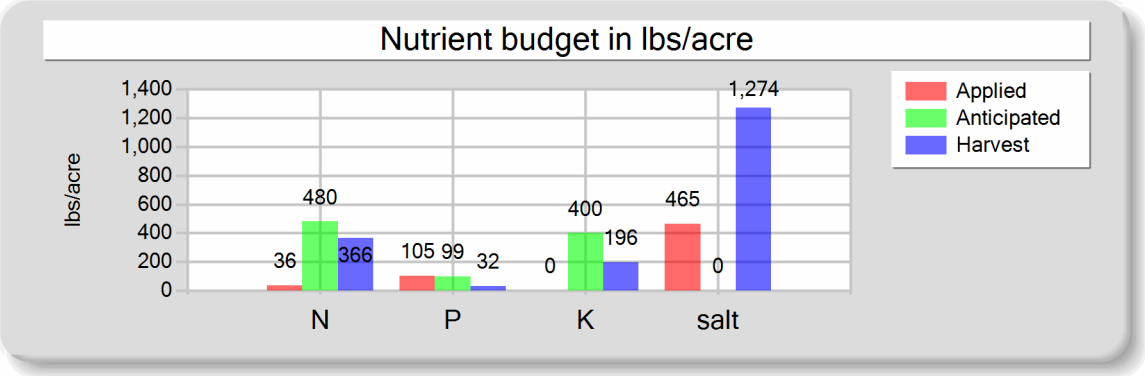
Fresh water applied	
35,558,487.00	*gallons*
1,309.50	*acre-inches*
26.72	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

9--3 - 01/01/2023: Alfalfa, hay

Field name: 9--3 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	105.00	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	0.00	0.00	0.00	464.72
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	36.00	105.00	0.00	464.72
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	365.60	32.26	196.24	1,274.00
Nutrient balance	-329.60	72.74	-196.24	-809.28
Applied to removed ratio	0.10	3.25	0.00	0.36

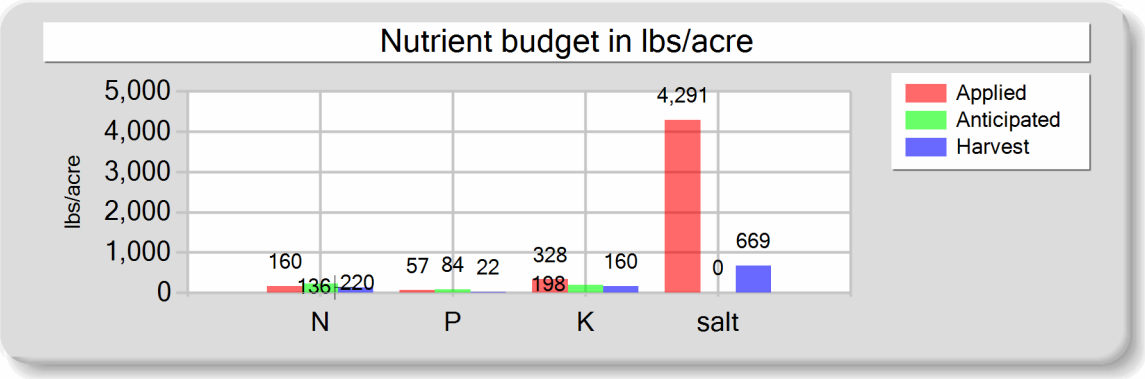
Fresh water applied	
44,446,080.00	*gallons*
1,636.80	*acre-inches*
24.07	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

R4-1 - 11/23/2022: Triticale, soft dough

Field name: R4-1 Crop: Triticale, soft dough Plant date: 11/23/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	152.64	57.24	328.37	1,397.31
Fresh water	0.00	0.00	0.00	2,893.78
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	159.64	57.24	328.37	4,291.08
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	135.73	21.89	159.81	669.44
Nutrient balance	23.92	35.35	168.56	3,621.64
Applied to removed ratio	1.18	2.61	2.05	6.41

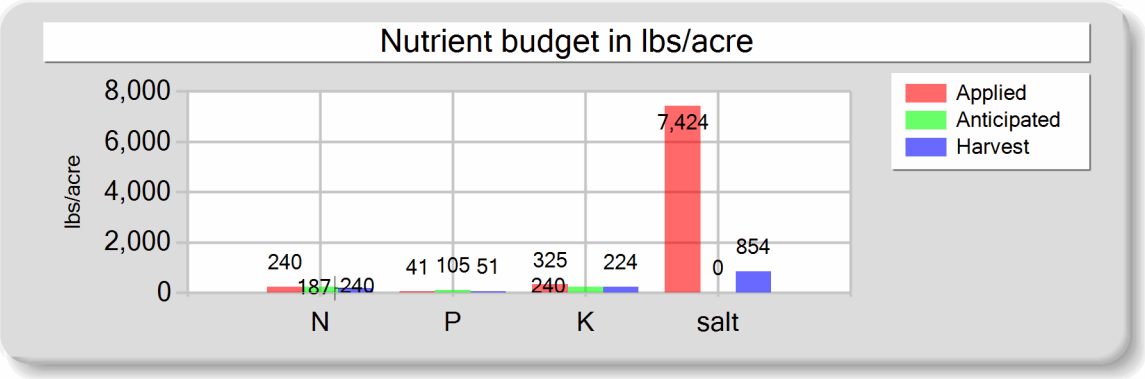
Fresh water applied	
11,342,872.00	*gallons*
417.72	*acre-inches*
11.93	*inches/acre*

Process wastewater applied	
1,890,478.00	*gallons*
69.62	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

R4-1 - 05/30/2023: Corn, silage

Field name: R4-1 Crop: Corn, silage Plant date: 05/30/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	142.68	28.85	313.27	1,636.20
Fresh water	0.00	0.00	0.00	5,787.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	239.68	40.85	325.27	7,423.76
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	186.70	51.34	224.04	853.67
Nutrient balance	52.99	-10.49	101.23	6,570.08
Applied to removed ratio	1.28	0.80	1.45	8.70

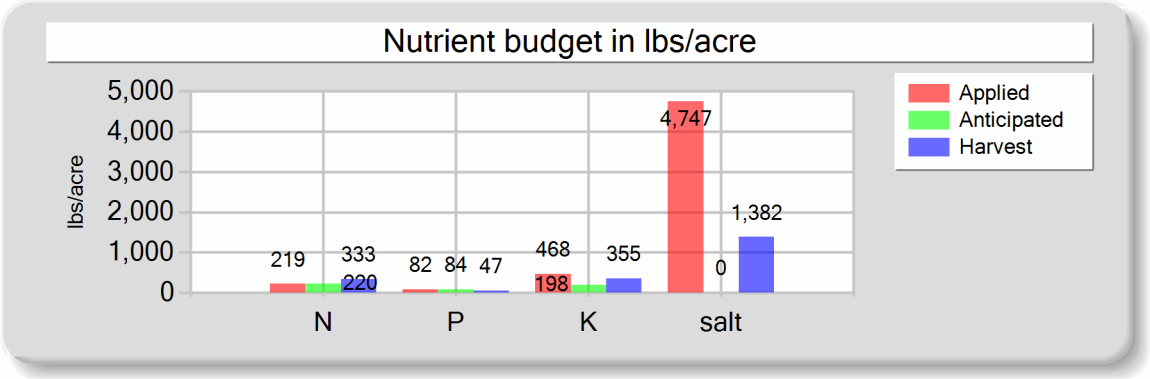
Fresh water applied	
22,685,744.00	*gallons*
835.44	*acre-inches*
23.87	*inches/acre*

Process wastewater applied	
1,890,478.00	*gallons*
69.62	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

R4-2 - 11/24/2022: Triticale, soft dough

Field name: R4-2 Crop: Triticale, soft dough Plant date: 11/24/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	212.02	82.06	467.95	1,867.75
Fresh water	0.00	0.00	0.00	2,878.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	219.02	82.06	467.95	4,746.74
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	333.13	46.57	354.62	1,382.03
Nutrient balance	-114.11	35.50	113.32	3,364.71
Applied to removed ratio	0.66	1.76	1.32	3.43

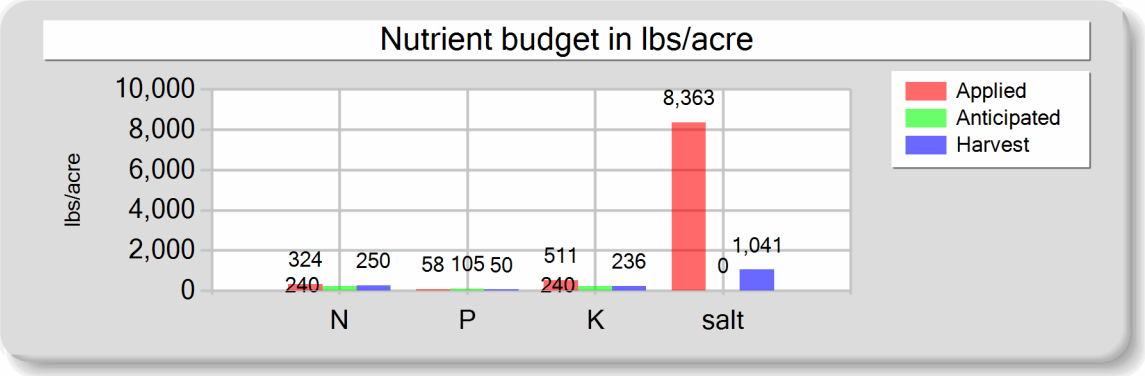
Fresh water applied	
12,574,592.00	*gallons*
463.08	*acre-inches*
11.87	*inches/acre*

Process wastewater applied	
3,143,649.00	*gallons*
115.77	*acre-inches*
2.97	*inches/acre*

Total harvests for the crop	
1	*harvests*

R4-2 - 05/31/2023: Corn, silage

Field name: R4-2 Crop: Corn, silage Plant date: 05/31/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	227.13	45.92	498.67	2,604.54
Fresh water	0.00	0.00	0.00	5,757.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	324.13	57.92	510.67	8,362.51
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	249.70	49.94	236.08	1,041.11
Nutrient balance	74.43	7.98	274.59	7,321.40
Applied to removed ratio	1.30	1.16	2.16	8.03

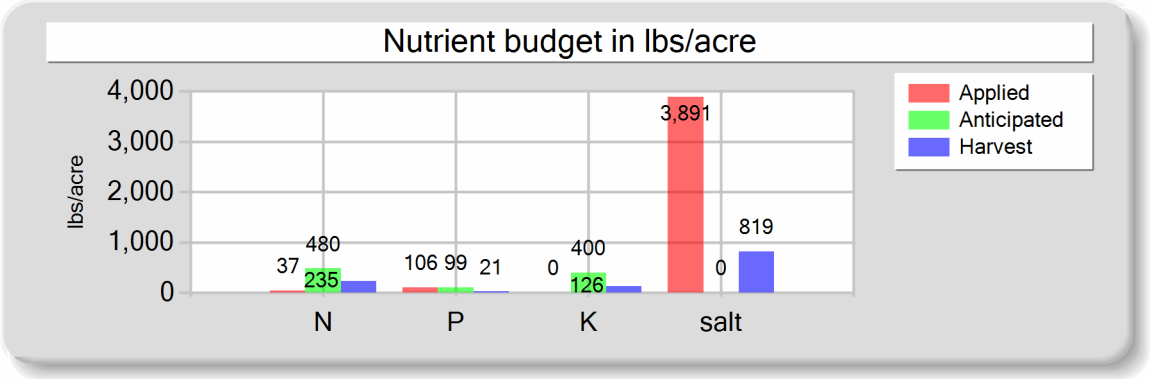
Fresh water applied	
25,149,184.00	*gallons*
926.16	*acre-inches*
23.75	*inches/acre*

Process wastewater applied	
3,353,224.00	*gallons*
123.49	*acre-inches*
3.17	*inches/acre*

Total harvests for the crop	
1	*harvests*

R4-3 - 01/01/2023: Alfalfa, hay

Field name: R4-3 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	106.00	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	1.10	0.00	0.00	3,891.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	37.10	106.00	0.00	3,891.00
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	235.04	20.74	126.16	819.02
Nutrient balance	-197.94	85.26	-126.16	3,071.98
Applied to removed ratio	0.16	5.11	0.00	4.75

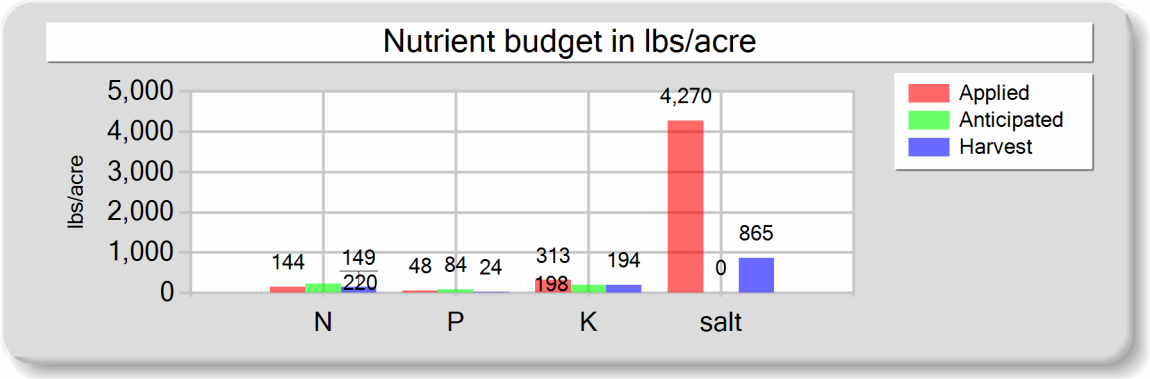
Fresh water applied	
25,611,888.00	*gallons*
943.20	*acre-inches*
24.18	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

R4-4 - 10/19/2022: Triticale, soft dough

Field name: R4-4 Crop: Triticale, soft dough Plant date: 10/19/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	137.34	48.22	313.23	1,348.92
Fresh water	0.00	0.00	0.00	2,920.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	144.34	48.22	313.23	4,269.68
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	148.56	24.31	194.47	864.73
Nutrient balance	-4.22	23.92	118.76	3,404.95
Applied to removed ratio	0.97	1.98	1.61	4.94

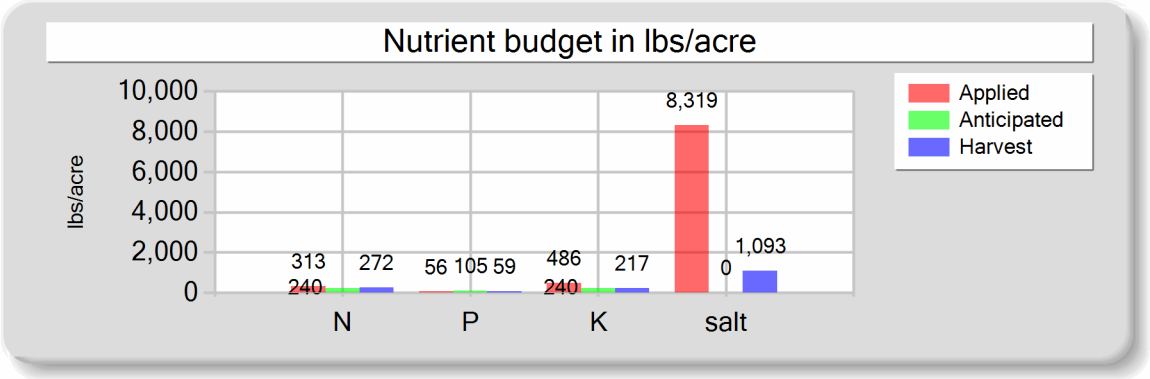
Fresh water applied	
12,757,068.00	*gallons*
469.80	*acre-inches*
12.05	*inches/acre*

Process wastewater applied	
2,126,178.00	*gallons*
78.30	*acre-inches*
2.01	*inches/acre*

Total harvests for the crop	
1	*harvests*

R4-4 - 06/06/2023: Corn, silage

Field name: R4-4 Crop: Corn, silage Plant date: 06/06/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	216.02	43.67	474.28	2,477.19
Fresh water	0.00	0.00	0.00	5,841.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	313.02	55.67	486.28	8,318.72
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	271.56	59.25	217.25	1,093.30
Nutrient balance	41.46	-3.57	269.04	7,225.42
Applied to removed ratio	1.15	0.94	2.24	7.61

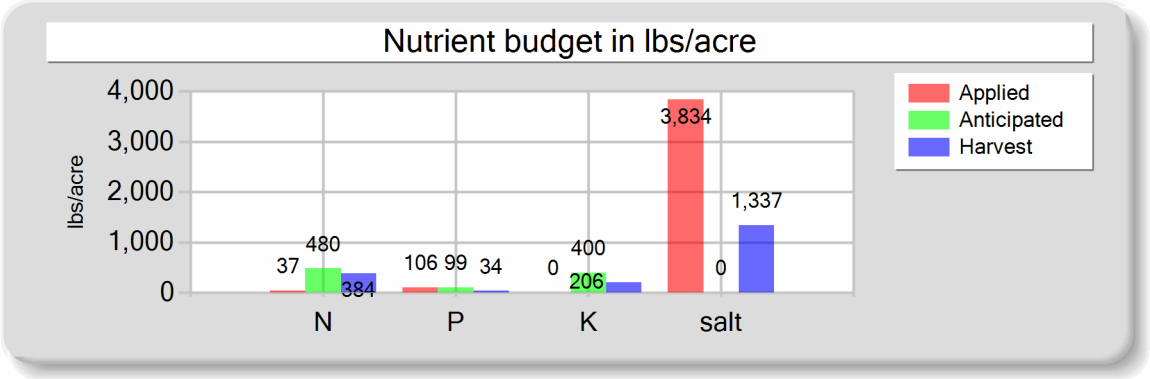
Fresh water applied	
25,514,136.00	*gallons*
939.60	*acre-inches*
24.09	*inches/acre*

Process wastewater applied	
3,189,267.00	*gallons*
117.45	*acre-inches*
3.01	*inches/acre*

Total harvests for the crop	
1	*harvests*

R4-5 - 01/01/2023: Alfalfa, hay

Field name: R4-5 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	22.00	106.00	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	1.08	0.00	0.00	3,834.21
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	37.08	106.00	0.00	3,834.21
Anticipated crop nutrient removal	480.00	99.20	400.00	0.00
Actual crop nutrient removal	383.66	33.85	205.94	1,336.94
Nutrient balance	-346.58	72.15	-205.94	2,497.27
Applied to removed ratio	0.10	3.13	0.00	2.87

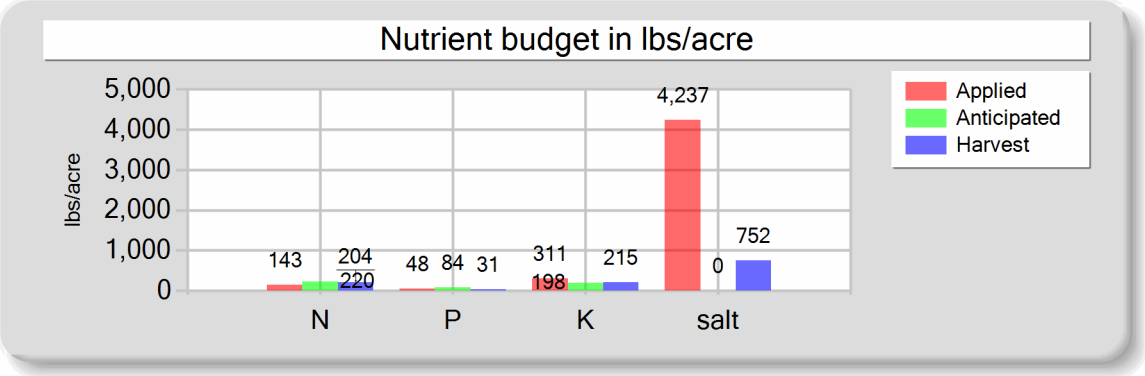
Fresh water applied	
36,886,336.00	*gallons*
1,358.40	*acre-inches*
23.83	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

R4-6 - 10/24/2022: Triticale, soft dough

Field name: R4-6 Crop: Triticale, soft dough Plant date: 10/24/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	136.28	47.85	310.83	1,338.58
Fresh water	0.00	0.00	0.00	2,898.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	143.28	47.85	310.83	4,236.97
Anticipated crop nutrient removal	220.00	83.60	198.00	0.00
Actual crop nutrient removal	203.61	30.68	214.77	751.70
Nutrient balance	-60.33	17.17	96.06	3,485.27
Applied to removed ratio	0.70	1.56	1.45	5.64

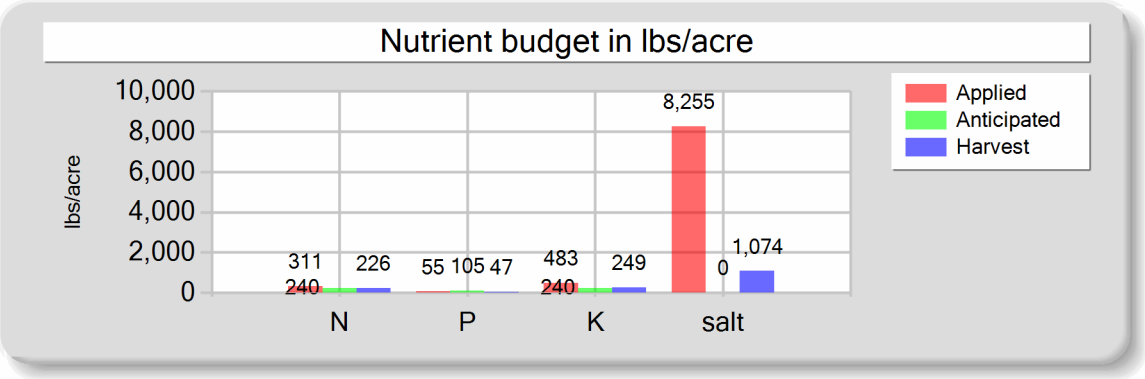
Fresh water applied	
12,659,312.00	*gallons*
466.20	*acre-inches*
11.95	*inches/acre*

Process wastewater applied	
2,109,886.00	*gallons*
77.70	*acre-inches*
1.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

R4-6 - 05/29/2023: Corn, silage

Field name: R4-6 Crop: Corn, silage Plant date: 05/29/2023



	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	90.00	12.00	12.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	214.37	43.34	470.65	2,458.21
Fresh water	0.00	0.00	0.00	5,796.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	311.37	55.34	482.65	8,254.97
Anticipated crop nutrient removal	240.00	105.00	240.00	0.00
Actual crop nutrient removal	225.75	47.03	249.26	1,074.14
Nutrient balance	85.62	8.31	233.39	7,180.84
Applied to removed ratio	1.38	1.18	1.94	7.69

Fresh water applied	
25,318,624.00	*gallons*
932.40	*acre-inches*
23.91	*inches/acre*

Process wastewater applied	
3,164,829.00	*gallons*
116.55	*acre-inches*
2.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

Spring Manure - 23F0855

Sample and source description: Spring Manure - 23F0855

Sample date: 06/07/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 35.4 %

	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	8,300.00	2,100.00	4,400.00							
DL	100.00	100.00	30.00							

Fall Manure - 23L0536

Sample and source description: Fall Manure - 23L0536

Sample date: 12/11/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 38.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,400.00	4,300.00	15,600.00							
DL	100.00	100.00	30.00							

B. PROCESS WASTEWATER ANALYSES

2022 4th Qtr - 22J0771

Sample and source description: 2022 4th Qtr - 22J0771

Sample date: 10/10/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.60

	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 (µmhos/cm)	TDS (mg/L)
Value	261.00	211.00	0.00	0.90	58.00	667.00								7,870.00	3,530
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

2023 1st Qtr - 23C0556

Sample and source description: 2023 1st Qtr - 23C0556

Sample date: 03/15/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	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 (µmhos/cm)	TDS (mg/L)
Value	341.00	213.00	0.00	0.85	154.00	710.00								7,710.00	2,400
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

2023 2nd Qtr - 23F1907

Sample and source description: 2023 2nd Qtr - 23F1907

Sample date: 06/20/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.30

	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 (µmhos/cm)	TDS (mg/L)
Value	335.00	212.00	0.00	0.45	100.00	747.00								9,750.00	3,800
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

2023 3rd Qtr - 23H1833

Sample and source description: 2023 3rd Qtr - 23H1833

Sample date: 08/21/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.70

	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 (µmhos/cm)	TDS (mg/L)
Value	316.00	250.00	0.00	0.55	64.00	695.00								8,230.00	3,630
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

2023 4th Qtr - 23L0535

Sample and source description: 2023 4th Qtr - 23L0535

Sample date: 12/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.10

	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 (µmhos/cm)	TDS (mg/L)
Value	428.00	298.00	0.00	0.75	107.00	776.00								9,210.00	4,050
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

C. FRESH WATER ANALYSES

DW 3N

23H2100

Sample description: 23H2100

Sample date: 08/24/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								289.00	
DL		0.01	0.01								1.00	

DW 3S

23H2100

Sample description: 23H2100

Sample date: 08/24/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								455.00	
DL		0.01	0.01								1.00	

IW 1

22C1354

Sample description: 22C1354

Sample date: 03/29/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								204.00	
DL		0.01	0.01								1.00	

IW 10-4

23H1832

Sample description: 23H1832

Sample date: 08/21/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								142.00	
DL		0.01	0.01								1.00	

IW 15

23I1062

Sample description: 23I1062

Sample date: 09/15/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								192.00	
DL		0.01	0.01								1.00	

IW 16

23H1832

Sample description: 23H1832

Sample date: 08/21/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								1,390.00	
DL		0.01	0.01								1.00	

IW 19

IW 19

23I1062

Sample description: 23I1062

Sample date: 09/15/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								387.00	
DL		0.01	0.01								1.00	

IW 20

23H2099

Sample description: 23H2099

Sample date: 08/24/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00	4.50	1.00	4.00	23.10	0.00	1.10	0.90	51.40	43
DL		0.01	0.01	0.05	0.40	0.10	3.00	0.90	0.01	0.03	1.00	10

IW 3

22C1401

Sample description: 22C1401

Sample date: 03/30/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.60								112.00	
DL		0.01	0.01								1.00	

IW 4-4E

IW 4-4E

23H1834

Sample description: 23H1834

Sample date: 08/21/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.40	4.40	1.00	4.00	18.80	0.00	1.40	0.90	43.00	42
DL		0.01	0.01	0.05	0.40	0.10	3.00	0.90	0.01	0.03	1.00	10

IW 5

22C1354

Sample description: 22C1354

Sample date: 03/29/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								249.00	
DL		0.01	0.01								1.00	

IW 5-1

23H2014

Sample description: 23H2014

Sample date: 08/23/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00	4.80	0.60	239.00	169.00	6.00	60.40	218.00	1,170.00	630
DL		0.01	0.01	0.05	0.40	0.10	3.00	0.90	0.01	0.03	1.00	10

IW 5-2E

IW 5-2E

23H1832

Sample description: 23H1832

Sample date: 08/21/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								4,030.00	
DL		0.01	0.01								1.00	

IW 5-4E

23H1832

Sample description: 23H1832

Sample date: 08/21/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								2,300.00	
DL		0.01	0.01								1.00	

IW 5-4W

23H1832

Sample description: 23H1832

Sample date: 08/21/1932 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								2,010.00	
DL		0.01	0.01								1.00	

IW 8-4

IW 8-4

22C1354

Sample description: 22C1354

Sample date: 03/29/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								3,260.00	
DL		0.01	0.01								1.00	

IW SF 11

23H1832

Sample description: 23H1832

Sample date: 08/21/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								468.00	
DL		0.01	0.01								1.00	

IW SF 12N

23H1834

Sample description: 23H1834

Sample date: 08/21/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.20	4.50	0.60	230.00	175.00	5.00	56.60	215.00	1,120.00	710
DL		0.01	0.01	0.05	0.40	0.10	3.00	0.90	0.01	0.03	1.00	10

IW SF 12S

IW SF 12S

23I0726

Sample description: 23I0726

Sample date: 09/11/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00	14.00	1.30	379.00	205.00	1.00	83.00	407.00	1,900.00	1,070
DL		0.01	0.01	0.05	0.40	0.10	3.00	0.90	0.01	0.03	1.00	10

IW SF 16

23H1832

Sample description: 23H1832

Sample date: 08/21/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								1,680.00	
DL		0.01	0.01								1.00	

D. SOIL ANALYSES

10--1W

23K0191

Sample and source description: 23K0191

Sample date: 11/03/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			39.00				
DL			1.10				

10--3E

23J1693

Sample and source description: 23J1693

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			39.00				
DL			1.10				

11

23E1967

Sample and source description: 23E1967

Sample date: 05/23/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			44.00				
DL			1.10				

12

23E1967

Sample and source description: 23E1967

Sample date: 05/23/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			93.00				
DL			1.10				

2D

2D

23E1967

Sample and source description: 23E1967

Sample date: 05/23/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			33.00				
DL			1.10				

2E

23E1967

Sample and source description: 23E1967

Sample date: 05/23/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			30.00				
DL			1.10				

2F

23E1967

Sample and source description: 23E1967

Sample date: 05/23/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			33.00				
DL			1.10				

3--1

3--1

23K0191

Sample and source description: 23K0191

Sample date: 11/03/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			93.00				
DL			1.10				

3A

23E1967

Sample and source description: 23E1967

Sample date: 05/23/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			48.00				
DL			1.10				

3B

23K0191

Sample and source description: 23K0191

Sample date: 11/03/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			13.00				
DL			1.10				

4--2E

4--2E

23J1703

Sample and source description: 23J1703

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			64.00				
DL			1.10				

4--3W

23J1693

Sample and source description: 23J1693

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			60.00				
DL			1.10				

4--4W

23E2047

Sample and source description: 23E2047

Sample date: 05/24/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			41.00				
DL			1.10				

5--1

5--1

23E2102

Sample and source description: 23E2102

Sample date: 05/24/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			30.00				
DL			1.10				

8--1

23E2047

Sample and source description: 23E2047

Sample date: 05/24/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			61.00				
DL			1.10				

8--3

23J1693

Sample and source description: 23J1693

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			61.00				
DL			1.10				

8--4

8--4

23K0191

Sample and source description: 23K0191

Sample date: 11/03/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			42.00				
DL			1.10				

9--1

23J1703

Sample and source description: 23J1703

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			41.00				
DL			1.10				

R4-1

23E2101

Sample and source description: 23E2101

Sample date: 05/24/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			72.00				
DL			1.10				

R4-4

R4-4

23K0191

Sample and source description: 23K0191

Sample date: 11/03/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			60.00				
DL			1.10				

R4-6

23K0191

Sample and source description: 23K0191

Sample date: 11/03/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			71.00				
DL			1.10				

E. PLANT TISSUE ANALYSES

10--1E - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

10--1W - 01/01/2023: Alfalfa, hay

10--1W - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

10--2E - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

10--2W - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

10--3E - 11/05/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 60.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	900.00	5,300.00		10.20
DL	100.00	100.00	30.00		0.01

10--3E - 06/19/2023: Corn, silage

23J1093

Sample and source description: 23J1093

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	1,100.00	4,600.00		5.90
DL	100.00	100.00	30.00		0.01

10--3W - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

10--4 - 10/26/2022: Triticale, soft dough

Triticale Average

Sample and source description: Triticale Average

Sample date: 05/06/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,900.00	900.00	6,800.00		9.50
DL	100.00	100.00	30.00		0.01

10--4 - 06/14/2023: Corn, silage

23J1093

Sample and source description: 23J1093

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 58.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	900.00	4,900.00		3.40
DL	100.00	100.00	30.00		0.01

11 - 11/04/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 73.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,700.00	900.00	7,700.00		5.00
DL	100.00	100.00	30.00		0.01

11 - 05/18/2023: Corn, silage

Corn Average

Sample and source description: Corn Average

Sample date: 10/02/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	1,000.00	4,700.00		6.80
DL	100.00	100.00	30.00		0.01

12 - 10/13/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,300.00	1,100.00	7,900.00		8.20
DL	100.00	100.00	30.00		0.01

12 - 05/22/2023: Corn, silage

Corn Average

Sample and source description: Corn Average

Sample date: 10/02/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	1,000.00	4,700.00		6.80
DL	100.00	100.00	30.00		0.01

15 - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

16 - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

17 - 11/28/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	900.00	6,300.00		8.00
DL	100.00	100.00	30.00		0.01

17 - 06/02/2023: Corn, silage

23I1841

Sample and source description: 23I1841

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	700.00	2,700.00		5.20
DL	100.00	100.00	30.00		0.01

2A - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

2B - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

2C - 11/26/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 55.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,200.00	1,000.00	7,200.00		8.10
DL	100.00	100.00	30.00		0.01

2C - 06/05/2023: Corn, silage

23I1841

Sample and source description: 23I1841

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	900.00	3,000.00		6.20
DL	100.00	100.00	30.00		0.01

2D - 10/27/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	1,000.00	6,000.00		10.00
DL	100.00	100.00	30.00		0.01

2D - 06/03/2023: Corn, silage

23I1841

Sample and source description: 23I1841

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 63.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	1,000.00	3,200.00		6.50
DL	100.00	100.00	30.00		0.01

2E - 10/31/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	700.00	5,300.00		9.90
DL	100.00	100.00	30.00		0.01

2E - 06/06/2023: Corn, silage

23I1841

Sample and source description: 23I1841

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,800.00	900.00	2,800.00		5.10
DL	100.00	100.00	30.00		0.01

2F - 10/15/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	900.00	6,900.00		8.40
DL	100.00	100.00	30.00		0.01

2F - 05/24/2023: Corn, silage

23I1141

Sample and source description: 23I1141

Sample date: 08/30/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,700.00	700.00	4,600.00		7.60
DL	100.00	100.00	30.00		0.01

3--1 - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

3A - 10/28/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,900.00	1,000.00	6,800.00		10.90
DL	100.00	100.00	30.00		0.01

3A - 06/09/2023: Corn, silage

23J1093

Sample and source description: 23J1093

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 59.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,200.00	1,100.00	4,200.00		5.90
DL	100.00	100.00	30.00		0.01

3B - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

3C - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

3E - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

3F - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

4--2E - 10/29/2022: Triticale, soft dough

Triticale Average

Sample and source description: Triticale Average

Sample date: 05/06/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,900.00	900.00	9,800.00		9.50
DL	100.00	100.00	30.00		0.01

4--3E - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

4--3W - 10/29/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 63.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,400.00	1,200.00	7,600.00		9.60
DL	100.00	100.00	30.00		0.01

4--3W - 06/20/2023: Corn, silage

23J1093

Sample and source description: 23J1093

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 54.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	1,200.00	5,100.00		4.50
DL	100.00	100.00	30.00		0.01

4--4E - 10/29/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	1,200.00	7,200.00		10.30
DL	100.00	100.00	30.00		0.01

4--4E - 06/08/2023: Corn, silage

23J10936

Sample and source description: 23J10936

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	1,000.00	4,400.00		6.10
DL	100.00	100.00	30.00		0.01

4--4W - 10/29/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	900.00	6,100.00		10.40
DL	100.00	100.00	30.00		0.01

4--4W - 06/07/2023: Corn, silage

23I1841

Sample and source description: 23I1841

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	800.00	4,000.00		5.80
DL	100.00	100.00	30.00		0.01

5--1 - 11/23/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,400.00	900.00	7,800.00		7.80
DL	100.00	100.00	30.00		0.01

5--1 - 05/20/2023: Corn, silage

Corn Average

Sample and source description: Corn Average

Sample date: 10/02/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	1,000.00	4,700.00		6.80
DL	100.00	100.00	30.00		0.01

5--2E - 11/26/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 57.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,400.00	1,100.00	7,400.00		7.30
DL	100.00	100.00	30.00		0.01

5--2E - 06/16/2023: Corn, silage

23J1093

Sample and source description: 23J1093

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	1,000.00	500.00		6.00
DL	100.00	100.00	30.00		0.01

5--2W - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

5--3E - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

5--4W - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

5A - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

8--1 - 10/20/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,500.00	1,000.00	7,300.00		6.20
DL	100.00	100.00	30.00		0.01

8--1 - 05/26/2023: Corn, silage

23I1141

Sample and source description: 23I1141

Sample date: 08/30/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	1,100.00	5,300.00		6.00
DL	100.00	100.00	30.00		0.01

8--2 - 11/05/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,900.00	1,000.00	6,600.00		10.70
DL	100.00	100.00	30.00		0.01

8--2 - 06/12/2023: Corn, silage

23J1093

Sample and source description: 23J1093

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 59.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	1,100.00	5,400.00		6.20
DL	100.00	100.00	30.00		0.01

8--3 - 10/14/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	800.00	5,700.00		6.80
DL	100.00	100.00	30.00		0.01

8--3 - 06/21/2023: Corn, silage

23J1093

Sample and source description: 23J1093

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	800.00	4,000.00		4.70
DL	100.00	100.00	30.00		0.01

8--4 - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

9--1 - 10/24/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,400.00	900.00	6,600.00		6.50
DL	100.00	100.00	30.00		0.01

9--1 - 07/04/2023: Corn, silage

Corn Average

Sample and source description: Corn Average

Sample date: 10/02/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	1,000.00	4,700.00		6.80
DL	100.00	100.00	30.00		0.01

9--2 - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

9--3 - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

R4-1 - 11/23/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	1,000.00	7,300.00		11.00
DL	100.00	100.00	30.00		0.01

R4-1 - 05/30/2023: Corn, silage

23I1141

Sample and source description: 23I1141

Sample date: 08/30/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	1,100.00	4,800.00		6.20
DL	100.00	100.00	30.00		0.01

R4-2 - 11/24/2022: Triticale, soft dough

23F1125

Sample and source description: 23F1125

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,300.00	1,300.00	9,900.00		10.10
DL	100.00	100.00	30.00		0.01

R4-2 - 05/31/2023: Corn, silage

23I1841

Sample and source description: 23I1841

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	1,100.00	5,200.00		6.30
DL	100.00	100.00	30.00		0.01

R4-3 - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

R4-4 - 10/19/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	900.00	7,200.00		9.50
DL	100.00	100.00	30.00		0.01

R4-4 - 06/06/2023: Corn, silage

23I1841

Sample and source description: 23I1841

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 63.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	1,200.00	4,400.00		6.10
DL	100.00	100.00	30.00		0.01

R4-5 - 01/01/2023: Alfalfa, hay

Alfalfa Average

Sample and source description: Alfalfa Average

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	1,200.00	7,300.00		14.95
DL	100.00	100.00	30.00		0.01

R4-6 - 10/24/2022: Triticale, soft dough

23E0656

Sample and source description: 23E0656

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,300.00	1,100.00	7,700.00		7.00
DL	100.00	100.00	30.00		0.01

R4-6 - 05/29/2023: Corn, silage

23I1141

Sample and source description: 23I1141

Sample date: 08/30/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	1,000.00	5,300.00		6.90
DL	100.00	100.00	30.00		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

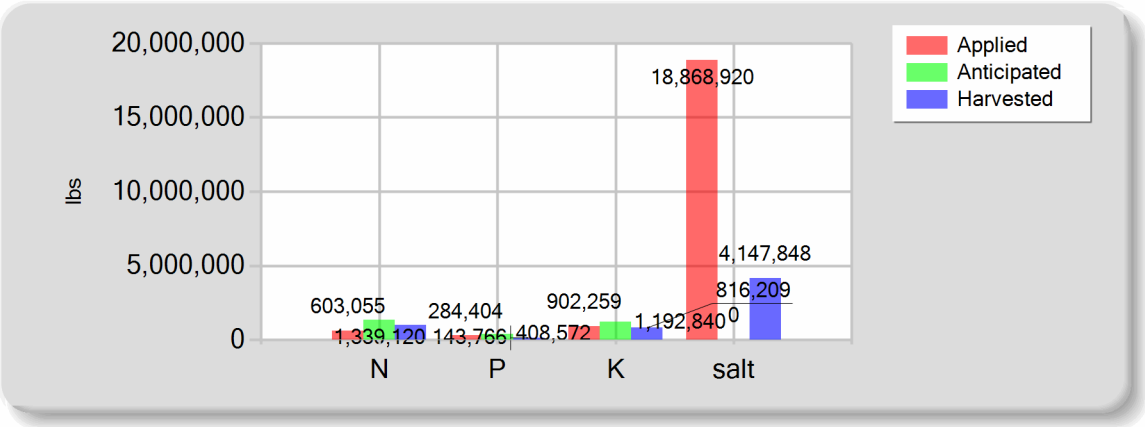
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

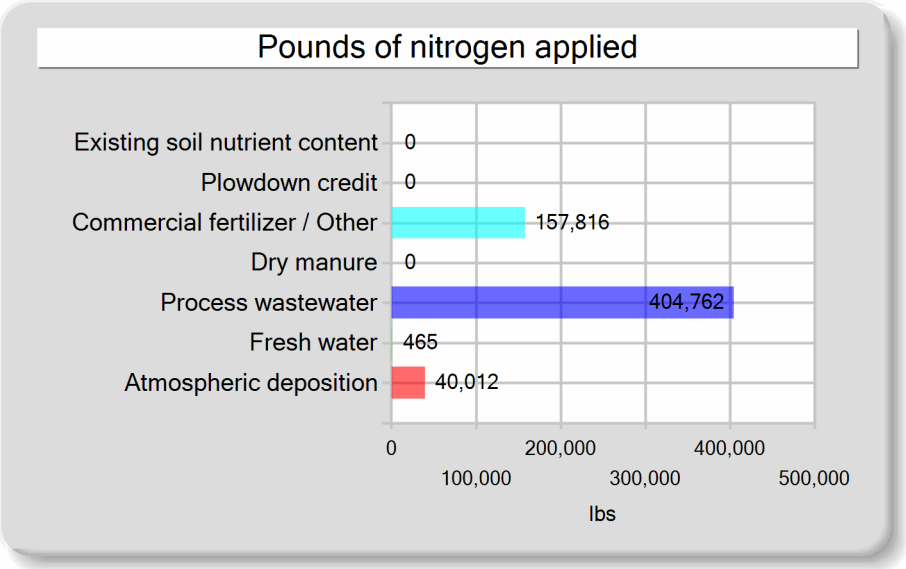
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

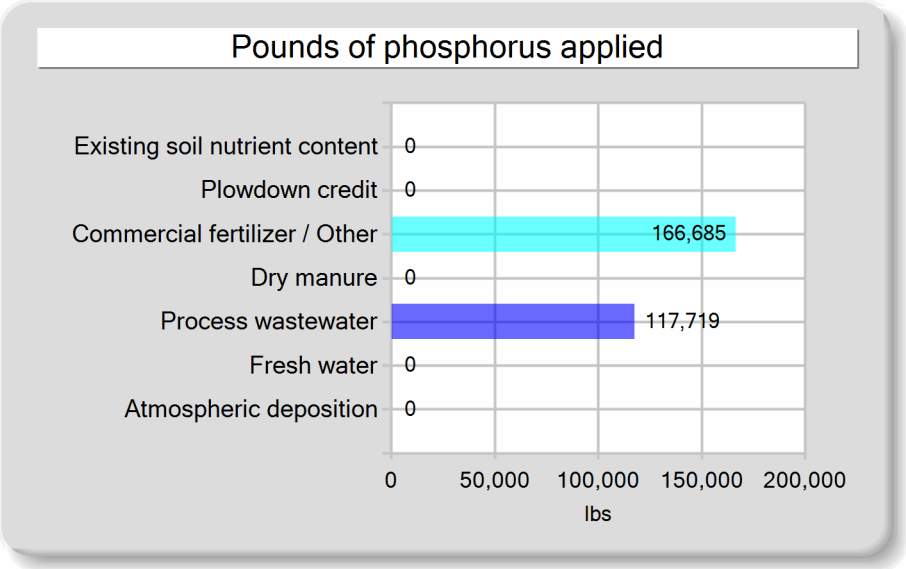
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	157,816.00	166,685.00	16,824.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	404,762.47	117,718.84	885,435.35	4,129,571.15
Fresh water	464.52	0.00	0.00	14,739,349.25
Atmospheric deposition	40,012.00	0.00	0.00	0.00
Total nutrients applied	603,054.99	284,403.84	902,259.35	18,868,920.40
Anticipated crop nutrient removal	1,339,120.00	408,571.60	1,192,840.00	0.00
Actual crop nutrient removal	1,012,228.94	143,766.42	816,209.34	4,147,847.65
Nutrient balance	-409,173.95	140,637.42	86,050.01	14,721,072.75
Applied to removed ratio	0.60	1.98	1.11	4.55

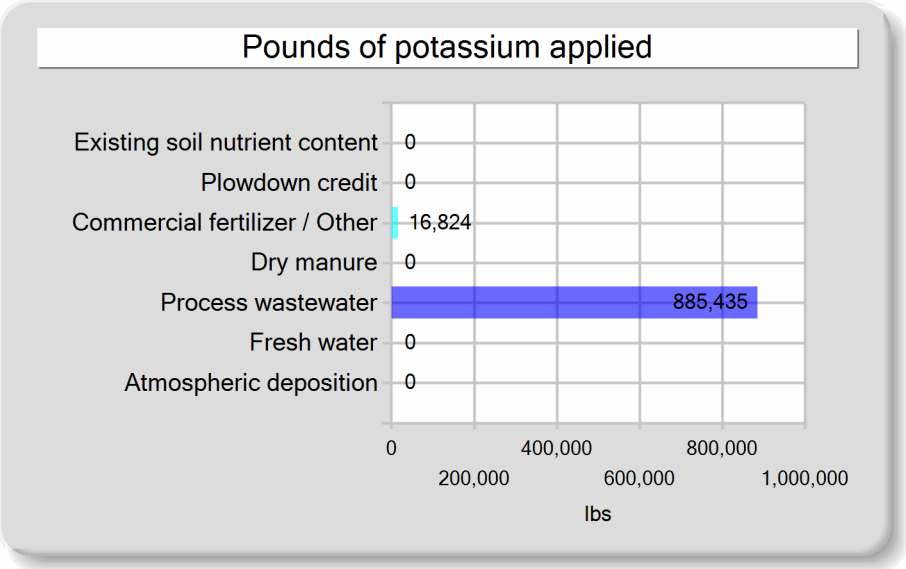
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

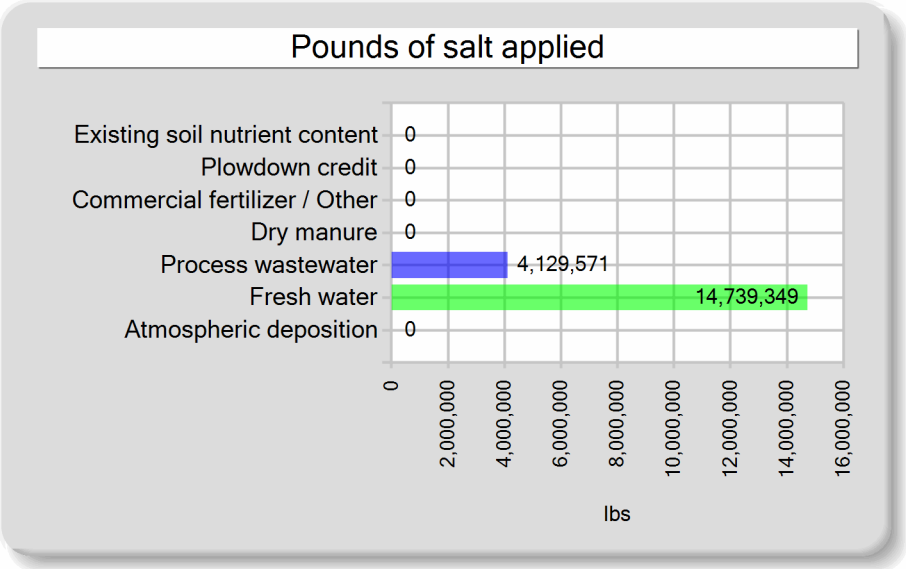


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period?	No

ADDITIONAL NOTES

A. NOTES

All data entered in this 2023 Annual Report is correct as submitted by the owner/operator and has been confirmed by the owner/operator to be accurate.

The whole farm balance for the 2023 crop year was below the 1.65 limit with a ratio of 0.60.

Nearly all of the alfalfa fields included in this Annual Report appear to be under fertilized . However, alfalfa fixes its own nitrogen and nitrogen sources are not necessary to be applied on a regular basis. Low ratios on alfalfa fields are not an indicator of under fertilized crops or crop failure.

During the winter forage, all fields had applied/removed ratios below the 1.65 limit.

During the summer forage, all field had applied/removed ratios below the 1.65 limit.

Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

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.

Stephen J Shehadey	Stephen J Shehadey
SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Steve Shehadey	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
6/27/2024	6/27/2024
DATE	DATE

ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted .

Annual Dairy Facility Assessment
Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFA Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed .

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

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

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.

Manure Tracking Manifest

1910 W. McKinley, Suite 110 Fresno CA 93728-1298 (559) 233-6129

No imports or exports of manure were reported during the time period.

Corrective Actions Documents

No corrective actions were reported during the time period.

Digestor Sump Monitoring

1910 W. McKinley, Suite 110 Fresno CA 93728-1298 (559) 233-6129

CALIFORNIA BIOENERGY
Helping dairies fuel a renewable future

Bar 20 Dairy Biogas
Sump Monitoring Summary Sheet

Instructions: The Monitoring Summary Sheet is to keep a running summary of the field findings
If reading is above the allowed height, contact engineer immediately
May propose reduction in monitoring frequency if 6 continuous monthly monitoring don't exceed 6.8 gal/day seepage

		Max Gal (1232)		Max Vol (90%)	Max Gal (327)	
TEST #	**DATE**	**LCRS (gal)**	**LCRS SEEPAGE (gal/day)**	**LCRS Approx. Volume**	**LYSIMETER (gal)**	**LYSIMETER SEEPAGE (gal/day)**
1	11/10/21	0	0	0.0%	0	0
2	12/16/21	20	0.56	1.5%	10	0.28
3	1/28/22	68	1.58	5.0%	55	1.28
4	3/3/22	65	1.91	4.8%	50	1.47
5	4/21/22	102.5	2.09	7.5%	15	0.31
6	5/10/22	156	8.21	11.4%	250	13.16
7	5/31/22	217	10.33	15.9%	0	0.00
8	6/29/22	131	4.52	9.6%	96	3.31
9	8/2/22	125	3.68	9.1%	0	0.00
10	8/25/22	109	4.74	8.0%	180	7.83
11	10/6/22	136	3.24	9.9%	36	0.86
12	11/2/22	82	3.04	6.0%	5	0.19
13	12/6/22	0	0.00	0.0%	160	4.71
14	1/17/23	67	1.60	4.9%	65	1.55
15	2/13/23	46	1.70	3.4%	0	0.00
16	3/29/23	60	1.36	4.4%	0	0.00
17	5/9/23	240	5.85	17.5%	22	0.54
18	6/16/23	190	5.00	13.9%	10	0.26
19	7/20/23	340	10.00	24.9%	50	1.47
20	8/15/23	260	10.00	19.0%	40	1.54
21	8/30/23	219	14.60	16.0%	51	3.40
22	10/5/23	200	5.56	14.6%	35	0.97
23	11/3/23	782	26.97	57.2%	80	2.76
24	12/7/23	338	9.94	24.7%	18	0.53
30			0.00	0.0%		0.00
31			#DIV/0!	0.0%		#DIV/0!
32			#DIV/0!	0.0%		#DIV/0!
33			#DIV/0!	0.0%		#DIV/0!
34			#DIV/0!	0.0%		#DIV/0!
35			#DIV/0!	0.0%		#DIV/0!
36			#DIV/0!	0.0%		#DIV/0!
37			#DIV/0!	0.0%		#DIV/0!
38			#DIV/0!	0.0%		#DIV/0!
39			#DIV/0!	0.0%		#DIV/0!
40			#DIV/0!	0.0%		#DIV/0!
41			#DIV/0!	0.0%		#DIV/0!
42			#DIV/0!	0.0%		#DIV/0!
43			#DIV/0!	0.0%		#DIV/0!

Well Monitoring

2023 Well Water Summary

Bar 20 Dairy LLC: Shehadey Farms

Well/Canal Name	Sample Name	Date	Lab	EC	EC	NO_3-N	Field NH_4-N	Total NH_4-N	TDS	CO_3 as $CaCO_3$	HCO_3 as $CaCO_3$	Cl	SO_4	Ca	Mg	Na	pH at 25°C
			analysis	EC	EC	NO_3-N	Field NH_4-N	Total NH_4-N	TDS	CO_3 as $CaCO_3$	HCO_3 as $CaCO_3$	Cl	SO_4	Ca	Mg	Na	pH at 25°C
			units	µmhos/cm	mmhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
			DL	1	0.001	0.01		0.2	10	0.9	3	0.03	0.01	0.05	0.4	0.1	
	IW 1	3/29/22	22C1354	204	0.20	ND	ND										
	IW 5	3/29/22	22C1354	249	0.25	ND	ND										
	IW 8-4	3/29/22	22C1354	3260	3.26	ND	0.25	ND									
	IW 3	3/30/22	22C1401	112	0.11	0.6	ND										
	IW 5-2E	8/21/23	23H1832	4030	4.03	ND	0.5	ND									8.2
	IW 5-4E	8/21/23	23H1832	2300	2.30	ND	0.5	ND									8.3
	IW 5-4W	8/21/23	23H1832	2010	2.01	ND	ND										8.4
	IW SF 13	8/21/23	23H1832	677	0.68	ND	ND										8.7
	IW 10-4	8/21/23	23H1832	142	0.14	ND	ND										8.5
	IW 16	8/21/23	23H1832	1390	1.39	ND	ND										8.6
	IW 18	8/21/23	23H1832	901	0.90	ND	ND										8.7
	IW SF 16	8/21/23	23H1832	1680	1.68	ND	0.25	ND									8.4
	IW SF 11	8/21/23	23H1832	468	0.47	ND	ND										8.6
	IW SF 12N	8/21/23	23H1834	1120	1.12	0.2	ND		710	5	175	215	56.6	4.5	0.6	230	8.6
	IW 4-4E	8/21/23	23H1834	43	0.04	0.4	ND		42	ND	18.8	0.9	1.4	4.4	1	4	6.8
	IW 7-1S	8/23/23	23H2011	4420	4.42	ND	ND										7.9
	IW 7-2N	8/23/23	23H2011	3210	3.21	ND	ND										8.1
	IW 7-3N	8/23/23	23H2011	2190	2.19	ND	ND										8.1
	IW 7-4N	8/23/23	23H2011	1780	1.78	ND	ND										8.4
	IW 6-1E	8/23/23	23H2011	3190	3.19	ND	0.25	ND									8.0
	IW 6-1W	8/23/23	23H2011	3880	3.88	ND	0.25	ND									8.1
	IW 5-1	8/23/23	23H2014	1170	1.17	ND	ND		630	6	169	218	60.4	4.8	0.6	239	8.5
	IW 20	8/24/23	23H2099	51	0.05	ND	ND		43	ND	23.1	0.9	1.1	4.5	1	4	7.0
	DW3N	8/24/23	23H2100	289	0.29	ND	ND										8.9
	DW3S	8/24/23	23H2100	455	0.45	ND	ND										8.8
	IW-19 (6C)	8/24/23	23H2100	846	0.85	0.1	ND										8.5
	IW-15W	8/24/23	23H2100	780	0.78	ND	ND										8.6
	IW-20	8/24/23	23H2100	958	0.96	0.1	ND										8.6
	IW-16	8/24/23	23H2100	1480	1.48	ND	ND										8.5
	IW SF 12S	9/11/23	23I0726	1900	1.90	ND	ND		1070	1	205	407	83	14.0	1.3	379	8.3
	IW 14	9/11/23	23I0727	401	0.4	ND	ND										8.9
	IW 15	9/15/23	23I1062	192	0.19	ND	ND										9.1
	IW 19	9/15/23	23I1062	387	0.39	ND	ND										9.0

03/29/22 12:26 22C1354

MM

WATER WORK REQUEST

Acct No. Cons.

Bill To: 203 08

Purchase Order No. Results Needed By

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to:

Requested by/Cell: Sal Rodriguez 567-8928

Facility:

Date sampled: 3-29-22

Sampled by: AV/CD

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 21 No. Bottles 21

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other

Analysis and Bottles Required: *(Please Indicate Analysis)*

☑ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other

DESCRIPTION OF SAMPLES

				Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1	1.	1	Sampled From:	3/29/22	9:34	0.0	-1.1
	~~2.~~	~~3~~	Sampled From:				
2	3.	5	Sampled From:	3/29/22	8:58	0.0	-0.3
	~~4.~~	~~6~~	Sampled From:				
	~~5.~~	~~9~~	Sampled From:				
	~~6.~~	~~10~~	Sampled From:				
	~~7.~~	~~12~~	Sampled From:				
3	8.	14	Sampled From:	3/29/22	9:20	0.0	0.4
	~~9.~~	~~15 (Well North of Shop)~~	Sampled From:				
4	10.	15W	Sampled From:	3/29/22	10:00	0.25	0.1

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second	[signature]	DN	3/29 1226	
Third				
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Contract 2022
Sampling Hrs ___ Miles ___ Consulting ___
Amt Paid ___ Rec By ___ Check No. ___

Shipping
$ ___ In
$ ___ Out
Date

Signature

Sample received in cooler with ice?
[✓] Yes [ ] No

ctt update 2020

03/29/22 12:26 22C1354

MM

WATER WORK REQUEST

Acct No. 203 Cons. 08

Bill To:

Purchase Order No. Results Needed By

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to:

Requested by/Cell: Sal Rodriguez 567-8928

Facility:

Date sampled: 3.29.22

Sampled by: AV/CD

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 21 No. Bottles 21

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other

Analysis and Bottles Required: *(Please Indicate Analysis)*

☑ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other

DESCRIPTION OF SAMPLES

				Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
5	1.	16	Sampled From:	3/29/22	9:52	0.25	-1.1
6	2.	17	Sampled From:	3/29/22	9:12	0.0	-0.8
	~~3.~~	~~18~~	Sampled From:				
7	4.	19 (6C)	Sampled From:	3/29/22	10:11	0.25	-0.4
	~~5.~~	~~20~~	Sampled From:				
	~~6.~~	~~4A-W~~	Sampled From:				
8	7.	5-2E	Sampled From:	3/29/22	10:30	.25	0.4
9	8.	5-4E	Sampled From:	3/29/22	10:15	.25	1.4
10	9.	5-4W	Sampled From:	3/29/22	10:04	.40	1.9
11	20 ~~10.~~	6-1 (6-1E)	Sampled From:	3/29/22	11:17	0.0	1.2

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second				
Third				
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

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Invoicing Information:
Contract 2022
Sampling Hrs ___ Miles ___ Consulting ___
Amt Paid ___ Rec By ___ Check No. ___ Date ___

Shipping
$ ___ In
$ ___ Out

Signature

Sample received in cooler with ice?
[✓] Yes [ ] No

ctt:update 2020

03/29/22 12:26 22C1354

MM

WATER WORK REQUEST

Acct No. / Cons.

Bill To: 203 / 08

Purchase Order No. _____ Results Needed By _____

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to: _____

Requested by/Cell: Sal Rodriguez 567-8928

Facility: _____

Date sampled: 3/29/22

Sampled by: CD/AV

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
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No. of Samples 21 No. Bottles 21

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____

Analysis and Bottles Required: *(Please Indicate Analysis)*

☑ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SAMPLES

				Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
12	2	1.	6-1W	3/29/22	11:05	.25	4.7
13	2	2.	7-1S	3/29/22	11:03	0.0	-0.3
14	2	3.	7-3N	3/29/22	11:26	0.25	0.1
15	2	4.	7-4N	3/29/22	11:21	0.0	0.4
16	2	5.	8-4	3/29/22	10:31	0.25	-0.4
~~7~~		~~6.~~	~~10-4~~				
~~7~~		~~7.~~	~~SF 11~~				
~~7~~		~~8.~~	~~SF 12N~~				
17	2	9.	SF 12S	3/29/22	9:53	.30	0.2
~~30~~		~~10.~~	~~SF 13~~				

Sampled From:

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second				
Third				
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Contract 2022
Sampling Hrs ___ Miles ___ Consulting ___
Amt Paid ___ Rec By ___ Check No. ___ Date ___

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[✓] Yes [ ] No

ctl update 2020

03/29/22 12:26 22C1354

MM

WATER WORK REQUEST

Acct No. / Cons.

Bill To: 203 / 08

Purchase Order No. _____ Results Needed By _____

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to: _____

Requested by/Cell: Sal Rodriguez 567-8928

Facility: _____

Date sampled: 3/29/22

Sampled by: CD / AV

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples: 21 No. Bottles: 21

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____

Analysis and Bottles Required: *(Please Indicate Analysis)*

☑ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test)**
(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SAMPLES

				Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
18	3	1.	SF 16	3/29/22	10:22	0.0	-0.1
	~~3~~	~~2.~~	~~DW2E~~				
19	3	3.	DW2S	3-29-22	8:24	0.30	1.4
	~~3~~	~~4.~~	~~DW3S~~				
20	3	5.	DW3N	3-29-22	9:02	0.25	0.6
21	3	6.	NW Corner R4-5	3-29-22	10:48	0.25	4.7
		7.					
		8.					
		9.					
		10.					

Sampled From:

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second				
Third				
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Contract 2022
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[N] Yes [ ] No

ctt:update 2020

03/30/22 13:40 22C1401

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

Purchase Order No

Bill To: Acct # 203 | Cons # 08

Results Need By

No. Samples: 11 No of Bottles: 11

Water Type: [ ] Drinking Water [ ] Wastewater
[✓] Ag Water [ ] Groundwater [ ] Monitoring Well

Other:

Name: Bar 20 Dairy LLC
Address: P.O Box 1231
City: Fresno State: CA Zip:
Telephone: 567-8928 Fax:
Cell/Email: Salr@bar20dairy.com
COPY TO:

REQUESTED BY: Sal Rodriguez
PROJECT:
CROP:

[X] Copy of Chain [X] QA/QC Documents
Sampled By: AV

Analysis and Bottles Required: (*Please indicate Analysis*)

(X) DWW1: EC, NO_3-N, pH NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DCW1: EC, NO_3-N, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	IW SF 13	3.30.22	10:38	2.8	0.25
2	IW-18		9:23	1.4	0.25
3	IW-10		12:24	2.8	0.25
4	IW-12		12:13	0.6	0.25
5	DW 3.5		8:31	1.2	0.0
6	IW-9		12:01	3.1	0.25
7	IW-15		8:51	0.8	0.25
8	IW-20		10:47	0.4	0.0
9	IW4AW		10:16	1.4	0.0
10	IW SF 11		10:32	2.7	0.25

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second	MM	DLI	3/30/22 13:40	
Third				
Fourth				

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitratic reasonable attorneys' fees of Dellavalle Laboratory

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[✓] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[BLANK Dairy Water.xls]Dairy Water Rev 3-30-21

08/21/23 15:58 23H1832

H1832

WATER WORK REQUEST

Bill To: Acct No. 203 Cons. 08

Purchase Order No. Results Needed By

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to:

Requested by/Cell: Sal Rodriguez 567-8928

Facility:

Date sampled: 8.21.23

Sampled by: DLF AV

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 9 No. Bottles 9

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well ☐ Other

Analysis and Bottles Required: *(Please Indicate Analysis)*

☑ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) l L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) l L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) l L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) l L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) l L plastic, unpreserved (white)

☐ Other

DESCRIPTION OF SAMPLES

		Sampled From	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	IW-10	Standpipe	8.21.23	10:49	0.0	-0.3
2.	SF11		8.21.23	11:04	0.0	0.9
3.	IW SF 13		8.21.23	11:38	0.0	1.1
4.	IW-18			11:57	0.0	1.4
5.	IW-16			12:03	0.0	1.5
6.	SF 16			12:16	0.25	0.4
7.	S-4W			1:27	0.0	1.4
8.	S-4E			1:45	0.5	1.4
9.	S-2E			1:58	0.5	2.1
10.						

IR Thermometer SN: 192603727
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[illegible]	DLF	8-21-23 10:49	8-21-23 3:53
Second				
Third				
Fourth	EDS	DLF	8-21-23 15:58	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Contract 2023
Sampling Hrs ___ Miles ___ Consulting ___
Amt Paid ___ Rec By ___ Check No. ___ Date ___

Shipping
$ ___ In
$ ___ Out

Signature

Sample received in cooler with ice?
[ ] Yes [ ] No

ctf:update 2020

08/21/23 15:59 23H1834

.834

WATER WORK REQUEST

Bill To: Acct No. 203 Cons. 08

Purchase Order No. _____ Results Needed By _____

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to: _____

Requested by/Cell: Sal Rodriguez 567-8928

Facility: _____

Date sampled: 8.21.23

Sampled by: DLI-AV

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 2 No. Bottles 2

Water Type: ☐ Drinking ☐ Wastewater ☑ Ag Water ☐ Ground Water ☐ Mon. Well ☐ Supply Water ☐ Other _____

Analysis and Bottles Required: *(Please Indicate Analysis)*

☐ DWW1: (EC, pH, NO_3-N, NH_4-N Field Test)
(1) 1 L plastic, unpreserved (white)

☑ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SAMPLES

		Sampled From	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	IW-4	Standpipe	8.21.23	9:53	0.0	0.1
2.	IWSF12		8.21.23	1:06	0.0	0.2
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

IR Thermometer SN: 192603727
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	DLI	8.21.23 9:53	8.21.23 3:59
Second				
Third				
Fourth	EDS	DLI	8-21-23 15:59	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Contract 2023
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[✓] Yes [ ] No

ctt:update 2020

08/23/23 15:17 23H2011

WATER WORK REQUEST

Bill To: Acct No. 203 Cons. 08

Purchase Order No. _____ Results Needed By _____

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to: _____

Requested by/Cell: Sal Rodriguez 567-8928

Facility: _____

Date sampled: 8-23-23

Sampled by: DLI

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

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www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples _____ No. Bottles _____

Water Type: ☑ Ag Water ☐ Supply Water ☐ Drinking ☐ Ground Water ☐ Other _____ ☐ Wastewater ☐ Mon. Well

Analysis and Bottles Required: *(Please Indicate Analysis)*

☑ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SAMPLES

			Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	G-1E	Sampled From: Standpipe	8-23-23	11:45	0.25	-0.2
2.	G-1W	Sampled From:	8-23-23	11:54	0.25	-0.1
3.	7-1S	Sampled From:	8-23-23	12:03	0.0	-0.1
4.	7-3N	Sampled From:	8-23-23	12:16	0.0	0.8
5.	7-4N	Sampled From:	8-23-23	12:31	0.0	-0.1
6.	7-2-N	Sampled From:		12:47	0.0	0.2
7.		Sampled From:				
8.						
9.						
10.		Sampled From:				

IR Thermometer SN: 192603727
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	DLI	8-23-23 11:45	8-23-23 3:16
Second				
Third				
Fourth	EDS	DLI	8-23-23 1527	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Contract 2023
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[✓] Yes [ ] No

ctt:update 2020

08/23/23 15:17 23H2014

WATER WORK REQUEST

Bill To: Acct No. 203 Cons. 08

Purchase Order No. _____ Results Needed By _____

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to: _____

Requested by/Cell: Sal Rodriguez 567-8928

Facility: _____

Date sampled: 8.23.23

Sampled by: DIAV

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6120 • 800 228-9896 • Fax 559 268-8174

No. of Samples 1 8/29/23 No. Bottles _____

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____

Analysis and Bottles Required: *(Please Indicate Analysis)*

☐ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test)**
(1) 1 L plastic, unpreserved (white)

☑ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SAMPLES

		Sampled From	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	IW S-1	Standpipe	8.23.23	1:16	0.0	0.6
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

IR Thermometer SN: 192603727
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[illegible]	DLI	8.23.23 1:16	8.23.23 3:12
Second				
Third				
Fourth	EDS	DLI	8.23.23 15:17	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Contract 2023
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No

ctt:update 2020

08/24/23 14:37 23H2099

WATER WORK REQUEST

Bill To: Acct No. 203 Cons. 08

Purchase Order No. _____ Results Needed By _____

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to: _____

Requested by/Cell: Sal Rodriguez 567-8928

Facility: _____

Date sampled: 8.24.23

Sampled by: DLI-AV

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

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www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 1 No. Bottles 1

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____

Analysis and Bottles Required: *(Please Indicate Analysis)*

☐ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) l L plastic, unpreserved (white)

☑ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) l L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) l L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) l L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) l L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SAMPLES

		Sampled From	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	IW2	Standpipe	8.24.23	11:28	0.0	1.3
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[illegible]	DLI	8.24.23 11:28	8.24.23 2:35
Second				
Third				
Fourth	[illegible]	DLI	8/24/23 14:37	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Contract 2023
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[✓] Yes [ ] No

ctt:update 2020

08/24/23 14:37 23H2100

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

WATER WORK REQUEST

Bill To: Acct No. 203 Cons. 08

Purchase Order No. _____ Results Needed By _____

Client: **Bar 20 Dairy LLC**
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to: _____

Requested by/Cell: Sal Rodriguez 567-8928

Facility: _____

Date sampled: 8.24.23

Sampled by: DLI-AV

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

No. of Samples: 6 No. Bottles: 6

Water Type: ☐ Drinking ☐ Wastewater ☑ Ag Water ☐ Ground Water ☐ Mon. Well ☐ Supply Water ☐ Other _____

Analysis and Bottles Required: *(Please Indicate Analysis)*

☑ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SAMPLES

			Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	~~IW-2~~ AV	Sampled From: Standpipe	~~8.24.23~~	~~11:28~~	0.0	
2.	DW3N	Sampled From: Spigot	8.24.23	12:19	0.0	0.3
3.	DW3S	Sampled From: Spigot	8.24.23	12:24	0.0	0.5
4.	IW-19(GC)	Sampled From: Standpipe	8.24.23	12:37	0.0	0.8
5.	IW-15W	Sampled From:	8.24.23	12:57	0.0	0.1
6.	IW-20	Sampled From:	8.24.23	1:11	0.0	0.9
7.	IW-16	Sampled From:	8.24.23	1:33	0.0	1.4
8.						
9.						
10.		Sampled From:				

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	DLI	8.24.23 12:19	8.24.23 2:35
Second				
Third				
Fourth	[signature]	DVS	8/24/23 14:37	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Contract 2023
Sampling Hrs ___ Miles ___ Consulting ___
Amt Paid ___ Rec By ___ Check No. ___ Date ___

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[✓] Yes [ ] No

ctt:update 2020

09/11/23 13:03 2310726 9 26

WATER WORK REQUEST

Acct No. / Cons.

Bill To: 203 / 08

Purchase Order No. _____ Results Needed By _____

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to: _____

Requested by/Cell: Sal Rodriguez 567-8928

Facility: _____

Date sampled: 9-11-23

Sampled by: DVJAV

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples: 1 No. Bottles: 1

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____

Analysis and Bottles Required: *(Please Indicate Analysis)*

☐ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test)**
(1) 1 L plastic, unpreserved (white)

☑ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. SF125	Sampled From: Spigot	9-11-23	9:47	0.0	0.9
2.	Sampled From:				
3.	Sampled From:				
4.	Sampled From:				
5.	Sampled From:				
6.					
7.					
8.					
9.	Sampled From:				
10.	Sampled From:				

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	DLI	9/11/23 9:47	9-11-23 1:01
Second	MM	DLI	9/11 13:03	
Third				
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

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Invoicing Information:
Contract 2023
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[✓] Yes [ ] No

ctt:update 2020

09/11/23 13:03 2310727 a

WATER WORK REQUEST

Bill To: Acct No. 203 Cons. 08

Purchase Order No. _____ Results Needed By _____

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to: _____

Requested by/Cell: Sal Rodriguez 567-8928

Facility: _____

Date sampled: 9-11-23

Sampled by: DLI-AV

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples: 1 No. Bottles: 1

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____

Analysis and Bottles Required: *(Please Indicate Analysis)*

☑ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test)**
(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. IW 14	Sampled From: Standpipe	9-11-23	10:29	0.0	0.6
2.	Sampled From:				
3.	Sampled From:				
4.	Sampled From:				
5.	Sampled From:				
6.					
7.	Sampled From:				
8.	Sampled From:				
9.	Sampled From:				
10.	Sampled From:				

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[illegible]	DLI	9-11-23 10:29	9-11-23 1:01
Second	MM	DLI	9/11 13:03	
Third				
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

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Invoicing Information:
Contract 2023
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No

ctt:update 2020

09/15/23 13:31 23I1062

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

WATER WORK REQUEST

Bill To: Acct No. 203 Cons. 08

Purchase Order No. _____ Results Needed By _____

Client: Bar 20 Dairy LLC
Address: P.O. Box 1231
City, State, Zip: Fresno, CA
Email: salr@bar20dairy.com

Copy to: _____

Requested by/Cell: Sal Rodriguez 567-8928

Facility: _____

Date sampled: 9.15.23

Sampled by: DLI-AV

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

No. of Samples: 1 No. Bottles: 1

Water Type: ☑ Ag Water ☐ Supply Water ☐ Drinking ☐ Ground Water ☐ Other _____ ☐ Wastewater ☐ Mon. Well

Analysis and Bottles Required: *(Please Indicate Analysis)*

☑ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) l L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) l L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) l L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) l L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) l L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. IW.9	Sampled From:	9.15.23	9:41	0.0	8.8
2. IW.15	Sampled From:	9.15.23	12:07	0.0	10.1
3.	Sampled From:				
4.	Sampled From:				
5.	Sampled From:				
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				
9.	Sampled From:				
10.	Sampled From:				

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	DLI	9.15.23 9:41	9.15.23 1:30
Second				
Third				
Fourth	[signature]	DLI	9/15/23 13:31	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

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Invoicing Information:
Contract 2023
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No

ctl:update 2020