

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:** RichMar Farms

Physical address of dairy:

1129 E Shafter RD

Number and Street

Bakersfield

City

Kern

County

93307

Zip Code

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

Date facility was originally placed in operation: 03/30/2000Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0185-0200-0006-00000185-0270-0004-00000185-0270-0008-00000185-0310-0002-00000185-0332-0036-00000185-0341-0031-0004**B. OPERATORS**

Tillema, Richard

Operator name: Tillema, Richard

Telephone no.:

(661) 747-2226

Landline

Cellular

1129 E Shafter RD

Mailing Address Number and Street

Bakersfield

City

CA

State

93307

Zip Code

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

Tillema, Richard

Legal owner name: Tillema, Richard

Telephone no.:

(661) 747-2226

Landline

Cellular

1129 E Shafter RD

Mailing Address Number and Street

Bakersfield

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	500	2,200	2,000	840	0
Number under roof	2,400	0	0	0	0	0
Maximum number	2,450	500	2,250	2,200	860	0
Average number	2,425	500	2,225	2,100	850	0
Avg live weight (lbs)	1,400	1,550	1,000	500		

Predominant milk cow breed: Holstein

Average milk production: 64 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 112,702.63 tons per reporting period

Total nitrogen from manure: 1,336,097.85 lbs per reporting period

After ammonia losses (30% loss applied): 935,268.50 lbs per reporting period

Total phosphorus from manure: 218,157.01 lbs per reporting period

Total potassium from manure: 454,850.52 lbs per reporting period

Total salt from manure: 1,256,786.25 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 20,667,000 gallons

Total nitrogen generated: 44,395.69 lbs

Total phosphorus generated: 5,687.37 lbs

Total potassium generated: 90,727.09 lbs

Total salt generated: 371,837.34 lbs

20,667,000 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 20,667,000 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Arvin Edison	Ground water
Buena Well	Ground water
Dom 1	Ground water
Heifer DW	Ground water
N Canal	Surface water

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Source Description	Type
Well 2	Ground water
Well 8	Ground water
Well P-6	Ground water
Well P-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	49	49	2	both	0185-0200-0006-0000
Field 10	122	122	1	none	0185-0322-0036-0000
Field 11	114	114	2	both	0185-0322-0036-0000
Field 12	104	104	2	both	0185-0341-0031-0004
Field 2	45	45	2	both	0185-0200-0006-0000
Field 21	52	52	2	both	0185-0270-0004-0000 0185-0270-0008-0000
Field 22	126	120	2	both	0185-0200-0006-0000
Field 3	20	20	2	both	0185-0200-0006-0000
Field 32	152	152	2	manure	0185-0270-0004-0000
Field 33	150	150	2	manure	0185-0270-0008-0000
Field 4	138	138	2	both	0185-0200-0006-0000
Field 6	60	60	2	both	0185-0200-0006-0000
Field 7	101	101	2	both	0185-0200-0006-0000
Field 8	114	114	1	none	0185-0322-0036-0000
Field 9	117	117	1	none	0185-0322-0036-0000
Field B	18	18	1	both	0185-0310-0002-0000
P1	120	113	1	none	0185-0270-0008-0000
P10	135	135	2	manure	0185-0310-0002-0000
P11	135	135	1	none	0185-0310-0002-0000
P12	135	135	1	none	0185-0310-0002-0000
P2	160	150	2	manure	0185-0270-0008-0000
P3	160	145	2	manure	0185-0270-0008-0000
P4	160	151	1	none	0185-0270-0008-0000
P5	160	156	1	none	0185-0270-0008-0000
P6	160	154	1	none	0185-0270-0008-0000
P9	135	135	2	manure	0185-0310-0002-0000
Totals for areas that were used for application	1,719	1,688	33		
Totals for areas that were not used for application	1,223	1,197	9		
Land application area totals	2,942	2,885	42		

B. CROPS AND HARVESTS

Field 1

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Field 1

Field name: Field 1

11/14/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 49 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	592.00 ton	As-is		63.1	6,400.00	3,900.00	14,100.00		12.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	163.20	52.80	201.60	0.00
Total actual harvest content	12.08	154.64	94.24	340.70	1,132.36

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 49 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	785.00 ton	As-is		35.4	8,900.00	4,700.00	4,700.00		2.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	211.20	83.20	121.60	0.00
Total actual harvest content	16.02	285.16	150.59	150.59	455.36

Field 10

Field name: Field 10

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 122 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,241.10 ton	As-is		11.9	25,200.00	2,300.00	19,800.00		10.39

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.50	800.10	119.70	835.80	0.00
Total actual harvest content	10.17	512.72	46.80	402.85	1,862.38

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Field 11

Field name: Field 11

11/14/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 114 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	2,015.00 <i>ton</i>	As-is		68.9	4,800.00	2,400.00	7,900.00		9.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	190.40	61.60	235.20	0.00
Total actual harvest content	17.68	169.68	84.84	279.27	1,077.42

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 114 Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,145.00 <i>ton</i>	As-is		37.8	10,100.00	4,800.00	5,900.00		3.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	264.00	104.00	152.00	0.00
Total actual harvest content	18.82	380.08	180.63	222.03	819.24

Field 12

Field name: Field 12

11/14/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 104 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	1,241.00 <i>ton</i>	As-is		71.6	5,300.00	2,700.00	9,400.00		7.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	190.40	61.60	235.20	0.00
Total actual harvest content	11.93	126.49	64.44	224.33	481.22

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Field 12

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 104 Plant date: 06/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	1,985.00 ton	As-is		36.8	9,200.00	4,600.00	5,900.00		3.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	264.00	104.00	152.00	0.00
Total actual harvest content	19.09	351.19	175.60	225.22	868.51

Field 2

Field name: Field 2

11/14/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 45 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	594.00 ton	As-is		71.6	5,600.00	1,800.00	6,800.00		16.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	163.20	52.80	201.60	0.00
Total actual harvest content	13.20	147.84	47.52	179.52	1,229.61

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 45 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	710.00 ton	As-is		26.7	10,200.00	6,000.00	5,000.00		2.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	211.20	83.20	121.60	0.00
Total actual harvest content	15.78	321.87	189.33	157.78	624.52

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Field 21

Field name: Field 21

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

Crop: Wheat, silage, boot stage Acres planted: 52 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 (%)
06/07/2023	754.00 ton	As-is		61.6	6,400.00	3,400.00	11,800.00		12.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	163.20	52.80	201.60	0.00
Total actual harvest content	14.50	185.60	98.60	342.20	1,414.27

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 52 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	820.00 ton	As-is		31.3	9,300.00	4,800.00	4,700.00		3.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	184.80	72.80	106.40	0.00
Total actual harvest content	15.77	293.31	151.38	148.23	671.67

Field 22

Field name: Field 22

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

Crop: Wheat, silage, boot stage Acres planted: 120 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 (%)
06/07/2023	1,835.00 ton	As-is		59.8	6,400.00	3,800.00	15,600.00		12.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	190.40	61.60	235.20	0.00
Total actual harvest content	15.29	195.73	116.22	477.10	1,524.52

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Field 22

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 120 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	1,725.00 ton	As-is		32.2	9,600.00	4,300.00	5,500.00		3.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	224.40	88.40	129.20	0.00
Total actual harvest content	14.38	276.00	123.63	158.13	662.75

Field 3

Field name: Field 3

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

Crop: Wheat, silage, boot stage Acres planted: 20 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 (%)
06/07/2023	375.00 ton	As-is		72.9	4,300.00	2,200.00	7,800.00		9.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	190.40	61.60	235.20	0.00
Total actual harvest content	18.75	161.25	82.50	292.50	995.93

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 20 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	342.00 ton	As-is		30.6	9,000.00	5,200.00	5,000.00		2.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	264.00	104.00	152.00	0.00
Total actual harvest content	17.10	307.80	177.84	171.00	688.31

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Field 32

Field name: Field 32

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

Crop: Wheat, silage, boot stage Acres planted: 152 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 (%)
06/07/2023	2,510.00 <i>ton</i>	As-is		74.3	5,400.00	3,000.00	8,800.00		11.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	217.60	70.40	268.80	0.00
Total actual harvest content	16.51	178.34	99.08	290.63	1,010.04

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 152 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	3,208.00 <i>ton</i>	As-is		33.8	10,500.00	5,200.00	4,300.00		2.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	290.40	114.40	167.20	0.00
Total actual harvest content	21.11	443.21	219.49	181.51	754.47

Field 33

Field name: Field 33

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

Crop: Wheat, silage, boot stage Acres planted: 150 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 (%)
06/07/2023	2,195.00 <i>ton</i>	As-is		69.5	4,800.00	2,700.00	10,300.00		13.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	217.60	70.40	268.80	0.00
Total actual harvest content	14.63	140.48	79.02	301.45	1,231.83

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Field 33

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 150 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	3,241.00 ton	As-is		32.1	10,300.00	5,500.00	6,400.00		3.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	290.40	114.40	167.20	0.00
Total actual harvest content	21.61	445.10	237.67	276.57	1,056.31

Field 4

Field name: Field 4

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

Crop: Wheat, silage, boot stage Acres planted: 138 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 (%)
06/07/2023	2,289.00 ton	As-is		78.4	4,400.00	2,300.00	7,000.00		12.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	190.40	61.60	235.20	0.00
Total actual harvest content	16.59	145.97	76.30	232.22	895.70

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 138 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,725.00 ton	As-is		35.0	9,900.00	4,700.00	4,000.00		2.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	19.00	250.80	98.80	144.40	0.00
Total actual harvest content	19.75	390.98	185.62	157.97	641.76

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Field 6

Field name: Field 6

11/14/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 60 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	856.00 ton	As-is		69.3	4,300.00	2,500.00	8,600.00		11.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	190.40	61.60	235.20	0.00
Total actual harvest content	14.27	122.69	71.33	245.39	989.85

06/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 60 Plant date: 06/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	1,101.00 ton	As-is		40.1	8,700.00	4,700.00	6,100.00		3.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	316.80	124.80	182.40	0.00
Total actual harvest content	18.35	319.29	172.49	223.87	769.42

Field 7

Field name: Field 7

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

Crop: Wheat, silage, boot stage Acres planted: 101 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 (%)
06/07/2023	1,317.00 ton	As-is		76.2	4,200.00	2,200.00	7,000.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	190.40	61.60	235.20	0.00
Total actual harvest content	13.04	109.53	57.37	182.55	676.55

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

Field 7

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 101 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	1,884.00 ton	As-is		37.4	10,000.00	5,300.00	5,500.00		3.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	316.80	124.80	182.40	0.00
Total actual harvest content	18.65	373.07	197.73	205.19	840.75

Field 8

Field name: Field 8

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 114 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,065.50 ton	As-is		6.8	31,100.00	2,200.00	25,500.00		15.06

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.50	800.10	119.70	835.80	0.00
Total actual harvest content	9.35	581.35	41.12	476.67	2,623.73

Field 9

Field name: Field 9

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Field 9

01/01/2023: Alfalfa, hay

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,182.40 ton	As-is		10.3	28,400.00	2,300.00	19,600.00		10.43

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.50	800.10	119.70	835.80	0.00
Total actual harvest content	10.11	574.02	46.49	396.15	1,890.97

Field B

Field name: Field B

06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 18 Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	285.00 ton	As-is		42.1	8,600.00	4,400.00	4,900.00		3.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	211.20	83.20	121.60	0.00
Total actual harvest content	15.83	272.33	139.33	155.17	605.06

P1

Field name: P1

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P1

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 113 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,152.50 ton	As-is		8.2	29,700.00	2,300.00	24,500.00		11.11

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.50	800.10	119.70	835.80	0.00
Total actual harvest content	10.20	605.83	46.92	499.76	2,080.41

P10

Field name: P10

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

Crop: Wheat, silage, boot stage Acres planted: 135 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 (%)
06/07/2023	1,976.00 ton	As-is		61.0	7,000.00	2,400.00	11,400.00		13.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	217.60	70.40	268.80	0.00
Total actual harvest content	14.64	204.92	70.26	333.72	1,495.61

06/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 135 Plant date: 06/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,474.00 ton	As-is		34.2	9,400.00	5,000.00	4,300.00		2.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	290.40	114.40	167.20	0.00
Total actual harvest content	18.33	344.53	183.26	157.60	627.04

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

P11

Field name: P11

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 135 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,410.90 <i>ton</i>	As-is		9.9	27,800.00	2,000.00	25,500.00		12.41

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.50	800.10	119.70	835.80	0.00
Total actual harvest content	10.45	581.08	41.80	533.01	2,337.16

P12

Field name: P12

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 135 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,415.40 <i>ton</i>	As-is		93.3	24,900.00	2,000.00	16,400.00		15.38

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	762.00	114.00	796.00	0.00
Total actual harvest content	10.48	522.13	41.94	343.89	216.08

P2

Field name: P2

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

P2

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

Crop: Wheat, silage, boot stage Acres planted: 150 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 (%)
06/07/2023	2,100.00 ton	As-is		53.6	7,300.00	1,500.00	11,500.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	217.60	70.40	268.80	0.00
Total actual harvest content	14.00	204.40	42.00	322.00	1,286.21

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 150 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,645.00 ton	As-is		27.1	10,600.00	4,800.00	4,600.00		3.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	264.00	104.00	152.00	0.00
Total actual harvest content	17.63	373.83	169.28	162.23	771.28

P3

Field name: P3

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

Crop: Wheat, silage, boot stage Acres planted: 145 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 (%)
06/07/2023	2,194.00 ton	As-is		53.8	5,600.00	1,400.00	9,700.00		13.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	217.60	70.40	268.80	0.00
Total actual harvest content	15.13	169.47	42.37	293.54	1,859.48

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P3

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 145 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,720.00 ton	As-is		30.8	9,300.00	4,200.00	4,100.00		2.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	264.00	104.00	152.00	0.00
Total actual harvest content	18.76	348.91	157.57	153.82	675.01

P4

Field name: P4

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 151 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,495.00 ton	As-is		7.0	30,400.00	2,100.00	23,900.00		17.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	1,524.00	228.00	1,592.00	0.00
Total actual harvest content	9.90	601.96	41.58	473.25	3,167.42

P5

Field name: P5

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P5

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 156 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,500.00 ton	As-is		7.6	29,900.00	2,100.00	21,400.00		16.14

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.00	76.20	11.40	79.60	0.00
Total actual harvest content	9.62	575.00	40.38	411.54	2,867.95

P6

Field name: P6

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 154 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,403.00 ton	As-is		5.9	32,000.00	2,400.00	25,300.00		12.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.00	76.20	11.40	79.60	0.00
Total actual harvest content	9.11	583.06	43.73	460.99	2,160.36

P9

Field name: P9

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

P9

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

Crop: Wheat, silage, boot stage Acres planted: 135 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 (%)
06/07/2023	1,987.00 ton	As-is		56.5	7,800.00	3,000.00	11,800.00		11.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	217.60	70.40	268.80	0.00
Total actual harvest content	14.72	229.61	88.31	347.36	1,485.39

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 135 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,395.00 ton	As-is		40.2	7,400.00	4,700.00	4,800.00		3.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	290.40	114.40	167.20	0.00
Total actual harvest content	17.74	262.56	166.76	170.31	700.19

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NUTRIENT BUDGET

A. LAND APPLICATIONS

Field 1 - 11/14/2022: Wheat, silage, boot stage

Field name: Field 1

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/01/2022	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	153.90	37.80	307.80	0.00	220.50 <i>ton</i>
Application event totals		153.90	37.80	307.80	0.00	
11/15/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.18	0.00	0.00	306.24	5,400,000.00 <i>gal</i>
Application event totals		0.18	0.00	0.00	306.24	
12/04/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.18	0.00	0.00	301.14	5,310,000.00 <i>gal</i>
Application event totals		0.18	0.00	0.00	301.14	
02/12/2023	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 2	Ground water	0.17	0.00	0.00	280.72	4,950,000.00 <i>gal</i>
Application event totals		0.17	0.00	0.00	280.72	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.18	0.00	0.00	301.14	5,310,000.00 <i>gal</i>
Application event totals		0.18	0.00	0.00	301.14	

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Field 1 - 11/14/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.19	0.00	0.00	311.35	5,490,000.00 <i>gal</i>
Application event totals		0.19	0.00	0.00	311.35	

Field 1 - 06/10/2023: Corn, silage

Field name: Field 1

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/10/2023	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	5.43	0.69	10.22	40.87	150,000.00 <i>gal</i>
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 <i>gal</i>
Application event totals		5.54	0.69	10.22	81.37	
06/07/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Sidedress	Solid commercial fertilizer	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/06/2023	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	122.00	29.00	223.00	0.00	245.00 <i>ton</i>
Application event totals		122.00	29.00	223.00	0.00	

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Field 1 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	13.04	1.67	24.52	98.10	360,000.00 <i>gal</i>
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 <i>gal</i>
Application event totals		13.15	1.67	24.52	138.60	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	18.26	2.33	34.33	137.33	504,000.00 <i>gal</i>
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 <i>gal</i>
Application event totals		18.37	2.33	34.33	177.83	
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
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 <i>gal</i>
Application event totals		0.11	0.00	0.00	40.50	
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
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 <i>gal</i>
Application event totals		0.11	0.00	0.00	40.50	
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
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 <i>gal</i>
Application event totals		0.11	0.00	0.00	40.50	
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
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 <i>gal</i>
Application event totals		0.11	0.00	0.00	40.50	

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Field 1 - 06/10/2023: Corn, silage

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
N Canal		Surface water	0.11	0.00	0.00	40.50	6,372,000.00 <i>gal</i>
Application event totals			0.11	0.00	0.00	40.50	

Field 10 - 01/01/2023: Alfalfa, hay

Field name: Field 10

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
02/26/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8		Ground water	0.00	0.00	0.00	191.32	7,680,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	191.32	
03/22/2023	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 8		Ground water	0.00	0.00	0.00	194.31	7,800,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	194.31	
04/17/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8		Ground water	0.00	0.00	0.00	195.81	7,860,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	195.81	
05/16/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8		Ground water	0.00	0.00	0.00	197.30	7,920,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	197.30	

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Field 10 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	36.12	14,148,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	36.12	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	36.25	14,202,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	36.25	
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
N Canal	Surface water	0.10	0.00	0.00	36.67	14,364,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	36.67	
08/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	37.22	14,580,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	37.22	
09/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	37.22	14,580,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	37.22	
10/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	36.39	14,256,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	36.39	

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

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

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

Field name: Field 11

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	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	153.90	37.80	307.80	0.00	513.00 <i>ton</i>
Application event totals			153.90	37.80	307.80	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 8		Ground water	0.00	0.00	0.00	262.34	9,840,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	262.34	
12/15/2022	Surface (irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8		Ground water	0.00	0.00	0.00	247.94	9,300,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	247.94	
02/10/2023	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 8		Ground water	0.00	0.00	0.00	246.34	9,240,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	246.34	
05/05/2023	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 8		Ground water	0.00	0.00	0.00	247.94	9,300,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	247.94	

Field 11 - 06/13/2023: Corn, silage

Field name: Field 11

Crop: Corn, silage

Plant date: 06/13/2023

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

Field 11 - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/08/2023	Banding	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	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	146.40	34.80	267.60	0.00	684.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	0.00	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	7.47	0.96	14.05	56.22	480,000.00 <i>gal</i>
N Canal	Surface water	0.09	0.00	0.00	33.93	12,420,000.00 <i>gal</i>
Application event totals		7.56	0.96	14.05	90.15	
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
Lagoon	Process wastewater	7.01	0.90	13.18	52.71	450,000.00 <i>gal</i>
N Canal	Surface water	0.09	0.00	0.00	33.04	12,096,000.00 <i>gal</i>
Application event totals		7.10	0.90	13.18	85.75	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	9.16	1.17	17.22	68.87	588,000.00 <i>gal</i>
N Canal	Surface water	0.09	0.00	0.00	31.86	11,664,000.00 <i>gal</i>
Application event totals		9.24	1.17	17.22	100.73	

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

Field 11 - 06/13/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
07/27/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal			Surface water	0.09	0.00	0.00	33.04	12,096,000.00 <i>gal</i>	
Application event totals				0.09	0.00	0.00	33.04		
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	
N Canal			Surface water	0.09	0.00	0.00	33.93	12,420,000.00 <i>gal</i>	
Application event totals				0.09	0.00	0.00	33.93		
09/01/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal			Surface water	0.09	0.00	0.00	33.64	12,312,000.00 <i>gal</i>	
Application event totals				0.09	0.00	0.00	33.64		
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	
N Canal			Surface water	0.09	0.00	0.00	32.45	11,880,000.00 <i>gal</i>	
Application event totals				0.09	0.00	0.00	32.45		

Field 12 - 11/14/2022: Wheat, silage, boot stage

Field name: Field 12

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/01/2022	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	153.90	37.80	307.80	0.00	468.00 <i>ton</i>
Application event totals		153.90	37.80	307.80	0.00	

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

Field 12 - 11/14/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/12/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	243.72	8,340,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	243.72	
12/11/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	243.72	8,340,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	243.72	
01/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	241.97	8,280,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	241.97	
03/27/2023	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 8	Ground water	0.00	0.00	0.00	243.72	8,340,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	243.72	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	278.79	9,540,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	278.79	

Field 12 - 06/09/2023: Corn, silage

Field name: Field 12

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

Field 12 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/09/2023	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	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	146.40	34.80	267.60	0.00	624.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	0.00	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	2.56	0.33	4.81	19.26	150,000.00 <i>gal</i>
N Canal	Surface water	0.09	0.00	0.00	33.96	11,340,000.00 <i>gal</i>
Application event totals		2.65	0.33	4.81	53.22	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	2.05	0.26	3.85	15.41	120,000.00 <i>gal</i>
N Canal	Surface water	0.09	0.00	0.00	32.99	11,016,000.00 <i>gal</i>
Application event totals		2.14	0.26	3.85	48.39	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	3.58	0.46	6.74	26.96	210,000.00 <i>gal</i>
N Canal	Surface water	0.09	0.00	0.00	34.28	11,448,000.00 <i>gal</i>
Application event totals		3.68	0.46	6.74	61.24	

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

Field 12 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	35.58	11,880,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	35.58	
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
N Canal	Surface water	0.09	0.00	0.00	35.25	11,772,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	35.25	
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
N Canal	Surface water	0.09	0.00	0.00	34.93	11,664,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	34.93	
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
N Canal	Surface water	0.09	0.00	0.00	33.96	11,340,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	33.96	

Field 2 - 11/14/2022: Wheat, silage, boot stage

Field name: Field 2

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/01/2022	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	153.90	37.80	307.80	0.00	202.50 <i>ton</i>
Application event totals		153.90	37.80	307.80	0.00	

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

Field 2 - 11/14/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
11/18/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well 2		Ground water	0.19	0.00	0.00	322.35	5,220,000.00 <i>gal</i>	
Application event totals			0.19	0.00	0.00	322.35		
12/07/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well 2		Ground water	0.19	0.00	0.00	316.79	5,130,000.00 <i>gal</i>	
Application event totals			0.19	0.00	0.00	316.79		
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 2		Ground water	0.18	0.00	0.00	305.68	4,950,000.00 <i>gal</i>	
Application event totals			0.18	0.00	0.00	305.68		
04/12/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well 2		Ground water	0.18	0.00	0.00	294.56	4,770,000.00 <i>gal</i>	
Application event totals			0.18	0.00	0.00	294.56		
05/13/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well 2		Ground water	0.19	0.00	0.00	311.24	5,040,000.00 <i>gal</i>	
Application event totals			0.19	0.00	0.00	311.24		

Field 2 - 06/10/2023: Corn, silage

Field name: Field 2

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

Field 2 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/16/2022	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/06/2023	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	122.00	29.00	223.00	0.00	225.00 <i>ton</i>
Application event totals		122.00	29.00	223.00	0.00	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	18.34	2.35	34.49	137.97	465,000.00 <i>gal</i>
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 <i>gal</i>
Application event totals		18.46	2.35	34.49	182.07	
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
Lagoon	Process wastewater	16.57	2.12	31.15	124.62	420,000.00 <i>gal</i>
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 <i>gal</i>
Application event totals		16.68	2.12	31.15	168.72	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	20.71	2.65	38.94	155.77	525,000.00 <i>gal</i>
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 <i>gal</i>
Application event totals		20.83	2.65	38.94	199.87	

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Field 2 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	44.10	
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
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	44.10	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	44.10	
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
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	44.10	

Field 21 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 21

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		
11/01/2022	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	153.90	37.80	307.80	0.00	234.00 <i>ton</i>
Application event totals		153.90	37.80	307.80	0.00	

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

Field 21 - 11/15/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/15/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Well	Ground water	0.17	0.00	0.00	469.52	5,400,000.00 <i>gal</i>
Application event totals		0.17	0.00	0.00	469.52	
12/07/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	35.93	6,000,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	35.93	
02/04/2023	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
N Canal	Surface water	0.10	0.00	0.00	36.65	6,120,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	36.65	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	38.09	6,360,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	38.09	

Field 21 - 06/08/2023: Corn, silage

Field name: Field 21

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/10/2023	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	5.63	0.72	10.59	42.37	165,000.00 <i>gal</i>
N Canal	Surface water	0.10	0.00	0.00	38.81	6,480,000.00 <i>gal</i>
Application event totals		5.74	0.72	10.59	81.18	

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

Field 21 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following																												
06/09/2023	Sidedress	No precipitation	No precipitation	No precipitation																												
<table><tr><td>Source description</td><td>Material type</td><td>N (lbs/acre)</td><td>P (lbs/acre)</td><td>K (lbs/acre)</td><td>Salt (lbs/acre)</td><td>Amount</td></tr><tr><td>PrePlant</td><td>Solid commercial fertilizer</td><td>150.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td></td></tr><tr><td>Application event totals</td><td></td><td>150.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00		Application event totals		150.00	0.00	0.00	0.00								
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00																											
Application event totals		150.00	0.00	0.00	0.00																											
06/10/2023	Plow/disc	No precipitation	No precipitation	No precipitation																												
<table><tr><td>Source description</td><td>Material type</td><td>N (lbs/acre)</td><td>P (lbs/acre)</td><td>K (lbs/acre)</td><td>Salt (lbs/acre)</td><td>Amount</td></tr><tr><td>Manure</td><td>Corral solids</td><td>146.40</td><td>34.80</td><td>267.60</td><td>0.00</td><td>312.00 <i>ton</i></td></tr><tr><td>Application event totals</td><td></td><td>146.40</td><td>34.80</td><td>267.60</td><td>0.00</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	Manure	Corral solids	146.40	34.80	267.60	0.00	312.00 <i>ton</i>	Application event totals		146.40	34.80	267.60	0.00								
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
Manure	Corral solids	146.40	34.80	267.60	0.00	312.00 <i>ton</i>																										
Application event totals		146.40	34.80	267.60	0.00																											
06/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><td>Source description</td><td>Material type</td><td>N (lbs/acre)</td><td>P (lbs/acre)</td><td>K (lbs/acre)</td><td>Salt (lbs/acre)</td><td>Amount</td></tr><tr><td>Lagoon</td><td>Process wastewater</td><td>12.80</td><td>1.64</td><td>24.07</td><td>96.29</td><td>375,000.00 <i>gal</i></td></tr><tr><td>N Canal</td><td>Surface water</td><td>0.10</td><td>0.00</td><td>0.00</td><td>37.52</td><td>6,264,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>12.90</td><td>1.64</td><td>24.07</td><td>133.80</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	Lagoon	Process wastewater	12.80	1.64	24.07	96.29	375,000.00 <i>gal</i>	N Canal	Surface water	0.10	0.00	0.00	37.52	6,264,000.00 <i>gal</i>	Application event totals		12.90	1.64	24.07	133.80	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
Lagoon	Process wastewater	12.80	1.64	24.07	96.29	375,000.00 <i>gal</i>																										
N Canal	Surface water	0.10	0.00	0.00	37.52	6,264,000.00 <i>gal</i>																										
Application event totals		12.90	1.64	24.07	133.80																											
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
Lagoon	Process wastewater	8.60	1.10	16.18	64.71	252,000.00 <i>gal</i>																										
N Canal	Surface water	0.10	0.00	0.00	38.81	6,480,000.00 <i>gal</i>																										
Application event totals		8.71	1.10	16.18	103.52																											
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><td>Source description</td><td>Material type</td><td>N (lbs/acre)</td><td>P (lbs/acre)</td><td>K (lbs/acre)</td><td>Salt (lbs/acre)</td><td>Amount</td></tr><tr><td>N Canal</td><td>Surface water</td><td>0.10</td><td>0.00</td><td>0.00</td><td>36.87</td><td>6,156,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.10</td><td>0.00</td><td>0.00</td><td>36.87</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	N Canal	Surface water	0.10	0.00	0.00	36.87	6,156,000.00 <i>gal</i>	Application event totals		0.10	0.00	0.00	36.87								
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
N Canal	Surface water	0.10	0.00	0.00	36.87	6,156,000.00 <i>gal</i>																										
Application event totals		0.10	0.00	0.00	36.87																											
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
N Canal	Surface water	0.10	0.00	0.00	37.52	6,264,000.00 <i>gal</i>																										
Application event totals		0.10	0.00	0.00	37.52																											

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

Field 21 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
N Canal	Surface water	0.10	0.00	0.00	36.87	6,156,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	36.87	
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
N Canal	Surface water	0.10	0.00	0.00	36.87	6,156,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	36.87	
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
N Canal	Surface water	0.10	0.00	0.00	37.52	6,264,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	37.52	

Field 22 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 22

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
11/01/2022	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	153.90	37.80	307.80	0.00	540.00 <i>ton</i>
Application event totals			153.90	37.80	307.80	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
Buena Well		Ground water	0.12	0.00	0.00	328.25	8,712,000.00 <i>gal</i>
Application event totals			0.12	0.00	0.00	328.25	

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

Field 22 - 11/15/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
N Canal	Surface water	0.10	0.00	0.00	37.06	14,280,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	37.06	
02/05/2023	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	18.62	2.73	53.04	217.34	675,000.00 <i>gal</i>
N Canal	Surface water	0.10	0.00	0.00	37.37	14,400,000.00 <i>gal</i>
Application event totals		18.72	2.73	53.04	254.71	
04/19/2023	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	17.95	1.99	32.01	141.76	675,000.00 <i>gal</i>
N Canal	Surface water	0.10	0.00	0.00	37.06	14,280,000.00 <i>gal</i>
Application event totals		18.05	1.99	32.01	178.82	
05/05/2023	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
N Canal	Surface water	0.09	0.00	0.00	34.26	13,200,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	34.26	

Field 22 - 06/08/2023: Corn, silage

Field name: Field 22

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

Field 22 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/09/2023	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	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	26.84	6.38	49.06	0.00	132.00 <i>ton</i>
Application event totals		26.84	6.38	49.06	0.00	
06/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	4.44	0.57	8.35	33.38	300,000.00 <i>gal</i>
N Canal	Surface water	0.10	0.00	0.00	36.72	14,148,000.00 <i>gal</i>
Application event totals		4.54	0.57	8.35	70.10	
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
Lagoon	Process wastewater	5.55	0.71	10.43	41.73	375,000.00 <i>gal</i>
N Canal	Surface water	0.09	0.00	0.00	35.04	13,500,000.00 <i>gal</i>
Application event totals		5.64	0.71	10.43	76.76	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	6.21	0.79	11.68	46.73	420,000.00 <i>gal</i>
N Canal	Surface water	0.09	0.00	0.00	33.64	12,960,000.00 <i>gal</i>
Application event totals		6.30	0.79	11.68	80.37	

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

Field 22 - 06/08/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
07/25/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
N Canal		Surface water	0.09	0.00	0.00	32.23	12,420,000.00 <i>gal</i>		
Application event totals			0.09	0.00	0.00	32.23			
08/08/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
N Canal		Surface water	0.09	0.00	0.00	33.92	13,068,000.00 <i>gal</i>		
Application event totals			0.09	0.00	0.00	33.92			
08/20/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
N Canal		Surface water	0.09	0.00	0.00	34.76	13,392,000.00 <i>gal</i>		
Application event totals			0.09	0.00	0.00	34.76			
09/02/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
N Canal		Surface water	0.09	0.00	0.00	34.48	13,284,000.00 <i>gal</i>		
Application event totals			0.09	0.00	0.00	34.48			
09/14/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
N Canal		Surface water	0.09	0.00	0.00	34.20	13,176,000.00 <i>gal</i>		
Application event totals			0.09	0.00	0.00	34.20			

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/01/2022	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	153.90	37.80	307.80	0.00	90.00 <i>ton</i>
Application event totals		153.90	37.80	307.80	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 2	Ground water	0.20	0.00	0.00	337.63	2,430,000.00 <i>gal</i>
Application event totals		0.20	0.00	0.00	337.63	
12/10/2022	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	29.79	4.37	84.87	347.74	180,000.00 <i>gal</i>
Well 2	Ground water	0.18	0.00	0.00	300.12	2,160,000.00 <i>gal</i>
Application event totals		29.97	4.37	84.87	647.86	
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
Lagoon	Process wastewater	23.93	2.65	42.68	189.01	150,000.00 <i>gal</i>
Well 2	Ground water	0.15	0.00	0.00	250.10	1,800,000.00 <i>gal</i>
Application event totals		24.08	2.65	42.68	439.11	
04/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.18	0.00	0.00	300.12	2,160,000.00 <i>gal</i>
Application event totals		0.18	0.00	0.00	300.12	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.19	0.00	0.00	312.62	2,250,000.00 <i>gal</i>
Application event totals		0.19	0.00	0.00	312.62	

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

Field 3 - 06/14/2023: Corn, silage

Field name: Field 3

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/10/2023	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	146.40	34.80	267.60	0.00	120.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	0.00	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	34.61	4.43	65.09	260.36	390,000.00 <i>gal</i>
N Canal	Surface water	0.12	0.00	0.00	43.73	2,808,000.00 <i>gal</i>
Application event totals		34.73	4.43	65.09	304.09	
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
Lagoon	Process wastewater	29.29	3.75	55.08	220.31	330,000.00 <i>gal</i>
N Canal	Surface water	0.10	0.00	0.00	37.00	2,376,000.00 <i>gal</i>
Application event totals		29.39	3.75	55.08	257.31	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	42.87	5.48	80.61	322.45	483,000.00 <i>gal</i>
N Canal	Surface water	0.10	0.00	0.00	38.68	2,484,000.00 <i>gal</i>
Application event totals		42.97	5.48	80.61	361.13	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Nitrogen	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
N Canal	Surface water	0.10	0.00	0.00	38.68	2,484,000.00 <i>gal</i>
Application event totals		50.10	0.00	0.00	38.68	

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Field 3 - 06/14/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
08/19/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.11	0.00	0.00	40.36	2,592,000.00 <i>gal</i>	
Application event totals			0.11	0.00	0.00	40.36		
09/01/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.10	0.00	0.00	37.00	2,376,000.00 <i>gal</i>	
Application event totals			0.10	0.00	0.00	37.00		
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	
N Canal		Surface water	0.09	0.00	0.00	33.64	2,160,000.00 <i>gal</i>	
Application event totals			0.09	0.00	0.00	33.64		

Field 32 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 32

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		
11/01/2022	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	153.90	37.80	307.80	0.00	684.00 <i>ton</i>
Application event totals		153.90	37.80	307.80	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 P-6	Ground water	0.00	0.00	0.00	197.14	14,850,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	197.14	

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Field 32 - 11/15/2022: Wheat, silage, boot stage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/11/2022	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6		Ground water	0.00	0.00	0.00	201.91	15,210,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	201.91	
02/05/2023	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 P-6		Ground water	0.00	0.00	0.00	204.30	15,390,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	204.30	
05/20/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6		Ground water	0.00	0.00	0.00	195.94	14,760,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	195.94	

Field 32 - 06/08/2023: Corn, silage

Field name: Field 32

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
06/09/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
N Canal		Surface water	0.09	0.00	0.00	34.42	16,800,000.00 <i>gal</i>		
Application event totals			0.09	0.00	0.00	34.42			
06/07/2023	Sidedress		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	150.00	0.00	0.00	0.00			
Application event totals			150.00	0.00	0.00	0.00			

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Field 32 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/08/2023	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	146.40	34.80	267.60	0.00	912.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	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
N Canal	Surface water	0.09	0.00	0.00	32.45	15,840,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	32.45	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Nitrogen	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
N Canal	Surface water	0.09	0.00	0.00	32.95	16,080,000.00 <i>gal</i>
Application event totals		50.09	0.00	0.00	32.95	
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
N Canal	Surface water	0.09	0.00	0.00	32.95	16,080,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	32.95	
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
N Canal	Surface water	0.09	0.00	0.00	33.19	16,200,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	33.19	
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
N Canal	Surface water	0.09	0.00	0.00	33.44	16,320,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	33.44	

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Field 32 - 06/08/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
09/01/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal			Surface water	0.09	0.00	0.00	31.96	15,600,000.00 <i>gal</i>
Application event totals				0.09	0.00	0.00	31.96	
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
N Canal			Surface water	0.09	0.00	0.00	32.95	16,080,000.00 <i>gal</i>
Application event totals				0.09	0.00	0.00	32.95	

Field 33 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 33

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		
11/01/2022	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	153.90	37.80	307.80	0.00	675.00 <i>ton</i>		
Application event totals			153.90	37.80	307.80	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 P-6		Ground water	0.00	0.00	0.00	181.60	13,500,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	181.60			
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 P-6		Ground water	0.00	0.00	0.00	181.60	13,500,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	181.60			

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Field 33 - 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 P-6		Ground water	0.00	0.00	0.00	179.18	13,320,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	179.18	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6		Ground water	0.00	0.00	0.00	170.71	12,690,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	170.71	

Field 33 - 06/12/2023: Corn, silage

Field name: Field 33

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/07/2023	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	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	146.40	34.80	267.60	0.00	900.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	0.00	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	34.88	16,800,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	34.88	

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Field 33 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
07/07/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.09	0.00	0.00	32.89	15,840,000.00 <i>gal</i>	
Application event totals			0.09	0.00	0.00	32.89		
07/19/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Nitrogen		Liquid commercial fertilizer	50.00	0.00	0.00	0.00		
N Canal		Surface water	0.09	0.00	0.00	33.39	16,080,000.00 <i>gal</i>	
Application event totals			50.09	0.00	0.00	33.39		
07/30/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.09	0.00	0.00	33.39	16,080,000.00 <i>gal</i>	
Application event totals			0.09	0.00	0.00	33.39		
08/12/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.09	0.00	0.00	33.64	16,200,000.00 <i>gal</i>	
Application event totals			0.09	0.00	0.00	33.64		
08/24/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.09	0.00	0.00	33.88	16,320,000.00 <i>gal</i>	
Application event totals			0.09	0.00	0.00	33.88		
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	
N Canal		Surface water	0.09	0.00	0.00	32.39	15,600,000.00 <i>gal</i>	
Application event totals			0.09	0.00	0.00	32.39		

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Field 4 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 4

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	
11/01/2022	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	153.90	37.80	307.80	0.00	621.00 <i>ton</i>	
Application event totals			153.90	37.80	307.80	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 2		Ground water	0.16	0.00	0.00	271.85	13,500,000.00 <i>gal</i>	
Application event totals			0.16	0.00	0.00	271.85		
12/10/2022	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	14.39	2.11	41.00	167.99	600,000.00 <i>gal</i>	
Well 2		Ground water	0.16	0.00	0.00	266.41	13,230,000.00 <i>gal</i>	
Application event totals			14.55	2.11	41.00	434.40		
02/19/2023	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	13.87	1.54	24.74	109.57	600,000.00 <i>gal</i>	
Well 2		Ground water	0.16	0.00	0.00	270.04	13,410,000.00 <i>gal</i>	
Application event totals			14.04	1.54	24.74	379.61		
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 2		Ground water	0.17	0.00	0.00	279.10	13,860,000.00 <i>gal</i>	
Application event totals			0.17	0.00	0.00	279.10		

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Field 4 - 11/15/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.16	0.00	0.00	270.04	13,410,000.00 <i>gal</i>
Application event totals		0.16	0.00	0.00	270.04	

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

Field name: Field 4

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/08/2023	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	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	146.40	34.80	267.60	0.00	828.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	0.00	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	11.19	1.43	21.04	84.18	870,000.00 <i>gal</i>
N Canal	Surface water	0.06	0.00	0.00	23.40	10,368,000.00 <i>gal</i>
Application event totals		11.25	1.43	21.04	107.57	

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
06/28/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lagoon		Process wastewater	12.54	1.60	23.58	94.33	975,000.00 <i>gal</i>	
N Canal		Surface water	0.05	0.00	0.00	20.47	9,072,000.00 <i>gal</i>	
Application event totals			12.60	1.60	23.58	114.81		
07/12/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lagoon		Process wastewater	13.51	1.73	25.40	101.59	1,050,000.00 <i>gal</i>	
N Canal		Surface water	0.05	0.00	0.00	20.23	8,964,000.00 <i>gal</i>	
Application event totals			13.56	1.73	25.40	121.82		
07/26/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.06	0.00	0.00	21.69	9,612,000.00 <i>gal</i>	
Application event totals			0.06	0.00	0.00	21.69		
08/09/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.06	0.00	0.00	20.96	9,288,000.00 <i>gal</i>	
Application event totals			0.06	0.00	0.00	20.96		
08/21/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.06	0.00	0.00	21.20	9,396,000.00 <i>gal</i>	
Application event totals			0.06	0.00	0.00	21.20		
09/02/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.06	0.00	0.00	21.45	9,504,000.00 <i>gal</i>	
Application event totals			0.06	0.00	0.00	21.45		

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

Field 6 - 11/14/2022: Wheat, silage, boot stage

Field name: Field 6

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
11/01/2022	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	68.40	16.80	136.80	0.00	120.00 <i>ton</i>
Application event totals			68.40	16.80	136.80	0.00	
11/22/2022	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2		Ground water	0.20	0.00	0.00	337.63	7,290,000.00 <i>gal</i>
Application event totals			0.20	0.00	0.00	337.63	
12/17/2022	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	20.69	3.04	58.94	241.48	375,000.00 <i>gal</i>
Well 2		Ground water	0.05	0.00	0.00	75.03	1,620,000.00 <i>gal</i>
Application event totals			20.73	3.04	58.94	316.51	
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
Lagoon		Process wastewater	24.73	2.74	44.11	195.31	465,000.00 <i>gal</i>
Well 2		Ground water	2.03	0.00	0.00	3,380.51	72,990,000.00 <i>gal</i>
Application event totals			26.76	2.74	44.11	3,575.83	
04/28/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2		Ground water	0.19	0.00	0.00	312.62	6,750,000.00 <i>gal</i>
Application event totals			0.19	0.00	0.00	312.62	

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Field 6 - 11/14/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.20	0.00	0.00	327.21	7,065,000.00 <i>gal</i>
Application event totals		0.20	0.00	0.00	327.21	

Field 6 - 06/17/2023: Corn, silage

Field name: Field 6

Crop: Corn, silage

Plant date: 06/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/08/2023	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	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	146.40	34.80	267.60	0.00	360.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	0.00	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	19.97	2.55	37.55	150.21	675,000.00 <i>gal</i>
N Canal	Surface water	0.11	0.00	0.00	40.36	7,776,000.00 <i>gal</i>
Application event totals		20.08	2.55	37.55	190.57	

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Field 6 - 06/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	17.75	2.27	33.38	133.52	600,000.00 <i>gal</i>
N Canal	Surface water	0.10	0.00	0.00	36.44	7,020,000.00 <i>gal</i>
Application event totals		17.85	2.27	33.38	169.96	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	24.23	3.10	45.56	182.25	819,000.00 <i>gal</i>
N Canal	Surface water	0.10	0.00	0.00	35.88	6,912,000.00 <i>gal</i>
Application event totals		24.32	3.10	45.56	218.13	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	35.88	6,912,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	35.88	
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
N Canal	Surface water	0.09	0.00	0.00	34.76	6,696,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	34.76	
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
N Canal	Surface water	0.09	0.00	0.00	35.32	6,804,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	35.32	
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
N Canal	Surface water	0.09	0.00	0.00	34.76	6,696,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	34.76	

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

Field 7 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 7

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		
11/01/2022	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	68.40	16.80	136.80	0.00	202.00 <i>ton</i>
Application event totals		68.40	16.80	136.80	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 2	Ground water	0.17	0.00	0.00	284.77	10,350,000.00 <i>gal</i>
Application event totals		0.17	0.00	0.00	284.77	
12/21/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	22.61	3.32	64.42	263.96	690,000.00 <i>gal</i>
Well 2	Ground water	0.24	0.00	0.00	406.10	14,760,000.00 <i>gal</i>
Application event totals		22.85	3.32	64.42	670.06	
03/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	26.07	2.89	46.49	205.86	825,000.00 <i>gal</i>
Well 2	Ground water	0.19	0.00	0.00	312.01	11,340,000.00 <i>gal</i>
Application event totals		26.25	2.89	46.49	517.86	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.18	0.00	0.00	302.10	10,980,000.00 <i>gal</i>
Application event totals		0.18	0.00	0.00	302.10	

Field 7 - 06/19/2023: Corn, silage

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Field 7 - 06/19/2023: Corn, silage

Field name: Field 7

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/10/2023	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	146.40	34.80	267.60	0.00	606.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	0.00	
06/11/2023	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	13.18	1.69	24.79	99.15	750,000.00 <i>gal</i>
N Canal	Surface water	0.10	0.00	0.00	36.63	11,880,000.00 <i>gal</i>
Application event totals		13.28	1.69	24.79	135.78	
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
Lagoon	Process wastewater	11.86	1.52	22.31	89.23	675,000.00 <i>gal</i>
N Canal	Surface water	0.08	0.00	0.00	31.64	10,260,000.00 <i>gal</i>
Application event totals		11.95	1.52	22.31	120.87	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	15.50	1.98	29.15	116.60	882,000.00 <i>gal</i>
N Canal	Surface water	0.09	0.00	0.00	31.97	10,368,000.00 <i>gal</i>
Application event totals		15.59	1.98	29.15	148.57	

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Field 7 - 06/19/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
08/03/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal			Surface water	0.09	0.00	0.00	32.64	10,584,000.00 <i>gal</i>	
Application event totals				0.09	0.00	0.00	32.64		
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	
N Canal			Surface water	0.09	0.00	0.00	32.30	10,476,000.00 <i>gal</i>	
Application event totals				0.09	0.00	0.00	32.30		
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	
N Canal			Surface water	0.09	0.00	0.00	31.97	10,368,000.00 <i>gal</i>	
Application event totals				0.09	0.00	0.00	31.97		
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	
N Canal			Surface water	0.08	0.00	0.00	30.64	9,936,000.00 <i>gal</i>	
Application event totals				0.08	0.00	0.00	30.64		

Field 8 - 01/01/2023: Alfalfa, hay

Field name: Field 8

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/14/2023	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 8	Ground water	0.00	0.00	0.00	215.95	8,100,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	215.95	

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Field 8 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
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 8		Ground water	0.00	0.00	0.00	217.55	8,160,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	217.55	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8		Ground water	0.00	0.00	0.00	214.35	8,040,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	214.35	
05/04/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8		Ground water	0.00	0.00	0.00	215.95	8,100,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	215.95	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.11	0.00	0.00	40.13	14,688,000.00 <i>gal</i>
Application event totals			0.11	0.00	0.00	40.13	
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
N Canal		Surface water	0.11	0.00	0.00	39.83	14,580,000.00 <i>gal</i>
Application event totals			0.11	0.00	0.00	39.83	
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
N Canal		Surface water	0.11	0.00	0.00	41.60	15,228,000.00 <i>gal</i>
Application event totals			0.11	0.00	0.00	41.60	

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Field 8 - 01/01/2023: Alfalfa, hay

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/15/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.11	0.00	0.00	39.83	14,580,000.00 <i>gal</i>
Application event totals			0.11	0.00	0.00	39.83	
09/07/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.11	0.00	0.00	39.54	14,472,000.00 <i>gal</i>
Application event totals			0.11	0.00	0.00	39.54	
10/03/2023	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
N Canal		Surface water	0.11	0.00	0.00	40.13	14,688,000.00 <i>gal</i>
Application event totals			0.11	0.00	0.00	40.13	

Field 9 - 01/01/2023: Alfalfa, hay

Field name: Field 9

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/20/2023	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 8	Ground water	0.00	0.00	0.00	205.73	7,920,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	205.73	
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 8	Ground water	0.00	0.00	0.00	204.18	7,860,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	204.18	

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Field 9 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	202.62	7,800,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	202.62	
05/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	205.73	7,920,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	205.73	
06/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	37.66	14,148,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	37.66	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	37.37	14,040,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	37.37	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.01	0.00	0.00	3.74	1,404,000.00 <i>gal</i>
Application event totals		0.01	0.00	0.00	3.74	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	38.09	14,310,000.00 <i>gal</i>
Application event totals		0.10	0.00	0.00	38.09	

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

Field 9 - 01/01/2023: Alfalfa, hay

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
09/13/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.10	0.00	0.00	38.52	14,472,000.00 <i>gal</i>	
Application event totals			0.10	0.00	0.00	38.52		
10/09/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.10	0.00	0.00	38.38	14,418,000.00 <i>gal</i>	
Application event totals			0.10	0.00	0.00	38.38		

Field B - 06/16/2023: Corn, silage

Field name: Field B

Crop: Corn, silage

Plant date: 06/16/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	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	144.77	34.41	264.63	0.00	106.80 <i>ton</i>
Application event totals			144.77	34.41	264.63	0.00	
06/11/2023	Sidedress		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	150.00	0.00	0.00	0.00	
Application event totals			150.00	0.00	0.00	0.00	
06/19/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	14.79	1.89	27.82	111.27	150,000.00 <i>gal</i>
N Canal		Surface water	0.10	0.00	0.00	37.37	2,160,000.00 <i>gal</i>
Application event totals			14.89	1.89	27.82	148.64	

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Field B - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	17.75	2.27	33.38	133.52	180,000.00 <i>gal</i>
N Canal	Surface water	0.08	0.00	0.00	29.90	1,728,000.00 <i>gal</i>
Application event totals		17.83	2.27	33.38	163.42	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	28.99	3.71	54.52	218.08	294,000.00 <i>gal</i>
N Canal	Surface water	0.08	0.00	0.00	28.03	1,620,000.00 <i>gal</i>
Application event totals		29.07	3.71	54.52	246.11	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	31.77	1,836,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	31.77	
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
N Canal	Surface water	0.09	0.00	0.00	33.64	1,944,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	33.64	
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
N Canal	Surface water	0.09	0.00	0.00	33.64	1,944,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	33.64	
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
N Canal	Surface water	0.09	0.00	0.00	31.77	1,836,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	31.77	

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

P1 - 01/01/2023: Alfalfa, hay

Field name: P1

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	149.34	10,152,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	149.34	
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 P-9	Ground water	0.00	0.00	0.00	149.34	10,152,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	149.34	
03/27/2023	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 P-9	Ground water	0.00	0.00	0.00	149.34	10,152,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	149.34	
04/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	150.14	10,206,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	150.14	
05/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	150.14	10,206,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	150.14	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.08	0.00	0.00	31.42	11,400,000.00 <i>gal</i>
Application event totals		0.08	0.00	0.00	31.42	

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P1 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	31.75	11,520,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	31.75	
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
N Canal	Surface water	0.09	0.00	0.00	31.75	11,520,000.00 <i>gal</i>
Application event totals		0.09	0.00	0.00	31.75	
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
N Canal	Surface water	0.08	0.00	0.00	31.09	11,280,000.00 <i>gal</i>
Application event totals		0.08	0.00	0.00	31.09	
10/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.08	0.00	0.00	31.09	11,280,000.00 <i>gal</i>
Application event totals		0.08	0.00	0.00	31.09	

P10 - 11/16/2022: Wheat, silage, boot stage

Field name: P10

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		
11/01/2022	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	153.90	37.80	307.80	0.00	607.50 <i>ton</i>
Application event totals		153.90	37.80	307.80	0.00	

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P10 - 11/16/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/22/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	177.31	14,400,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	177.31	
12/10/2022	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 P-9	Ground water	0.00	0.00	0.00	177.31	14,400,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	177.31	
02/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	174.36	14,160,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	174.36	
05/03/2023	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 P-9	Ground water	0.00	0.00	0.00	175.84	14,280,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	175.84	

P10 - 06/24/2023: Corn, silage

Field name: P10

Crop: Corn, silage

Plant date: 06/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/07/2023	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	

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P10 - 06/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/10/2023	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	146.40	34.80	267.60	0.00	810.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	0.00	
06/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.25	10,080,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.25	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.25	10,080,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.25	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.53	10,200,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.53	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.53	10,200,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.53	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Nitrogen	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
N Canal	Surface water	0.06	0.00	0.00	23.67	10,260,000.00 <i>gal</i>
Application event totals		50.06	0.00	0.00	23.67	

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P10 - 06/24/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
08/24/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.06	0.00	0.00	23.67	10,260,000.00 <i>gal</i>	
Application event totals			0.06	0.00	0.00	23.67		
09/06/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
N Canal		Surface water	0.06	0.00	0.00	23.53	10,200,000.00 <i>gal</i>	
Application event totals			0.06	0.00	0.00	23.53		
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	
N Canal		Surface water	0.06	0.00	0.00	23.53	10,200,000.00 <i>gal</i>	
Application event totals			0.06	0.00	0.00	23.53		

P11 - 01/01/2023: Alfalfa, hay

Field name: P11

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
02/02/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9		Ground water	0.00	0.00	0.00	127.67	10,368,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	127.67	
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 P-9		Ground water	0.00	0.00	0.00	127.67	10,368,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	127.67	

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P11 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/27/2023	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 P-9	Ground water	0.00	0.00	0.00	127.67	10,368,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	127.67	
04/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	127.67	10,368,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	127.67	
05/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	127.67	10,368,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	127.67	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.25	10,080,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.25	
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
N Canal	Surface water	0.06	0.00	0.00	23.25	10,080,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.25	
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
N Canal	Surface water	0.06	0.00	0.00	23.53	10,200,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.53	

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P11 - 01/01/2023: Alfalfa, hay

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
09/11/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	23.53	10,200,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	23.53	
10/05/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	23.67	10,260,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	23.67	

P12 - 01/01/2023: Alfalfa, hay

Field name: P12

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/06/2023	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 P-9	Ground water	0.00	0.00	0.00	125.01	10,152,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	125.01	
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 P-9	Ground water	0.00	0.00	0.00	123.68	10,044,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	123.68	
04/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	126.34	10,260,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	126.34	

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P12 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	125.01	10,152,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	125.01	
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	125.67	10,206,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	125.67	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.07	0.00	0.00	26.30	11,400,000.00 <i>gal</i>
Application event totals		0.07	0.00	0.00	26.30	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.07	0.00	0.00	26.44	11,460,000.00 <i>gal</i>
Application event totals		0.07	0.00	0.00	26.44	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.07	0.00	0.00	26.44	11,460,000.00 <i>gal</i>
Application event totals		0.07	0.00	0.00	26.44	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.07	0.00	0.00	26.58	11,520,000.00 <i>gal</i>
Application event totals		0.07	0.00	0.00	26.58	

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P12 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.07	0.00	0.00	26.30	11,400,000.00 <i>gal</i>
Application event totals		0.07	0.00	0.00	26.30	

P2 - 11/15/2022: Wheat, silage, boot stage

Field name: P2

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		
11/01/2022	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	153.90	37.80	307.80	0.00	675.00 <i>ton</i>
Application event totals		153.90	37.80	307.80	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 P-6	Ground water	0.00	0.00	0.00	195.33	14,520,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	195.33	
12/15/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	193.71	14,400,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	193.71	
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 P-6	Ground water	0.00	0.00	0.00	193.71	14,400,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	193.71	

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P2 - 11/15/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	196.94	14,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	196.94	

P2 - 06/19/2023: Corn, silage

Field name: P2

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/07/2023	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	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	141.52	33.64	258.68	0.00	870.00 <i>ton</i>
Application event totals		141.52	33.64	258.68	0.00	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.11	0.00	0.00	21.45	10,200,000.00 <i>gal</i>
Application event totals		0.11	0.00	0.00	21.45	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.11	0.00	0.00	21.20	10,080,000.00 <i>gal</i>
Application event totals		0.11	0.00	0.00	21.20	

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P2 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Nitrogen	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	10,200,000.00 <i>gal</i>
Arvin Edison	Ground water	0.11	0.00	0.00	21.45	
Application event totals		50.11	0.00	0.00	21.45	
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
Arvin Edison	Ground water	0.11	0.00	0.00	21.58	10,260,000.00 <i>gal</i>
Application event totals		0.11	0.00	0.00	21.58	
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
Arvin Edison	Ground water	0.11	0.00	0.00	21.70	10,320,000.00 <i>gal</i>
Application event totals		0.11	0.00	0.00	21.70	
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
Arvin Edison	Ground water	0.11	0.00	0.00	21.20	10,080,000.00 <i>gal</i>
Application event totals		0.11	0.00	0.00	21.20	
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
Arvin Edison	Ground water	0.11	0.00	0.00	21.45	10,200,000.00 <i>gal</i>
Application event totals		0.11	0.00	0.00	21.45	

P3 - 11/16/2022: Wheat, silage, boot stage

Field name: P3

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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P3 - 11/16/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
11/01/2022	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	153.90	37.80	307.80	0.00	652.50 <i>ton</i>	
Application event totals			153.90	37.80	307.80	0.00		
11/22/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well P-6		Ground water	0.00	0.00	0.00	202.06	14,520,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	202.06		
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 P-6		Ground water	0.00	0.00	0.00	200.39	14,400,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	200.39		
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 P-6		Ground water	0.00	0.00	0.00	200.39	14,400,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	200.39		
05/24/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well P-6		Ground water	0.00	0.00	0.00	91.85	6,600,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	91.85		

P3 - 06/20/2023: Corn, silage

Field name: P3

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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P3 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/07/2023	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	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	146.40	34.80	267.60	0.00	870.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	0.00	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.12	0.00	0.00	22.19	10,200,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	22.19	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.12	0.00	0.00	22.19	10,200,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	22.19	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.12	0.00	0.00	22.32	10,260,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	22.32	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.12	0.00	0.00	22.32	10,260,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	22.32	

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P3 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.12	0.00	0.00	22.45	10,320,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	22.45	
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
Arvin Edison	Ground water	0.12	0.00	0.00	22.19	10,200,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	22.19	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.12	0.00	0.00	22.19	10,200,000.00 <i>gal</i>
Application event totals		0.12	0.00	0.00	22.19	

P4 - 01/01/2023: Alfalfa, hay

Field name: P4

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
02/06/2023	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 P-9		Ground water	0.00	0.00	0.00	112.36	10,206,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	112.36		
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 P-9		Ground water	0.00	0.00	0.00	112.36	10,206,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	112.36		

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P4 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	112.95	10,260,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	112.95	
04/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	112.95	10,260,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	112.95	
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	112.95	10,260,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	112.95	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.51	11,400,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.51	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.51	11,400,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.51	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.64	11,460,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.64	

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P4 - 01/01/2023: Alfalfa, hay

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
09/15/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	23.51	11,400,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	23.51	

10/09/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	23.51	11,400,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	23.51	

P5 - 01/01/2023: Alfalfa, hay

Field name: P5

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/10/2023	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
N Canal	Surface water	0.05	0.00	0.00	20.48	10,260,000.00 <i>gal</i>
Application event totals		0.05	0.00	0.00	20.48	
03/15/2023	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
N Canal	Surface water	0.06	0.00	0.00	20.70	10,368,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	20.70	
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
N Canal	Surface water	0.06	0.00	0.00	20.91	10,476,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	20.91	

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P5 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/08/2023	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
N Canal	Surface water	0.06	0.00	0.00	20.81	10,422,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	20.81	
06/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.13	10,584,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	21.13	
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
N Canal	Surface water	0.06	0.00	0.00	20.91	10,476,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	20.91	
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
N Canal	Surface water	0.06	0.00	0.00	20.91	10,476,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	20.91	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.24	10,638,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	21.24	
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
N Canal	Surface water	0.06	0.00	0.00	21.24	10,638,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	21.24	

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P5 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
10/10/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	21.13	10,584,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	21.13	

P6 - 01/01/2023: Alfalfa, hay

Field name: **P6**

Crop: **Alfalfa, hay**

Plant date: **01/01/2023**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
02/14/2023	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
N Canal		Surface water	0.06	0.00	0.00	20.75	10,260,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	20.75	
03/19/2023	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
N Canal		Surface water	0.06	0.00	0.00	20.97	10,368,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	20.97	
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
N Canal		Surface water	0.06	0.00	0.00	21.19	10,476,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	21.19	
05/12/2023	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
N Canal		Surface water	0.06	0.00	0.00	21.08	10,422,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	21.08	

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P6 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
06/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	21.40	10,584,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	21.40	
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
N Canal		Surface water	0.06	0.00	0.00	21.19	10,476,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	21.19	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	21.19	10,476,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	21.19	
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
N Canal		Surface water	0.06	0.00	0.00	21.51	10,638,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	21.51	
09/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	21.51	10,638,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	21.51	
10/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	21.40	10,584,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	21.40	

P9 - 11/16/2022: Wheat, silage, boot stage

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

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

P9 - 11/16/2022: Wheat, silage, boot stage

Field name: P9

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		
11/01/2022	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	153.90	37.80	307.80	0.00	607.50 <i>ton</i>
Application event totals		153.90	37.80	307.80	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 P-9	Ground water	0.00	0.00	0.00	177.31	14,400,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	177.31	
12/05/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	175.84	14,280,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	175.84	
02/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	174.36	14,160,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	174.36	
04/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	174.36	14,160,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	174.36	

P9 - 06/20/2023: Corn, silage

Field name: P9

Crop: Corn, silage

Plant date: 06/20/2023

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

P9 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.53	10,200,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.53	
06/07/2023	Sidedress	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	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	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	146.40	34.80	267.60	0.00	810.00 <i>ton</i>
Application event totals		146.40	34.80	267.60	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
N Canal	Surface water	0.06	0.00	0.00	23.53	10,200,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.53	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.67	10,260,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.67	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.81	10,320,000.00 <i>gal</i>
Application event totals		0.06	0.00	0.00	23.81	

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

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

P9 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Nitrogen		Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
N Canal		Surface water	0.06	0.00	0.00	23.81	10,320,000.00 <i>gal</i>
Application event totals			50.06	0.00	0.00	23.81	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	23.67	10,260,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	23.67	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	23.81	10,320,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	23.81	
09/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal		Surface water	0.06	0.00	0.00	23.81	10,320,000.00 <i>gal</i>
Application event totals			0.06	0.00	0.00	23.81	

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

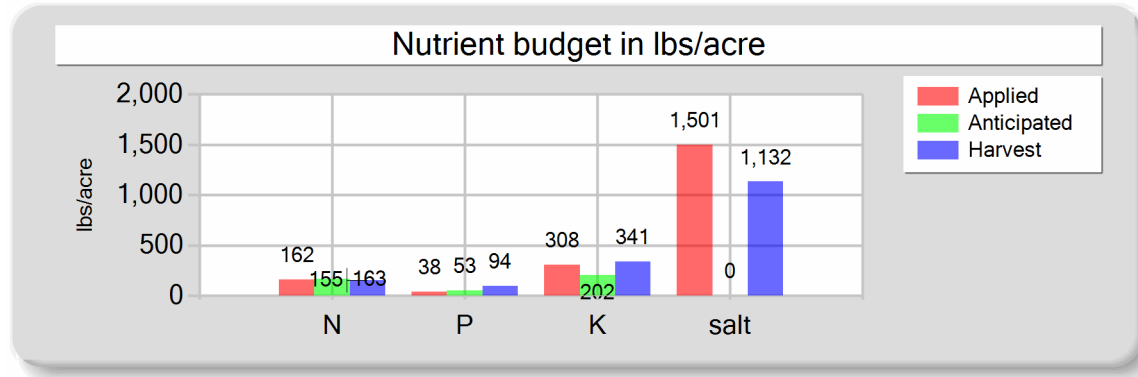
B. NUTRIENT BUDGET

Field 1 - 11/14/2022: Wheat, silage, boot stage

Field name: Field 1

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022



	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	26,460,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	974.43 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	19.89 <i>inches/acre</i>
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.90	0.00	0.00	1,500.60	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	161.80	37.80	307.80	1,500.60	
Anticipated crop nutrient removal	163.20	52.80	201.60	0.00	
Actual crop nutrient removal	154.64	94.24	340.70	1,132.36	
Nutrient balance	7.16	-56.44	-32.90	368.23	
Applied to removed ratio	1.05	0.40	0.90	1.33	
					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>

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

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

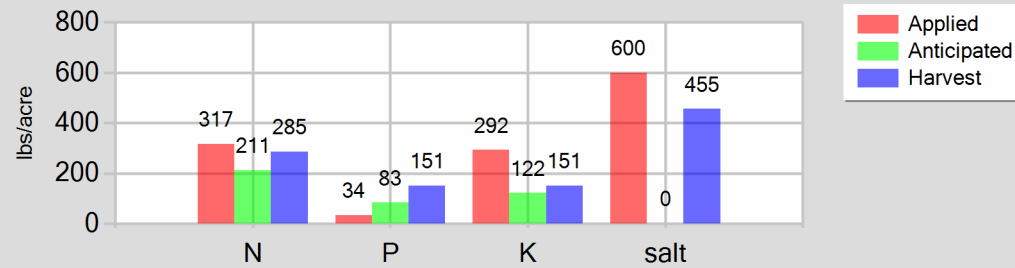
Field 1 - 06/10/2023: Corn, silage

Field name: Field 1

Crop: Corn, silage

Plant date: 06/10/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	122.00	29.00	223.00	0.00
Process wastewater	36.73	4.70	69.08	276.30
Fresh water	0.87	0.00	0.00	323.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	316.60	33.70	292.08	600.30
Anticipated crop nutrient removal	211.20	83.20	121.60	0.00
Actual crop nutrient removal	285.16	150.59	150.59	455.36
Nutrient balance	31.44	-116.89	141.48	144.94
Applied to removed ratio	1.11	0.22	1.94	1.32

Fresh water applied
50,976,000.00 gallons
1,877.27 acre-inches
38.31 inches/acre
Process wastewater applied
1,014,000.00 gallons
37.34 acre-inches
0.76 inches/acre
Total harvests for the crop
1 harvests

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

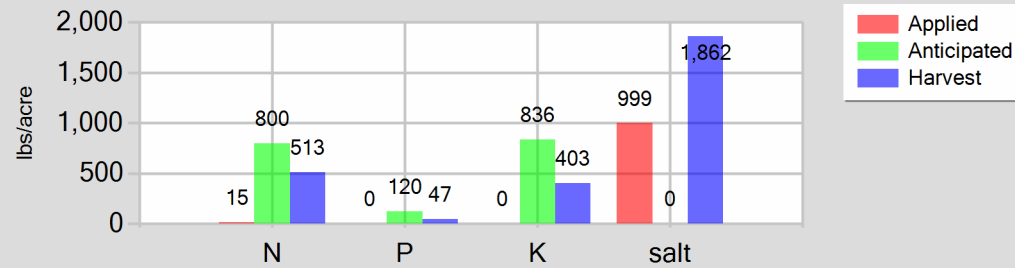
Field 10 - 01/01/2023: Alfalfa, hay

Field name: Field 10

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.59	0.00	0.00	998.61
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.59	0.00	0.00	998.61
Anticipated crop nutrient removal	800.10	119.70	835.80	0.00
Actual crop nutrient removal	512.72	46.80	402.85	1,862.38
Nutrient balance	-498.13	-46.80	-402.85	-863.77
Applied to removed ratio	0.03	0.00	0.00	0.54

Fresh water applied
117,390,000.00 <i>gallons</i>
4,323.07 <i>acre-inches</i>
35.44 <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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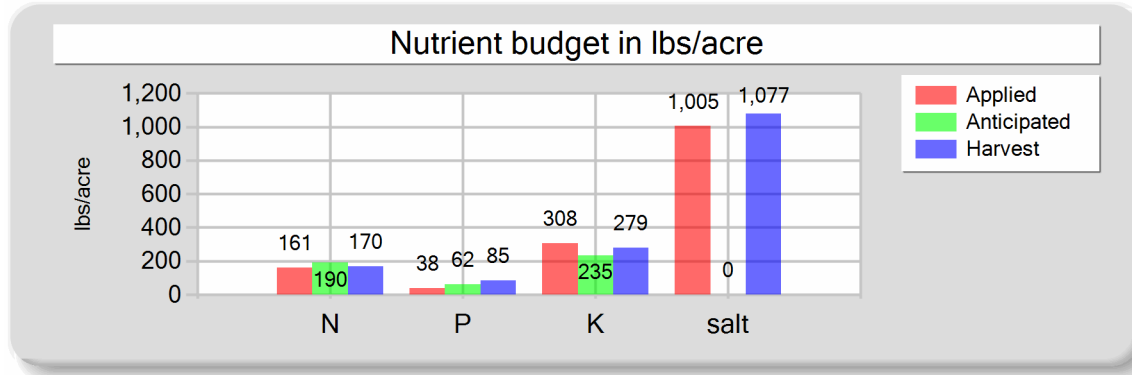
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 11

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	153.90	37.80	307.80	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	1,004.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	160.90	37.80	307.80	1,004.55
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00
Actual crop nutrient removal	169.68	84.84	279.27	1,077.42
Nutrient balance	-8.78	-47.04	28.53	-72.87
Applied to removed ratio	0.95	0.45	1.10	0.93

Fresh water applied
37,680,000.00 <i>gallons</i>
1,387.63 <i>acre-inches</i>
12.17 <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.

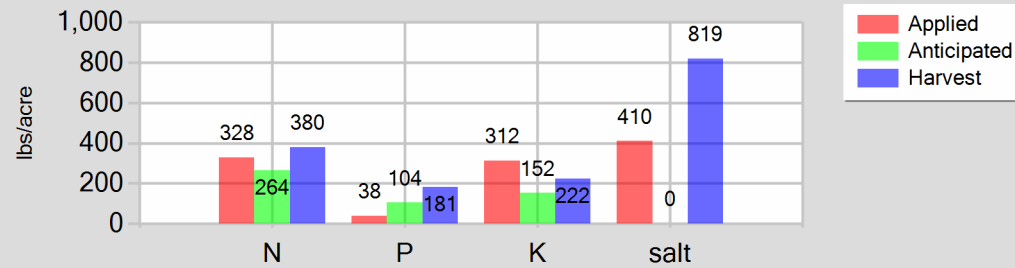
Field 11 - 06/13/2023: Corn, silage

Field name: Field 11

Crop: Corn, silage

Plant date: 06/13/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	23.64	3.02	44.45	177.79
Fresh water	0.62	0.00	0.00	231.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.66	37.82	312.05	409.70
Anticipated crop nutrient removal	264.00	104.00	152.00	0.00
Actual crop nutrient removal	380.08	180.63	222.03	819.24
Nutrient balance	-52.42	-142.81	90.02	-409.54
Applied to removed ratio	0.86	0.21	1.41	0.50

Fresh water applied
84,888,000.00 <i>gallons</i>
3,126.14 <i>acre-inches</i>
27.42 <i>inches/acre</i>

Process wastewater applied
1,518,000.00 <i>gallons</i>
55.90 <i>acre-inches</i>
0.49 <i>inches/acre</i>

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

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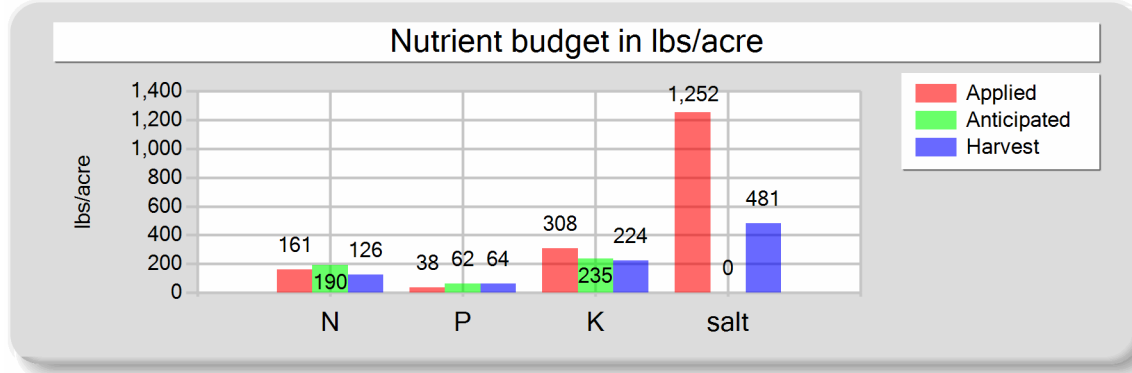
Reporting period 01/01/2023 to 12/31/2023.

Field 12 - 11/14/2022: Wheat, silage, boot stage

Field name: Field 12

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	153.90	37.80	307.80	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	1,251.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	160.90	37.80	307.80	1,251.94
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00
Actual crop nutrient removal	126.49	64.44	224.33	481.22
Nutrient balance	34.41	-26.64	83.47	770.72
Applied to removed ratio	1.27	0.59	1.37	2.60

Fresh water applied
42,840,000.00 gallons
1,577.65 acre-inches
15.17 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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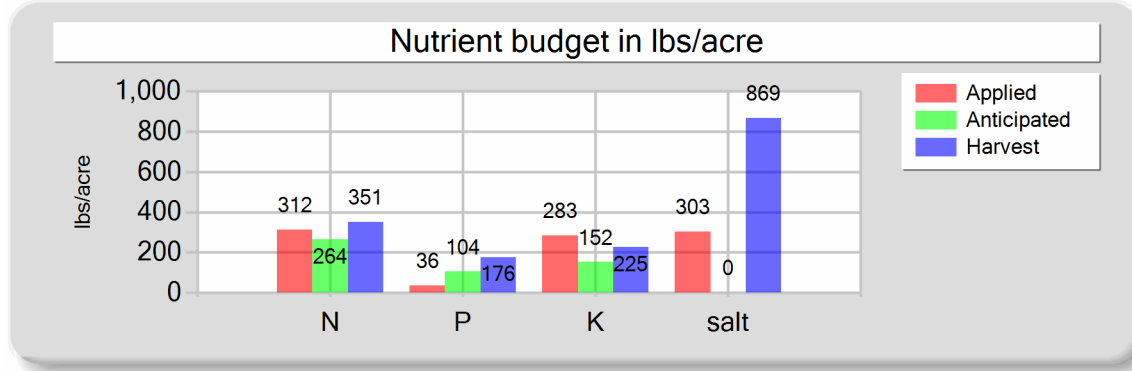
Reporting period 01/01/2023 to 12/31/2023.

Field 12 - 06/09/2023: Corn, silage

Field name: Field 12

Crop: Corn, silage

Plant date: 06/09/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	8.19	1.05	15.41	61.62
Fresh water	0.65	0.00	0.00	240.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	312.24	35.85	283.01	302.57
Anticipated crop nutrient removal	264.00	104.00	152.00	0.00
Actual crop nutrient removal	351.19	175.60	225.22	868.51
Nutrient balance	-38.95	-139.75	57.79	-565.95
Applied to removed ratio	0.89	0.20	1.26	0.35

Fresh water applied
80,460,000.00 <i>gallons</i>
2,963.07 <i>acre-inches</i>
28.49 <i>inches/acre</i>

Process wastewater applied
480,000.00 <i>gallons</i>
17.68 <i>acre-inches</i>
0.17 <i>inches/acre</i>

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

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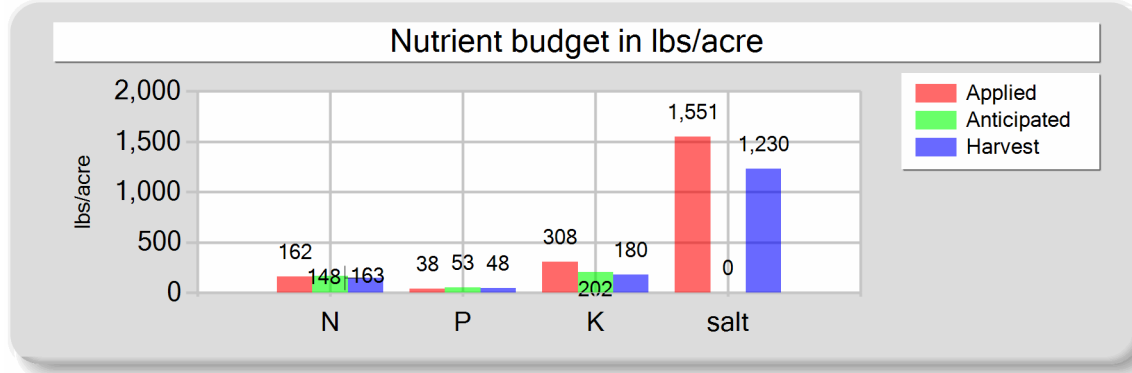
Reporting period 01/01/2023 to 12/31/2023.

Field 2 - 11/14/2022: Wheat, silage, boot stage

Field name: Field 2

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	153.90	37.80	307.80	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.93	0.00	0.00	1,550.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	161.83	37.80	307.80	1,550.62
Anticipated crop nutrient removal	163.20	52.80	201.60	0.00
Actual crop nutrient removal	147.84	47.52	179.52	1,229.61
Nutrient balance	13.99	-9.72	128.28	321.01
Applied to removed ratio	1.09	0.80	1.71	1.26

Fresh water applied
25,110,000.00 <i>gallons</i>
924.72 <i>acre-inches</i>
20.55 <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.

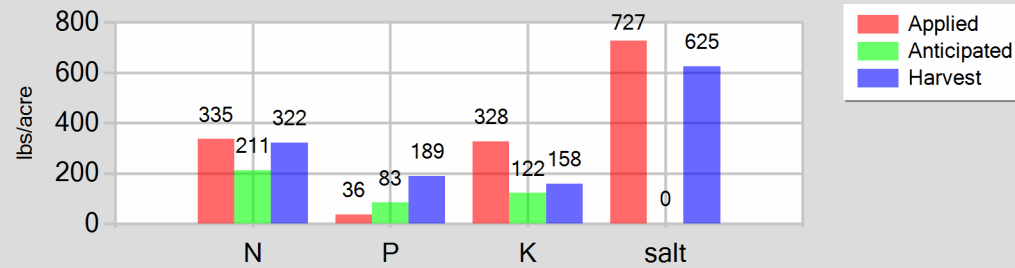
Field 2 - 06/10/2023: Corn, silage

Field name: Field 2

Crop: Corn, silage

Plant date: 06/10/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	122.00	29.00	223.00	0.00
Process wastewater	55.62	7.11	104.59	418.36
Fresh water	0.83	0.00	0.00	308.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	335.44	36.11	327.59	727.06
Anticipated crop nutrient removal	211.20	83.20	121.60	0.00
Actual crop nutrient removal	321.87	189.33	157.78	624.52
Nutrient balance	13.58	-153.22	169.81	102.54
Applied to removed ratio	1.04	0.19	2.08	1.16

Fresh water applied
44,604,000.00 gallons
1,642.61 acre-inches
36.50 inches/acre
Process wastewater applied
1,410,000.00 gallons
51.93 acre-inches
1.15 inches/acre
Total harvests for the crop
1 harvests

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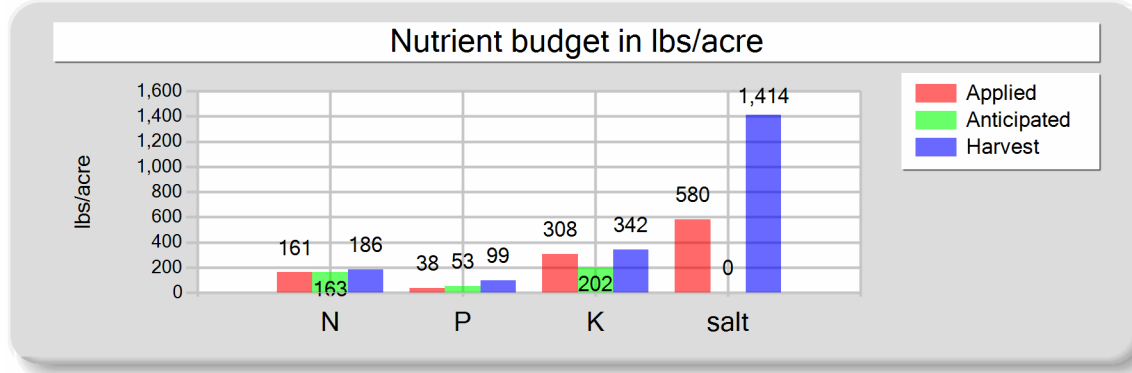
Reporting period 01/01/2023 to 12/31/2023.

Field 21 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 21

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	153.90	37.80	307.80	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.47	0.00	0.00	580.20
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	161.37	37.80	307.80	580.20
Anticipated crop nutrient removal	163.20	52.80	201.60	0.00
Actual crop nutrient removal	185.60	98.60	342.20	1,414.27
Nutrient balance	-24.23	-60.80	-34.40	-834.07
Applied to removed ratio	0.87	0.38	0.90	0.41

Fresh water applied
23,880,000.00 <i>gallons</i>
879.42 <i>acre-inches</i>
16.91 <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.

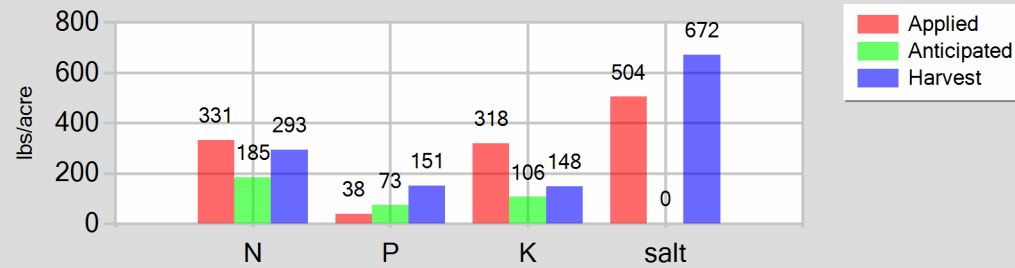
Field 21 - 06/08/2023: Corn, silage

Field name: Field 21

Crop: Corn, silage

Plant date: 06/08/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	27.03	3.46	50.84	203.36
Fresh water	0.81	0.00	0.00	300.77
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	331.24	38.26	318.44	504.14
Anticipated crop nutrient removal	184.80	72.80	106.40	0.00
Actual crop nutrient removal	293.31	151.38	148.23	671.67
Nutrient balance	37.93	-113.13	170.21	-167.54
Applied to removed ratio	1.13	0.25	2.15	0.75

Fresh water applied
50,220,000.00 gallons
1,849.43 acre-inches
35.57 inches/acre
Process wastewater applied
792,000.00 gallons
29.17 acre-inches
0.56 inches/acre
Total harvests for the crop
1 harvests

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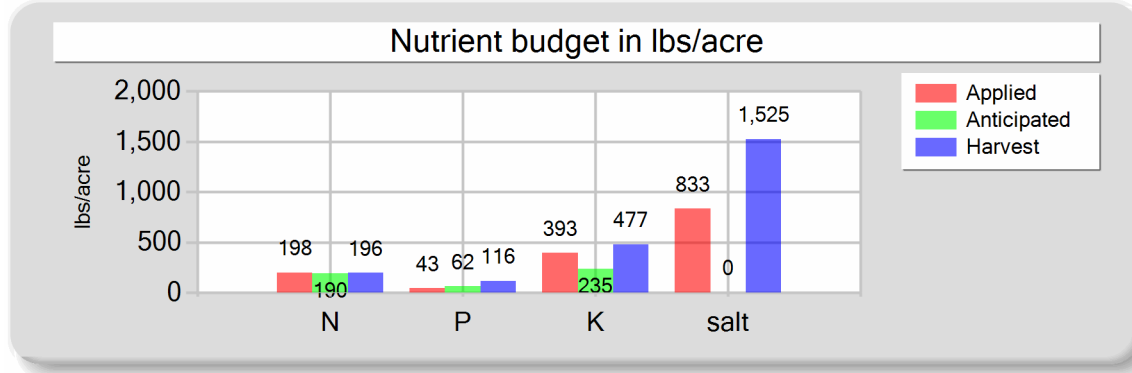
Reporting period 01/01/2023 to 12/31/2023.

Field 22 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 22

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	153.90	37.80	307.80	0.00
Process wastewater	36.57	4.72	85.06	359.10
Fresh water	0.51	0.00	0.00	474.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	197.98	42.52	392.86	833.10
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00
Actual crop nutrient removal	195.73	116.22	477.10	1,524.52
Nutrient balance	2.25	-73.69	-84.24	-691.42
Applied to removed ratio	1.01	0.37	0.82	0.55

Fresh water applied
64,872,000.00 gallons
2,389.02 acre-inches
19.91 inches/acre

Process wastewater applied
1,350,000.00 gallons
49.72 acre-inches
0.41 inches/acre

Total harvests for the crop
1 harvests

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

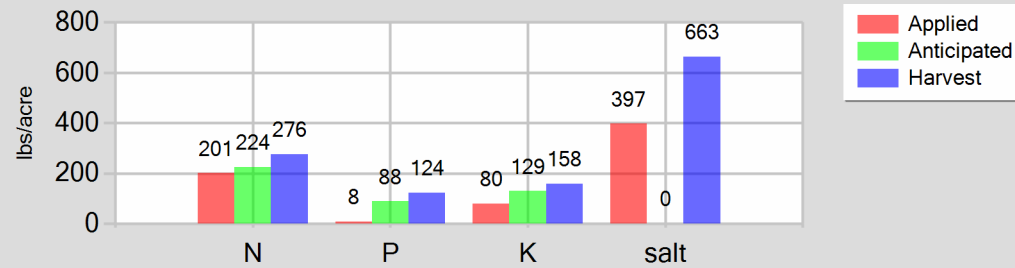
Field 22 - 06/08/2023: Corn, silage

Field name: Field 22

Crop: Corn, silage

Plant date: 06/08/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	26.84	6.38	49.06	0.00
Process wastewater	16.20	2.07	30.46	121.84
Fresh water	0.74	0.00	0.00	274.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	200.77	8.45	79.52	396.80
Anticipated crop nutrient removal	224.40	88.40	129.20	0.00
Actual crop nutrient removal	276.00	123.63	158.13	662.75
Nutrient balance	-75.23	-115.17	-78.61	-265.94
Applied to removed ratio	0.73	0.07	0.50	0.60

Fresh water applied
105,948,000.00 <i>gallons</i>
3,901.70 <i>acre-inches</i>
32.51 <i>inches/acre</i>
Process wastewater applied
1,095,000.00 <i>gallons</i>
40.33 <i>acre-inches</i>
0.34 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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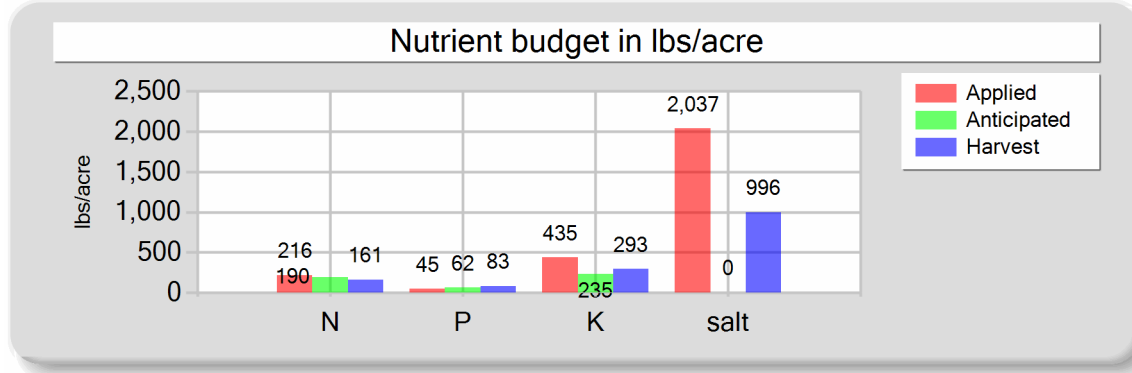
Reporting period 01/01/2023 to 12/31/2023.

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	10,800,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	397.73 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	19.89 <i>inches/acre</i>
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	53.72	7.02	127.55	536.75	
Fresh water	0.90	0.00	0.00	1,500.60	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	215.52	44.82	435.35	2,037.35	
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00	
Actual crop nutrient removal	161.25	82.50	292.50	995.93	
Nutrient balance	54.27	-37.68	142.85	1,041.42	
Applied to removed ratio	1.34	0.54	1.49	2.05	
					Process wastewater applied
					330,000.00 <i>gallons</i>
					12.15 <i>acre-inches</i>
					0.61 <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.

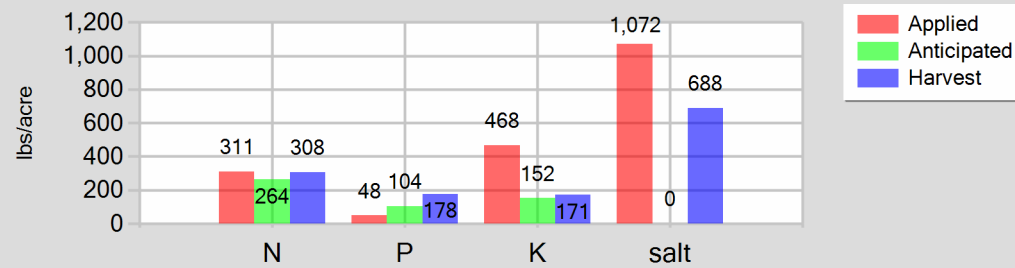
Field 3 - 06/14/2023: Corn, silage

Field name: Field 3

Crop: Corn, silage

Plant date: 06/14/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	50.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	106.77	13.65	200.78	803.12
Fresh water	0.72	0.00	0.00	269.08
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	310.89	48.45	468.38	1,072.20
Anticipated crop nutrient removal	264.00	104.00	152.00	0.00
Actual crop nutrient removal	307.80	177.84	171.00	688.31
Nutrient balance	3.09	-129.39	297.38	383.89
Applied to removed ratio	1.01	0.27	2.74	1.56

Fresh water applied
17,280,000.00 <i>gallons</i>
636.36 <i>acre-inches</i>
31.82 <i>inches/acre</i>
Process wastewater applied
1,203,000.00 <i>gallons</i>
44.30 <i>acre-inches</i>
2.22 <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.

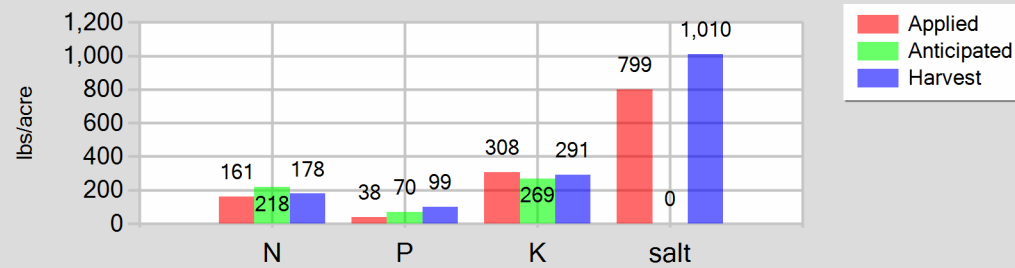
Field 32 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 32

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	153.90	37.80	307.80	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	799.30
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	160.90	37.80	307.80	799.30
Anticipated crop nutrient removal	217.60	70.40	268.80	0.00
Actual crop nutrient removal	178.34	99.08	290.63	1,010.04
Nutrient balance	-17.44	-61.28	17.17	-210.75
Applied to removed ratio	0.90	0.38	1.06	0.79

Fresh water applied
60,210,000.00 <i>gallons</i>
2,217.33 <i>acre-inches</i>
14.59 <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.

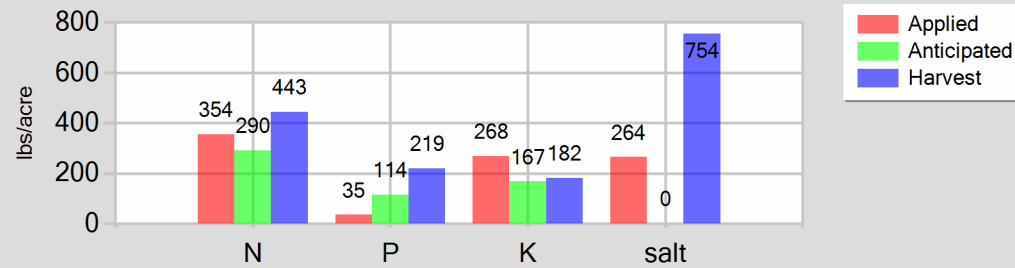
Field 32 - 06/08/2023: Corn, silage

Field name: Field 32

Crop: Corn, silage

Plant date: 06/08/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	200.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.71	0.00	0.00	264.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	354.11	34.80	267.60	264.31
Anticipated crop nutrient removal	290.40	114.40	167.20	0.00
Actual crop nutrient removal	443.21	219.49	181.51	754.47
Nutrient balance	-89.10	-184.69	86.09	-490.16
Applied to removed ratio	0.80	0.16	1.47	0.35

Fresh water applied
129,000,000.00 <i>gallons</i>
4,750.63 <i>acre-inches</i>
31.25 <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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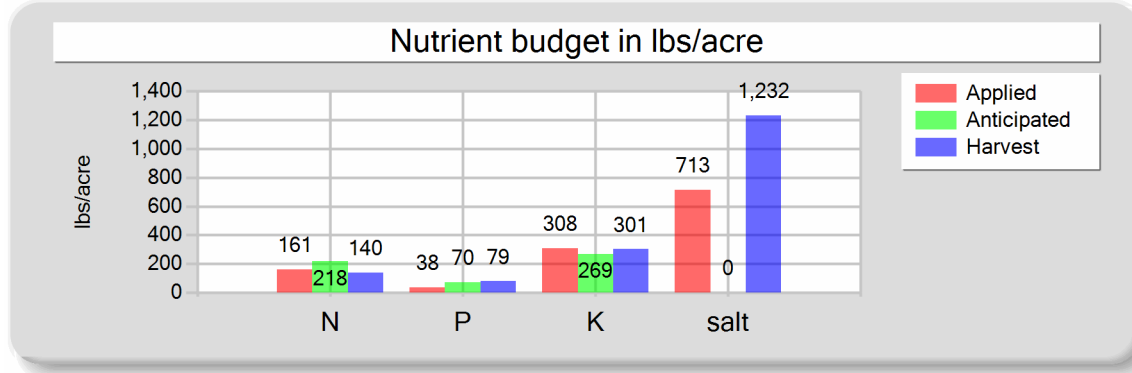
Reporting period 01/01/2023 to 12/31/2023.

Field 33 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 33

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	53,010,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,952.18 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.01 <i>inches/acre</i>
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	713.10	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	160.90	37.80	307.80	713.10	
Anticipated crop nutrient removal	217.60	70.40	268.80	0.00	
Actual crop nutrient removal	140.48	79.02	301.45	1,231.83	
Nutrient balance	20.42	-41.22	6.35	-518.74	
Applied to removed ratio	1.15	0.48	1.02	0.58	
					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.

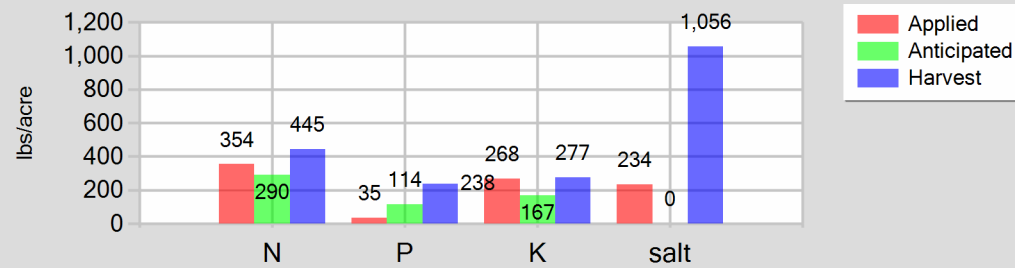
Field 33 - 06/12/2023: Corn, silage

Field name: Field 33

Crop: Corn, silage

Plant date: 06/12/2023

Nutrient budget in lbs/acre



	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	112,920,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	4,158.46 <i>acre-inches</i>
Commercial fertilizer / Other	200.00	0.00	0.00	0.00	27.72 <i>inches/acre</i>
Dry manure	146.40	34.80	267.60	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.63	0.00	0.00	234.45	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	354.03	34.80	267.60	234.45	
Anticipated crop nutrient removal	290.40	114.40	167.20	0.00	
Actual crop nutrient removal	445.10	237.67	276.57	1,056.31	
Nutrient balance	-91.07	-202.87	-8.97	-821.86	
Applied to removed ratio	0.80	0.15	0.97	0.22	
					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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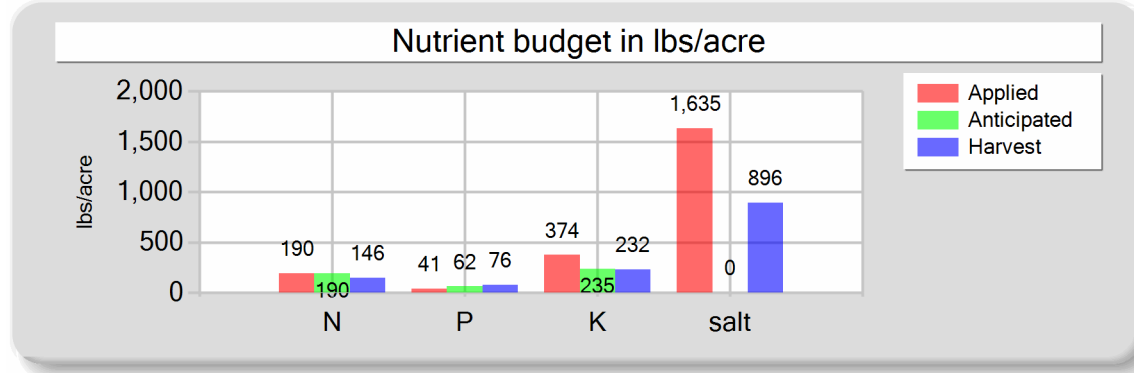
Reporting period 01/01/2023 to 12/31/2023.

Field 4 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 4

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	67,410,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,482.48 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.99 <i>inches/acre</i>
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	28.26	3.65	65.74	277.56	
Fresh water	0.82	0.00	0.00	1,357.42	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	189.98	41.45	373.54	1,634.99	
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00	
Actual crop nutrient removal	145.97	76.30	232.22	895.70	
Nutrient balance	44.01	-34.85	141.33	739.29	
Applied to removed ratio	1.30	0.54	1.61	1.83	
					Process wastewater applied
					1,200,000.00 <i>gallons</i>
					44.19 <i>acre-inches</i>
					0.32 <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.

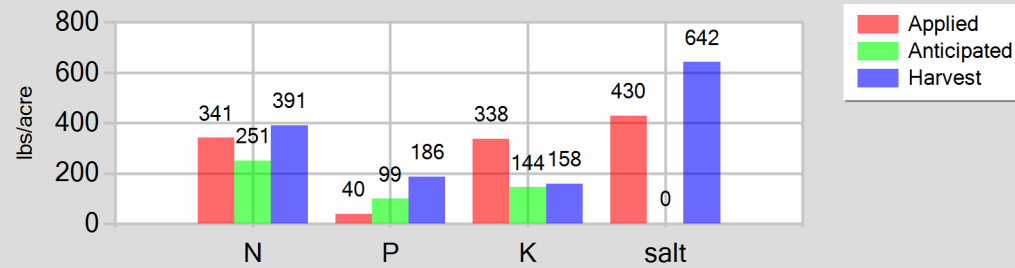
Field 4 - 06/14/2023: Corn, silage

Field name: Field 4

Crop: Corn, silage

Plant date: 06/14/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	37.24	4.76	70.03	280.10
Fresh water	0.40	0.00	0.00	149.41
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	341.04	39.56	337.63	429.51
Anticipated crop nutrient removal	250.80	98.80	144.40	0.00
Actual crop nutrient removal	390.98	185.62	157.97	641.76
Nutrient balance	-49.94	-146.05	179.65	-212.25
Applied to removed ratio	0.87	0.21	2.14	0.67

Fresh water applied
66,204,000.00 gallons
2,438.07 acre-inches
17.67 inches/acre
Process wastewater applied
2,895,000.00 gallons
106.61 acre-inches
0.77 inches/acre
Total harvests for the crop
1 harvests

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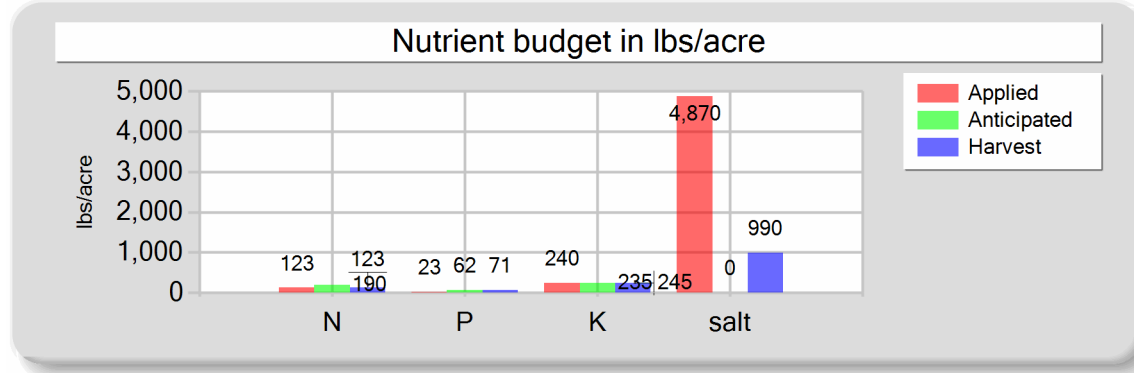
Reporting period 01/01/2023 to 12/31/2023.

Field 6 - 11/14/2022: Wheat, silage, boot stage

Field name: Field 6

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022



	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	95,715,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	3,524.86 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	58.75 <i>inches/acre</i>
Dry manure	68.40	16.80	136.80	0.00	
Process wastewater	45.42	5.78	103.04	436.80	
Fresh water	2.66	0.00	0.00	4,433.02	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	123.48	22.58	239.84	4,869.81	
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00	
Actual crop nutrient removal	122.69	71.33	245.39	989.85	
Nutrient balance	0.79	-48.76	-5.54	3,879.96	
Applied to removed ratio	1.01	0.32	0.98	4.92	
					Process wastewater applied
					840,000.00 <i>gallons</i>
					30.93 <i>acre-inches</i>
					0.52 <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.

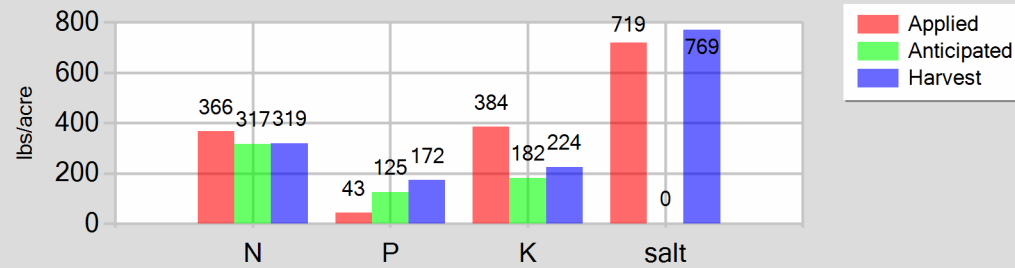
Field 6 - 06/17/2023: Corn, silage

Field name: Field 6

Crop: Corn, silage

Plant date: 06/17/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	61.95	7.92	116.50	465.98
Fresh water	0.68	0.00	0.00	253.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	366.03	42.72	384.10	719.37
Anticipated crop nutrient removal	316.80	124.80	182.40	0.00
Actual crop nutrient removal	319.29	172.49	223.87	769.42
Nutrient balance	46.74	-129.77	160.23	-50.05
Applied to removed ratio	1.15	0.25	1.72	0.93

Fresh water applied
48,816,000.00 gallons
1,797.73 acre-inches
29.96 inches/acre
Process wastewater applied
2,094,000.00 gallons
77.11 acre-inches
1.29 inches/acre
Total harvests for the crop
1 harvests

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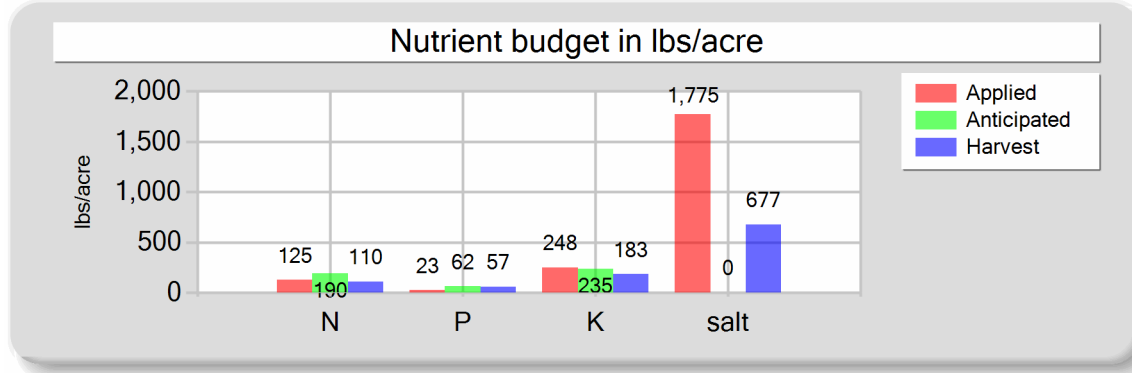
Reporting period 01/01/2023 to 12/31/2023.

Field 7 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 7

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	68.40	16.80	136.80	0.00
Process wastewater	48.68	6.21	110.91	469.82
Fresh water	0.78	0.00	0.00	1,304.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	124.86	23.01	247.71	1,774.79
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00
Actual crop nutrient removal	109.53	57.37	182.55	676.55
Nutrient balance	15.33	-34.37	65.16	1,098.24
Applied to removed ratio	1.14	0.40	1.36	2.62

Fresh water applied
47,430,000.00 gallons
1,746.69 acre-inches
17.29 inches/acre

Process wastewater applied
1,515,000.00 gallons
55.79 acre-inches
0.55 inches/acre

Total harvests for the crop
1 harvests

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

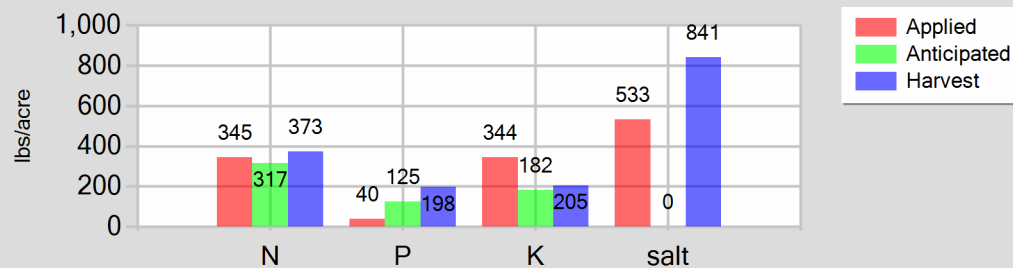
Field 7 - 06/19/2023: Corn, silage

Field name: Field 7

Crop: Corn, silage

Plant date: 06/19/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	40.54	5.18	76.25	304.98
Fresh water	0.61	0.00	0.00	227.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	344.55	39.98	343.85	532.77
Anticipated crop nutrient removal	316.80	124.80	182.40	0.00
Actual crop nutrient removal	373.07	197.73	205.19	840.75
Nutrient balance	-28.52	-157.74	138.66	-307.98
Applied to removed ratio	0.92	0.20	1.68	0.63

Fresh water applied
73,872,000.00 gallons
2,720.45 acre-inches
26.94 inches/acre
Process wastewater applied
2,307,000.00 gallons
84.96 acre-inches
0.84 inches/acre
Total harvests for the crop
1 harvests

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

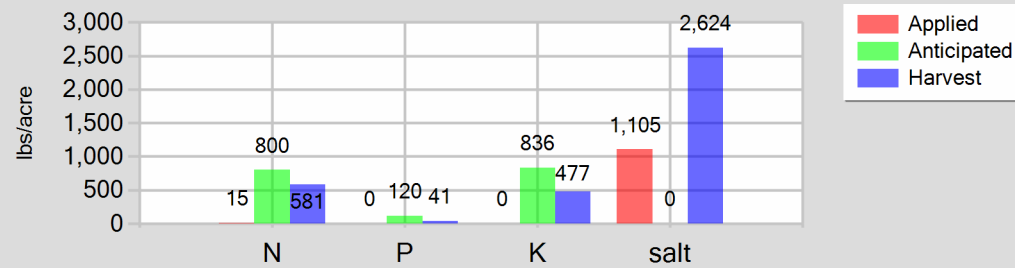
Field 8 - 01/01/2023: Alfalfa, hay

Field name: Field 8

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	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	120,636,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	4,442.61 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	38.97 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.65	0.00	0.00	1,104.84	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	14.65	0.00	0.00	1,104.84	
Anticipated crop nutrient removal	800.10	119.70	835.80	0.00	
Actual crop nutrient removal	581.35	41.12	476.67	2,623.73	
Nutrient balance	-566.71	-41.12	-476.67	-1,518.89	
Applied to removed ratio	0.03	0.00	0.00	0.42	
					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.

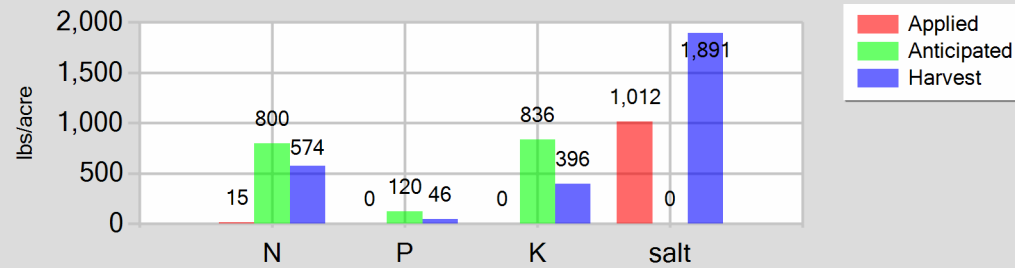
Field 9 - 01/01/2023: Alfalfa, hay

Field name: Field 9

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	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	104,292,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	3,840.72 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	32.83 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.52	0.00	0.00	1,012.02	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	14.52	0.00	0.00	1,012.02	
Anticipated crop nutrient removal	800.10	119.70	835.80	0.00	
Actual crop nutrient removal	574.02	46.49	396.15	1,890.97	
Nutrient balance	-559.50	-46.49	-396.15	-878.95	
Applied to removed ratio	0.03	0.00	0.00	0.54	
					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.

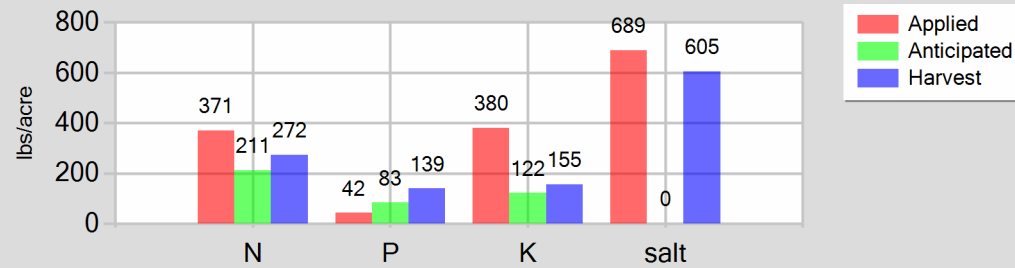
Field B - 06/16/2023: Corn, silage

Field name: Field B

Crop: Corn, silage

Plant date: 06/16/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	144.77	34.41	264.63	0.00
Process wastewater	61.53	7.87	115.72	462.87
Fresh water	0.61	0.00	0.00	226.10
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	370.91	42.28	380.34	688.97
Anticipated crop nutrient removal	211.20	83.20	121.60	0.00
Actual crop nutrient removal	272.33	139.33	155.17	605.06
Nutrient balance	98.58	-97.05	225.18	83.92
Applied to removed ratio	1.36	0.30	2.45	1.14

Fresh water applied
13,068,000.00 <i>gallons</i>
481.25 <i>acre-inches</i>
26.74 <i>inches/acre</i>
Process wastewater applied
624,000.00 <i>gallons</i>
22.98 <i>acre-inches</i>
1.28 <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.

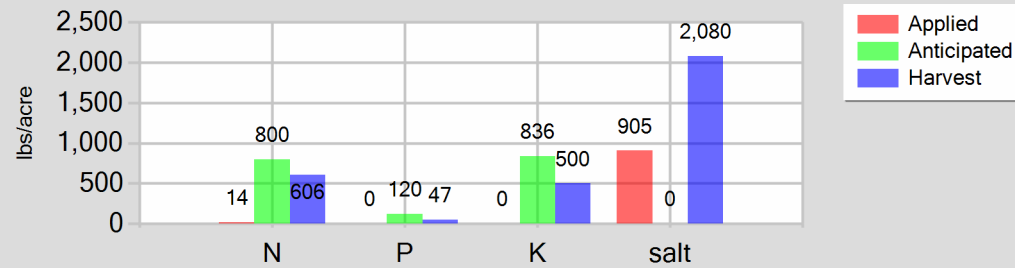
P1 - 01/01/2023: Alfalfa, hay

Field name: P1

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.42	0.00	0.00	905.41
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.42	0.00	0.00	905.41
Anticipated crop nutrient removal	800.10	119.70	835.80	0.00
Actual crop nutrient removal	605.83	46.92	499.76	2,080.41
Nutrient balance	-591.41	-46.92	-499.76	-1,175.01
Applied to removed ratio	0.02	0.00	0.00	0.44

Fresh water applied
107,868,000.00 <i>gallons</i>
3,972.41 <i>acre-inches</i>
35.15 <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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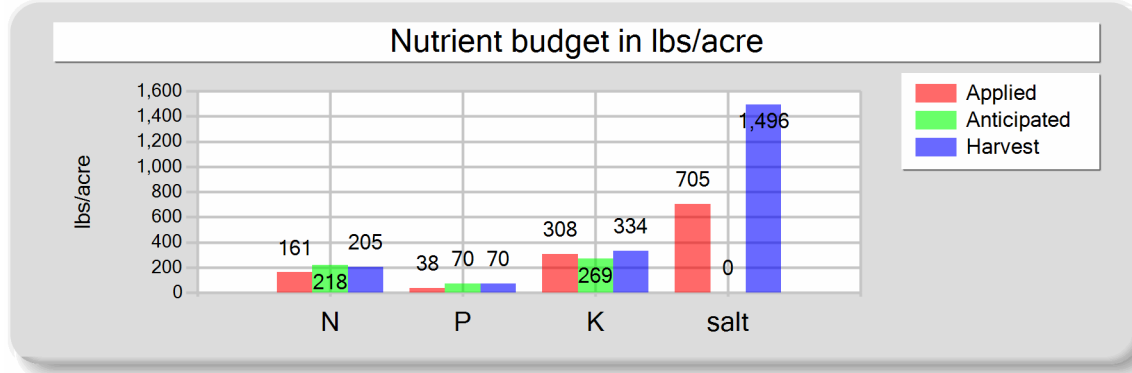
Reporting period 01/01/2023 to 12/31/2023.

P10 - 11/16/2022: Wheat, silage, boot stage

Field name: P10

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	57,240,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,107.95 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.61 inches/acre
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	704.83	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	160.90	37.80	307.80	704.83	
Anticipated crop nutrient removal	217.60	70.40	268.80	0.00	
Actual crop nutrient removal	204.92	70.26	333.72	1,495.61	
Nutrient balance	-44.02	-32.46	-25.92	-790.79	
Applied to removed ratio	0.79	0.54	0.92	0.47	
					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.

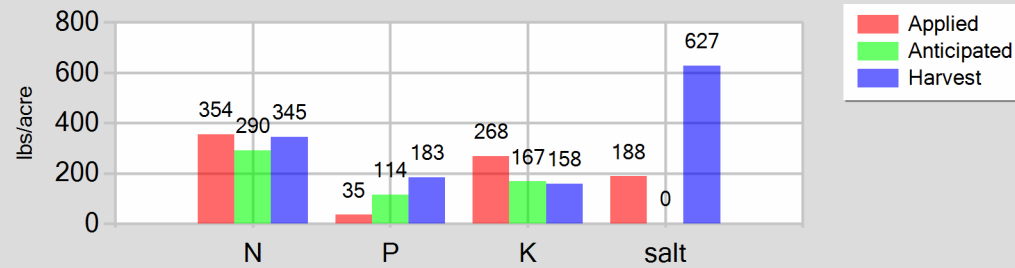
P10 - 06/24/2023: Corn, silage

Field name: P10

Crop: Corn, silage

Plant date: 06/24/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	200.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.50	0.00	0.00	187.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	353.90	34.80	267.60	187.97
Anticipated crop nutrient removal	290.40	114.40	167.20	0.00
Actual crop nutrient removal	344.53	183.26	157.60	627.04
Nutrient balance	9.38	-148.46	110.00	-439.07
Applied to removed ratio	1.03	0.19	1.70	0.30

Fresh water applied
81,480,000.00 <i>gallons</i>
3,000.63 <i>acre-inches</i>
22.23 <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.

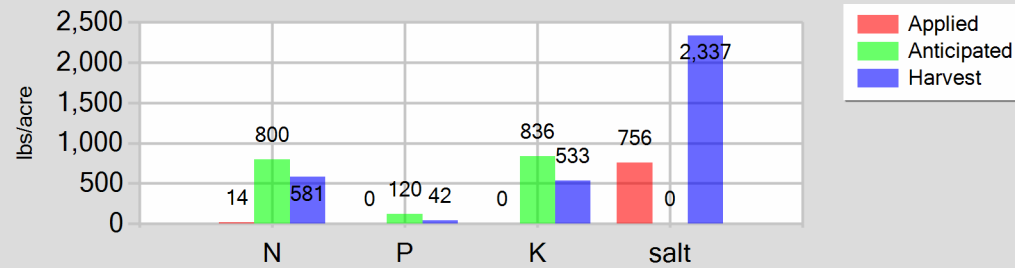
P11 - 01/01/2023: Alfalfa, hay

Field name: P11

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.31	0.00	0.00	755.57
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.31	0.00	0.00	755.57
Anticipated crop nutrient removal	800.10	119.70	835.80	0.00
Actual crop nutrient removal	581.08	41.80	533.01	2,337.16
Nutrient balance	-566.77	-41.80	-533.01	-1,581.59
Applied to removed ratio	0.02	0.00	0.00	0.32

Fresh water applied
102,660,000.00 <i>gallons</i>
3,780.62 <i>acre-inches</i>
28.00 <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.

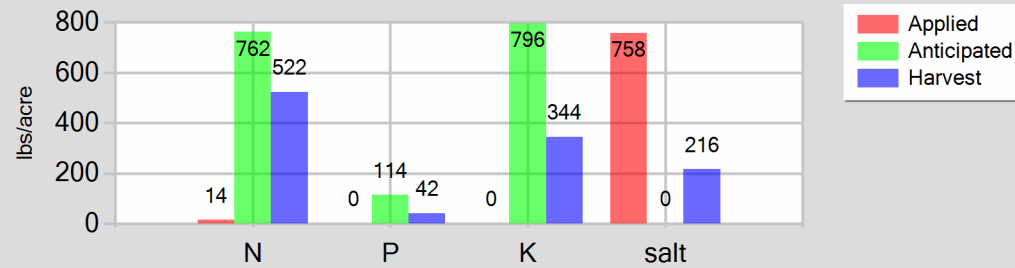
P12 - 01/01/2023: Alfalfa, hay

Field name: P12

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.35	0.00	0.00	757.75
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.35	0.00	0.00	757.75
Anticipated crop nutrient removal	762.00	114.00	796.00	0.00
Actual crop nutrient removal	522.13	41.94	343.89	216.08
Nutrient balance	-507.77	-41.94	-343.89	541.67
Applied to removed ratio	0.03	0.00	0.00	3.51

Fresh water applied
108,054,000.00 <i>gallons</i>
3,979.26 <i>acre-inches</i>
29.48 <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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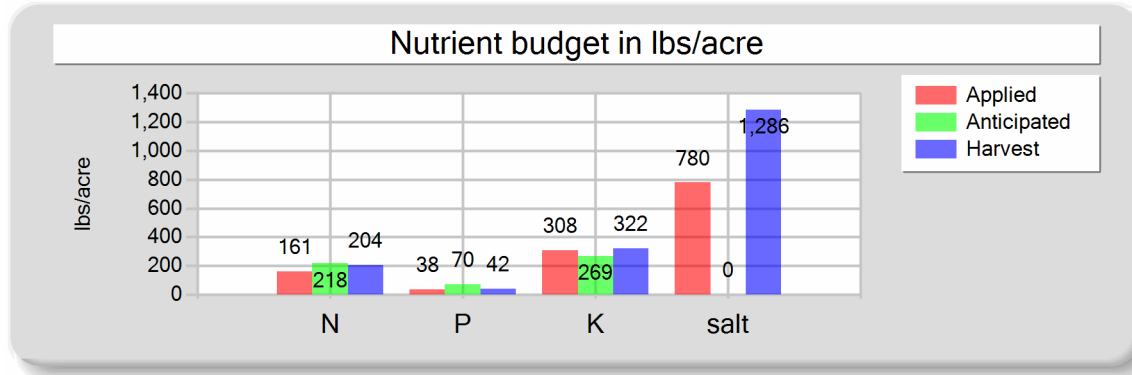
Reporting period 01/01/2023 to 12/31/2023.

P2 - 11/15/2022: Wheat, silage, boot stage

Field name: P2

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	57,960,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,134.47 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	14.23 <i>inches/acre</i>
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	779.69	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	160.90	37.80	307.80	779.69	
Anticipated crop nutrient removal	217.60	70.40	268.80	0.00	
Actual crop nutrient removal	204.40	42.00	322.00	1,286.21	
Nutrient balance	-43.50	-4.20	-14.20	-506.52	
Applied to removed ratio	0.79	0.90	0.96	0.61	
					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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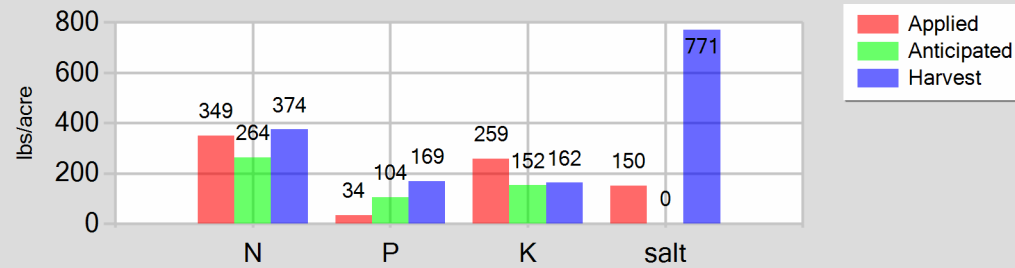
P2 - 06/19/2023: Corn, silage

Field name: P2

Crop: Corn, silage

Plant date: 06/19/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	200.00	0.00	0.00	0.00
Dry manure	141.52	33.64	258.68	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.79	0.00	0.00	150.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	349.31	33.64	258.68	150.02
Anticipated crop nutrient removal	264.00	104.00	152.00	0.00
Actual crop nutrient removal	373.83	169.28	162.23	771.28
Nutrient balance	-24.51	-135.64	96.45	-621.26
Applied to removed ratio	0.93	0.20	1.59	0.19

Fresh water applied
71,340,000.00 <i>gallons</i>
2,627.21 <i>acre-inches</i>
17.51 <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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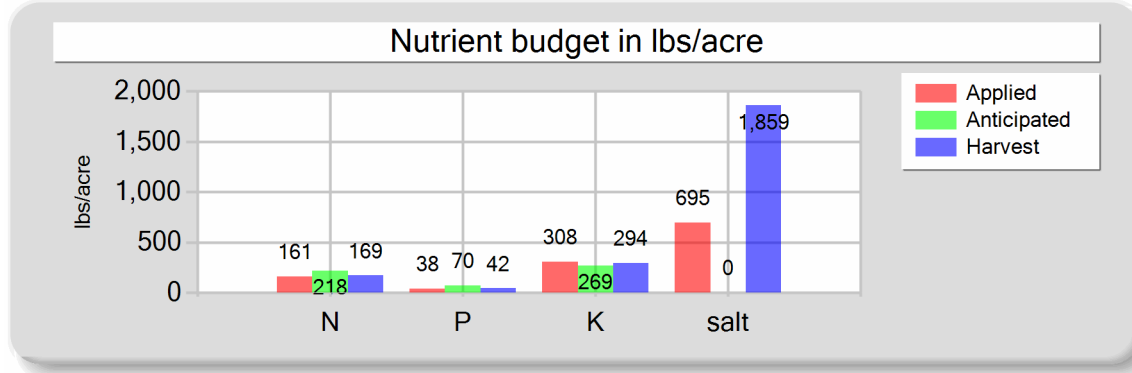
Reporting period 01/01/2023 to 12/31/2023.

P3 - 11/16/2022: Wheat, silage, boot stage

Field name: P3

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	49,920,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,838.38 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.68 <i>inches/acre</i>
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	694.69	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	160.90	37.80	307.80	694.69	
Anticipated crop nutrient removal	217.60	70.40	268.80	0.00	
Actual crop nutrient removal	169.47	42.37	293.54	1,859.48	
Nutrient balance	-8.57	-4.57	14.26	-1,164.80	
Applied to removed ratio	0.95	0.89	1.05	0.37	
					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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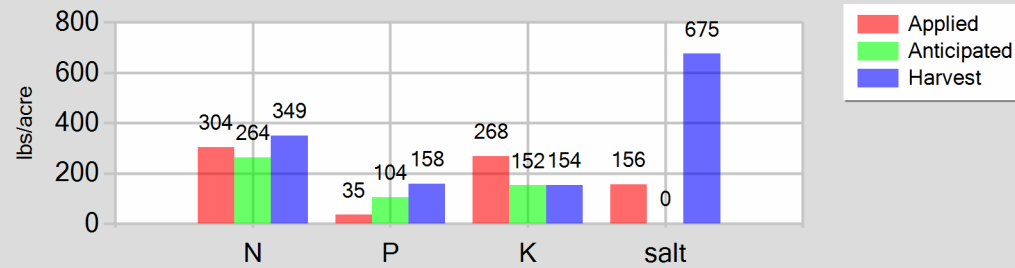
P3 - 06/20/2023: Corn, silage

Field name: P3

Crop: Corn, silage

Plant date: 06/20/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.82	0.00	0.00	155.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.22	34.80	267.60	155.85
Anticipated crop nutrient removal	264.00	104.00	152.00	0.00
Actual crop nutrient removal	348.91	157.57	153.82	675.01
Nutrient balance	-44.69	-122.77	113.78	-519.16
Applied to removed ratio	0.87	0.22	1.74	0.23

Fresh water applied
71,640,000.00 gallons
2,638.26 acre-inches
18.19 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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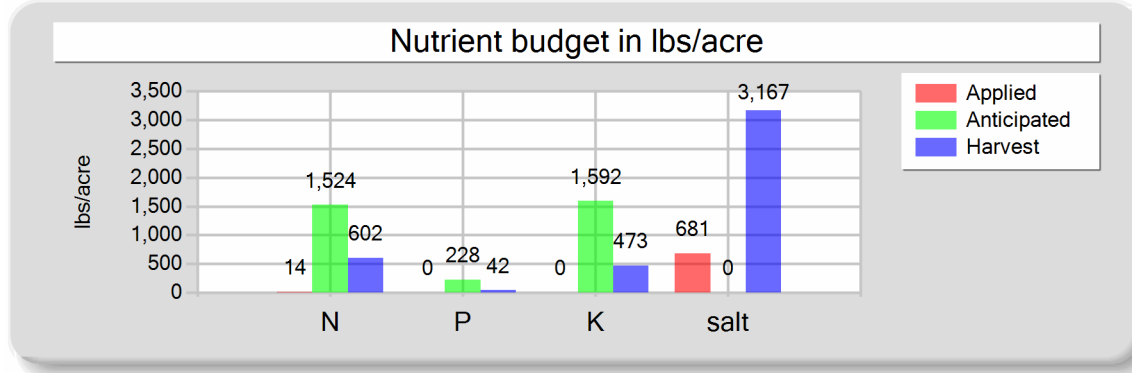
Reporting period 01/01/2023 to 12/31/2023.

P4 - 01/01/2023: Alfalfa, hay

Field name: P4

Crop: Alfalfa, hay

Plant date: 01/01/2023



	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	108,252,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	3,986.55 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	26.40 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.32	0.00	0.00	681.25	0.00 <i>gallons</i>
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Total nutrients applied	14.32	0.00	0.00	681.25	0.00 <i>inches/acre</i>
Anticipated crop nutrient removal	1,524.00	228.00	1,592.00	0.00	
Actual crop nutrient removal	601.96	41.58	473.25	3,167.42	
Nutrient balance	-587.64	-41.58	-473.25	-2,486.17	Total harvests for the crop
Applied to removed ratio	0.02	0.00	0.00	0.22	1 <i>harvests</i>

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

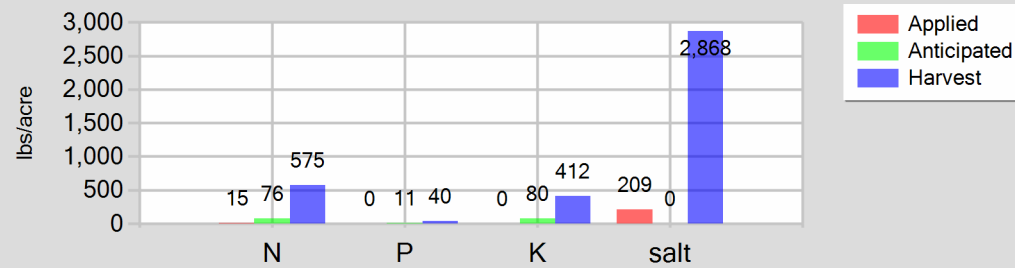
P5 - 01/01/2023: Alfalfa, hay

Field name: P5

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.56	0.00	0.00	209.46
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.56	0.00	0.00	209.46
Anticipated crop nutrient removal	76.20	11.40	79.60	0.00
Actual crop nutrient removal	575.00	40.38	411.54	2,867.95
Nutrient balance	-560.44	-40.38	-411.54	-2,658.49
Applied to removed ratio	0.03	0.00	0.00	0.07

Fresh water applied
104,922,000.00 <i>gallons</i>
3,863.92 <i>acre-inches</i>
24.77 <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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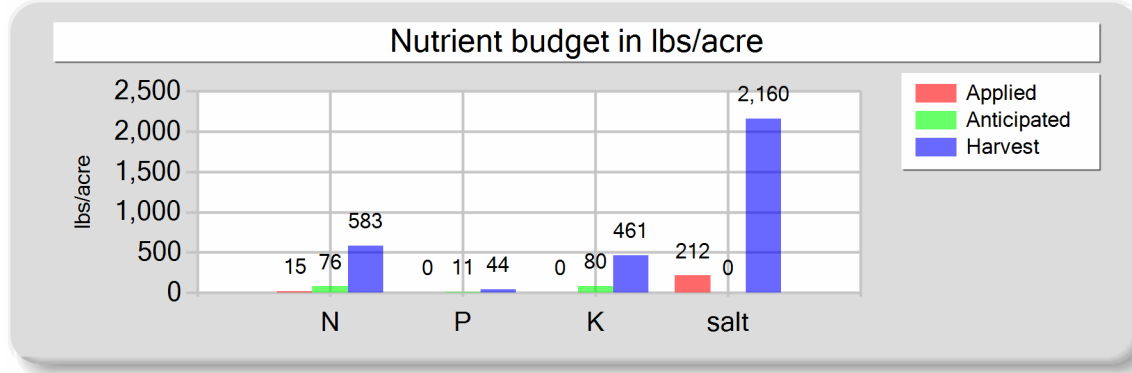
Reporting period 01/01/2023 to 12/31/2023.

P6 - 01/01/2023: Alfalfa, hay

Field name: P6

Crop: Alfalfa, hay

Plant date: 01/01/2023



	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	104,922,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	3,863.92 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	25.09 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.57	0.00	0.00	212.18	0.00 <i>gallons</i>
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Total nutrients applied	14.57	0.00	0.00	212.18	0.00 <i>inches/acre</i>
Anticipated crop nutrient removal	76.20	11.40	79.60	0.00	
Actual crop nutrient removal	583.06	43.73	460.99	2,160.36	
Nutrient balance	-568.50	-43.73	-460.99	-1,948.18	
Applied to removed ratio	0.02	0.00	0.00	0.10	
					Total harvests for the crop
					1 <i>harvests</i>

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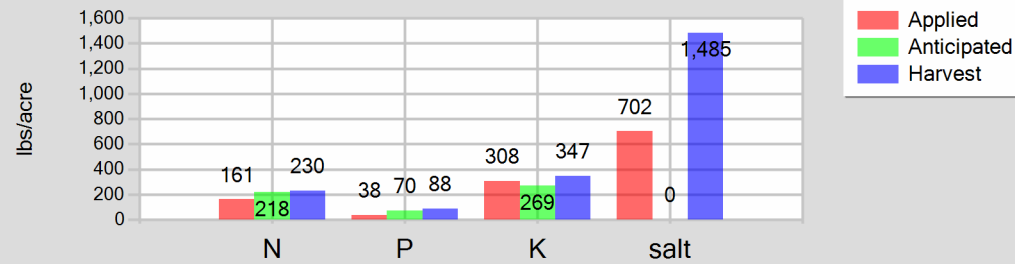
P9 - 11/16/2022: Wheat, silage, boot stage

Field name: P9

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	153.90	37.80	307.80	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	701.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	160.90	37.80	307.80	701.87
Anticipated crop nutrient removal	217.60	70.40	268.80	0.00
Actual crop nutrient removal	229.61	88.31	347.36	1,485.39
Nutrient balance	-68.71	-50.51	-39.56	-783.52
Applied to removed ratio	0.70	0.43	0.89	0.47

Fresh water applied
57,000,000.00 gallons
2,099.12 acre-inches
15.55 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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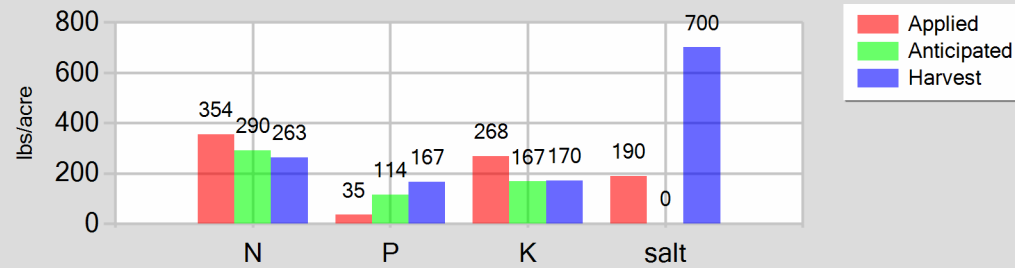
P9 - 06/20/2023: Corn, silage

Field name: P9

Crop: Corn, silage

Plant date: 06/20/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	200.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.51	0.00	0.00	189.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	353.91	34.80	267.60	189.63
Anticipated crop nutrient removal	290.40	114.40	167.20	0.00
Actual crop nutrient removal	262.56	166.76	170.31	700.19
Nutrient balance	91.35	-131.96	97.29	-510.56
Applied to removed ratio	1.35	0.21	1.57	0.27

Fresh water applied
82,200,000.00 <i>gallons</i>
3,027.15 <i>acre-inches</i>
22.42 <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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NUTRIENT ANALYSES

A. MANURE ANALYSES

22H2035

Sample and source description: 22H2035

Sample date: 08/25/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 29.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,100.00	4,200.00	34,200.00	11,100.00	5,400.00	6,200.00	5,100.00	13,000.00		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

23F0711

Sample and source description: 23F0711

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

Moisture: 44.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,200.00	2,900.00	22,300.00	7,800.00	4,400.00	3,100.00	3,000.00	7,000.00		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

23L0896

Sample and source description: 23L0896

Sample date: 12/13/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 52.8 %

	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	12,600.00	2,400.00	17,100.00							0.00
DL	0.01	0.01	0.01							10.00

B. PROCESS WASTEWATER ANALYSES

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

22J1606

Sample and source description: 22J1606

Sample date: 10/26/2022 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	395.00	313.00	0.00	1.60	58.20	1,130.00	186.00	133.00	353.00	3,340.00	0.00	102.00	623.00		4,630
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

23A0754

Sample and source description: 23A0754

Sample date: 01/30/2023 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	702.00	468.00	0.00	1.50	67.90	1,080.00									5,000
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23C0855

Sample and source description: 23C0855

Sample date: 03/28/2023 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	381.00	297.00	0.00	1.40	42.40	682.00									3,020
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23F0718

Sample and source description: 23F0718

Sample date: 06/06/2023 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	212.00	153.00	0.00	0.70	27.20	400.00	76.90	49.50	102.00	1,350.00	0.00	31.10	197.00		1,600
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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Reporting period 01/01/2023 to 12/31/2023.

23H1008

Sample and source description: 23H1008

Sample date: 08/09/2023 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	319.00	271.00	0.00	0.70	50.70	565.00									2,950
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23L0906

Sample and source description: 23L0906

Sample date: 12/13/2023 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	316.00	294.00	0.00	0.70	71.10	575.00									3,320
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

C. FRESH WATER ANALYSES

Arvin Edison

23H1009

Sample description: 23H1009

Sample date: 08/09/2023 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	0.20										63.00	
DL	0.01										10.00	

Buena Well

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

Buena Well

22G1546

Sample description: 22G1546

Sample date: 07/20/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.20										903.00	
DL	0.01										10.00	

Dom 1

23H1012

Sample description: 23H1012

Sample date: 08/09/2023 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										590.00	
DL	0.01										10.00	

Heifer DW

23L1087

Sample description: 23L1087

Sample date: 12/18/2023 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	0.10			36.30	0.70	81.00	130.00	0.00	69.30	24.00	492.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

N Canal

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

N Canal

23H1009

Sample description: 23H1009

Sample date: 08/09/2023 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	0.10										62.20	
DL	0.01										10.00	

Well 2

22G1546

Sample description: 22G1546

Sample date: 07/21/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.20										555.00	
DL	0.01										10.00	

Well 8

23L0907

Sample description: 23L0907

Sample date: 12/13/2023 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										607.00	
DL	0.01										10.00	

Well P-6

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

Well P-6

22G1546

Sample description: 22G1546

Sample date: 07/20/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										403.00	
DL	0.01										10.00	

Well P-9

22G1546

Sample description: 22G1546

Sample date: 07/20/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										332.00	
DL	0.01										10.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field 1 - 11/14/2022: Wheat, silage, boot stage

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

Field 1 - 11/14/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 63.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,400.00	3,900.00	14,100.00		12.70
DL	0.01	0.01	0.01		0.01

Field 1 - 06/10/2023: Corn, silage

23J0377

Sample and source description: 23J0377

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 35.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,900.00	4,700.00	4,700.00		2.20
DL	0.01	0.01	0.01		0.01

Field 10 - 01/01/2023: Alfalfa, hay

2-420-238

Sample and source description: 2-420-238

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 11.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,200.00	2,300.00	19,800.00		10.39
DL	0.01	0.01	0.01		0.01

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

23F0939

Sample and source description: 23F0939

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

Moisture: 68.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	2,400.00	7,900.00		9.80
DL	0.01	0.01	0.01		0.01

Field 11 - 06/13/2023: Corn, silage

23J0377

Sample and source description: 23J0377

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 37.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,100.00	4,800.00	5,900.00		3.50
DL	0.01	0.01	0.01		0.01

Field 12 - 11/14/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 71.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	2,700.00	9,400.00		7.10
DL	0.01	0.01	0.01		0.01

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Field 12 - 06/09/2023: Corn, silage

23J0377

Sample and source description: 23J0377

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 36.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,200.00	4,600.00	5,900.00		3.60
DL	0.01	0.01	0.01		0.01

Field 2 - 11/14/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 71.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	1,800.00	6,800.00		16.40
DL	0.01	0.01	0.01		0.01

Field 2 - 06/10/2023: Corn, silage

23L0905

Sample and source description: 23L0905

Sample date: 12/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 26.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,200.00	6,000.00	5,000.00		2.70
DL	0.01	0.01	0.01		0.01

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Field 21 - 11/15/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 61.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,400.00	3,400.00	11,800.00		12.70
DL	0.01	0.01	0.01		0.01

Field 21 - 06/08/2023: Corn, silage

23L0905

Sample and source description: 23L0905

Sample date: 12/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 31.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,300.00	4,800.00	4,700.00		3.10
DL	0.01	0.01	0.01		0.01

Field 22 - 11/15/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 59.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,400.00	3,800.00	15,600.00		12.40
DL	0.01	0.01	0.01		0.01

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Field 22 - 06/08/2023: Corn, silage

23L0905

Sample and source description: 23L0905

Sample date: 12/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 32.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,600.00	4,300.00	5,500.00		3.40
DL	0.01	0.01	0.01		0.01

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

23F0939

Sample and source description: 23F0939

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

Moisture: 72.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	2,200.00	7,800.00		9.80
DL	0.01	0.01	0.01		0.01

Field 3 - 06/14/2023: Corn, silage

23J0377

Sample and source description: 23J0377

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 30.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,000.00	5,200.00	5,000.00		2.90
DL	0.01	0.01	0.01		0.01

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Field 32 - 11/15/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 74.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,400.00	3,000.00	8,800.00		11.90
DL	0.01	0.01	0.01		0.01

Field 32 - 06/08/2023: Corn, silage

23L0905

Sample and source description: 23L0905

Sample date: 12/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 33.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,500.00	5,200.00	4,300.00		2.70
DL	0.01	0.01	0.01		0.01

Field 33 - 11/15/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

Sample date: 06/07/2023 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	4,800.00	2,700.00	10,300.00		13.80
DL	0.01	0.01	0.01		0.01

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Field 33 - 06/12/2023: Corn, silage

23L0905

Sample and source description: 23L0905

Sample date: 12/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 32.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,300.00	5,500.00	6,400.00		3.60
DL	0.01	0.01	0.01		0.01

Field 4 - 11/15/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 78.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	2,300.00	7,000.00		12.50
DL	0.01	0.01	0.01		0.01

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

23L0905

Sample and source description: 23L0905

Sample date: 12/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 35.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,900.00	4,700.00	4,000.00		2.50
DL	0.01	0.01	0.01		0.01

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Field 6 - 11/14/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	2,500.00	8,600.00		11.30
DL	0.01	0.01	0.01		0.01

Field 6 - 06/17/2023: Corn, silage

23J0377

Sample and source description: 23J0377

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 40.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,700.00	4,700.00	6,100.00		3.50
DL	0.01	0.01	0.01		0.01

Field 7 - 11/15/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

Sample date: 06/07/2023 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	4,200.00	2,200.00	7,000.00		10.90
DL	0.01	0.01	0.01		0.01

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Field 7 - 06/19/2023: Corn, silage

23J0377

Sample and source description: 23J0377

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 37.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,000.00	5,300.00	5,500.00		3.60
DL	0.01	0.01	0.01		0.01

Field 8 - 01/01/2023: Alfalfa, hay

2-420-233

Sample and source description: 2-420-233

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 6.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,100.00	2,200.00	25,500.00		15.06
DL	0.01	0.01	0.01		0.01

Field 9 - 01/01/2023: Alfalfa, hay

2-420-237

Sample and source description: 2-420-237

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,400.00	2,300.00	19,600.00		10.43
DL	0.01	0.01	0.01		0.01

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Field B - 06/16/2023: Corn, silage

23J0377

Sample and source description: 23J0377

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 42.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,600.00	4,400.00	4,900.00		3.30
DL	0.01	0.01	0.01		0.01

P1 - 01/01/2023: Alfalfa, hay

2-420-231

Sample and source description: 2-420-231

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 8.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,700.00	2,300.00	24,500.00		11.11
DL	0.01	0.01	0.01		0.01

P10 - 11/16/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 61.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,000.00	2,400.00	11,400.00		13.10
DL	0.01	0.01	0.01		0.01

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P10 - 06/24/2023: Corn, silage

23J0377

Sample and source description: 23J0377

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 34.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,400.00	5,000.00	4,300.00		2.60
DL	0.01	0.01	0.01		0.01

P11 - 01/01/2023: Alfalfa, hay

2-420-239

Sample and source description: 2-420-239

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	27,800.00	2,000.00	25,500.00		12.41
DL	0.01	0.01	0.01		0.01

P12 - 01/01/2023: Alfalfa, hay

2-420-240

Sample and source description: 2-420-240

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 93.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,900.00	2,000.00	16,400.00		15.38
DL	0.01	0.01	0.01		0.01

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P2 - 11/15/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 53.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,300.00	1,500.00	11,500.00		9.90
DL	0.01	0.01	0.01		0.01

P2 - 06/19/2023: Corn, silage

23J0377

Sample and source description: 23J0377

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 27.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,600.00	4,800.00	4,600.00		3.00
DL	0.01	0.01	0.01		0.01

P3 - 11/16/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 53.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	1,400.00	9,700.00		13.30
DL	0.01	0.01	0.01		0.01

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P3 - 06/20/2023: Corn, silage

23J0377

Sample and source description: 23J0377

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 30.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,300.00	4,200.00	4,100.00		2.60
DL	0.01	0.01	0.01		0.01

P4 - 01/01/2023: Alfalfa, hay

2-420-234

Sample and source description: 2-420-234

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 7.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	30,400.00	2,100.00	23,900.00		17.20
DL	0.01	0.01	0.01		0.01

P5 - 01/01/2023: Alfalfa, hay

2-420-235

Sample and source description: 2-420-235

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 7.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,900.00	2,100.00	21,400.00		16.14
DL	0.01	0.01	0.01		0.01

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P6 - 01/01/2023: Alfalfa, hay

2-420-236

Sample and source description: 2-420-236

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 5.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,000.00	2,400.00	25,300.00		12.60
DL	0.01	0.01	0.01		0.01

P9 - 11/16/2022: Wheat, silage, boot stage

23F0939

Sample and source description: 23F0939

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

Moisture: 56.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,800.00	3,000.00	11,800.00		11.60
DL	0.01	0.01	0.01		0.01

P9 - 06/20/2023: Corn, silage

23L0905

Sample and source description: 23L0905

Sample date: 12/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 40.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,400.00	4,700.00	4,800.00		3.30
DL	0.01	0.01	0.01		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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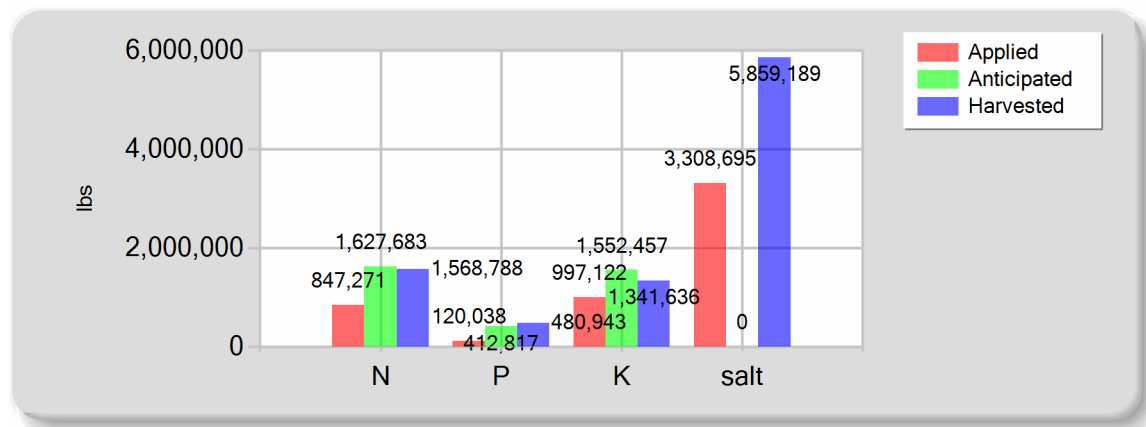
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NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

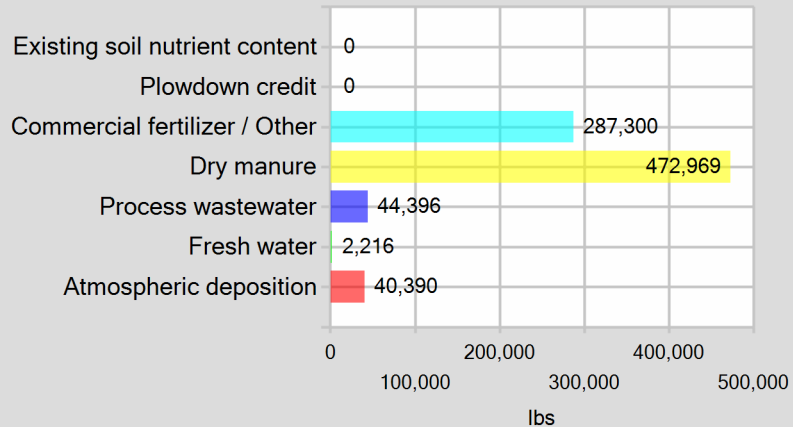
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	287,300.00	0.00	0.00	0.00
Dry manure	472,968.62	114,350.84	906,395.08	0.00
Process wastewater	44,395.69	5,687.37	90,727.09	371,837.34
Fresh water	2,216.21	0.00	0.00	2,936,858.13
Atmospheric deposition	40,390.00	0.00	0.00	0.00
Total nutrients applied	847,270.52	120,038.21	997,122.17	3,308,695.47
Anticipated crop nutrient removal	1,627,683.30	412,816.50	1,552,457.40	0.00
Actual crop nutrient removal	1,568,788.32	480,943.00	1,341,636.46	5,859,189.24
Nutrient balance	-721,517.80	-360,904.79	-344,514.29	-2,550,493.77
Applied to removed ratio	0.54	0.25	0.74	0.56

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

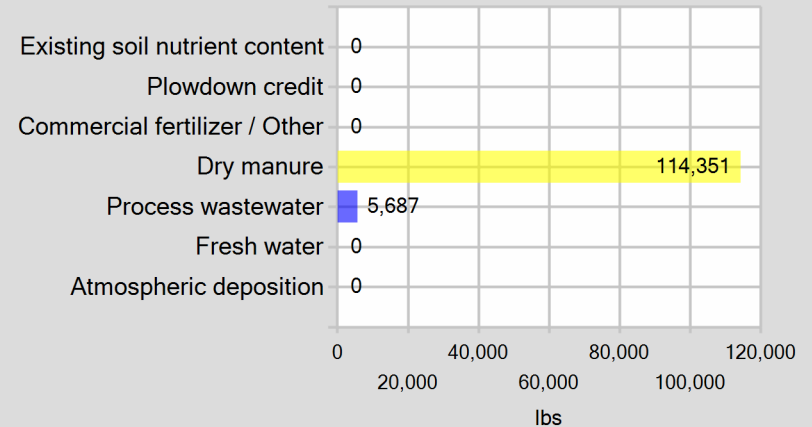


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

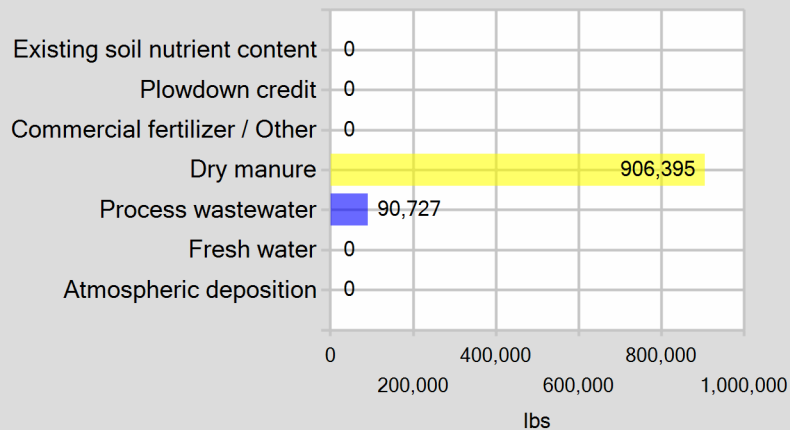
Pounds of nitrogen applied



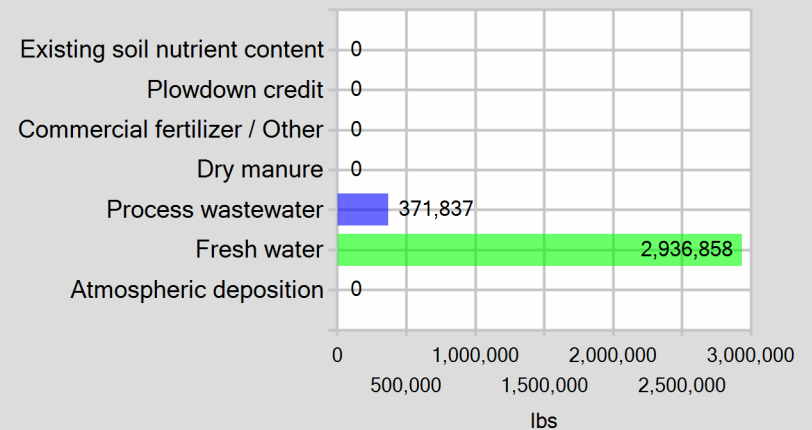
Pounds of phosphorus applied



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

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ADDITIONAL NOTES

A. NOTES

Wells 2, Buena Vista, 9, P-9 Back-up, P-6 went offline before they could be sampled. Used 2022 samples when needed.

Ratios seem low on summer crops. Nitrogen harvest numbers seem high.

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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

Richard Tillema

PRINT OR TYPE NAME

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

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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

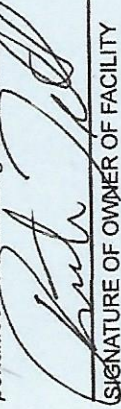
Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

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.

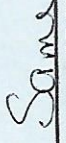

SIGNATURE OF OWNER OF FACILITY

Richard Tillemma

PRINT OR TYPE NAME

6-29-24

DATE



SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

6-29-24

DATE

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:** RichMar Farms

Physical address of dairy:

1129 E Shafter RD

Number and Street

Bakersfield

City

Kern

County

93307

Zip Code

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

Date facility was originally placed in operation: 03/30/2000Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X185-X200-X006-X000 X185-X270-X004-X000 X185-X270-X008-X000 X185-X310-X002-X000 X185-X332-X036-X000 X185-X341-X031-X004**B. OPERATORS**

Tillema, Richard

Operator name: Tillema, Richard

Telephone no.:

(661) 747-2226

Landline

Cellular

1129 E Shafter RD

Mailing Address Number and Street

Bakersfield

City

CA

State

93307

Zip Code

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

Tillema, Richard

Legal owner name: Tillema, Richard

Telephone no.:

(661) 747-2226

Landline

Cellular

1129 E Shafter RD

Mailing Address Number and Street

Bakersfield

City

CA

State

93307

Zip Code

This owner is responsible for paying permit fees.

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

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

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 1	49	49	2	both	X185-X200-X006-X000
Field 10	122	122	1	none	X185-X322-X036-X000
Field 11	114	114	2	both	X185-X322-X036-X000
Field 12	104	104	2	both	X185-X341-X031-X000
Field 2	45	45	2	both	X185-X200-X006-X000
Field 21	52	52	2	both	X185-X270-X004-X000 X185-X270-X008-X000
Field 22	126	120	2	both	X185-X200-X006-X000
Field 3	20	20	2	both	X185-X200-X006-X000
Field 32	152	152	2	manure	X185-X270-X004-X000
Field 33	150	150	2	manure	X185-X270-X008-X000
Field 4	138	138	2	both	X185-X200-X006-X000
Field 6	60	60	2	both	X185-X200-X006-X000
Field 7	101	101	2	both	X185-X200-X006-X000
Field 8	114	114	1	none	X185-X322-X036-X000
Field 9	117	117	1	none	X185-X322-X036-X000
Field B	18	18	1	both	X185-X310-X002-X000
P1	120	113	1	none	X185-X270-X008-X000
P10	135	135	2	manure	X185-X310-X002-X000
P11	135	135	1	none	X185-X310-X002-X000
P12	135	135	1	none	X185-X310-X002-X000
P2	160	150	2	manure	X185-X270-X008-X000
P3	160	145	2	manure	X185-X270-X008-X000
P4	160	151	1	none	X185-X270-X008-X000
P5	160	156	1	none	X185-X270-X008-X000
P6	160	154	1	none	X185-X270-X008-X000
P9	135	135	2	manure	X185-X310-X002-X000
Totals for areas that were used for application	1,719	1,688	33		
Totals for areas that were not used for application	1,223	1,197	9		
Land application area totals	2,942	2,885	42		

B. CROPS AND HARVESTS

Field 1

Report of Dairy Canal Water Analysis

Richmar Farms
1129 E Shafter Road
Bakersfield
00-0016047

CA 93307
08

E-mail: martyverhoeven@gmail.com
Copy To:

Lab No.: 23H1009
Sampled By: Marty Verhoeven
Requested By: Marty Verhoeven
Submitted Date: 08/10/23
Reported Date: 08/15/23
Project: 1129 E. Shafter Ave, Bakersfield
Crop ID:

	Date Sampled	Time Sampled	EC µmhos/cm	EC mmhos/cm	NO ₃ -N mg/L	TDS mg/L
1 Arvin Edison (Standpipe)	8/9/23	13:20	63.0	0.06	0.2	55
2 N. Canal (Pump Valve)	8/9/23	13:46	62.2	0.06	0.1	50

ND = None Detected

Approved By: *Boor M. Frieland*
Laboratory Director/Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02



08/10/23 08:12

23H1009

A

WATER WORK REQUEST

Bill To: 16047 08

Purchase Order No. _____ Results Needed By _____

Client: **Richmar Farms**

Address: **1129 E Shafter Road**

City, State, Zip: **Bakersfield, CA 93307**

Email: _____

Copy to: martyverhoeven@gmail.com

Requested by/Cell: Marty Verhoeven/ 559-410-2420

Facility: 1129 E. Shafter Ave, Bakersfield

Date sampled: 8-9-23

Sampled by: mm

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB

DESCRIPTION OF SAMPLES

1. <u>(Arvin) Devin Adigo</u>	Sampled From: <u>Sanitary</u>
2. <u>2. Concl</u>	Sampled From: <u>Pump Room</u>
3.	Sampled From: _____
4.	Sampled From: _____
5.	Sampled From: _____
6.	Sampled From: _____
7.	Sampled From: _____
8.	Sampled From: _____
9.	Sampled From: _____
10.	Sampled From: _____

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No. of Samples 2 No. Bottles 2

Water Type: ☐ Drinking ☐ Wastewater
☐ Ag Water ☐ Ground Water ☐ Mon. Well
☐ Supply Water ☐ Other _____

Analysis and Bottles Required: (Please Indicate Analysis)

- ☐ DWW1: (EC, pH, 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)

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
8-9-23	1:20		1.3 / -0.6
8-9-23	1:46		2.3 / -1.1

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>mm</u>	<u>DLI</u>	8-9-23 1:20	8-9-23 3:17 p.m.
Second	<u>mm</u>	<u>DLI</u>	08/09/23 3:17 p.m.	
Third	<u>mm</u>	<u>DLI</u>	8/10 8:12	
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Fees are not 30 days; overdue accounts will be charged a 2% per month (maximum 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (call). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through and under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then either party will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Price List 2022

Sampling Hrs _____ Miles _____ Consulting _____

Amt Paid _____ Rec By _____ Check No. _____

Shipping: \$ _____ In _____ Out _____

Date _____

Signature _____

Sample received in cooler with ice? ☐ Yes ☐ No

08/10/23

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

IR Thermometer SN: 221511274
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Hanford

Report of Dairy Well Water Analysis

Richmar Farms
1129 E Shafter Road
Bakersfield
00-0016047

CA 93307
08

E-mail: martyverhoeven@gmail.com
Copy To:

Lab No.: 23H1012
Sampled By: Marty Verhoeven
Requested By: Marty Verhoeven
Submitted Date: 08/10/23
Reported Date: 08/14/23
Project: 1129 E. Shafter Ave, Bakersfield
Crop ID:

	Date	Time	EC	EC	NO ₃ -N	Field		pH
						mg/L	mg/L	
Sampled	Sampled	µmhos/cm	mmhos/cm	mg/L	NH ₄ -N	NH ₄ -N	at 25°C	unit
1	Dom 1 (Valve @ Well)	8/9/23	13:36	590	0.59	ND	ND	8.0

* = Field NH₄-N not Taken.
ND = None Detected

Approved By: *Boat McNeil*
Laboratory Director/Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02

08/10/23 08:13

23H1012

WATER WORK REQUEST

Bill To: 16047 08

Purchase Order No. _____ Results Needed By _____

Client Richmar Farms
 Address 1129 E Shafter Road
 City, State, Zip Bakersfield, CA 93307
 Email: _____

Copy to: martyverhoeven@gmail.com

Requested by/Cell: Marty Verhoeven/ 559-410-2420

Facility: 1129 E. Shafter Ave, Bakersfield

Date sampled 8-9-23

Sampled by [Signature]

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB

DESCRIPTION OF SAMPLES

1. <u>Dom 1</u>	Sampled From: <u>10/20/21</u>
2.	Sampled From: _____
3.	Sampled From: _____
4.	Sampled From: _____
5.	Sampled From: _____
6.	Sampled From: _____
7.	Sampled From: _____
8.	Sampled From: _____
9.	Sampled From: _____
10.	Sampled From: _____

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No. of Samples _____ No. Bottles _____

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

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
<u>8-9-23</u>	<u>136</u>	<u>0</u>	<u>0.8/0.7</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>	<u>VFC</u>	<u>8-9-23 136</u>	<u>8-9-23 3:17p.m.</u>
Second	<u>[Signature]</u>	<u>DLI</u>	<u>08/09/23 3:17p.m.</u>	
Third	<u>MM</u>	<u>DLI</u>	<u>8/10 8:13</u>	
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorney's fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a stated charge fee of 2% per month (annually, 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (call). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through call under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then neither will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorney's fees of Dellavalle Laboratory.

Invoicing Information: Shipping

Price List 2022

Sampling Hrs _____ Miles _____ Consulting _____ \$ _____ In _____
 \$ _____ Out _____

Am't Paid _____ Rec By _____ Check No. _____ Date _____

Signature _____

Sample received in cooler with ice?
☐ Yes ☐ No c:\update\2024

 IR Thermometer SN: 200560723
 Correction Factor: 0°C
 Calibration Due: 9/26/2023
 Location: Laboratory

 IR Thermometer SN: 221511274
 Correction Factor: 0°C
 Calibration Due: 9/26/2023
 Location: Hanford

Report of Dairy Well Water Analysis

Richmar Farms
1129 E Shafter Road
Bakersfield CA 93307
00-0016047 08

E-mail: martyverhoeven@gmail.com
Copy To:

Lab No.: 23L0907
Sampled By: Marty V.
Requested By: Marty Verhoeven
Submitted Date: 12/14/23
Reported Date: 12/21/23
Project: 1129 E. Shafter Ave, Bakersfield
Crop ID:

Date	Time	EC	EC	NO ₃ -N	Field		pH
					NH ₄ -N	Total NH ₄ -N	
Sampled	Sampled	µmhos/cm	mmhos/cm	mg/L	mg/L	mg/L	unit
12/13/23	13:05	607	0.61	ND	*		8.0

* = Field NH₄-N not Taken.
ND = None Detected

Approved By: *Boor M. Tricland*
Laboratory Director/Technical Manager
ELAP Certification #1595
AZLA Certification #6440.02

12/14/23 07:00

23L0907

WATER WORK REQUEST

Bill To:	Acct No. 16047	Cons. 08
----------	-------------------	-------------

Purchase Order No.	Results Needed By
--------------------	-------------------

Client	Richmar Farms
Address	1129 E Shafter Road
City, State, Zip	Bakersfield, CA 93307
Email:	0

Copy to: martyverhoeven@gmail.com

Requested by/Cell: Marty Verhoeven/ 559-410-2420

Facility: 1129 E. Shafter Ave, Bakersfield

Date sampled 2/13/23

Sampled by Marty V.

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB

DESCRIPTION OF SAMPLES

Well	Sampled From
1. Well 8	Sampled From
2.	Sampled From
3.	Sampled From
4.	Sampled From
5.	Sampled From
6.	Sampled From
7.	Sampled From
8.	Sampled From
9.	Sampled From
10.	Sampled From

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No. of Samples	No. Bottles
----------------	-------------

Water Type:

<input checked="" type="checkbox"/> Ag Water	<input type="checkbox"/> Drinking	<input checked="" type="checkbox"/> Wastewater
<input type="checkbox"/> Supply Water	<input type="checkbox"/> Ground Water	<input type="checkbox"/> Mon. Well
	<input type="checkbox"/> 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)

<input type="checkbox"/> Other	Date	Time	Field	Received	H/F
	<u>Sampled</u>	<u>Sampled</u>	<u>NH₄-N (mg/L)</u>	<u>Temp °C</u>	
	2/13/03	1:05 pm		14.3	0-0

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

IR Thermometer SN: 221511276
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Hanford

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First		WFLA	12/13/23 10:5	12/13/23 3:17pm
Second		ABC	12/13/23 3:17pm	
Third				
Fourth		FOX	12/14 07:00	

¹ Guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be in cash with samples unless terms have been previously arranged. Terms are net 30 days, overdue accounts will be charged a dated default fee of 24% per month (annually 24% or) \$5.00 per month whichever is greater.

Invoicing Information: **Invoicing** *Price List 2003*
 Sampling Hrs _____ Miles _____ Consulting _____
 Amt Paid _____ Rec By _____ Check No. _____ Date _____
 Shipping \$ _____ In _____
 \$ _____ Out _____

Signature _____

Sample received in cooler with ice^a

	Yes	No
--	-----	----

cfr update 2020

Report of Dairy Well Water Analysis

Richmar Farms
1129 E Shafter Road
Bakersfield CA 93307
00-0016047 08

E-mail: martyverhoeven@gmail.com
Copy To:

Lab No.: 23L1087
Sampled By:
Requested By: Marty Verhoeven
Submitted Date: 12/18/23
Reported Date: 12/26/23
Project: Tillamook Ranch
Crop ID:

	Date	Time	EC µmhos/cm	EC mmhos/cm	NO ₃ -N mg/L	Field		TDS mg/L	CO ₃		HCO ₃		Cl mg/L	SO ₄ mg/L	Ca mg/L	Mg mg/L	Na mg/L	pH at 25°C
						NH ₄ -N mg/L	Total mg/L		as mg/L	as mg/L								
Sampled	Sampled																	
1	Heifer DW	12/18/23	5:00	492	0.49	0.1	*	310	ND	130	24.0	69.3	36.3	0.7	81	8.1		

* = Field NH₄-N not Taken.
ND = None Detected

Approved By: *Boa M. Friedland*
Laboratory Director/Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02

23L1087

WATER WORK REQUEST

Bill To:	Acct No.	Cons.
	16047	08

Purchase Order No.	Results Needed By
--------------------	-------------------

Client Richmar Farms
Address 1129 E Shafter Road
City, State, Zip Bakersfield, CA 93307
Email: _____

Copy to: martyverhoeven@gmail.com

Requested by/Cell: Marty Verhoeven/ 559-410-2420

Facility: Tillamook Ranch

Date sampled 12/18/23

Sampled by _____

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB

DESCRIPTION OF SAMPLES

1. Hefier DW	Sampled From:	IR Thermometer Correction Factor: Calibration Due: Location: Hard
2.	Sampled From:	
3.	Sampled From:	
4.	Sampled From:	
5.	Sampled From:	
6.	Sampled From:	
7.	Sampled From:	
8.	Sampled From:	
9.	Sampled From:	
10.	Sampled From:	

IR Thermometer SN: 221511276
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Hanford

IR Thermometer SN: 192603727
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<i>M. T. [Signature]</i>	VDFC	12/18/23	12/18/23 1:47
Second	<i>C. [Signature]</i>	DCT	12/18/23 1:47	12/18/23 1:47
Third	<i>[Signature]</i>	DLP	12/18/23 2:04	
Fourth	<i>[Signature]</i>	DCT	12.18.23 15:30	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a default damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternatives to Litigation, Inc. (cali). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cali under its Rules and Procedures. The parties will equally bear the costs of mediation arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Price List 2023

Sampling Hrs _____ Miles _____ Consulting _____
 Amt Paid _____ Rec Bv _____ Check No _____

Shipping

\$ _____ In
\$ _____ Out

Date

Signature _____

Sample received in cooler with ice?

1	Yes	1	No
---	-----	---	----

cft update 2020