

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 None Dairy / van der Hoek Dairy

Physical address of dairy:

15886 S Lassen AVE

Number and Street

Helm

City

Fresno

County

93627

Zip Code

Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 04/22/2004Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0040-0130-001S-00000040-0130-031S-00000040-0130-035S-00000040-0130-051S-0000**B. OPERATORS**

van der Hoek, Hans

Operator name: van der Hoek, Hans

Telephone no.:

(559) 303-2955

Landline

Cellular

15886 S Lassen AVE

Mailing Address Number and Street

Helm

City

CA

State

93627

Zip Code

van der Hoek, Pier

Operator name: van der Hoek, Pier

Telephone no.:

(559) 303-2955

Landline

Cellular

P.O. Box 42

Mailing Address Number and Street

Helm

City

CA

State

93627

Zip Code

This operator is responsible for paying permit fees.**C. OWNERS**

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van der Hoek, Pier

Legal owner name: van der Hoek, Pier	Telephone no.:	(559) 303-2955
	Landline	Cellular
P.O. Box 42	Helm	CA
Mailing Address Number and Street	City	State
		Zip Code

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	240	1,880	650	500	0
Number under roof	3,400	0	0	0	0	0
Maximum number	3,600	260	1,900	700	550	0
Average number	3,600	250	1,890	675	525	0
Avg live weight (lbs)	1,250	1,275	950	650		

Predominant milk cow breed: Holstein

Average milk production: 61 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 119,543.96 tons per reporting period

Total nitrogen from manure: 1,473,522.85 lbs per reporting period

After ammonia losses (30% loss applied): 1,031,466.00 lbs per reporting period

Total phosphorus from manure: 244,372.19 lbs per reporting period

Total potassium from manure: 668,146.42 lbs per reporting period

Total salt from manure: 1,752,547.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 19,777,500 gallons

Total nitrogen generated: 99,355.71 lbs

Total phosphorus generated: 20,095.96 lbs

Total potassium generated: 126,661.02 lbs

Total salt generated: 778,322.50 lbs

19,777,500 gallons applied + 0 gallons exported - 0 gallons imported = 19,777,500 gallons generated
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D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
Henry's Well	Ground water
Well 1	Ground water
Well 2	Ground water
Well 3	Ground water

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Source Description	Type
Well 4	Ground water
Well 5	Ground water
Well 6	Ground water
Well 7	Ground water
Well 8	Ground water
Well 9	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.**No commercial or other nutrient imports entered.***G. NUTRIENT EXPORTS***No solid nutrient exports entered.**No liquid nutrient exports entered.*

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 1	95	80	1	manure	0040-0130-001S-0000
Field 10	10	8	0	none	0040-0130-051S-0000
Field 11	37	32	2	both	0040-0130-031S-0000
Field 12	54	51	2	both	0040-0130-031S-0000
Field 13	79	76	2	both	0040-0130-031S-0000
Field 14	72	69	1	both	0040-0130-031S-0000
Field 15	45	30	2	both	0040-0130-001S-0000
Field 16	61	55	2	both	0040-0130-035S-0000
Field 17	57	55	2	both	0040-0130-035S-0000
Field 18	82	79	1	both	0040-0130-035S-0000
Field 19	73	64	1	manure	0040-0130-024S-0000
Field 2	77	71	1	both	0040-0130-051S-0000
Field 20	87	86	2	manure	0040-0130-024S-0000
Field 21	76	74	1	manure	0040-0130-024S-0000
Field 22	84	82	2	manure	0040-0130-024S-0000
Field 3	79	75	1	both	0040-0130-051S-0000
Field 4	55	45	2	manure	0040-0130-001S-0000
Field 5	81	73	2	both	0040-0130-051S-0000
Field 6	82	73	2	both	0040-0130-051S-0000
Field 7	58	53	1	manure	0040-0130-051S-0000
Field 8	10	7	0	none	0040-0130-051S-0000
Field 9	39	35	2	manure	0040-0130-051S-0000
Totals for areas that were used for application	1,373	1,258	32		
Totals for areas that were not used for application	20	15	0		
Land application area totals	1,393	1,273	32		

B. CROPS AND HARVESTS

Field 1
Field name: <u>Field 1</u>

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Field 1

11/15/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage

Acres planted: 80 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,125.00 ton	As-is		74.6	4,500.00	2,100.00	5,600.00		9.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	187.60	72.80	235.20	0.00
Total actual harvest content	14.06	126.56	59.06	157.50	671.51

Field 11

Field name: Field 11

11/15/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage

Acres planted: 32 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	448.00 ton	As-is		80.3	4,900.00	1,600.00	7,400.00		3.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	14.00	137.20	44.80	207.20	176.51

06/26/2023: Sorghum

Crop: Sorghum

Acres planted: 32 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/25/2023	706.00 ton	As-is		79.4	3,500.00	1,900.00	6,500.00		12.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	336.00	115.20	585.60	0.00
Total actual harvest content	22.06	154.44	83.84	286.81	1,118.04

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Field 12

Field name: Field 12

11/15/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 51 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	765.00 ton	As-is		82.5	4,100.00	1,300.00	7,200.00		11.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	15.00	123.00	39.00	216.00	598.50

06/26/2023: Sorghum

Crop: Sorghum Acres planted: 51 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/25/2023	840.00 ton	As-is		73.5	4,000.00	1,400.00	7,000.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	224.00	76.80	390.40	0.00
Total actual harvest content	16.47	131.76	46.12	230.59	1,021.34

Field 13

Field name: Field 13

11/15/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 76 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,175.00 ton	As-is		77.5	5,600.00	2,000.00	10,500.00		13.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	15.46	173.16	61.84	324.67	904.44

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Field 13

06/26/2023: Sorghum

Crop: Sorghum Acres planted: 76 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/25/2023	1,354.00 ton	As-is		76.4	4,300.00	1,300.00	6,100.00		6.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	252.00	86.40	439.20	0.00
Total actual harvest content	17.82	153.22	46.32	217.35	563.41

Field 14

Field name: Field 14

11/16/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 69 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,142.00 ton	As-is		75.2	4,700.00	1,800.00	8,200.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	16.55	155.58	59.58	271.43	853.75

Field 15

Field name: Field 15

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Field 15

11/16/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 30 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	445.00 ton	As-is		71.7	4,100.00	2,000.00	6,200.00		9.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	14.83	121.63	59.33	183.93	780.80

06/25/2023: Sorghum

Crop: Sorghum Acres planted: 30 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	650.00 ton	As-is		74.4	2,900.00	1,200.00	5,900.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	252.00	86.40	439.20	0.00
Total actual harvest content	21.67	125.67	52.00	255.67	1,120.43

Field 16

Field name: Field 16

11/16/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 55 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,100.00 ton	As-is		83.0	3,300.00	1,200.00	6,400.00		10.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	20.00	132.00	48.00	256.00	700.40

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Field 16

06/25/2023: Sorghum

Crop: Sorghum Acres planted: 55 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	915.00 ton	As-is		74.4	4,600.00	1,100.00	8,600.00		13.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	252.00	86.40	439.20	0.00
Total actual harvest content	16.64	153.05	36.60	286.15	1,141.39

Field 17

Field name: Field 17

11/16/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 55 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	912.00 ton	As-is		60.0	5,300.00	2,500.00	7,400.00		8.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	16.58	175.77	82.91	245.41	1,167.36

06/26/2023: Sorghum

Crop: Sorghum Acres planted: 55 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/25/2023	875.00 ton	As-is		74.2	4,400.00	1,700.00	7,100.00		12.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	252.00	86.40	439.20	0.00
Total actual harvest content	15.91	140.00	54.09	225.91	1,009.72

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Field 18

Field name: Field 18

11/17/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 79 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	955.00 <i>ton</i>	As-is		59.0	5,400.00	2,400.00	6,700.00		12.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	12.09	130.56	58.03	161.99	1,229.17

Field 19

Field name: Field 19

11/17/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 64 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,145.00 <i>ton</i>	As-is		54.9	6,100.00	3,200.00	10,100.00		8.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	17.89	218.27	114.50	361.39	1,403.95

Field 2

Field name: Field 2

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Field 2

11/15/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 71 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,040.00 ton	As-is		71.5	4,700.00	2,100.00	8,200.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	187.60	72.80	235.20	0.00
Total actual harvest content	14.65	137.69	61.52	240.23	926.77

Field 20

Field name: Field 20

11/17/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 86 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,685.00 ton	As-is		67.1	4,400.00	2,400.00	5,500.00		8.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	19.59	172.42	94.05	215.52	1,044.27

06/26/2023: Sorghum

Crop: Sorghum Acres planted: 86 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/25/2023	1,985.00 ton	As-is		72.4	2,500.00	1,900.00	6,300.00		12.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	336.00	115.20	585.60	0.00
Total actual harvest content	23.08	115.41	87.71	290.83	1,605.36

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Field 21

Field name: Field 21

11/17/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage

Acres planted: 74 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,237.00 <i>ton</i>	As-is		66.5	5,500.00	2,300.00	10,200.00		10.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	16.72	183.88	76.89	341.01	1,198.39

Field 22

Field name: Field 22

11/17/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage

Acres planted: 82 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,608.00 <i>ton</i>	As-is		69.5	4,500.00	2,500.00	7,100.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	214.40	83.20	268.80	0.00
Total actual harvest content	19.61	176.49	98.05	278.46	1,303.85

06/26/2023: Sorghum

Crop: Sorghum

Acres planted: 82 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/11/2023	1,756.00 <i>ton</i>	As-is		79.9	3,000.00	1,500.00	6,500.00		12.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	336.00	115.20	585.60	0.00
Total actual harvest content	21.41	128.49	64.24	278.39	1,076.09

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Field 3

Field name: Field 3

11/15/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 75 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,065.00 <i>ton</i>	As-is		68.8	5,500.00	2,400.00	9,100.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	187.60	72.80	235.20	0.00
Total actual harvest content	14.20	156.20	68.16	258.44	956.97

Field 4

Field name: Field 4

11/16/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 45 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	650.00 <i>ton</i>	As-is		64.3	4,700.00	2,400.00	6,100.00		12.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	187.60	72.80	235.20	0.00
Total actual harvest content	14.44	135.78	69.33	176.22	1,237.60

06/25/2023: Sorghum

Crop: Sorghum Acres planted: 45 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	850.00 <i>ton</i>	As-is		76.2	2,700.00	1,100.00	6,200.00		10.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	280.00	96.00	488.00	0.00
Total actual harvest content	18.89	102.00	41.56	234.22	926.08

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Field 5

Field name: Field 5

11/16/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 73 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,015.00 ton	As-is		69.4	7,200.00	3,100.00	9,200.00		10.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	187.60	72.80	235.20	0.00
Total actual harvest content	13.90	200.22	86.21	255.84	901.99

06/25/2023: Sorghum

Crop: Sorghum Acres planted: 73 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	1,258.00 ton	As-is		70.4	4,500.00	1,900.00	10,500.00		13.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	224.00	76.80	390.40	0.00
Total actual harvest content	17.23	155.10	65.48	361.89	1,326.24

Field 6

Field name: Field 6

11/16/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 73 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,095.00 ton	As-is		65.4	5,500.00	2,400.00	8,400.00		14.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	187.60	72.80	235.20	0.00
Total actual harvest content	15.00	165.00	72.00	252.00	1,484.34

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Field 6

06/25/2023: Sorghum

Crop: Sorghum Acres planted: 73 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	1,204.00 ton	As-is		70.0	5,600.00	1,600.00	10,200.00		11.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	224.00	76.80	390.40	0.00
Total actual harvest content	16.49	184.72	52.78	336.46	1,118.24

Field 7

Field name: Field 7

11/16/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 53 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	784.00 ton	As-is		85.7	3,600.00	1,400.00	6,500.00		12.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	187.60	72.80	235.20	0.00
Total actual harvest content	14.79	106.51	41.42	192.30	537.29

Field 9

Field name: Field 9

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Field 9

11/15/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 35 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	500.00 ton	As-is		71.9	4,200.00	1,700.00	5,600.00		8.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	160.80	62.40	201.60	0.00
Total actual harvest content	14.29	120.00	48.57	160.00	674.40

06/25/2023: Sorghum

Crop: Sorghum Acres planted: 35 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	565.00 ton	As-is		72.6	2,700.00	1,500.00	6,900.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	252.00	86.40	439.20	0.00
Total actual harvest content	16.14	87.17	48.43	222.77	981.94

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NUTRIENT BUDGET

A. LAND APPLICATIONS

Field 1 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 1

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
11/08/2022	Plow/disc	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Manure		Corral solids	128.70	45.50	297.70	0.00	520.00 <i>ton</i>	
Application event totals			128.70	45.50	297.70	0.00		
11/16/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well 4		Ground water	0.00	0.00	0.00	910.27	8,640,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	910.27		
12/09/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well 4		Ground water	0.00	0.00	0.00	900.79	8,550,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	900.79		
02/24/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well 4		Ground water	0.00	0.00	0.00	872.34	8,280,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	872.34		
03/29/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well 4		Ground water	0.00	0.00	0.00	862.86	8,190,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	862.86		

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Field 1 - 11/15/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/10/2023	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
Well 4	Ground water	0.00	0.00	0.00	881.83	8,370,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	881.83	

Field 11 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 11

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/09/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	98.07	34.67	226.85	0.00	158.50 <i>ton</i>
Application event totals		98.07	34.67	226.85	0.00	
11/18/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	0.00	0.00	0.00	494.14	2,970,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	898.44	2,970,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,392.59	
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
Lagoon	Process wastewater	59.01	11.35	85.11	428.63	337,500.00 <i>gal</i>
Well 5	Ground water	0.00	0.00	0.00	461.20	2,772,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	838.55	2,772,000.00 <i>gal</i>
Application event totals		59.01	11.35	85.11	1,728.37	

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Field 11 - 11/15/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	0.00	0.00	0.00	472.18	2,838,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	858.51	2,838,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,330.69	
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
Well 5	Ground water	0.00	0.00	0.00	494.14	2,970,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	898.44	2,970,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,392.59	

Field 11 - 06/26/2023: Sorghum

Field name: Field 11

Crop: Sorghum

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/16/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	64.79	20.80	127.20	0.00	95.10 <i>ton</i>
Application event totals		64.79	20.80	127.20	0.00	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	718.57	3,870,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	718.57	

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Field 11 - 06/26/2023: Sorghum

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
Lagoon	Process wastewater	65.95	11.45	75.81	544.51	450,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	618.30	3,330,000.00 <i>gal</i>
Application event totals		65.95	11.45	75.81	1,162.81	
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
Well 3	Ground water	0.00	0.00	0.00	651.72	3,510,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	651.72	
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	52.32	12.57	48.48	472.11	405,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	601.59	3,240,000.00 <i>gal</i>
Application event totals		52.32	12.57	48.48	1,073.70	
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
Well 3	Ground water	0.00	0.00	0.00	635.01	3,420,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	635.01	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	651.72	3,510,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	651.72	
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
Well 3	Ground water	0.00	0.00	0.00	668.43	3,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	668.43	

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Field 12 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 12

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/09/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	99.78	35.27	230.80	0.00	257.00 <i>ton</i>
Application event totals		99.78	35.27	230.80	0.00	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	0.00	0.00	0.00	323.83	3,102,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	588.78	3,102,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	912.62	
12/18/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	44.43	8.55	64.08	322.73	405,000.00 <i>gal</i>
Well 5	Ground water	0.00	0.00	0.00	310.05	2,970,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	563.73	2,970,000.00 <i>gal</i>
Application event totals		44.43	8.55	64.08	1,196.51	
02/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	0.00	0.00	0.00	310.05	2,970,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	563.73	2,970,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	873.78	
04/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	0.00	0.00	0.00	275.60	2,640,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	501.09	2,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	776.69	

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Field 12 - 06/26/2023: Sorghum

Field name: Field 12

Crop: Sorghum

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/16/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	65.91	21.16	129.41	0.00	154.20 <i>ton</i>
Application event totals		65.91	21.16	129.41	0.00	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	718.24	6,165,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	718.24	
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
Lagoon	Process wastewater	53.80	9.34	61.84	444.15	585,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	608.14	5,220,000.00 <i>gal</i>
Application event totals		53.80	9.34	61.84	1,052.29	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	618.63	5,310,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	618.63	
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
Lagoon	Process wastewater	40.13	9.64	37.18	362.05	495,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	629.11	5,400,000.00 <i>gal</i>
Application event totals		40.13	9.64	37.18	991.17	

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Field 12 - 06/26/2023: Sorghum

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
Well 3		Ground water	0.00	0.00	0.00	618.63	5,310,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	618.63	
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
Well 3		Ground water	0.00	0.00	0.00	650.09	5,580,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	650.09	
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
Well 3		Ground water	0.00	0.00	0.00	639.60	5,490,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	639.60	

Field 13 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 13

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/09/2022	Plow/disc		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	98.48	34.82	227.79	0.00	378.00 <i>ton</i>
Application event totals			98.48	34.82	227.79	0.00	
11/27/2022	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5		Ground water	0.00	0.00	0.00	300.53	4,290,000.00 <i>gal</i>
Well 6		Ground water	0.00	0.00	0.00	546.42	4,290,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	846.95	

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Field 13 - 11/15/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/29/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	57.98	11.15	83.62	421.11	787,500.00 <i>gal</i>
Well 5	Ground water	0.00	0.00	0.00	277.41	3,960,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	504.39	3,960,000.00 <i>gal</i>
Application event totals		57.98	11.15	83.62	1,202.91	
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
Lagoon	Process wastewater	53.01	10.20	76.45	385.01	720,000.00 <i>gal</i>
Well 5	Ground water	0.00	0.00	0.00	268.17	3,828,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	487.58	3,828,000.00 <i>gal</i>
Application event totals		53.01	10.20	76.45	1,140.76	
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
Well 5	Ground water	0.00	0.00	0.00	263.54	3,762,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	479.17	3,762,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	742.71	

Field 13 - 06/26/2023: Sorghum

Field name: Field 13

Crop: Sorghum

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/03/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	65.06	20.89	127.72	0.00	226.80 <i>ton</i>
Application event totals		65.06	20.89	127.72	0.00	

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Field 13 - 06/26/2023: Sorghum

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
Well 3	Ground water	0.00	0.00	0.00	654.36	8,370,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	654.36	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	41.65	7.23	47.88	343.90	675,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	633.25	8,100,000.00 <i>gal</i>
Application event totals		41.65	7.23	47.88	977.16	
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
Well 3	Ground water	0.00	0.00	0.00	640.29	8,190,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	640.29	
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	36.72	8.82	34.02	331.30	675,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	640.29	8,190,000.00 <i>gal</i>
Application event totals		36.72	8.82	34.02	971.59	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	654.36	8,370,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	654.36	
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
Well 3	Ground water	0.00	0.00	0.00	647.33	8,280,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	647.33	

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Field 13 - 06/26/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	527.71	6,750,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	527.71	

Field 14 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 14

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/09/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	99.00	35.00	229.00	0.00	345.00 <i>ton</i>
Application event totals		99.00	35.00	229.00	0.00	
11/24/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	0.00	0.00	0.00	300.46	3,894,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	546.30	3,894,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	846.76	
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
Lagoon	Process wastewater	54.74	10.53	78.94	397.57	675,000.00 <i>gal</i>
Well 5	Ground water	0.00	0.00	0.00	295.37	3,828,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	537.04	3,828,000.00 <i>gal</i>
Application event totals		54.74	10.53	78.94	1,229.98	

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Field 14 - 11/16/2022: Wheat, silage, boot stage

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
Lagoon	Process wastewater	43.79	8.42	63.15	318.05	540,000.00 <i>gal</i>
Well 5	Ground water	0.00	0.00	0.00	264.82	3,432,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	481.48	3,432,000.00 <i>gal</i>
Application event totals		43.79	8.42	63.15	1,064.35	
04/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	0.00	0.00	0.00	269.91	3,498,000.00 <i>gal</i>
Well 6	Ground water	0.00	0.00	0.00	490.74	3,498,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	760.65	

Field 15 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 15

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
11/10/2022	Plow/disc		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	128.70	45.50	297.70	0.00	195.00 <i>ton</i>
Application event totals			128.70	45.50	297.70	0.00	
11/25/2022	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4		Ground water	0.00	0.00	0.00	1,011.41	3,600,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	1,011.41	

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Field 15 - 11/16/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/18/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4	Ground water	0.00	0.00	0.00	960.84	3,420,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	960.84	
03/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4	Ground water	0.00	0.00	0.00	783.85	2,790,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	783.85	
04/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4	Ground water	0.00	0.00	0.00	809.13	2,880,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	809.13	

Field 15 - 06/25/2023: Sorghum

Field name: Field 15

Crop: Sorghum

Plant date: 06/25/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
05/03/2023	Plow/disc		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	65.40	21.00	128.40	0.00	90.00 <i>ton</i>
Application event totals			65.40	21.00	128.40	0.00	
07/05/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3		Ground water	0.00	0.00	0.00	713.00	3,600,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	713.00	

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Field 15 - 06/25/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Well 3	Ground water	0.00	0.00	0.00	659.52	3,330,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	659.52	
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
Lagoon	Process wastewater	46.51	11.17	43.09	419.65	337,500.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	570.40	2,880,000.00 <i>gal</i>
Application event totals		46.51	11.17	43.09	990.05	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	659.52	3,330,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	659.52	
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	49.61	11.92	45.96	447.63	360,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	588.22	2,970,000.00 <i>gal</i>
Application event totals		49.61	11.92	45.96	1,035.85	
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
Well 3	Ground water	0.00	0.00	0.00	677.35	3,420,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	677.35	
09/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	356.50	1,800,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	356.50	

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Field 16 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 16

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/09/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	59.40	21.00	137.40	0.00	165.00 <i>ton</i>
Application event totals		59.40	21.00	137.40	0.00	
11/17/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 7	Ground water	0.00	0.00	0.00	1,408.97	6,930,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,408.97	
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
Lagoon	Process wastewater	45.78	8.81	66.02	332.51	450,000.00 <i>gal</i>
Well 7	Ground water	0.00	0.00	0.00	1,244.29	6,120,000.00 <i>gal</i>
Application event totals		45.78	8.81	66.02	1,576.80	
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	70.96	13.65	102.34	515.39	697,500.00 <i>gal</i>
Well 7	Ground water	0.00	0.00	0.00	1,225.99	6,030,000.00 <i>gal</i>
Application event totals		70.96	13.65	102.34	1,741.38	
03/10/2023	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
Well 7	Ground water	0.00	0.00	0.00	1,189.39	5,850,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,189.39	

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Field 16 - 11/16/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/10/2023	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
Well 7	Ground water	0.00	0.00	0.00	1,244.29	6,120,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,244.29	

Field 16 - 06/25/2023: Sorghum

Field name: Field 16

Crop: Sorghum

Plant date: 06/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/16/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	65.40	21.00	128.40	0.00	165.00 <i>ton</i>
Application event totals		65.40	21.00	128.40	0.00	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	729.20	6,750,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	729.20	
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
Lagoon	Process wastewater	38.37	6.66	44.11	316.81	450,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	631.97	5,850,000.00 <i>gal</i>
Application event totals		38.37	6.66	44.11	948.78	
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
Well 3	Ground water	0.00	0.00	0.00	661.14	6,120,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	661.14	

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Field 16 - 06/25/2023: Sorghum

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	37.21	8.94	34.47	335.72	495,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	622.25	5,760,000.00 <i>gal</i>
Application event totals		37.21	8.94	34.47	957.97	
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
Well 3	Ground water	0.00	0.00	0.00	670.87	6,210,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	670.87	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	680.59	6,300,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	680.59	
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
Well 3	Ground water	0.00	0.00	0.00	661.14	6,120,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	661.14	

Field 17 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 17

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/09/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	59.40	21.00	137.40	0.00	165.00 <i>ton</i>
Application event totals		59.40	21.00	137.40	0.00	

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Field 17 - 11/16/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/21/2022	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
Well 7	Ground water	0.00	0.00	0.00	1,317.48	6,480,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,317.48	
12/23/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	57.22	11.01	82.53	415.64	562,500.00 <i>gal</i>
Well 7	Ground water	0.00	0.00	0.00	1,225.99	6,030,000.00 <i>gal</i>
Application event totals		57.22	11.01	82.53	1,641.62	
01/28/2023	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	80.11	15.41	115.54	581.89	787,500.00 <i>gal</i>
Well 7	Ground water	0.00	0.00	0.00	1,171.09	5,760,000.00 <i>gal</i>
Application event totals		80.11	15.41	115.54	1,752.98	
03/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 7	Ground water	0.00	0.00	0.00	1,189.39	5,850,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,189.39	
04/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 7	Ground water	0.00	0.00	0.00	1,225.99	6,030,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,225.99	

Field 17 - 06/26/2023: Sorghum

Field name: Field 17

Crop: Sorghum

Plant date: 06/26/2023

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Reporting period 01/01/2023 to 12/31/2023.

Field 17 - 06/26/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/16/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	65.40	21.00	128.40	0.00	165.00 <i>ton</i>
Application event totals		65.40	21.00	128.40	0.00	
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
Well 3	Ground water	0.00	0.00	0.00	719.48	6,660,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	719.48	
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	38.37	6.66	44.11	316.81	450,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	612.53	5,670,000.00 <i>gal</i>
Application event totals		38.37	6.66	44.11	929.34	
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
Well 3	Ground water	0.00	0.00	0.00	661.14	6,120,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	661.14	
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	37.21	8.94	34.47	335.72	495,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	651.42	6,030,000.00 <i>gal</i>
Application event totals		37.21	8.94	34.47	987.14	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	690.31	6,390,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	690.31	

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Reporting period 01/01/2023 to 12/31/2023.

Field 17 - 06/26/2023: Sorghum

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
Well 3		Ground water	0.00	0.00	0.00	690.31	6,390,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	690.31	
09/21/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3		Ground water	0.00	0.00	0.00	631.97	5,850,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	631.97	

Field 18 - 11/17/2022: Wheat, silage, boot stage

Field name: Field 18

Crop: Wheat, silage, boot stage

Plant date: 11/17/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/10/2022	Plow/disc		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	59.40	21.00	137.40	0.00	237.00 <i>ton</i>
Application event totals			59.40	21.00	137.40	0.00	
11/25/2022	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 7		Ground water	0.00	0.00	0.00	1,210.24	8,550,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	1,210.24	
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
Lagoon		Process wastewater	47.81	9.20	68.95	347.24	675,000.00 <i>gal</i>
Well 7		Ground water	0.00	0.00	0.00	1,095.58	7,740,000.00 <i>gal</i>
Application event totals			47.81	9.20	68.95	1,442.82	

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Field 18 - 11/17/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/31/2023	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	39.84	7.66	57.46	289.37	562,500.00 <i>gal</i>
Well 7	Ground water	0.00	0.00	0.00	1,082.84	7,650,000.00 <i>gal</i>
Application event totals		39.84	7.66	57.46	1,372.21	
03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 7	Ground water	0.00	0.00	0.00	1,108.32	7,830,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,108.32	
04/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 7	Ground water	0.00	0.00	0.00	891.75	6,300,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	891.75	

Field 19 - 11/17/2022: Wheat, silage, boot stage

Field name: Field 19

Crop: Wheat, silage, boot stage

Plant date: 11/17/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
11/10/2022	Plow/disc		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	128.90	45.57	298.17	0.00	416.65 <i>ton</i>
Application event totals			128.90	45.57	298.17	0.00	
11/15/2022	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
PrePlant		Solid commercial fertilizer	100.00	0.00	0.00	0.00	
Application event totals			100.00	0.00	0.00	0.00	

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Field 19 - 11/17/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/17/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,970.88	8,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,970.88	
12/17/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,794.38	7,320,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,794.38	
02/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,706.14	6,960,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,706.14	
04/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,735.55	7,080,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,735.55	

Field 2 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 2

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/08/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	118.80	42.00	274.80	0.00	426.00 <i>ton</i>
Application event totals		118.80	42.00	274.80	0.00	

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Field 2 - 11/15/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/29/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	610.06	7,290,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	610.06	
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
Lagoon	Process wastewater	26.60	5.12	38.36	193.18	337,500.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	595.00	7,110,000.00 <i>gal</i>
Application event totals		26.60	5.12	38.36	788.18	
03/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	542.28	6,480,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	542.28	
04/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	26.60	5.12	38.36	193.18	337,500.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	527.22	6,300,000.00 <i>gal</i>
Application event totals		26.60	5.12	38.36	720.40	

Field 20 - 11/17/2022: Wheat, silage, boot stage

Field name: Field 20

Crop: Wheat, silage, boot stage

Plant date: 11/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 20 - 11/17/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/10/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	128.40	45.39	297.01	0.00	557.70 <i>ton</i>
Application event totals		128.40	45.39	297.01	0.00	
11/15/2022	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
PrePlant	Solid commercial fertilizer	100.00	0.00	0.00	0.00	
Application event totals		100.00	0.00	0.00	0.00	
11/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,707.50	9,360,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,707.50	
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
Well 8	Ground water	0.00	0.00	0.00	1,685.61	9,240,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,685.61	
02/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,466.70	8,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,466.70	
04/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,488.59	8,160,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,488.59	

Field 20 - 06/26/2023: Sorghum

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Field 20 - 06/26/2023: Sorghum

Field name: Field 20

Crop: Sorghum

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/05/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	152.25	48.89	298.90	0.00	600.60 <i>ton</i>
Application event totals		152.25	48.89	298.90	0.00	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	696.42	10,080,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	696.42	
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
Well 3	Ground water	0.00	0.00	0.00	634.24	9,180,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	634.24	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	615.58	8,910,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	615.58	
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
Well 3	Ground water	0.00	0.00	0.00	603.15	8,730,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	603.15	
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
Well 3	Ground water	0.00	0.00	0.00	609.36	8,820,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	609.36	

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Field 20 - 06/26/2023: Sorghum

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
Well 3		Ground water	0.00	0.00	0.00	609.36	8,820,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	609.36	
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
Well 3		Ground water	0.00	0.00	0.00	603.15	8,730,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	603.15	

Field 21 - 11/17/2022: Wheat, silage, boot stage

Field name: Field 21

Crop: Wheat, silage, boot stage

Plant date: 11/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/10/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	128.00	45.25	296.09	0.00	478.40 <i>ton</i>
Application event totals		128.00	45.25	296.09	0.00	
11/15/2022	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
PrePlant	Solid commercial fertilizer	100.00	0.00	0.00	0.00	
Application event totals		100.00	0.00	0.00	0.00	
11/24/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,857.19	8,760,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,857.19	

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Field 21 - 11/17/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/24/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,806.31	8,520,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,806.31	
02/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,653.66	7,800,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,653.66	
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
Well 8	Ground water	0.00	0.00	0.00	1,704.55	8,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,704.55	

Field 22 - 11/17/2022: Wheat, silage, boot stage

Field name: Field 22

Crop: Wheat, silage, boot stage

Plant date: 11/17/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
11/10/2022	Plow/disc		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	131.84	46.61	304.96	0.00	546.00 <i>ton</i>
Application event totals			131.84	46.61	304.96	0.00	
11/15/2022	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
PrePlant		Solid commercial fertilizer	100.00	0.00	0.00	0.00	
Application event totals			100.00	0.00	0.00	0.00	

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Field 22 - 11/17/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/27/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,653.04	8,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,653.04	
12/27/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,607.12	8,400,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,607.12	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,584.17	8,280,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,584.17	
04/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	1,630.08	8,520,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	1,630.08	

Field 22 - 06/26/2023: Sorghum

Field name: Field 22

Crop: Sorghum

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/05/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	152.60	49.00	299.60	0.00	574.00 <i>ton</i>
Application event totals		152.60	49.00	299.60	0.00	

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Field 22 - 06/26/2023: Sorghum

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
Well 3	Ground water	0.00	0.00	0.00	684.74	9,450,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	684.74	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	619.52	8,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	619.52	
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
Well 3	Ground water	0.00	0.00	0.00	632.57	8,730,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	632.57	
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
Well 3	Ground water	0.00	0.00	0.00	619.52	8,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	619.52	
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
Well 3	Ground water	0.00	0.00	0.00	626.05	8,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	626.05	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	619.52	8,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	619.52	

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Field 22 - 06/26/2023: Sorghum

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
Well 3	Ground water	0.00	0.00	0.00	632.57	8,730,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	632.57	

Field 3 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 3

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/08/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	129.21	45.68	298.89	0.00	489.45 <i>ton</i>
Application event totals		129.21	45.68	298.89	0.00	
11/25/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	563.27	7,110,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	563.27	
12/28/2022	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	25.18	4.84	36.31	182.88	337,500.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	556.14	7,020,000.00 <i>gal</i>
Application event totals		25.18	4.84	36.31	739.02	
03/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	520.49	6,570,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	520.49	

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Field 3 - 11/15/2022: Wheat, silage, boot stage

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	43.64	8.40	62.94	316.99	585,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	484.84	6,120,000.00 <i>gal</i>
Application event totals		43.64	8.40	62.94	801.83	

Field 4 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 4

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
11/08/2022	Plow/disc	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	128.70	45.50	297.70	0.00	292.50 <i>ton</i>
Application event totals			128.70	45.50	297.70	0.00	
11/20/2022	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4		Ground water	0.00	0.00	0.00	927.13	4,950,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	927.13	
12/13/2022	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4		Ground water	0.00	0.00	0.00	825.99	4,410,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	825.99	
02/28/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4		Ground water	0.00	0.00	0.00	809.13	4,320,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	809.13	

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Field 4 - 11/16/2022: Wheat, silage, boot stage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
04/02/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4		Ground water	0.00	0.00	0.00	758.56	4,050,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	758.56	
04/14/2023	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
Well 4		Ground water	0.00	0.00	0.00	691.13	3,690,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	691.13	

Field 4 - 06/25/2023: Sorghum

Field name: Field 4

Crop: Sorghum

Plant date: 06/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/02/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	119.90	38.50	235.40	0.00	247.50 <i>ton</i>
Application event totals		119.90	38.50	235.40	0.00	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	950.66	7,200,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	950.66	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	926.90	7,020,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	926.90	

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Field 4 - 06/25/2023: Sorghum

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
Well 3	Ground water	0.00	0.00	0.00	891.25	6,750,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	891.25	
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
Well 3	Ground water	0.00	0.00	0.00	879.36	6,660,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	879.36	
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
Well 3	Ground water	0.00	0.00	0.00	867.48	6,570,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	867.48	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	879.36	6,660,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	879.36	
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
Well 3	Ground water	0.00	0.00	0.00	891.25	6,750,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	891.25	

Field 5 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 5

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 5 - 11/16/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/08/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	128.88	45.56	298.11	0.00	475.15 <i>ton</i>
Application event totals		128.88	45.56	298.11	0.00	
11/21/2022	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
Well 3	Ground water	0.00	0.00	0.00	564.05	6,930,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	564.05	
12/24/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	46.56	8.96	67.15	338.20	607,500.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	512.77	6,300,000.00 <i>gal</i>
Application event totals		46.56	8.96	67.15	850.98	
02/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	527.42	6,480,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	527.42	
04/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	41.39	7.96	59.69	300.63	540,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	505.45	6,210,000.00 <i>gal</i>
Application event totals		41.39	7.96	59.69	806.07	

Field 5 - 06/25/2023: Sorghum

Field name: Field 5

Crop: Sorghum

Plant date: 06/25/2023

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Field 5 - 06/25/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/02/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	120.20	38.60	235.99	0.00	402.50 <i>ton</i>
Application event totals		120.20	38.60	235.99	0.00	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	0.00	0.00	0.00	695.90	8,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	695.90	
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
Lagoon	Process wastewater	44.60	10.71	41.32	402.40	787,500.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	651.95	8,010,000.00 <i>gal</i>
Application event totals		44.60	10.71	41.32	1,054.36	
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
Well 3	Ground water	0.00	0.00	0.00	622.65	7,650,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	622.65	
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
Well 3	Ground water	0.00	0.00	0.00	615.33	7,560,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	615.33	
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	38.23	9.18	35.42	344.92	675,000.00 <i>gal</i>
Well 3	Ground water	0.00	0.00	0.00	615.33	7,560,000.00 <i>gal</i>
Application event totals		38.23	9.18	35.42	960.24	

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Field 5 - 06/25/2023: Sorghum

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
Well 3		Ground water	0.00	0.00	0.00	629.98	7,740,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	629.98	
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
Well 3		Ground water	0.00	0.00	0.00	644.63	7,920,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	644.63	

Field 6 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 6

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/09/2022	Plow/disc		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	129.41	45.75	299.33	0.00	477.10 <i>ton</i>
Application event totals			129.41	45.75	299.33	0.00	
11/17/2022	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3		Ground water	0.00	0.00	0.00	556.72	6,840,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	556.72	
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
Lagoon		Process wastewater	43.11	8.29	62.18	313.15	562,500.00 <i>gal</i>
Well 3		Ground water	0.00	0.00	0.00	512.77	6,300,000.00 <i>gal</i>
Application event totals			43.11	8.29	62.18	825.92	

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Field 6 - 11/16/2022: Wheat, silage, boot stage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
02/25/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3		Ground water	0.00	0.00	0.00	505.45	6,210,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	505.45	
03/30/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	41.39	7.96	59.69	300.63	540,000.00 <i>gal</i>
Well 3		Ground water	0.00	0.00	0.00	476.15	5,850,000.00 <i>gal</i>
Application event totals			41.39	7.96	59.69	776.77	

Field 6 - 06/25/2023: Sorghum

Field name: Field 6

Crop: Sorghum

Plant date: 06/25/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following		
05/02/2023	Plow/disc		No precipitation	No precipitation		No precipitation		
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure			Corral solids	120.56	38.71	236.69	0.00	403.70 <i>ton</i>
Application event totals				120.56	38.71	236.69	0.00	
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
Well 3			Ground water	0.00	0.00	0.00	703.23	8,640,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	703.23	

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Field 6 - 06/25/2023: Sorghum

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	40.77	9.79	37.78	367.91	720,000.00 <i>gal</i>	
Well 3		Ground water	0.00	0.00	0.00	659.28	8,100,000.00 <i>gal</i>	
Application event totals			40.77	9.79	37.78	1,027.19		
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	
Well 3		Ground water	0.00	0.00	0.00	615.33	7,560,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	615.33		
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	38.23	9.18	35.42	344.92	675,000.00 <i>gal</i>	
Well 3		Ground water	0.00	0.00	0.00	659.28	8,100,000.00 <i>gal</i>	
Application event totals			38.23	9.18	35.42	1,004.20		
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	
Well 3		Ground water	0.00	0.00	0.00	608.00	7,470,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	608.00		
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	
Well 3		Ground water	0.00	0.00	0.00	666.60	8,190,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	666.60		
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	
Well 3		Ground water	0.00	0.00	0.00	666.60	8,190,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	666.60		

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Field 7 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 7

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/09/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	129.67	45.84	299.95	0.00	347.10 <i>ton</i>
Application event totals		129.67	45.84	299.95	0.00	
11/27/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4	Ground water	0.00	0.00	0.00	572.50	3,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	572.50	
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
Well 4	Ground water	0.00	0.00	0.00	543.87	3,420,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	543.87	
03/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4	Ground water	0.00	0.00	0.00	110.92	697,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	110.92	
04/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4	Ground water	0.00	0.00	0.00	458.00	2,880,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	458.00	

Field 9 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 9

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

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Field 9 - 11/15/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/09/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	128.70	45.50	297.70	0.00	227.50 <i>ton</i>
Application event totals		128.70	45.50	297.70	0.00	
11/23/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4	Ground water	0.00	0.00	0.00	866.93	3,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	866.93	
12/16/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4	Ground water	0.00	0.00	0.00	823.58	3,420,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	823.58	
03/03/2023	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
Well 4	Ground water	0.00	0.00	0.00	671.87	2,790,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	671.87	
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
Well 4	Ground water	0.00	0.00	0.00	693.54	2,880,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	693.54	
04/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4	Ground water	0.00	0.00	0.00	715.21	2,970,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	715.21	

Field 9 - 06/25/2023: Sorghum

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Field 9 - 06/25/2023: Sorghum

Field name: Field 9

Crop: Sorghum

Plant date: 06/25/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
05/02/2023	Plow/disc	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Manure		Corral solids	109.00	35.00	214.00	0.00	175.00 <i>ton</i>	
Application event totals			109.00	35.00	214.00	0.00		
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	
Well 3		Ground water	0.00	0.00	0.00	687.53	4,050,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	687.53		
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	
Well 3		Ground water	0.00	0.00	0.00	611.14	3,600,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	611.14		
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	
Well 3		Ground water	0.00	0.00	0.00	641.70	3,780,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	641.70		
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	
Well 3		Ground water	0.00	0.00	0.00	656.98	3,870,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	656.98		
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	
Well 3		Ground water	0.00	0.00	0.00	672.25	3,960,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	672.25		

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Field 9 - 06/25/2023: Sorghum

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
Well 3			Ground water	0.00	0.00	0.00	672.25	3,960,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	672.25	
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
Well 3			Ground water	0.00	0.00	0.00	687.53	4,050,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	687.53	

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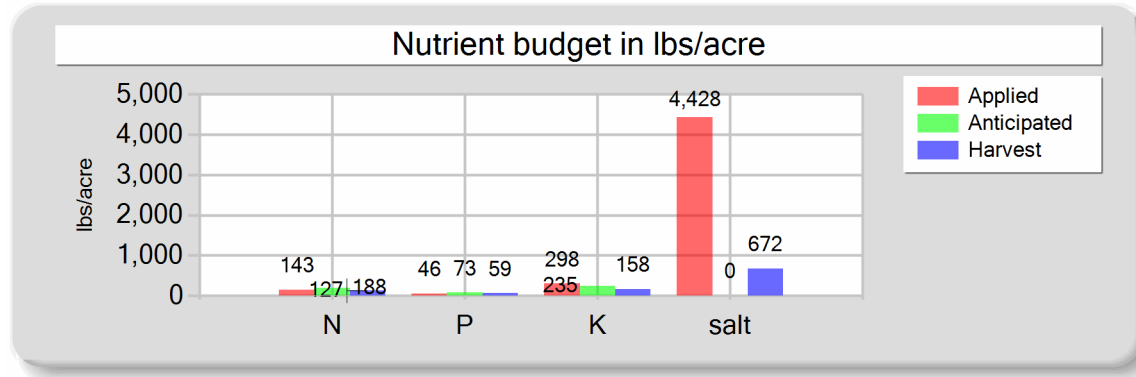
B. NUTRIENT BUDGET

Field 1 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 1

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	42,030,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,547.82 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	19.35 inches/acre
Dry manure	128.70	45.50	297.70	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	4,428.10	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	142.70	45.50	297.70	4,428.10	
Anticipated crop nutrient removal	187.60	72.80	235.20	0.00	
Actual crop nutrient removal	126.56	59.06	157.50	671.51	
Nutrient balance	16.14	-13.56	140.20	3,756.58	
Applied to removed ratio	1.13	0.77	1.89	6.59	
					Process wastewater applied
					0.00 gallons
					0.00 acre-inches
					0.00 inches/acre
					Total harvests for the crop
					1 harvests

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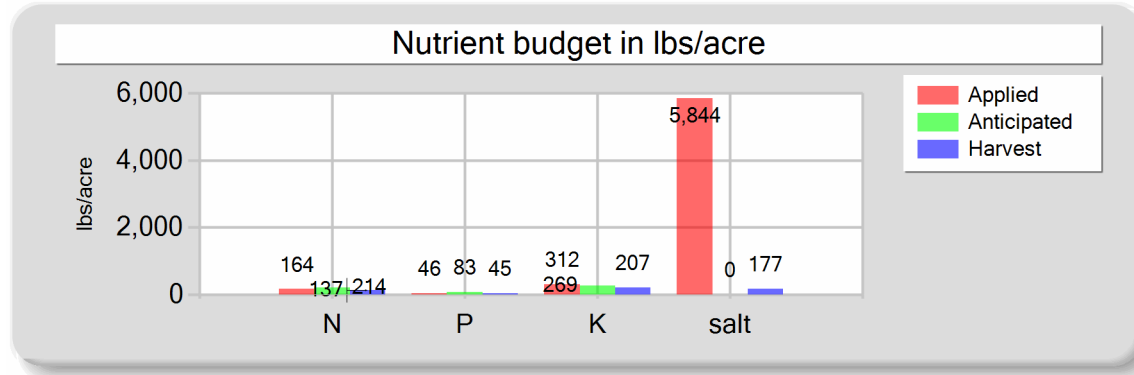
Reporting period 01/01/2023 to 12/31/2023.

Field 11 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 11

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022



	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	98.07	34.67	226.85	0.00
Process wastewater	59.01	11.35	85.11	428.63
Fresh water	0.00	0.00	0.00	5,415.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	164.09	46.03	311.96	5,844.24
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	137.20	44.80	207.20	176.51
Nutrient balance	26.89	1.23	104.76	5,667.73
Applied to removed ratio	1.20	1.03	1.51	33.11

Fresh water applied
23,100,000.00 <i>gallons</i>
850.69 <i>acre-inches</i>
26.58 <i>inches/acre</i>

Process wastewater applied
337,500.00 <i>gallons</i>
12.43 <i>acre-inches</i>
0.39 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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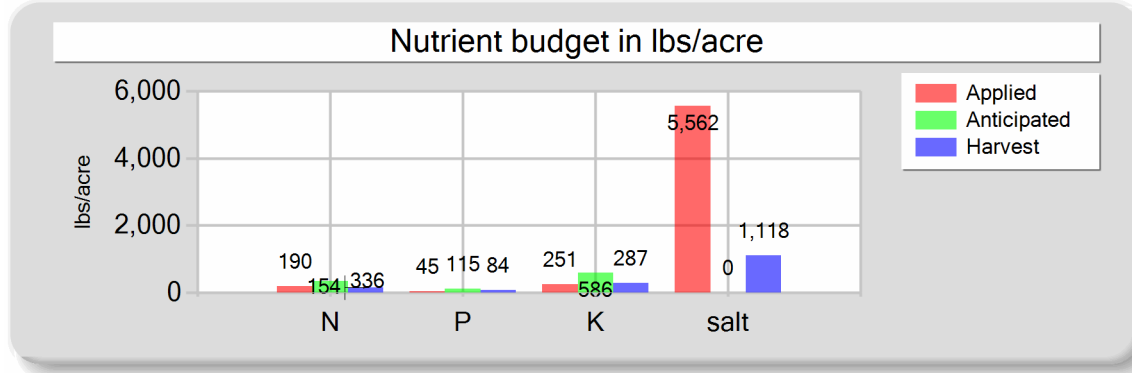
Reporting period 01/01/2023 to 12/31/2023.

Field 11 - 06/26/2023: Sorghum

Field name: Field 11

Crop: Sorghum

Plant date: 06/26/2023



	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	0.00	0.00	0.00	0.00
Dry manure	64.79	20.80	127.20	0.00
Process wastewater	118.27	24.02	124.29	1,016.62
Fresh water	0.00	0.00	0.00	4,545.35
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	190.06	44.82	251.48	5,561.97
Anticipated crop nutrient removal	336.00	115.20	585.60	0.00
Actual crop nutrient removal	154.44	83.84	286.81	1,118.04
Nutrient balance	35.62	-39.01	-35.33	4,443.93
Applied to removed ratio	1.23	0.53	0.88	4.97

Fresh water applied
24,480,000.00 <i>gallons</i>
901.52 <i>acre-inches</i>
28.17 <i>inches/acre</i>

Process wastewater applied
855,000.00 <i>gallons</i>
31.49 <i>acre-inches</i>
0.98 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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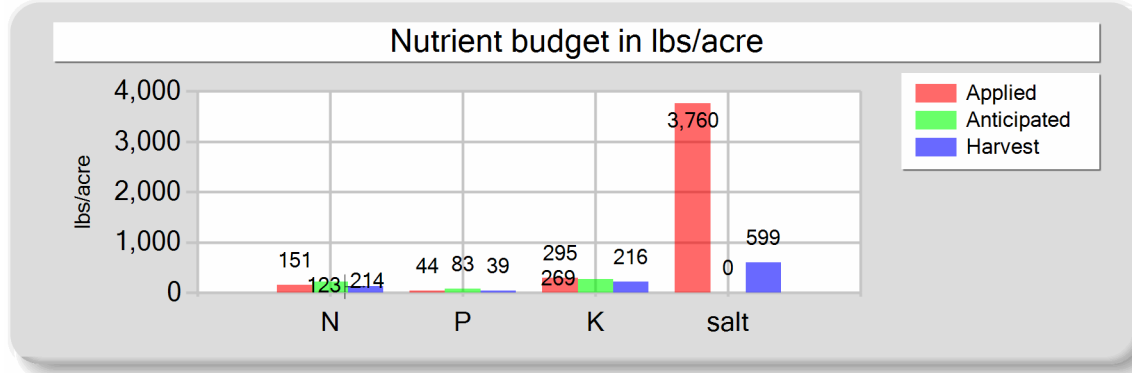
Reporting period 01/01/2023 to 12/31/2023.

Field 12 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 12

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022



	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	99.78	35.27	230.80	0.00
Process wastewater	44.43	8.55	64.08	322.73
Fresh water	0.00	0.00	0.00	3,436.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	151.21	43.82	294.88	3,759.60
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	123.00	39.00	216.00	598.50
Nutrient balance	28.21	4.82	78.88	3,161.10
Applied to removed ratio	1.23	1.12	1.37	6.28

Fresh water applied
23,364,000.00 <i>gallons</i>
860.42 <i>acre-inches</i>
16.87 <i>inches/acre</i>

Process wastewater applied
405,000.00 <i>gallons</i>
14.91 <i>acre-inches</i>
0.29 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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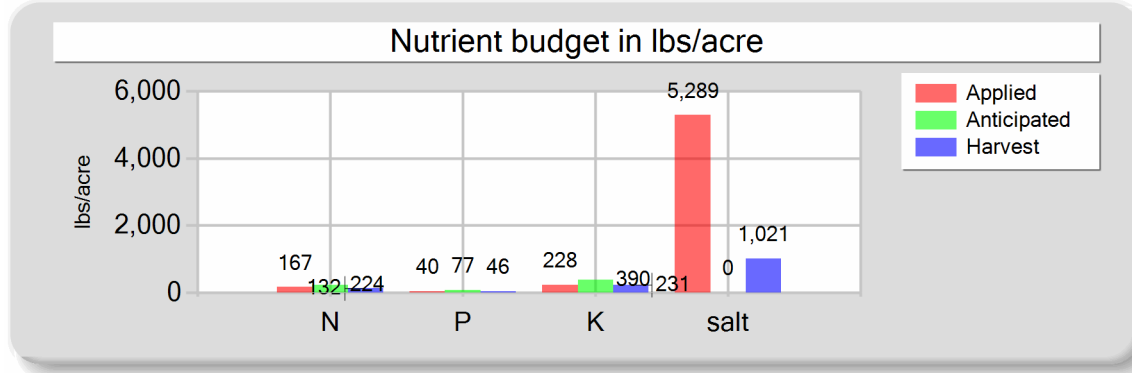
Reporting period 01/01/2023 to 12/31/2023.

Field 12 - 06/26/2023: Sorghum

Field name: Field 12

Crop: Sorghum

Plant date: 06/26/2023



	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	0.00	0.00	0.00	0.00
Dry manure	65.91	21.16	129.41	0.00
Process wastewater	93.92	18.98	99.01	806.20
Fresh water	0.00	0.00	0.00	4,482.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	166.83	40.15	228.42	5,288.64
Anticipated crop nutrient removal	224.00	76.80	390.40	0.00
Actual crop nutrient removal	131.76	46.12	230.59	1,021.34
Nutrient balance	35.07	-5.97	-2.17	4,267.30
Applied to removed ratio	1.27	0.87	0.99	5.18

Fresh water applied
38,475,000.00 <i>gallons</i>
1,416.90 <i>acre-inches</i>
27.78 <i>inches/acre</i>

Process wastewater applied
1,080,000.00 <i>gallons</i>
39.77 <i>acre-inches</i>
0.78 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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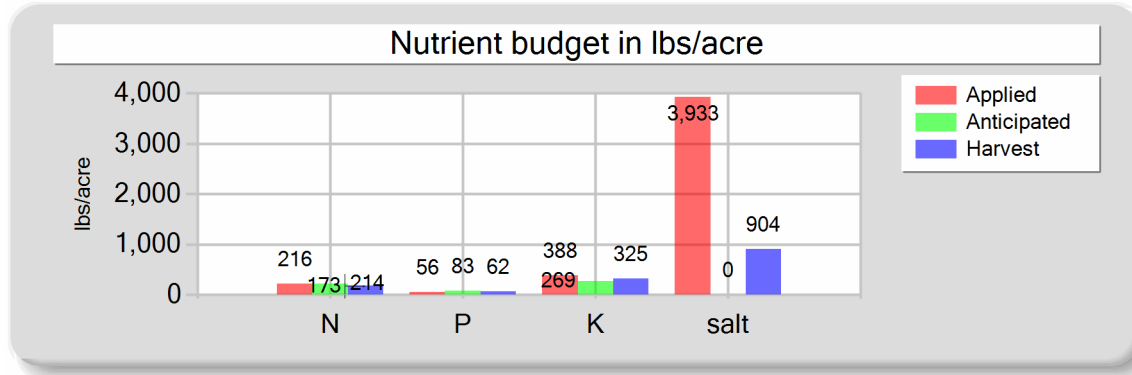
Reporting period 01/01/2023 to 12/31/2023.

Field 13 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 13

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022



	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	98.48	34.82	227.79	0.00
Process wastewater	110.99	21.35	160.07	806.12
Fresh water	0.00	0.00	0.00	3,127.21
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	216.47	56.17	387.86	3,933.33
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	173.16	61.84	324.67	904.44
Nutrient balance	43.31	-5.67	63.19	3,028.89
Applied to removed ratio	1.25	0.91	1.19	4.35

Fresh water applied
31,680,000.00 <i>gallons</i>
1,166.67 <i>acre-inches</i>
15.35 <i>inches/acre</i>

Process wastewater applied
1,507,500.00 <i>gallons</i>
55.52 <i>acre-inches</i>
0.73 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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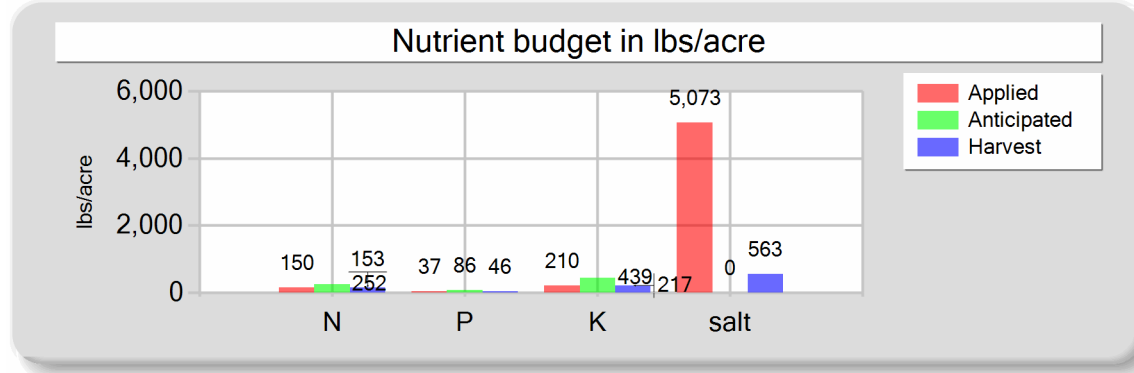
Reporting period 01/01/2023 to 12/31/2023.

Field 13 - 06/26/2023: Sorghum

Field name: Field 13

Crop: Sorghum

Plant date: 06/26/2023



	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	0.00	0.00	0.00	0.00
Dry manure	65.06	20.89	127.72	0.00
Process wastewater	78.37	16.05	81.90	675.20
Fresh water	0.00	0.00	0.00	4,397.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	150.43	36.94	209.62	5,072.80
Anticipated crop nutrient removal	252.00	86.40	439.20	0.00
Actual crop nutrient removal	153.22	46.32	217.35	563.41
Nutrient balance	-2.79	-9.38	-7.73	4,509.39
Applied to removed ratio	0.98	0.80	0.96	9.00

Fresh water applied
56,250,000.00 <i>gallons</i>
2,071.50 <i>acre-inches</i>
27.26 <i>inches/acre</i>

Process wastewater applied
1,350,000.00 <i>gallons</i>
49.72 <i>acre-inches</i>
0.65 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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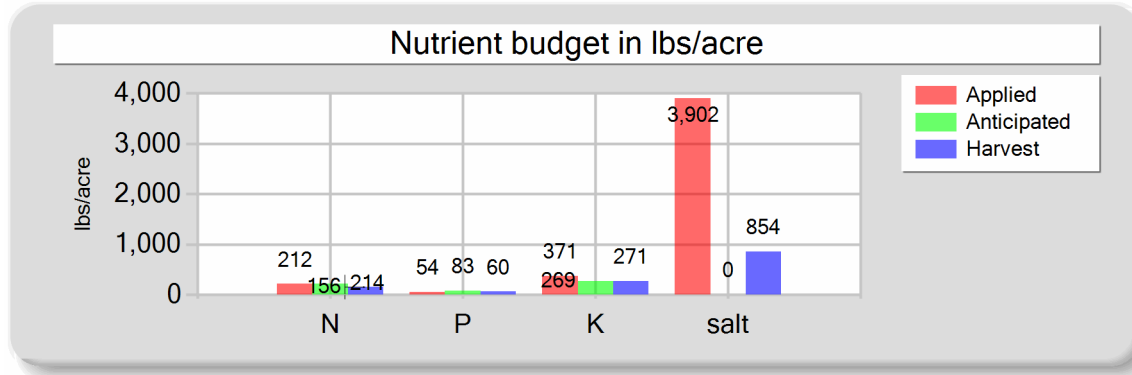
Reporting period 01/01/2023 to 12/31/2023.

Field 14 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 14

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022



	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	99.00	35.00	229.00	0.00
Process wastewater	98.53	18.96	142.10	715.62
Fresh water	0.00	0.00	0.00	3,186.13
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	211.53	53.96	371.10	3,901.75
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	155.58	59.58	271.43	853.75
Nutrient balance	55.95	-5.63	99.66	3,048.00
Applied to removed ratio	1.36	0.91	1.37	4.57

Fresh water applied
29,304,000.00 <i>gallons</i>
1,079.17 <i>acre-inches</i>
15.64 <i>inches/acre</i>

Process wastewater applied
1,215,000.00 <i>gallons</i>
44.74 <i>acre-inches</i>
0.65 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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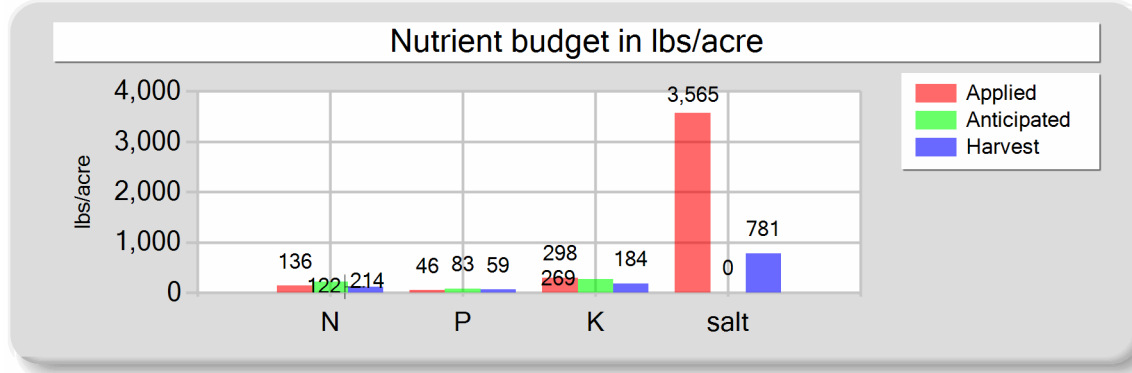
Reporting period 01/01/2023 to 12/31/2023.

Field 15 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 15

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022



	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	128.70	45.50	297.70	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	3,565.23
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	135.70	45.50	297.70	3,565.23
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	121.63	59.33	183.93	780.80
Nutrient balance	14.07	-13.83	113.77	2,784.44
Applied to removed ratio	1.12	0.77	1.62	4.57

Fresh water applied
12,690,000.00 <i>gallons</i>
467.33 <i>acre-inches</i>
15.58 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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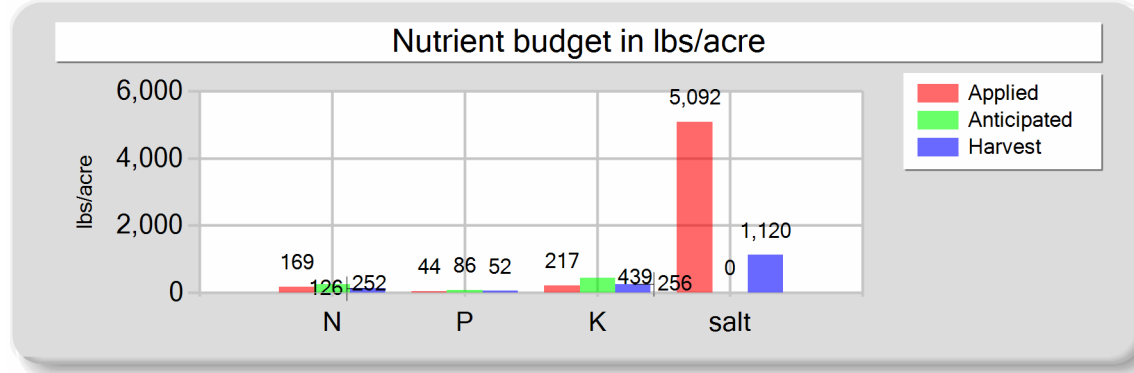
Reporting period 01/01/2023 to 12/31/2023.

Field 15 - 06/25/2023: Sorghum

Field name: Field 15

Crop: Sorghum

Plant date: 06/25/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	65.40	21.00	128.40	0.00
Process wastewater	96.12	23.09	89.06	867.27
Fresh water	0.00	0.00	0.00	4,224.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	168.52	44.09	217.46	5,091.78
Anticipated crop nutrient removal	252.00	86.40	439.20	0.00
Actual crop nutrient removal	125.67	52.00	255.67	1,120.43
Nutrient balance	42.85	-7.91	-38.21	3,971.35
Applied to removed ratio	1.34	0.85	0.85	4.54

Fresh water applied
21,330,000.00 <i>gallons</i>
785.51 <i>acre-inches</i>
26.18 <i>inches/acre</i>

Process wastewater applied
697,500.00 <i>gallons</i>
25.69 <i>acre-inches</i>
0.86 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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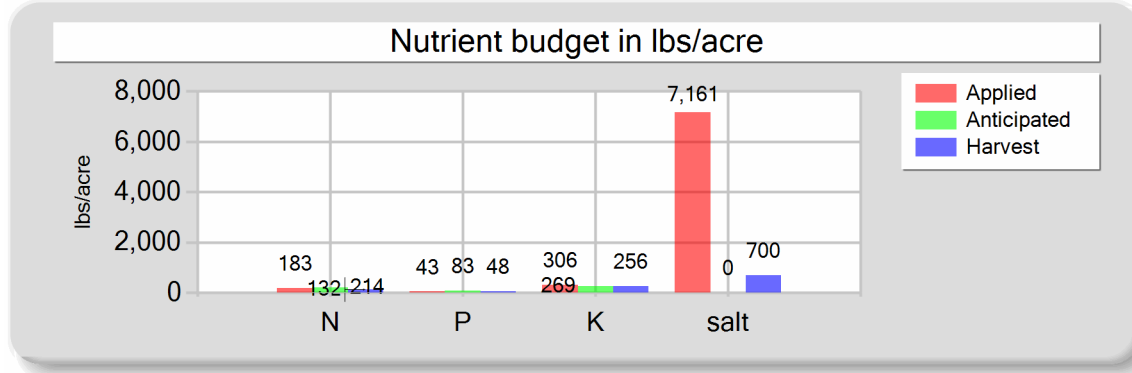
Reporting period 01/01/2023 to 12/31/2023.

Field 16 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 16

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022



	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	59.40	21.00	137.40	0.00
Process wastewater	116.74	22.46	168.36	847.90
Fresh water	0.00	0.00	0.00	6,312.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	183.14	43.46	305.76	7,160.82
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	132.00	48.00	256.00	700.40
Nutrient balance	51.14	-4.54	49.76	6,460.42
Applied to removed ratio	1.39	0.91	1.19	10.22

Fresh water applied
31,050,000.00 <i>gallons</i>
1,143.47 <i>acre-inches</i>
20.79 <i>inches/acre</i>

Process wastewater applied
1,147,500.00 <i>gallons</i>
42.26 <i>acre-inches</i>
0.77 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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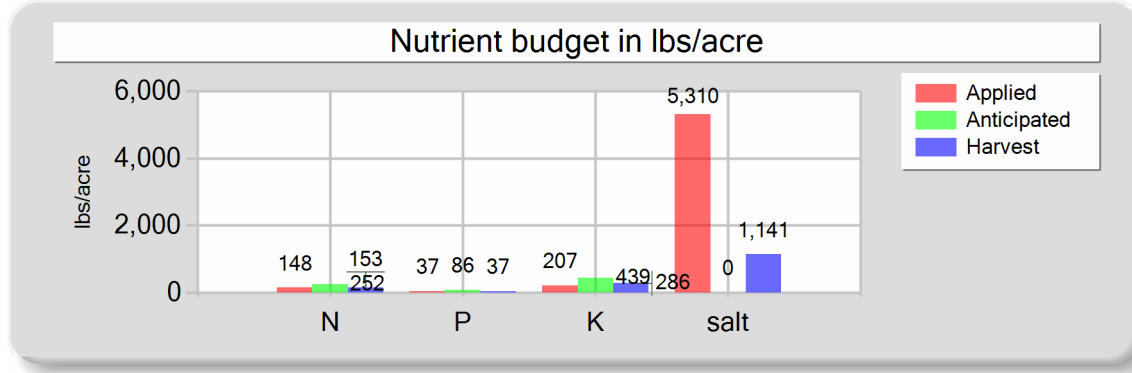
Reporting period 01/01/2023 to 12/31/2023.

Field 16 - 06/25/2023: Sorghum

Field name: Field 16

Crop: Sorghum

Plant date: 06/25/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	65.40	21.00	128.40	0.00
Process wastewater	75.58	15.60	78.58	652.53
Fresh water	0.00	0.00	0.00	4,657.17
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	147.98	36.60	206.98	5,309.69
Anticipated crop nutrient removal	252.00	86.40	439.20	0.00
Actual crop nutrient removal	153.05	36.60	286.15	1,141.39
Nutrient balance	-5.08	0.00	-79.17	4,168.30
Applied to removed ratio	0.97	1.00	0.72	4.65

Fresh water applied
43,110,000.00 <i>gallons</i>
1,587.59 <i>acre-inches</i>
28.87 <i>inches/acre</i>

Process wastewater applied
945,000.00 <i>gallons</i>
34.80 <i>acre-inches</i>
0.63 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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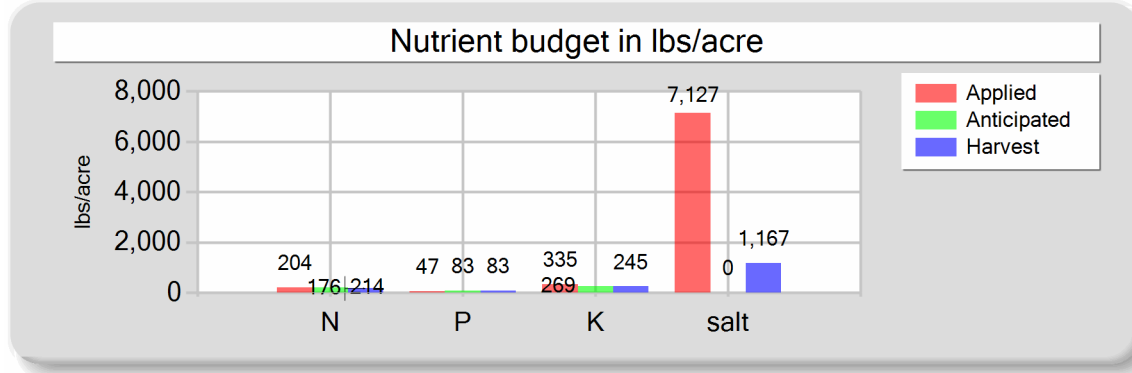
Reporting period 01/01/2023 to 12/31/2023.

Field 17 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 17

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022



	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	59.40	21.00	137.40	0.00
Process wastewater	137.34	26.42	198.07	997.53
Fresh water	0.00	0.00	0.00	6,129.93
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	203.74	47.42	335.47	7,127.46
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	175.77	82.91	245.41	1,167.36
Nutrient balance	27.97	-35.49	90.06	5,960.10
Applied to removed ratio	1.16	0.57	1.37	6.11

Fresh water applied
30,150,000.00 <i>gallons</i>
1,110.32 <i>acre-inches</i>
20.19 <i>inches/acre</i>

Process wastewater applied
1,350,000.00 <i>gallons</i>
49.72 <i>acre-inches</i>
0.90 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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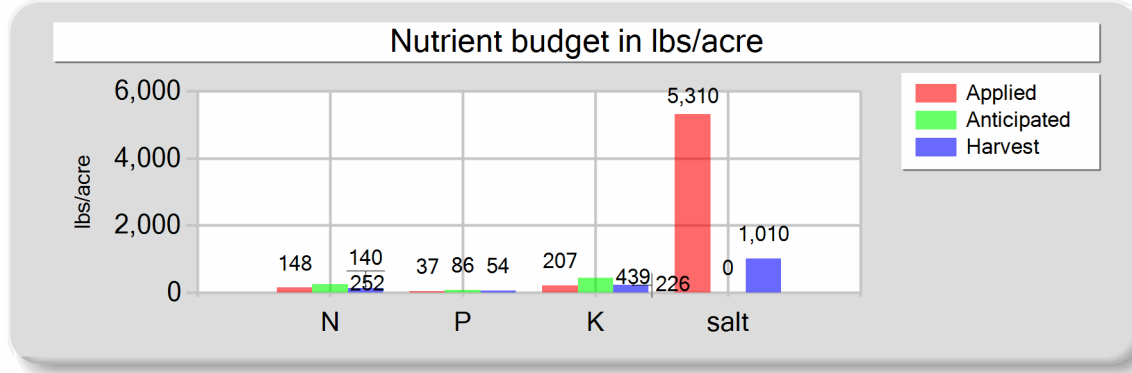
Reporting period 01/01/2023 to 12/31/2023.

Field 17 - 06/26/2023: Sorghum

Field name: Field 17

Crop: Sorghum

Plant date: 06/26/2023



	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	0.00	0.00	0.00	0.00
Dry manure	65.40	21.00	128.40	0.00
Process wastewater	75.58	15.60	78.58	652.53
Fresh water	0.00	0.00	0.00	4,657.17
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	147.98	36.60	206.98	5,309.69
Anticipated crop nutrient removal	252.00	86.40	439.20	0.00
Actual crop nutrient removal	140.00	54.09	225.91	1,009.72
Nutrient balance	7.98	-17.49	-18.93	4,299.97
Applied to removed ratio	1.06	0.68	0.92	5.26

Fresh water applied
43,110,000.00 <i>gallons</i>
1,587.59 <i>acre-inches</i>
28.87 <i>inches/acre</i>

Process wastewater applied
945,000.00 <i>gallons</i>
34.80 <i>acre-inches</i>
0.63 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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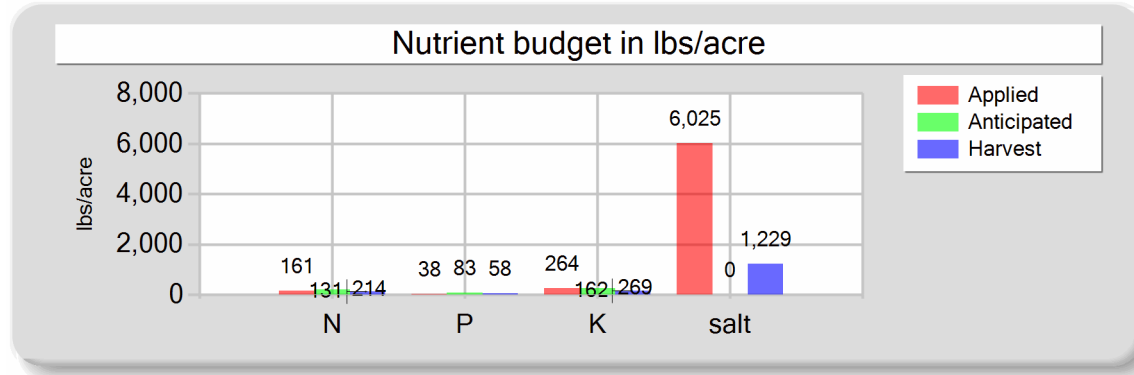
Reporting period 01/01/2023 to 12/31/2023.

Field 18 - 11/17/2022: Wheat, silage, boot stage

Field name: Field 18

Crop: Wheat, silage, boot stage

Plant date: 11/17/2022



	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	59.40	21.00	137.40	0.00
Process wastewater	87.65	16.86	126.41	636.61
Fresh water	0.00	0.00	0.00	5,388.74
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	161.05	37.86	263.81	6,025.35
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	130.56	58.03	161.99	1,229.17
Nutrient balance	30.49	-20.16	101.82	4,796.18
Applied to removed ratio	1.23	0.65	1.63	4.90

Fresh water applied
38,070,000.00 <i>gallons</i>
1,401.99 <i>acre-inches</i>
17.75 <i>inches/acre</i>

Process wastewater applied
1,237,500.00 <i>gallons</i>
45.57 <i>acre-inches</i>
0.58 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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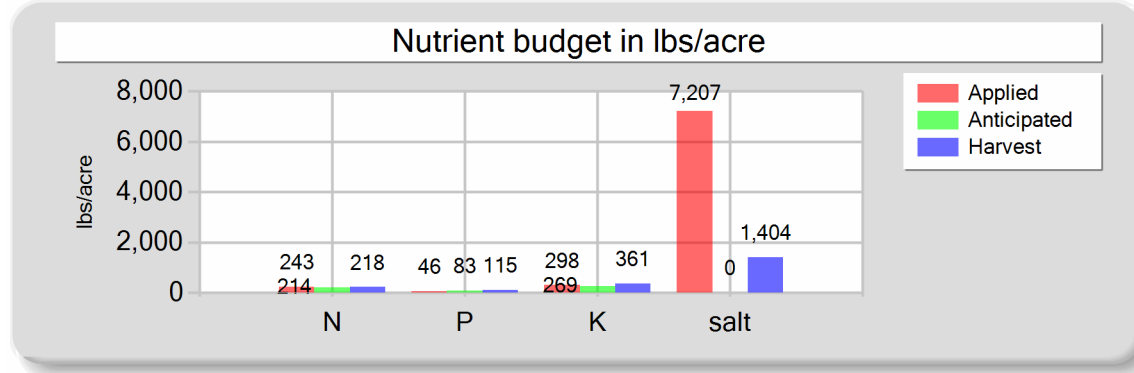
Reporting period 01/01/2023 to 12/31/2023.

Field 19 - 11/17/2022: Wheat, silage, boot stage

Field name: Field 19

Crop: Wheat, silage, boot stage

Plant date: 11/17/2022



	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	100.00	0.00	0.00	0.00
Dry manure	128.90	45.57	298.17	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	7,206.95
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	242.90	45.57	298.17	7,206.95
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	218.27	114.50	361.39	1,403.95
Nutrient balance	24.64	-68.93	-63.23	5,803.00
Applied to removed ratio	1.11	0.40	0.83	5.13

Fresh water applied
29,400,000.00 <i>gallons</i>
1,082.70 <i>acre-inches</i>
16.92 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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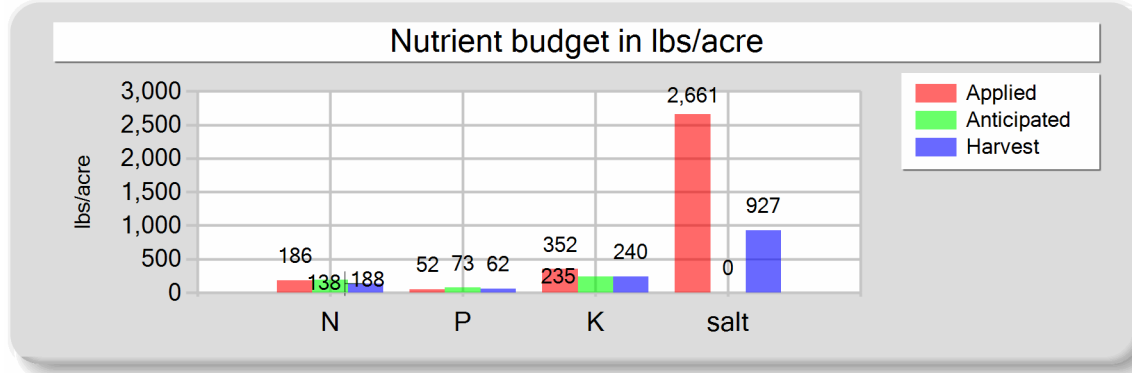
Reporting period 01/01/2023 to 12/31/2023.

Field 2 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 2

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022



	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	118.80	42.00	274.80	0.00
Process wastewater	53.19	10.23	76.72	386.37
Fresh water	0.00	0.00	0.00	2,274.56
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	185.99	52.23	351.52	2,660.93
Anticipated crop nutrient removal	187.60	72.80	235.20	0.00
Actual crop nutrient removal	137.69	61.52	240.23	926.77
Nutrient balance	48.30	-9.29	111.29	1,734.16
Applied to removed ratio	1.35	0.85	1.46	2.87

Fresh water applied
27,180,000.00 <i>gallons</i>
1,000.95 <i>acre-inches</i>
14.10 <i>inches/acre</i>

Process wastewater applied
675,000.00 <i>gallons</i>
24.86 <i>acre-inches</i>
0.35 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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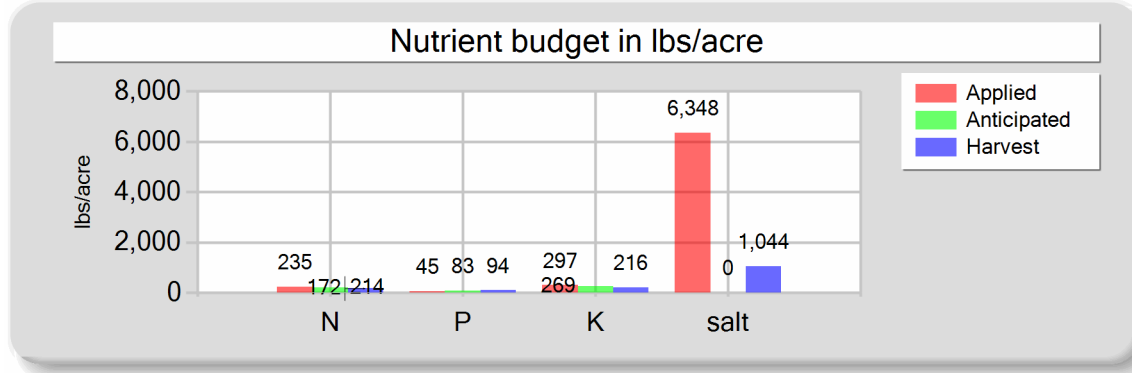
Reporting period 01/01/2023 to 12/31/2023.

Field 20 - 11/17/2022: Wheat, silage, boot stage

Field name: Field 20

Crop: Wheat, silage, boot stage

Plant date: 11/17/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	34,800,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,281.57 <i>acre-inches</i>
Commercial fertilizer / Other	100.00	0.00	0.00	0.00	14.90 <i>inches/acre</i>
Dry manure	128.40	45.39	297.01	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	6,348.41	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	235.40	45.39	297.01	6,348.41	
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00	
Actual crop nutrient removal	172.42	94.05	215.52	1,044.27	
Nutrient balance	62.98	-48.65	81.48	5,304.14	
Applied to removed ratio	1.37	0.48	1.38	6.08	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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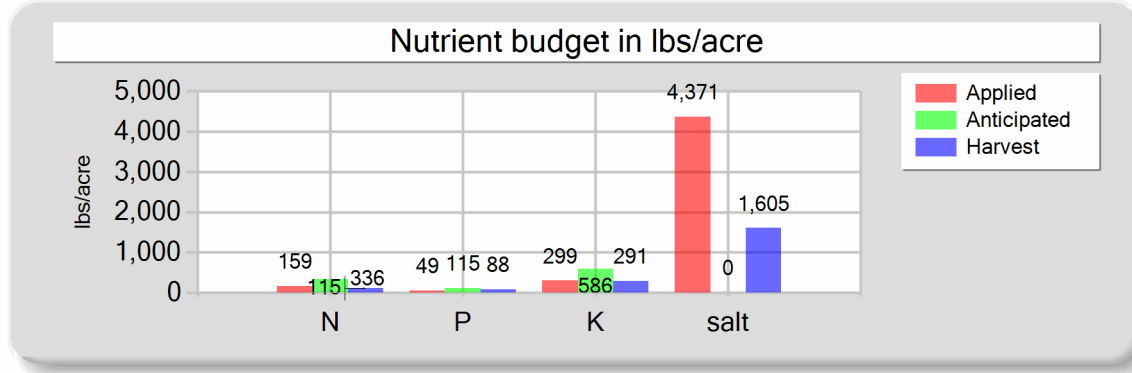
Reporting period 01/01/2023 to 12/31/2023.

Field 20 - 06/26/2023: Sorghum

Field name: Field 20

Crop: Sorghum

Plant date: 06/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	63,270,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,330.02 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	27.09 <i>inches/acre</i>
Dry manure	152.25	48.89	298.90	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	4,371.25	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	159.25	48.89	298.90	4,371.25	
Anticipated crop nutrient removal	336.00	115.20	585.60	0.00	
Actual crop nutrient removal	115.41	87.71	290.83	1,605.36	
Nutrient balance	43.84	-38.82	8.08	2,765.89	
Applied to removed ratio	1.38	0.56	1.03	2.72	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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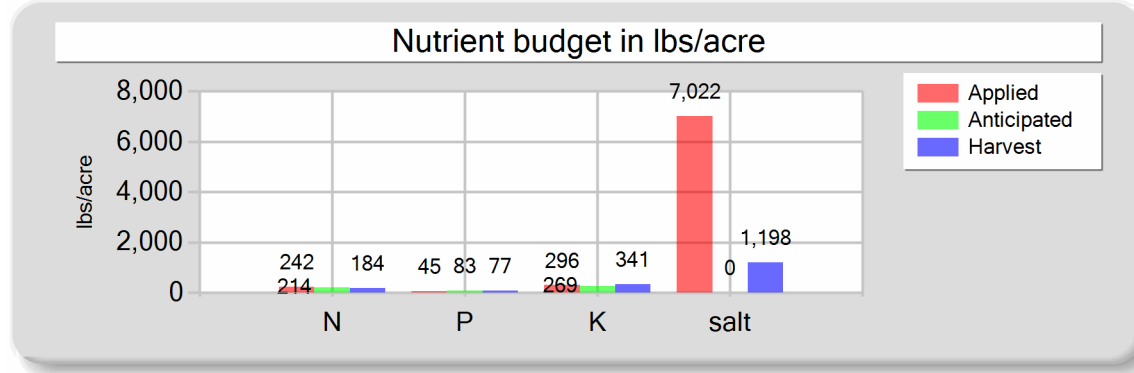
Reporting period 01/01/2023 to 12/31/2023.

Field 21 - 11/17/2022: Wheat, silage, boot stage

Field name: Field 21

Crop: Wheat, silage, boot stage

Plant date: 11/17/2022



	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	100.00	0.00	0.00	0.00
Dry manure	128.00	45.25	296.09	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	7,021.71
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	242.00	45.25	296.09	7,021.71
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	183.88	76.89	341.01	1,198.39
Nutrient balance	58.13	-31.64	-44.92	5,823.32
Applied to removed ratio	1.32	0.59	0.87	5.86

Fresh water applied
33,120,000.00 <i>gallons</i>
1,219.70 <i>acre-inches</i>
16.48 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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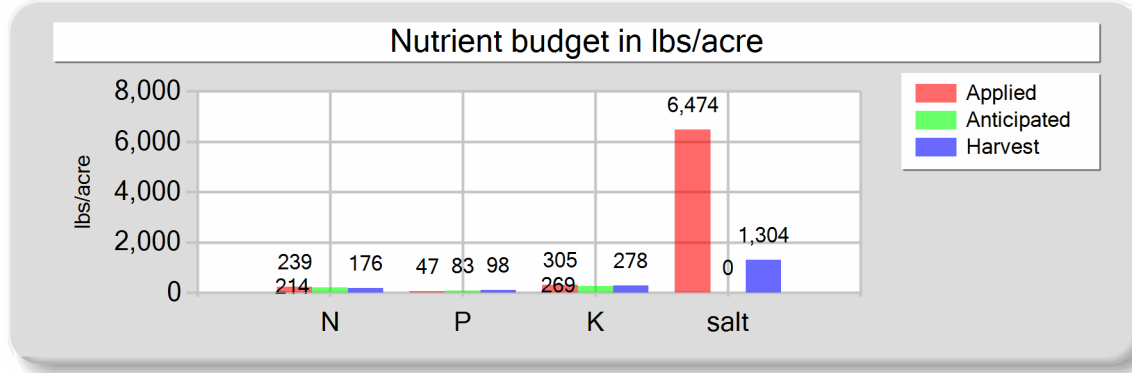
Reporting period 01/01/2023 to 12/31/2023.

Field 22 - 11/17/2022: Wheat, silage, boot stage

Field name: Field 22

Crop: Wheat, silage, boot stage

Plant date: 11/17/2022



	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	100.00	0.00	0.00	0.00
Dry manure	131.84	46.61	304.96	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	6,474.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	238.84	46.61	304.96	6,474.42
Anticipated crop nutrient removal	214.40	83.20	268.80	0.00
Actual crop nutrient removal	176.49	98.05	278.46	1,303.85
Nutrient balance	62.35	-51.44	26.50	5,170.56
Applied to removed ratio	1.35	0.48	1.10	4.97

Fresh water applied
33,840,000.00 <i>gallons</i>
1,246.21 <i>acre-inches</i>
15.20 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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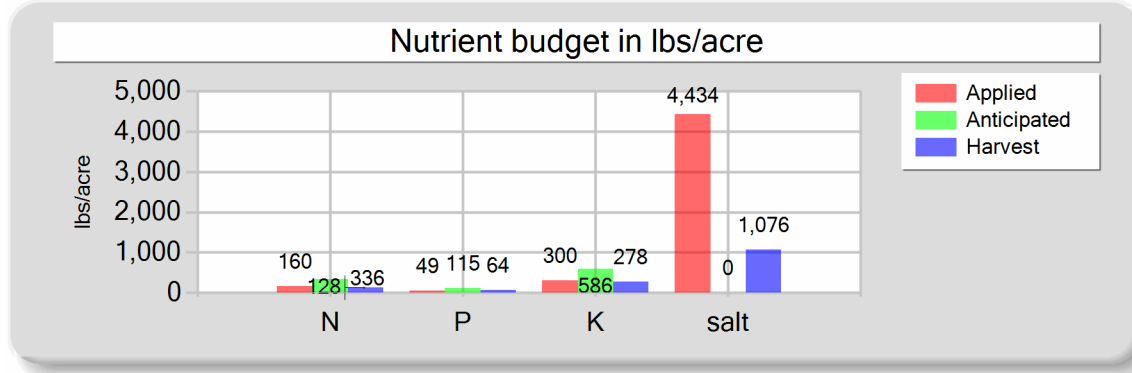
Reporting period 01/01/2023 to 12/31/2023.

Field 22 - 06/26/2023: Sorghum

Field name: Field 22

Crop: Sorghum

Plant date: 06/26/2023



	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	0.00	0.00	0.00	0.00
Dry manure	152.60	49.00	299.60	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	4,434.49
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	159.60	49.00	299.60	4,434.49
Anticipated crop nutrient removal	336.00	115.20	585.60	0.00
Actual crop nutrient removal	128.49	64.24	278.39	1,076.09
Nutrient balance	31.11	-15.24	21.21	3,358.41
Applied to removed ratio	1.24	0.76	1.08	4.12

Fresh water applied
61,200,000.00 <i>gallons</i>
2,253.79 <i>acre-inches</i>
27.49 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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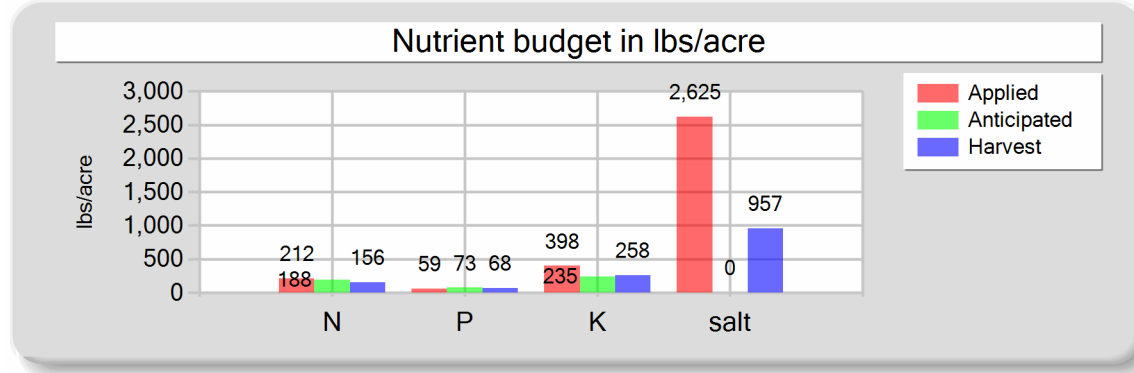
Reporting period 01/01/2023 to 12/31/2023.

Field 3 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 3

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022



	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	129.21	45.68	298.89	0.00
Process wastewater	68.82	13.24	99.26	499.87
Fresh water	0.00	0.00	0.00	2,124.73
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	212.04	58.92	398.15	2,624.60
Anticipated crop nutrient removal	187.60	72.80	235.20	0.00
Actual crop nutrient removal	156.20	68.16	258.44	956.97
Nutrient balance	55.84	-9.24	139.71	1,667.64
Applied to removed ratio	1.36	0.86	1.54	2.74

Fresh water applied
26,820,000.00 <i>gallons</i>
987.69 <i>acre-inches</i>
13.17 <i>inches/acre</i>

Process wastewater applied
922,500.00 <i>gallons</i>
33.97 <i>acre-inches</i>
0.45 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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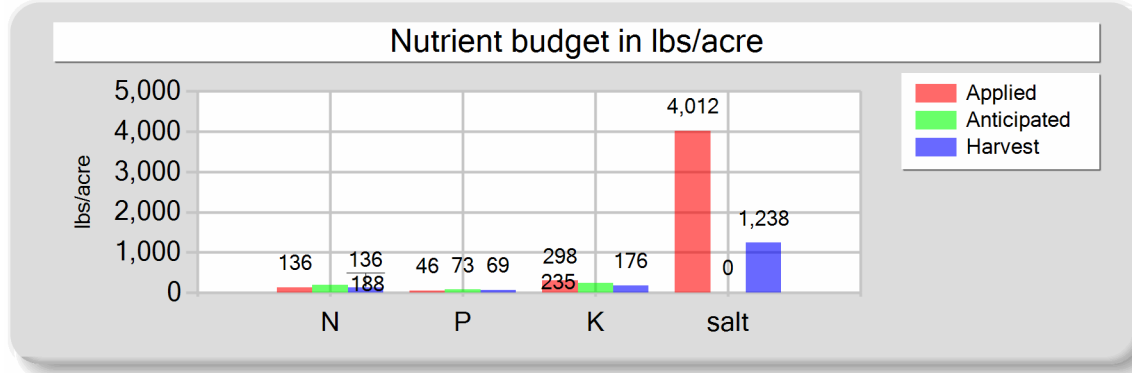
Reporting period 01/01/2023 to 12/31/2023.

Field 4 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 4

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022



	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	128.70	45.50	297.70	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	4,011.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	135.70	45.50	297.70	4,011.94
Anticipated crop nutrient removal	187.60	72.80	235.20	0.00
Actual crop nutrient removal	135.78	69.33	176.22	1,237.60
Nutrient balance	-0.08	-23.83	121.48	2,774.34
Applied to removed ratio	1.00	0.66	1.69	3.24

Fresh water applied
21,420,000.00 <i>gallons</i>
788.83 <i>acre-inches</i>
17.53 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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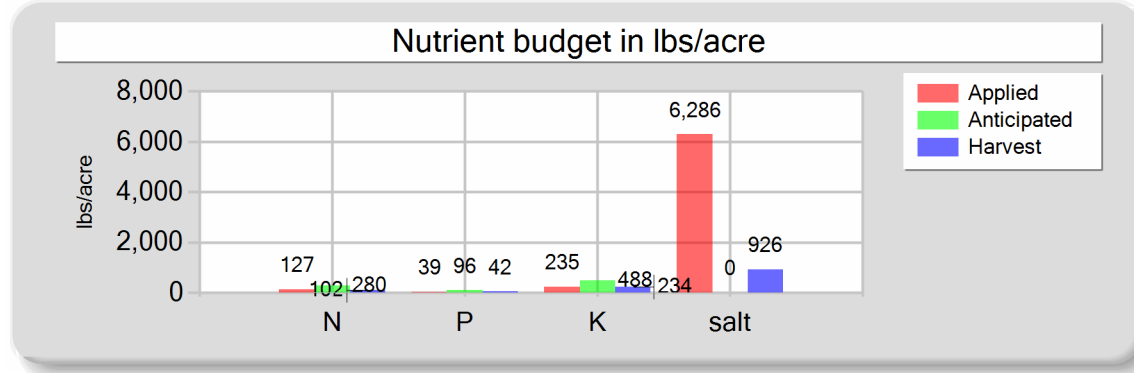
Reporting period 01/01/2023 to 12/31/2023.

Field 4 - 06/25/2023: Sorghum

Field name: Field 4

Crop: Sorghum

Plant date: 06/25/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	119.90	38.50	235.40	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	6,286.26
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	126.90	38.50	235.40	6,286.26
Anticipated crop nutrient removal	280.00	96.00	488.00	0.00
Actual crop nutrient removal	102.00	41.56	234.22	926.08
Nutrient balance	24.90	-3.06	1.18	5,360.17
Applied to removed ratio	1.24	0.93	1.01	6.79

Fresh water applied
47,610,000.00 <i>gallons</i>
1,753.31 <i>acre-inches</i>
38.96 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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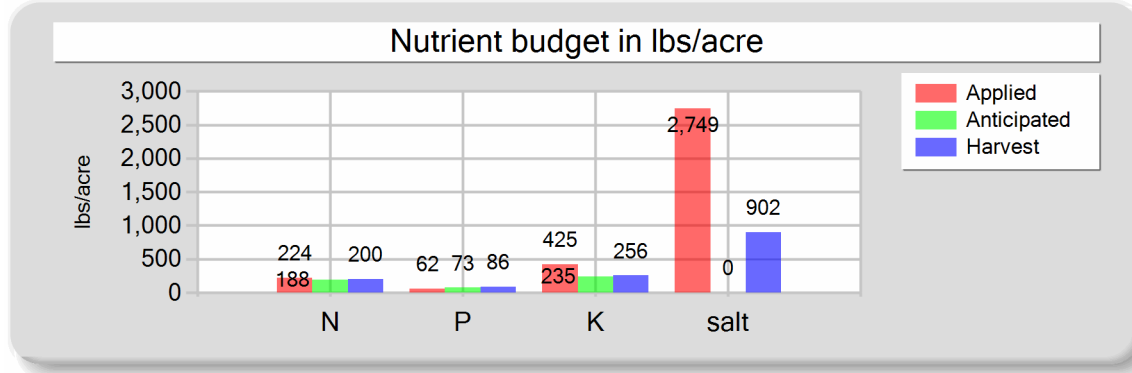
Reporting period 01/01/2023 to 12/31/2023.

Field 5 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 5

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022



	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	128.88	45.56	298.11	0.00
Process wastewater	87.95	16.92	126.85	638.83
Fresh water	0.00	0.00	0.00	2,109.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	223.83	62.48	424.96	2,748.52
Anticipated crop nutrient removal	187.60	72.80	235.20	0.00
Actual crop nutrient removal	200.22	86.21	255.84	901.99
Nutrient balance	23.61	-23.72	169.12	1,846.53
Applied to removed ratio	1.12	0.72	1.66	3.05

Fresh water applied
25,920,000.00 <i>gallons</i>
954.55 <i>acre-inches</i>
13.08 <i>inches/acre</i>

Process wastewater applied
1,147,500.00 <i>gallons</i>
42.26 <i>acre-inches</i>
0.58 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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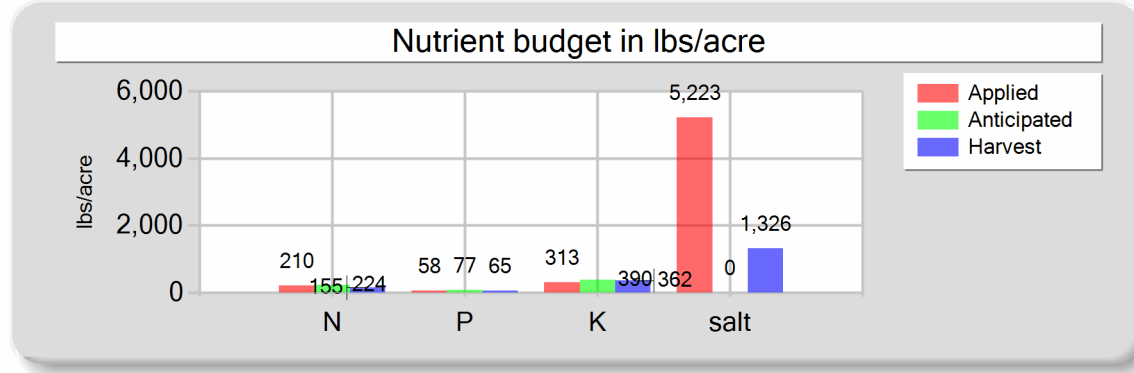
Reporting period 01/01/2023 to 12/31/2023.

Field 5 - 06/25/2023: Sorghum

Field name: Field 5

Crop: Sorghum

Plant date: 06/25/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	120.20	38.60	235.99	0.00
Process wastewater	82.82	19.90	76.74	747.32
Fresh water	0.00	0.00	0.00	4,475.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	210.02	58.49	312.72	5,223.08
Anticipated crop nutrient removal	224.00	76.80	390.40	0.00
Actual crop nutrient removal	155.10	65.48	361.89	1,326.24
Nutrient balance	54.93	-6.99	-49.17	3,896.84
Applied to removed ratio	1.35	0.89	0.86	3.94

Fresh water applied
54,990,000.00 <i>gallons</i>
2,025.09 <i>acre-inches</i>
27.74 <i>inches/acre</i>

Process wastewater applied
1,462,500.00 <i>gallons</i>
53.86 <i>acre-inches</i>
0.74 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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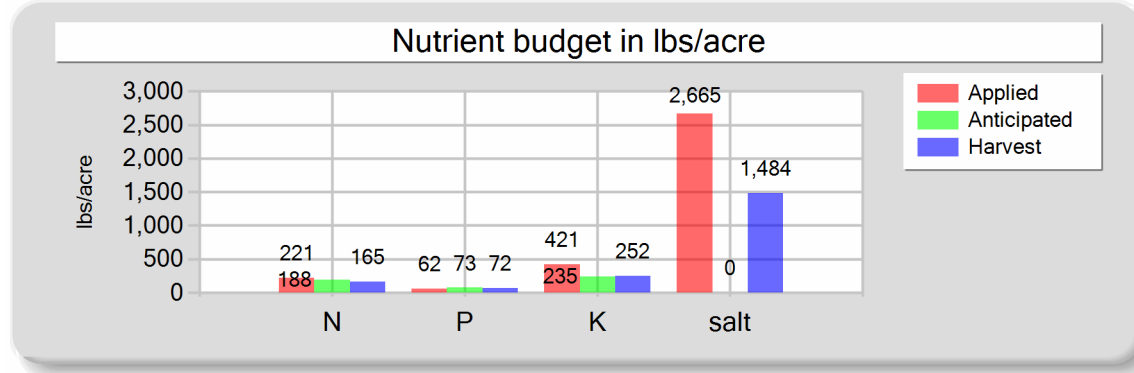
Reporting period 01/01/2023 to 12/31/2023.

Field 6 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 6

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022



	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	129.41	45.75	299.33	0.00
Process wastewater	84.50	16.26	121.87	613.78
Fresh water	0.00	0.00	0.00	2,051.09
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	220.91	62.01	421.20	2,664.86
Anticipated crop nutrient removal	187.60	72.80	235.20	0.00
Actual crop nutrient removal	165.00	72.00	252.00	1,484.34
Nutrient balance	55.91	-9.99	169.20	1,180.52
Applied to removed ratio	1.34	0.86	1.67	1.80

Fresh water applied
25,200,000.00 <i>gallons</i>
928.03 <i>acre-inches</i>
12.71 <i>inches/acre</i>

Process wastewater applied
1,102,500.00 <i>gallons</i>
40.60 <i>acre-inches</i>
0.56 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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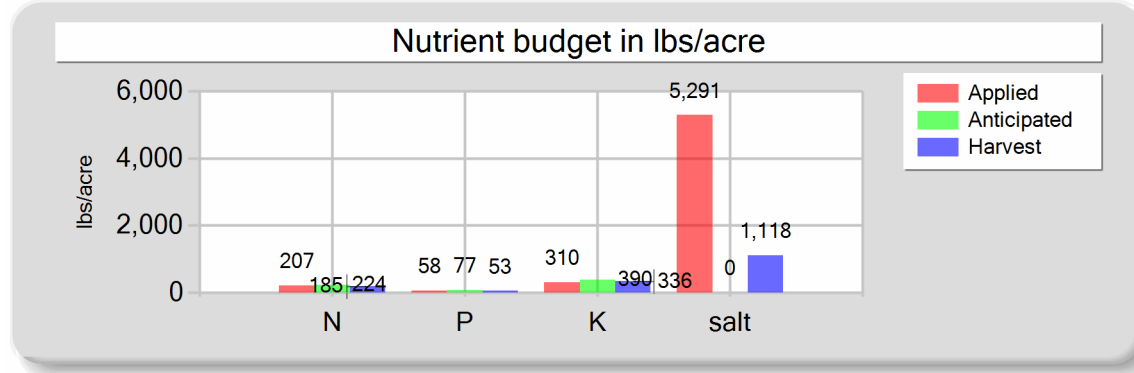
Reporting period 01/01/2023 to 12/31/2023.

Field 6 - 06/25/2023: Sorghum

Field name: Field 6

Crop: Sorghum

Plant date: 06/25/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	120.56	38.71	236.69	0.00
Process wastewater	79.00	18.98	73.20	712.83
Fresh water	0.00	0.00	0.00	4,578.32
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	206.56	57.69	309.89	5,291.15
Anticipated crop nutrient removal	224.00	76.80	390.40	0.00
Actual crop nutrient removal	184.72	52.78	336.46	1,118.24
Nutrient balance	21.83	4.91	-26.57	4,172.91
Applied to removed ratio	1.12	1.09	0.92	4.73

Fresh water applied
56,250,000.00 <i>gallons</i>
2,071.50 <i>acre-inches</i>
28.38 <i>inches/acre</i>

Process wastewater applied
1,395,000.00 <i>gallons</i>
51.37 <i>acre-inches</i>
0.70 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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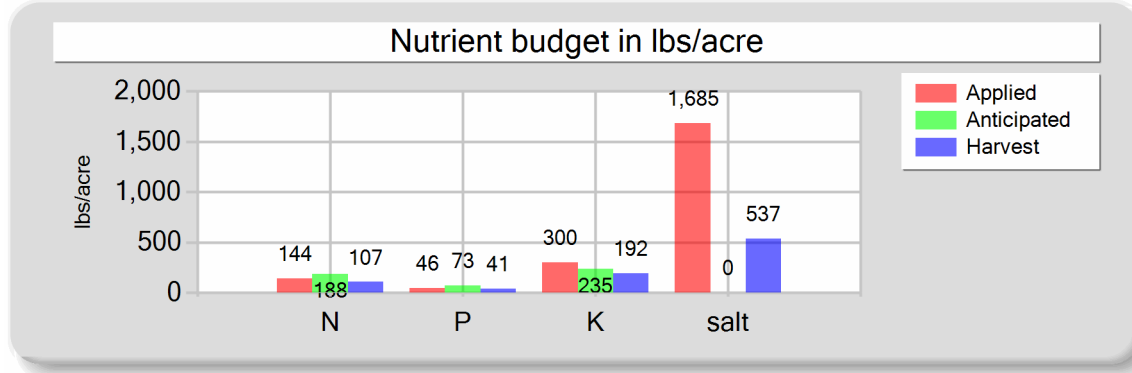
Reporting period 01/01/2023 to 12/31/2023.

Field 7 - 11/16/2022: Wheat, silage, boot stage

Field name: Field 7

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022



	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	129.67	45.84	299.95	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	1,685.29
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	143.67	45.84	299.95	1,685.29
Anticipated crop nutrient removal	187.60	72.80	235.20	0.00
Actual crop nutrient removal	106.51	41.42	192.30	537.29
Nutrient balance	37.17	4.42	107.64	1,148.00
Applied to removed ratio	1.35	1.11	1.56	3.14

Fresh water applied
10,597,500.00 <i>gallons</i>
390.27 <i>acre-inches</i>
7.36 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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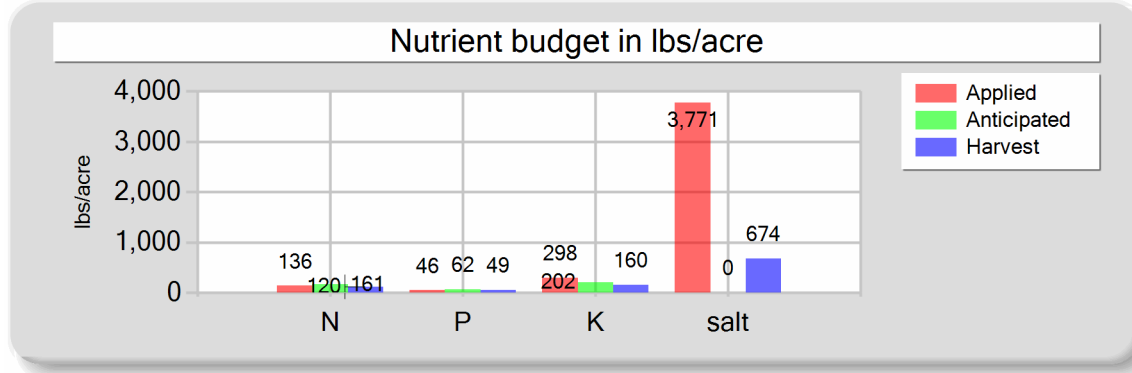
Reporting period 01/01/2023 to 12/31/2023.

Field 9 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 9

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022



	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	128.70	45.50	297.70	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	3,771.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	135.70	45.50	297.70	3,771.13
Anticipated crop nutrient removal	160.80	62.40	201.60	0.00
Actual crop nutrient removal	120.00	48.57	160.00	674.40
Nutrient balance	15.70	-3.07	137.70	3,096.73
Applied to removed ratio	1.13	0.94	1.86	5.59

Fresh water applied
15,660,000.00 <i>gallons</i>
576.70 <i>acre-inches</i>
16.48 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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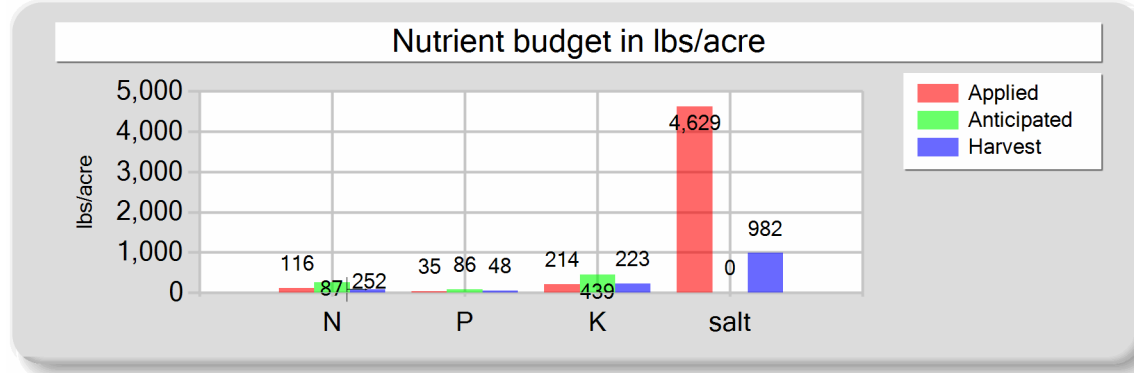
Reporting period 01/01/2023 to 12/31/2023.

Field 9 - 06/25/2023: Sorghum

Field name: Field 9

Crop: Sorghum

Plant date: 06/25/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	109.00	35.00	214.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	4,629.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	116.00	35.00	214.00	4,629.39
Anticipated crop nutrient removal	252.00	86.40	439.20	0.00
Actual crop nutrient removal	87.17	48.43	222.77	981.94
Nutrient balance	28.83	-13.43	-8.77	3,647.45
Applied to removed ratio	1.33	0.72	0.96	4.71

Fresh water applied
27,270,000.00 gallons
1,004.26 acre-inches
28.69 inches/acre

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

Total harvests for the crop
1 harvests

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Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT ANALYSES

A. MANURE ANALYSES

22J1669

Sample and source description: 22J1669

Sample date: 10/26/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 37.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,900.00	3,500.00	22,900.00	8,200.00	3,800.00	6,400.00	4,100.00	11,000.00		0.00
DL	0.10	0.01	0.01	0.10	0.01	0.01	0.01	0.01		10.00

23F0880

Sample and source description: 23F0880

Sample date: 06/07/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 42.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,900.00	3,500.00	21,400.00	8,600.00	3,700.00	1,400.00	2,700.00	7,000.00		0.00
DL	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

23I1783

Sample and source description: 23I1783

Sample date: 09/27/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 43.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,100.00	3,900.00	12,200.00	6,600.00	3,200.00	5,000.00	2,600.00	6,000.00		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10		10.00

B. PROCESS WASTEWATER ANALYSES

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

22J1666

Sample and source description: 22J1666

Sample date: 10/27/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	298.00	252.00	0.00	1.00	59.40	364.00									2,800
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23A0679

Sample and source description: 23A0679

Sample date: 01/25/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	669.00	424.00	0.00	1.50	129.00	967.00									4,870
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23F0874

Sample and source description: 23F0874

Sample date: 06/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	561.00	376.00	0.00	1.00	97.60	646.00	222.00	140.00	435.00	2,810.00	0.00	210.00	472.00		4,640
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

23I1789

Sample and source description: 23I1789

Sample date: 09/27/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	495.00	286.00	0.00	0.40	119.00	459.00	221.00	120.00	367.00	2,210.00	0.00	291.00	373.00		4,470
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

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23K0059

Sample and source description: 23K0059

Sample date: 11/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	542.00	317.00	0.00	1.20	99.30	503.00	208.00	120.00	413.00	2,700.00	0.00	182.00	342.00		4,020
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

C. FRESH WATER ANALYSES

Canal

23J0307

Sample description: 23J0307

Sample date: 10/03/2023 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										26.50	
DL	0.01										1.00	

Henry's Well

23L0098

Sample description: 23L0098

Sample date: 12/04/2023 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			278.00	78.90	890.00	412.00	0.00	1,790.00	186.00	1,560.00	3,300
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.00	10

Well 1

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Well 1

23L0098

Sample description: 23L0098

Sample date: 12/04/2023 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			66.10	15.20	338.00	461.00	0.00	480.00	44.90	1,910.00	1,190
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.00	10

Well 2

23L0098

Sample description: 23L0098

Sample date: 12/04/2023 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			59.50	13.50	307.00	430.00	0.00	474.00	45.40	1,910.00	1,190
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.00	10

Well 3

23L0098

Sample description: 23L0098

Sample date: 12/04/2023 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			34.10	7.20	228.00	398.00	0.00	172.00	63.10	1,260.00	712
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.00	10

Well 4

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Well 4

23L0098

Sample description: 23L0098

Sample date: 12/04/2023 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			64.80	14.50	303.00	363.00	0.00	352.00	81.00	1,620.00	1,010
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.00	10

Well 5

23L0098

Sample description: 23L0098

Sample date: 12/04/2023 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			267.00	54.00	478.00	325.00	0.00	167.00	1,330.00	3,460.00	638
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.00	10

Well 6

23L0098

Sample description: 23L0098

Sample date: 12/04/2023 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			119.00	16.10	283.00	322.00	0.00	484.00	84.70	1,830.00	1,160
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.00	10

Well 7

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Well 7

23L0098

Sample description: 23L0098

Sample date: 12/04/2023 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			129.00	18.60	300.00	324.00	0.00	542.00	91.20	1,960.00	1,340
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.00	10

Well 8

23L0098

Sample description: 23L0098

Sample date: 12/04/2023 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			171.00	37.00	462.00	335.00	0.00	918.00	115.00	2,760.00	1,880
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.00	10

Well 9

23L0098

Sample description: 23L0098

Sample date: 12/04/2023 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			127.00	36.00	466.00	349.00	0.00	848.00	129.00	2,740.00	1,820
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.00	10

D. SOIL ANALYSES

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No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field 1 - 11/15/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 74.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	2,100.00	5,600.00		9.40
DL	0.01	0.01	0.01		0.01

Field 11 - 11/15/2022: Wheat, silage, boot stage

23E1394

Sample and source description: 23E1394

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 80.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	1,600.00	7,400.00		3.20
DL	0.01	0.01	0.01		0.01

Field 11 - 06/26/2023: Sorghum

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Field 11 - 06/26/2023: Sorghum

23J1747

Sample and source description: 23J1747

Sample date: 10/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 79.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,500.00	1,900.00	6,500.00		12.30
DL	0.01	0.01	0.01		0.01

Field 12 - 11/15/2022: Wheat, silage, boot stage

23E1394

Sample and source description: 23E1394

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 82.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	1,300.00	7,200.00		11.40
DL	0.01	0.01	0.01		0.01

Field 12 - 06/26/2023: Sorghum

23J1747

Sample and source description: 23J1747

Sample date: 10/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 73.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	1,400.00	7,000.00		11.70
DL	0.01	0.01	0.01		0.01

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Field 13 - 11/15/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 77.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	2,000.00	10,500.00		13.00
DL	0.01	0.01	0.01		0.01

Field 13 - 06/26/2023: Sorghum

23J0993

Sample and source description: 23J0993

Sample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 76.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	1,300.00	6,100.00		6.70
DL	0.01	0.01	0.01		0.01

Field 14 - 11/16/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 75.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	1,800.00	8,200.00		10.40
DL	0.01	0.01	0.01		0.01

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Field 15 - 11/16/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	2,000.00	6,200.00		9.30
DL	0.01	0.01	0.01		0.01

Field 15 - 06/25/2023: Sorghum

23J0312

Sample and source description: 23J0312

Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 74.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	2,900.00	1,200.00	5,900.00		10.10
DL	0.01	0.01	0.01		0.01

Field 16 - 11/16/2022: Wheat, silage, boot stage

23E1394

Sample and source description: 23E1394

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 83.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,300.00	1,200.00	6,400.00		10.30
DL	0.01	0.01	0.01		0.01

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Field 16 - 06/25/2023: Sorghum

23J0312

Sample and source description: 23J0312

Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 74.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	1,100.00	8,600.00		13.40
DL	0.01	0.01	0.01		0.01

Field 17 - 11/16/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 60.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	2,500.00	7,400.00		8.80
DL	0.01	0.01	0.01		0.01

Field 17 - 06/26/2023: Sorghum

23J1747

Sample and source description: 23J1747

Sample date: 10/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 74.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	1,700.00	7,100.00		12.30
DL	0.01	0.01	0.01		0.01

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Field 18 - 11/17/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 59.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,400.00	2,400.00	6,700.00		12.40
DL	0.01	0.01	0.01		0.01

Field 19 - 11/17/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 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	6,100.00	3,200.00	10,100.00		8.70
DL	0.01	0.01	0.01		0.01

Field 2 - 11/15/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	2,100.00	8,200.00		11.10
DL	0.01	0.01	0.01		0.01

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Field 20 - 11/17/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 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	4,400.00	2,400.00	5,500.00		8.10
DL	0.01	0.01	0.01		0.01

Field 20 - 06/26/2023: Sorghum

23J1747

Sample and source description: 23J1747

Sample date: 10/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	2,500.00	1,900.00	6,300.00		12.60
DL	0.01	0.01	0.01		0.01

Field 21 - 11/17/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	2,300.00	10,200.00		10.70
DL	0.01	0.01	0.01		0.01

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Field 22 - 11/17/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	2,500.00	7,100.00		10.90
DL	0.01	0.01	0.01		0.01

Field 22 - 06/26/2023: Sorghum

23J0993

Sample and source description: 23J0993

Sample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 79.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,000.00	1,500.00	6,500.00		12.50
DL	0.01	0.01	0.01		0.01

Field 3 - 11/15/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	2,400.00	9,100.00		10.80
DL	0.01	0.01	0.01		0.01

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Field 4 - 11/16/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	2,400.00	6,100.00		12.00
DL	0.01	0.01	0.01		0.01

Field 4 - 06/25/2023: Sorghum

23J0312

Sample and source description: 23J0312

Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 76.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	2,700.00	1,100.00	6,200.00		10.30
DL	0.01	0.01	0.01		0.01

Field 5 - 11/16/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,200.00	3,100.00	9,200.00		10.60
DL	0.01	0.01	0.01		0.01

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Field 5 - 06/25/2023: Sorghum

23J0312

Sample and source description: 23J0312

Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	1,900.00	10,500.00		13.00
DL	0.01	0.01	0.01		0.01

Field 6 - 11/16/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	2,400.00	8,400.00		14.30
DL	0.01	0.01	0.01		0.01

Field 6 - 06/25/2023: Sorghum

23J0312

Sample and source description: 23J0312

Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	1,600.00	10,200.00		11.30
DL	0.01	0.01	0.01		0.01

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Reporting period 01/01/2023 to 12/31/2023.

Field 7 - 11/16/2022: Wheat, silage, boot stage

23E1394

Sample and source description: 23E1394

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 85.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,600.00	1,400.00	6,500.00		12.70
DL	0.01	0.01	0.01		0.01

Field 9 - 11/15/2022: Wheat, silage, boot stage

23E0325

Sample and source description: 23E0325

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	1,700.00	5,600.00		8.40
DL	0.01	0.01	0.01		0.01

Field 9 - 06/25/2023: Sorghum

23J0312

Sample and source description: 23J0312

Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	2,700.00	1,500.00	6,900.00		11.10
DL	0.01	0.01	0.01		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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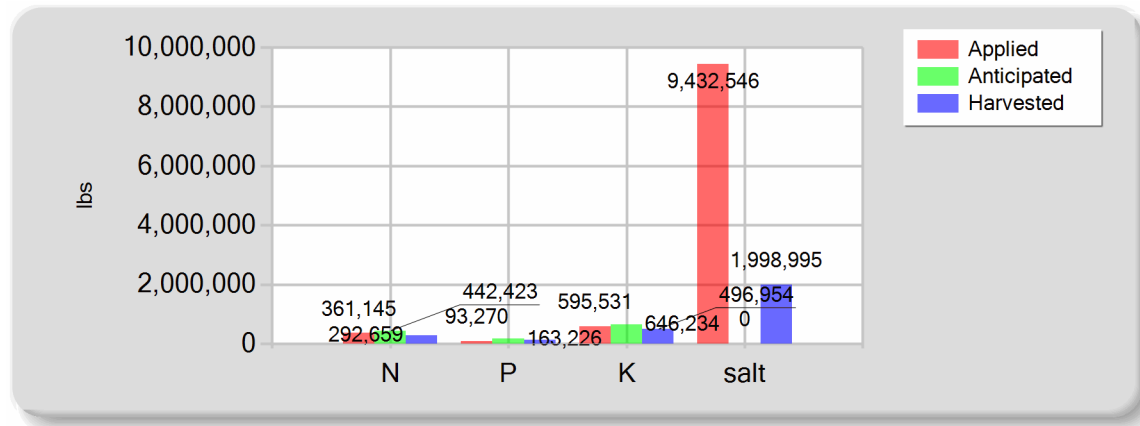
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

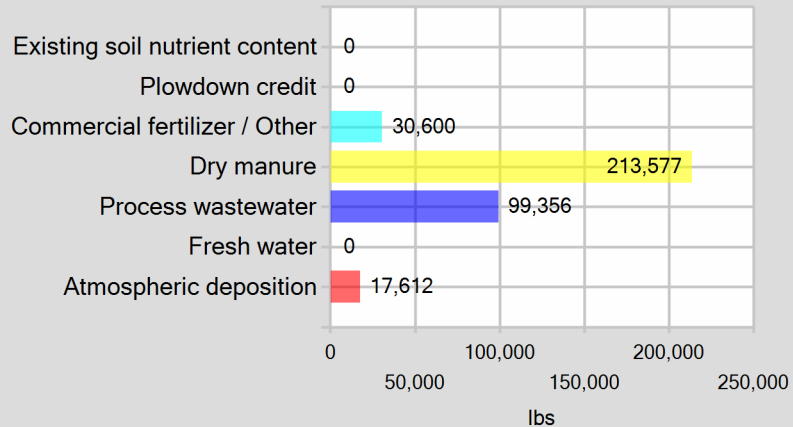
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	30,600.00	0.00	0.00	0.00
Dry manure	213,577.11	73,174.15	468,869.81	0.00
Process wastewater	99,355.71	20,095.96	126,661.02	778,322.50
Fresh water	0.00	0.00	0.00	8,654,223.20
Atmospheric deposition	17,612.00	0.00	0.00	0.00
Total nutrients applied	361,144.82	93,270.11	595,530.83	9,432,545.70
Anticipated crop nutrient removal	442,423.20	163,225.60	646,234.40	0.00
Actual crop nutrient removal	292,659.40	127,825.60	496,953.60	1,998,994.75
Nutrient balance	68,485.42	-34,555.49	98,577.23	7,433,550.95
Applied to removed ratio	1.23	0.73	1.20	4.72

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

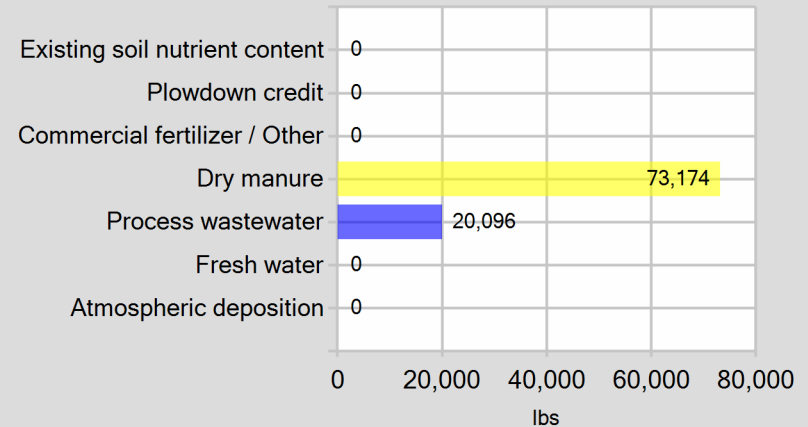


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

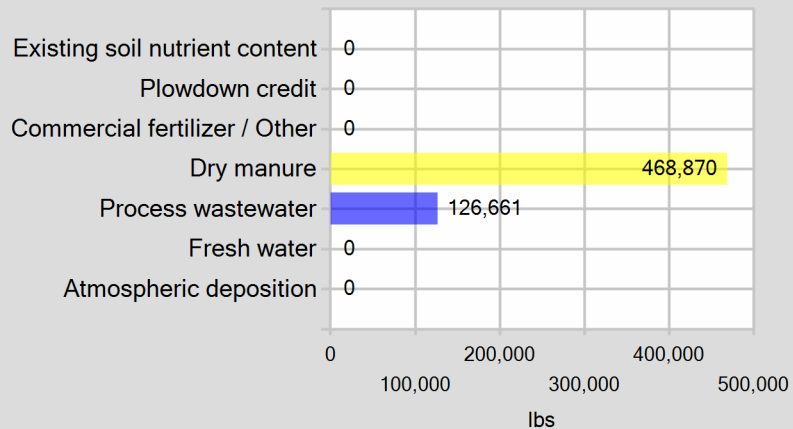
Pounds of nitrogen applied



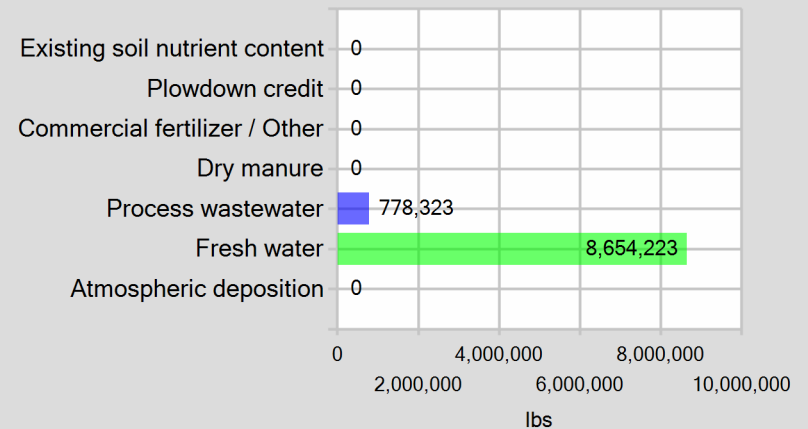
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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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

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

ADDITIONAL NOTES

A. NOTES

No notes entered for this annual report.

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.

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Pier van der Hoek

Hans van der Hoek

PRINT OR TYPE NAME

PRINT OR TYPE NAME

DATE

DATE

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

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.

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.

Pier van der Hoek

SIGNATURE OF OWNER OF FACILITY

Pier van der Hoek

PRINT OR TYPE NAME

7-1-24
DATE

Same

SIGNATURE OF OPERATOR OF FACILITY

Hans van der Hoek

PRINT OR TYPE NAME

7-1-24
DATE

Report of Dairy Well Water Analysis

Bar None Dairy/Vander Hoek

PO Box 42

Helm CA 93627

00-0015927 08

E-mail: martyverhoeven@gmail.com

Copy To:

Lab No.: 23L0098

Sampled By: Pamela Verhoeven

Requested By: Marty Verhoeven

Submitted Date: 12/05/23

Reported Date: 12/19/23

Project: 15886 S. Lassen Ave, Helm 93627

Crop ID:

		Date	Time	EC	EC	NO ₃ -N	Field	Total		CO ₃	HCO ₃						pH
		Sampled	Sampled	μmhos/cm	mmhos/cm	mg/L	NH ₄ -N	NH ₄ -N	TDS	as	as	Cl	SO ₄	Ca	Mg	Na	at 25°C
							mg/L	mg/L	mg/L	CaCO ₃	CaCO ₃	mg/L	mg/L	mg/L	mg/L	mg/L	unit
1	Well 1 (Valve at Well)	12/04/23	14:10	1910	1.91	ND	ND		1190	ND	461	44.9	480	66.1	15.2	338	7.9
2	Well 2 (Valve at Well)	12/04/23	14:15	1910	1.91	ND	ND		1190	ND	430	45.4	474	59.5	13.5	307	7.9
3	Well 3 (Standpipe)	12/04/23	14:20	1260	1.26	ND	ND		712	ND	398	63.1	172	34.1	7.2	228	8.0
4	Well 4 (Standpipe)	12/04/23	14:25	1620	1.62	ND	ND		1010	ND	363	81.0	352	64.8	14.5	303	7.5
5	Well 5 (Standpipe)	12/04/23	14:30	3460	3.46	ND	ND		638	ND	325	167	1330	267	54.0	478	7.6
6	Well 6 (Standpipe)	12/04/23	14:37	1830	1.83	ND	ND		1160	ND	322	84.7	484	119	16.1	283	7.7
7	Well 7 (Standpipe)	12/04/23	14:39	1960	1.96	ND	ND		1340	ND	324	91.2	542	129	18.6	300	7.7
8	Well 8 (Standpipe)	12/04/23	14:40	2760	2.76	ND	ND		1880	ND	335	115	918	171	37.0	462	7.7
9	Well 9 (Standpipe)	12/04/23	14:42	2740	2.74	ND	ND		1820	ND	349	129	848	127	36.0	466	7.7
10	Henry's Well (Valve at Well)	12/04/23	14:43	1560	1.56	ND	ND		3300	ND	412	186	1790	278	78.9	890	7.7

 * = Field NH₄-N not Taken.

ND = None Detected

Approved By:



Laboratory Director/Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02



12/05/23 06:55

23L0098

MM

WATER WORK REQUEST

Bill To: Acct No. 15927 Cons. 08

Purchase Order No. Results Needed By

 Client Bar None Dairy/Vander Hoek
 Address P.O. Box 42
 City, State, Zip Helm, CA 93627
 Email:

Copy to: martyverhoeven@gmail.com

Requested by/Cell: Marty Verhoeven

Facility: 15886 S. Lassen Ave, Helm 93627

Date sampled 12-4-23

Sampled by Pamela Verhoeven

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB

DESCRIPTION OF SAMPLES

1.	Well 1	Sampled From: well
2.	2	Sampled From: " "
3.	3	Sampled From: Stand pipe
4.	4	Sampled From: " "
5.	5	Sampled From: " "
6.	6	Sampled From: " "
7.	7	Sampled From: " "
8.	8	Sampled From: " "
9.	9	Sampled From: " "
10.	Hearse's Well	Sampled From: well

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 10 No. Bottles 10
 Water Type: ☐ Drinking ☐ Wastewater
☐ Ag Water ☒ Ground Water ☐ Mon. Well
☐ Supply Water ☐ Other

Analysis and Bottles Required: (Please Indicate Analysis)

- ☐ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
 (1) 1 L plastic, unpreserved (white)
- ☒ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (1) 1 L plastic, unpreserved (white)
- ☐ DCW1: (EC, NO₃-N, TDS)
 (1) 1 L plastic, unpreserved (white)
- ☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (1) 1 L plastic, unpreserved (white)
- ☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (1) 1 L plastic, unpreserved (white)
- ☐ Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
12/4/23	210	0	12.1 / 5.3
12/4/23	215	0	12.3 / 6.3
12/4/23	220	0	10.3 / 6.0
12/4/23	225	0	14.8 / 5.4
12/4/23	230	0	13.6 / 5.5
12/4/23	232	0	7.1 / 5.0
12/4/23	235	0	11.9 / 5.0
12/4/23	240	0	9.4 / 5.3
12/4/23	242	0	15.3 / 5.3
12/4/23	273	0	16.8 / 5.9

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Pamela Verhoeven	VDPC		12/04/23 3:26pm
Second	unsubscribed	DU	12/04/23 3:26	
Third				
Fourth		DVE	12/5 06:55	

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 attorney's fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. I am not responsible for any damage to or loss of samples or equipment. If payment is not made when due and a legitimate dispute exists concerning the product or service of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of arbitration, reasonable attorney's fees of Dellavalle Laboratory.

Invoicing Information:

Price List 2022 2023 mg 12/04/23

Sampling Hrs Miles Consulting

Amt Paid

Rec By

Check No.

Date

Shipping

\$ In

\$ Out

Signature

Sample to

[] Yes

IR Thermometer SN: 221511276

Correction Factor: 0°C

Calibration Due: 12/22/2023

Location: Hanford

date 2023