

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:** AJF Dairy

Physical address of dairy:

23435 12 RD
Number and StreetChowchilla
CityMadera
County93610
Zip Code

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

Date facility was originally placed in operation: 01/01/1969Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0025-0170-0003-0000 0025-0190-0007-0000 0025-0200-0004-0000**B. OPERATORS**

Fagundes, Anthony James

Operator name: Fagundes, Anthony JamesTelephone no.: (559) 665-1663 (559) 994-7156
Landline Cellular11648 Avenue 23 1/2

Mailing Address Number and Street

Chowchilla
CityCA
State93610
Zip Code**This operator is responsible for paying permit fees.****C. OWNERS**

Fagundes, Anthony James

Legal owner name: Fagundes, Anthony JamesTelephone no.: (559) 665-1663 (559) 994-7156
Landline Cellular11648 Avenue 23 1/2

Mailing Address Number and Street

Chowchilla
CityCA
State93610
Zip Code**This owner is responsible for paying permit fees.**

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	355	90	232	0	0	120
Number under roof	425	0	0	0	0	0
Maximum number	885	95	250	0	0	138
Average number	780	90	232	0	0	120
Avg live weight (lbs)	1,400	1,450	1,000	0		

Predominant milk cow breed: Holstein

Average milk production: 70 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 24,164.44 tons per reporting period

Total nitrogen from manure: 306,170.28 lbs per reporting period

After ammonia losses (30% loss applied): 214,319.20 lbs per reporting period

Total phosphorus from manure: 50,614.35 lbs per reporting period

Total potassium from manure: 149,377.20 lbs per reporting period

Total salt from manure: 387,958.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 20,932,001 gallons

Total nitrogen generated: 101,980.64 lbs

Total phosphorus generated: 10,452.31 lbs

Total potassium generated: 172,716.77 lbs

Total salt generated: 818,584.76 lbs

	20,932,001 gallons applied
+	0 gallons exported
-	0 gallons imported
=	20,932,001 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
CWD	Surface water
DOM-1	Ground water
DOM-2	Ground water
DOM-3	Ground water
DOM-4	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
1	32	32	2	both	0025-0200-0004-0000
11	43	43	1	none	0025-0170-0003-0000
11A	34	34	1	none	0025-0170-0003-0000
12	36	36	2	manure	0025-0170-0003-0000
12A	34	34	2	manure	0025-0170-0003-0000
1A	30	30	2	both	0025-0200-0004-0000
2	25	25	2	both	0025-0200-0004-0000
3	58	58	2	both	0025-0190-0007-0000
4	30	30	5	none	0025-0190-0007-0000
5	36	36	5	none	0025-0190-0007-0000
6	33	33	2	process wastewater	0025-0190-0007-0000
7	52	52	2	both	0025-0190-0007-0000
7A	54	54	6	both	0025-0190-0007-0000
Totals for areas that were used for application	354	354	22		
Totals for areas that were not used for application	143	143	12		
Land application area totals	497	497	34		

B. CROPS AND HARVESTS

1

Field name: 1

11/28/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 32 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	523.00 ton	Dry-weight		59.4	17,400.00	2,130.00	10,400.00		8.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	16.34	230.92	28.27	138.02	1,128.05

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1

05/31/2023: Corn, silage

Crop: Corn, silage Acres planted: 32 Plant date: 05/31/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/14/2023	893.00 <i>ton</i>	Dry-weight		74.6	11,900.00	1,760.00	18,100.00		9.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	27.91	168.70	24.95	256.59	1,375.11

11

Field name: 11

02/01/2021: Almond, in shell

Crop: Almond, in shell Acres planted: 43 Plant date: 02/01/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	41.00 <i>ton</i>	Dry-weight		5.0	36,500.00	3,200.00	33,500.00		9.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	213.00	24.00	114.00	66.00
Total actual harvest content	0.95	66.12	5.80	60.69	172.10

11A

Field name: 11A

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11A

01/30/2017: Almond, in shell

Crop: Almond, in shell Acres planted: 34 Plant date: 01/30/2017

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	30.00 ton	Dry-weight		5.0	36,500.00	3,200.00	33,500.00		9.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	213.00	24.00	114.00	66.00
Total actual harvest content	0.88	61.19	5.36	56.16	159.26

12

Field name: 12

10/27/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 10/27/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/12/2023	336.00 ton	Dry-weight		65.2	12,600.00	3,900.00	33,800.00		9.23

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	9.33	81.85	25.33	219.56	599.58

05/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 05/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/24/2023	833.00 ton	Dry-weight		65.8	9,400.00	3,400.00	14,700.00		9.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	23.14	148.77	53.81	232.66	1,535.22

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12A

Field name: 12A

10/29/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 34 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/12/2023	386.00 ton	Dry-weight		62.2	12,800.00	4,000.00	36,300.00		9.02

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	11.35	109.86	34.33	311.56	774.17

05/28/2023: Corn, silage

Crop: Corn, silage

Acres planted: 34 Plant date: 05/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/24/2023	751.00 ton	Dry-weight		63.6	11,300.00	2,430.00	15,000.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	22.09	181.71	39.07	241.20	1,591.94

1A

Field name: 1A

11/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 30 Plant date: 11/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	951.00 ton	Dry-weight		59.4	16,300.00	2,460.00	10,500.00		8.48

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	31.70	419.57	63.32	270.27	2,182.79

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1A

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 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 (%)
09/26/2023	1,010.00 ton	Dry-weight		71.8	12,000.00	2,550.00	16,800.00		4.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	33.67	227.86	48.42	319.00	873.45

2

Field name: 2

12/01/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 25 Plant date: 12/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	628.00 ton	Dry-weight		66.8	19,800.00	2,710.00	16,400.00		14.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	25.12	330.26	45.20	273.55	2,485.27

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 25 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 (%)
09/26/2023	901.00 ton	Dry-weight		67.6	10,000.00	2,190.00	18,300.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	36.04	233.54	51.15	427.38	1,494.65

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3

Field name: 3

11/29/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 58 Plant date: 11/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	1,036.00 ton	Dry-weight		56.9	19,900.00	2,220.00	10,300.00		8.14

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	17.86	306.40	34.18	158.59	1,253.32

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 58 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 (%)
09/27/2023	1,605.00 ton	Dry-weight		70.0	9,400.00	3,330.00	15,400.00		8.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	27.67	156.07	55.29	255.69	1,361.48

4

Field name: 4

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4

01/10/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 30 Plant date: 01/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/21/2023	75.00 ton	Dry-weight		11.2	27,400.00	3,080.00	31,900.00		12.60
07/18/2023	45.00 ton	Dry-weight		11.2	27,400.00	3,080.00	31,900.00		12.60
08/16/2023	52.00 ton	Dry-weight		11.2	27,400.00	3,080.00	31,900.00		12.60
09/29/2023	30.00 ton	Dry-weight		11.2	27,400.00	3,080.00	31,900.00		12.60
10/25/2023	47.00 ton	Dry-weight		11.2	27,400.00	3,080.00	31,900.00		12.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,600.00
Total actual harvest content	8.30	403.90	45.40	470.23	1,857.34

5

Field name: 5

01/12/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 36 Plant date: 01/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/22/2023	53.00 ton	Dry-weight		12.0	26,100.00	3,500.00	35,800.00		13.20
07/17/2023	43.00 ton	Dry-weight		12.0	26,100.00	3,500.00	35,800.00		13.20
08/15/2023	52.00 ton	Dry-weight		12.0	26,100.00	3,500.00	35,800.00		13.20
09/28/2023	37.00 ton	Dry-weight		12.0	26,100.00	3,500.00	35,800.00		13.20
10/27/2023	42.00 ton	Dry-weight		12.0	26,100.00	3,500.00	35,800.00		13.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,600.00
Total actual harvest content	6.31	289.65	38.84	397.30	1,464.91

6

Field name: 6

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6

11/27/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 33 Plant date: 11/27/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	821.00 ton	Dry-weight		69.2	23,400.00	2,630.00	16,800.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	24.88	358.61	40.31	257.47	1,593.83

05/31/2023: Corn, silage

Crop: Corn, silage Acres planted: 33 Plant date: 05/31/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/14/2023	1,102.00 ton	Dry-weight		70.0	12,100.00	1,750.00	17,200.00		9.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	33.39	242.44	35.06	344.63	1,943.53

7

Field name: 7

11/26/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 52 Plant date: 11/26/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	1,099.00 ton	Dry-weight		59.4	16,300.00	2,460.00	10,500.00		8.48

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	216.00	30.60	149.40	1,080.00
Total actual harvest content	21.13	279.73	42.22	180.19	1,455.28

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7

06/09/2023: Corn, silage

Crop: Corn, silage

Acres planted: 52 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 (%)
09/27/2023	1,514.00 ton	Dry-weight		69.0	11,300.00	2,600.00	18,100.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	29.12	203.98	46.93	326.73	1,083.09

7A

Field name: 7A

01/01/2021: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 54 Plant date: 01/01/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
02/21/2023	135.00 ton	Dry-weight		12.6	28,500.00	3,650.00	32,000.00		12.80
04/12/2023	96.00 ton	Dry-weight		12.6	28,500.00	3,650.00	32,000.00		12.80
05/12/2023	248.00 ton	Dry-weight		12.6	28,500.00	3,650.00	32,000.00		12.80
06/01/2023	68.00 ton	Dry-weight		12.6	28,500.00	3,650.00	32,000.00		12.80
07/07/2023	73.00 ton	Dry-weight		12.6	28,500.00	3,650.00	32,000.00		12.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,600.00
Total actual harvest content	11.48	571.98	73.25	642.23	2,568.91

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7A

07/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 54 Plant date: 07/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/06/2023	1,014.00 <i>ton</i>	Dry-weight		69.6	13,500.00	3,720.00	23,400.00		5.48

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	18.78	154.13	42.47	267.16	625.65

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NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 11/28/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
09/22/2022	Broadcast/incorporate		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application		Corral solids	140.44	43.03	375.74	3,847.05	160.00 <i>ton</i>
Application event totals			140.44	43.03	375.74	3,847.05	
11/10/2022	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
Blended Lg and Fresh Water Application		Process wastewater	83.55	16.13	154.90	702.23	720,000.00 <i>gal</i>
Application event totals			83.55	16.13	154.90	702.23	
03/02/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application		Process wastewater	94.63	13.11	69.17	1,004.90	864,000.00 <i>gal</i>
Application event totals			94.63	13.11	69.17	1,004.90	
04/30/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD		Surface water	0.00	0.00	0.00	13.91	4,104,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.91	

1 - 05/31/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 05/31/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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1 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application		Corral solids	184.55	67.82	284.60	0.00	243.00 <i>ton</i>
Application event totals			184.55	67.82	284.60	0.00	
05/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD		Surface water	0.00	0.00	0.00	17.03	5,022,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	17.03	
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
CWD		Surface water	0.00	0.00	0.00	10.62	3,132,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.62	
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
CWD		Surface water	0.00	0.00	0.00	14.65	4,320,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.65	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application		Process wastewater	36.41	1.17	10.40	231.32	504,000.00 <i>gal</i>
CWD		Surface water	0.00	0.00	0.00	19.95	5,886,000.00 <i>gal</i>
Application event totals			36.41	1.17	10.40	251.28	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD		Surface water	0.00	0.00	0.00	15.01	4,428,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	15.01	

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1 - 05/31/2023: 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
Lagoon Water Application		Process wastewater	0.00	0.00	0.00	0.00	1.00 <i>gal</i>
CWD		Surface water	0.00	0.00	0.00	14.83	4,374,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.83	

11 - 02/01/2021: Almond, in shell

Field name: 11

Crop: Almond, in shell Plant date: 02/01/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
08/01/2023	Total Irrigation Water this Season	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD		Surface water	0.00	0.00	0.00	93.00	36,864,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	93.00	
09/17/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD		Surface water	0.00	0.00	0.00	10.66	4,224,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.66	

11A - 01/30/2017: Almond, in shell

Field name: 11A

Crop: Almond, in shell Plant date: 01/30/2017

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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11A - 01/30/2017: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
08/03/2023	Total Irrigation Water this Season	No precipitation	No precipitation	No precipitation			
	Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
	CWD	Surface water	0.00	0.00	0.00	110.27	34,560,000.00 <i>gal</i>
	Application event totals		0.00	0.00	0.00	110.27	
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
	CWD	Surface water	0.00	0.00	0.00	12.87	4,032,000.00 <i>gal</i>
	Application event totals		0.00	0.00	0.00	12.87	

12 - 10/27/2022: Wheat, silage, soft dough

Field name: 12

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/22/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	102.07	73.54	404.49	0.00	180.00 <i>ton</i>
Application event totals		102.07	73.54	404.49	0.00	

12 - 05/28/2023: Corn, silage

Field name: 12

Crop: Corn, silage

Plant date: 05/28/2023

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.

12 - 05/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/14/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	190.32	55.09	229.54	0.00	216.00 <i>ton</i>
Application event totals		190.32	55.09	229.54	0.00	
05/17/2023	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
CWD	Surface water	0.00	0.00	0.00	20.83	6,912,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	20.83	
06/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	13.89	4,608,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.89	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	11.48	3,811,200.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.48	
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
CWD	Surface water	0.00	0.00	0.00	10.70	3,552,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.70	
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
CWD	Surface water	0.00	0.00	0.00	18.23	6,048,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	18.23	

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12 - 05/28/2023: 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
CWD		Surface water	0.00	0.00	0.00	13.60	4,512,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.60	

12A - 10/29/2022: Wheat, silage, soft dough

Field name: 12A

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/22/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	144.57	44.29	386.79	3,960.20	175.00 <i>ton</i>
Application event totals		144.57	44.29	386.79	3,960.20	

12A - 05/28/2023: Corn, silage

Field name: 12A

Crop: Corn, silage

Plant date: 05/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/14/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	248.17	71.83	299.30	0.00	266.00 <i>ton</i>
Application event totals		248.17	71.83	299.30	0.00	

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12A - 05/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	18.38	5,760,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	18.38	
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
CWD	Surface water	0.00	0.00	0.00	13.78	4,320,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.78	
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
CWD	Surface water	0.00	0.00	0.00	18.38	5,760,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	18.38	
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
CWD	Surface water	0.00	0.00	0.00	17.15	5,376,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.15	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	17.15	5,376,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.15	

1A - 11/30/2022: Wheat, silage, soft dough

Field name: 1A

Crop: Wheat, silage, soft dough

Plant date: 11/30/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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1A - 11/30/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Slurry Manure Application	Process wastewater	162.89	13.29	308.43	1,018.76	480,000.00 <i>gal</i>
Application event totals		162.89	13.29	308.43	1,018.76	
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
Blended Lg and Fresh Water Application	Process wastewater	106.95	20.64	198.28	898.86	864,000.00 <i>gal</i>
Application event totals		106.95	20.64	198.28	898.86	
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
Blended Lg and Fresh Water Application	Process wastewater	100.94	13.99	73.78	1,071.90	864,000.00 <i>gal</i>
Application event totals		100.94	13.99	73.78	1,071.90	
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
CWD	Surface water	0.00	0.00	0.00	13.67	3,780,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.67	

1A - 06/08/2023: Corn, silage

Field name: 1A

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	243.02	89.30	374.78	0.00	300.00 <i>ton</i>
Application event totals		243.02	89.30	374.78	0.00	

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1A - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	21.87	6,048,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	21.87	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	8.98	2,484,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	8.98	
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
Lagoon Water Application	Process wastewater	44.38	1.43	12.67	281.99	576,000.00 <i>gal</i>
CWD	Surface water	0.00	0.00	0.00	20.70	5,724,000.00 <i>gal</i>
Application event totals		44.38	1.43	12.67	302.69	
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
CWD	Surface water	0.00	0.00	0.00	18.94	5,238,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	18.94	
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
CWD	Surface water	0.00	0.00	0.00	13.86	3,834,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.86	
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
CWD	Surface water	0.00	0.00	0.00	12.50	3,456,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.50	

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2 - 12/01/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 12/01/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
09/23/2022	Broadcast/incorporate		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application		Corral solids	140.44	43.03	375.74	3,847.05	125.00 <i>ton</i>
Application event totals			140.44	43.03	375.74	3,847.05	
11/05/2022	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application		Process wastewater	85.56	16.52	158.62	719.09	576,000.00 <i>gal</i>
Application event totals			85.56	16.52	158.62	719.09	
01/10/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application		Process wastewater	40.38	5.60	29.51	428.76	288,000.00 <i>gal</i>
Application event totals			40.38	5.60	29.51	428.76	
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
CWD		Surface water	0.00	0.00	0.00	20.35	4,689,600.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	20.35	

2 - 06/08/2023: Corn, silage

Field name: 2

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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2 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	21.87	5,040,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	21.87	
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	184.70	67.87	284.84	0.00	190.00 <i>ton</i>
Application event totals		184.70	67.87	284.84	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
CWD	Surface water	0.00	0.00	0.00	20.83	4,800,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	20.83	
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
CWD	Surface water	0.00	0.00	0.00	12.50	2,880,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.50	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	136.27	4.63	272.54	1,124.77	648,000.00 <i>gal</i>
CWD	Surface water	0.00	0.00	0.00	12.50	2,880,000.00 <i>gal</i>
Application event totals		136.27	4.63	272.54	1,137.27	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	18.75	4,320,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	18.75	

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2 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	10.83	2,496,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.83	

3 - 11/29/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Slurry Manure Application	Process wastewater	150.96	12.31	285.83	944.11	860,000.00 <i>gal</i>
Application event totals		150.96	12.31	285.83	944.11	
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
Blended Lg and Fresh Water Application	Process wastewater	138.30	26.70	256.39	1,162.31	2,160,000.00 <i>gal</i>
Application event totals		138.30	26.70	256.39	1,162.31	
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
Blended Lg and Fresh Water Application	Process wastewater	52.21	7.23	38.16	554.43	864,000.00 <i>gal</i>
Application event totals		52.21	7.23	38.16	554.43	
04/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	22.62	12,096,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	22.62	

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3 - 06/09/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	87.57	32.18	135.05	0.00	209.00 <i>ton</i>
Application event totals		87.57	32.18	135.05	0.00	
06/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	130.53	4.43	261.05	1,077.37	1,440,000.00 <i>gal</i>
CWD	Surface water	0.00	0.00	0.00	20.43	10,920,000.00 <i>gal</i>
Application event totals		130.53	4.43	261.05	1,097.79	
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
CWD	Surface water	0.00	0.00	0.00	16.34	8,736,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	16.34	
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
CWD	Surface water	0.00	0.00	0.00	11.31	6,048,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	
07/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	15.08	8,064,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.08	

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3 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	16.34	8,736,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	16.34	
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
CWD	Surface water	0.00	0.00	0.00	11.78	6,300,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.78	
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
CWD	Surface water	0.00	0.00	0.00	11.31	6,048,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	

4 - 01/10/2023: Alfalfa, hay

Field name: 4

Crop: Alfalfa, hay

Plant date: 01/10/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
05/01/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD		Surface water	0.00	0.00	0.00	13.86	3,834,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.86	
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
CWD		Surface water	0.00	0.00	0.00	13.86	3,834,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.86	

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4 - 01/10/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	13.67	3,780,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.67	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	12.69	3,510,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.69	
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
CWD	Surface water	0.00	0.00	0.00	13.92	3,850,200.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.92	
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
CWD	Surface water	0.00	0.00	0.00	13.92	3,850,200.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.92	

5 - 01/12/2023: Alfalfa, hay

Field name: 5

Crop: Alfalfa, hay

Plant date: 01/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	15.62	5,184,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.62	

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5 - 01/12/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
05/29/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
CWD		Surface water	0.00	0.00	0.00	15.62	5,184,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	15.62		
06/23/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
CWD		Surface water	0.00	0.00	0.00	14.54	4,824,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	14.54		
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	
CWD		Surface water	0.00	0.00	0.00	15.69	5,205,600.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	15.69		
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	
CWD		Surface water	0.00	0.00	0.00	13.95	4,629,600.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	13.95		
09/12/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
CWD		Surface water	0.00	0.00	0.00	15.34	5,090,400.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	15.34		

6 - 11/27/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/27/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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6 - 11/27/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Slurry Manure Application		Process wastewater	197.45	16.10	373.86	1,234.86	640,000.00 <i>gal</i>
Application event totals			197.45	16.10	373.86	1,234.86	
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
Blended Lg and Fresh Water Application		Process wastewater	61.18	8.48	44.72	649.64	576,000.00 <i>gal</i>
Application event totals			61.18	8.48	44.72	649.64	
04/23/2023	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
CWD		Surface water	0.00	0.00	0.00	11.74	3,570,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	11.74	

6 - 05/31/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 05/31/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	13.39	4,074,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.39	
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
CWD	Surface water	0.00	0.00	0.00	13.25	4,032,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.25	

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6 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	275.29	9.35	550.59	2,272.27	1,728,000.00 <i>gal</i>
CWD	Surface water	0.00	0.00	0.00	13.53	4,116,000.00 <i>gal</i>
Application event totals		275.29	9.35	550.59	2,285.80	
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
CWD	Surface water	0.00	0.00	0.00	12.29	3,738,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.29	
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
CWD	Surface water	0.00	0.00	0.00	16.02	4,872,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	16.02	
08/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	14.95	4,548,600.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.95	
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
CWD	Surface water	0.00	0.00	0.00	16.43	4,998,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	16.43	

7 - 11/26/2022: Wheat, silage, soft dough

Field name: 7

Crop: Wheat, silage, soft dough

Plant date: 11/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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7 - 11/26/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Slurry Manure Application	Process wastewater	172.29	14.05	326.23	1,077.53	880,000.00 <i>gal</i>
Application event totals		172.29	14.05	326.23	1,077.53	
12/12/2022	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
Blended Lg and Fresh Water Application	Process wastewater	92.55	17.87	171.59	777.86	1,296,000.00 <i>gal</i>
Application event totals		92.55	17.87	171.59	777.86	
03/12/2023	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
Blended Lg and Fresh Water Application	Process wastewater	58.24	8.07	42.57	618.40	864,000.00 <i>gal</i>
Application event totals		58.24	8.07	42.57	618.40	
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
CWD	Surface water	0.00	0.00	0.00	12.02	5,760,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.02	

7 - 06/09/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	145.81	53.58	224.87	0.00	312.00 <i>ton</i>
Application event totals		145.81	53.58	224.87	0.00	

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7 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	19.23	9,216,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	19.23	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	16.72	8,016,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	16.72	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	131.03	4.45	262.06	1,081.51	1,296,000.00 <i>gal</i>
CWD	Surface water	0.00	0.00	0.00	7.21	3,456,000.00 <i>gal</i>
Application event totals		131.03	4.45	262.06	1,088.72	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	12.72	6,096,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.72	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD	Surface water	0.00	0.00	0.00	15.22	7,296,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.22	
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
CWD	Surface water	0.00	0.00	0.00	13.09	6,273,600.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.09	

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7A - 01/01/2021: Alfalfa, hay

Field name: 7A

Crop: Alfalfa, hay

Plant date: 01/01/2021

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
05/17/2023	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	
CWD		Surface water	0.00	0.00	0.00	13.02	6,480,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	13.02		
06/11/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
CWD		Surface water	0.00	0.00	0.00	13.02	6,480,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	13.02		

7A - 07/09/2023: Corn, silage

Field name: 7A

Crop: Corn, silage

Plant date: 07/09/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
07/07/2023	Broadcast/incorporate		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application		Corral solids	87.31	32.08	134.64	0.00	194.00 <i>ton</i>
Application event totals			87.31	32.08	134.64	0.00	
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
CWD		Surface water	0.00	0.00	0.00	12.05	6,000,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	12.05	

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

7A - 07/09/2023: 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
CWD	Surface water	0.00	0.00	0.00	12.54	6,240,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.54	
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
Lagoon Water Application	Process wastewater	63.09	2.14	126.18	520.73	648,000.00 <i>gal</i>
CWD	Surface water	0.00	0.00	0.00	12.05	6,000,000.00 <i>gal</i>
Application event totals		63.09	2.14	126.18	532.78	
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
Lagoon Water Application	Process wastewater	75.71	15.64	121.77	640.90	1,296,000.00 <i>gal</i>
CWD	Surface water	0.00	0.00	0.00	14.22	7,080,000.00 <i>gal</i>
Application event totals		75.71	15.64	121.77	655.12	

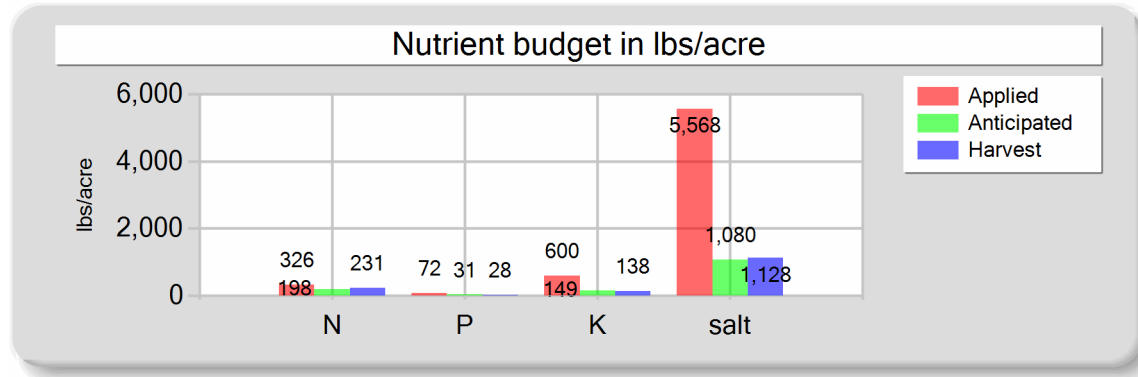
Annual Report - General Order No. R5-2007-0035

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

B. NUTRIENT BUDGET

1 - 11/28/2022: Wheat, silage, soft dough

Field name: 1 Crop: Wheat, silage, soft dough Plant date: 11/28/2022



	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	4,104,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	151.14 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.72 inches/acre
Dry manure	140.44	43.03	375.74	3,847.05	
Process wastewater	178.19	29.24	224.08	1,707.14	
Fresh water	0.00	0.00	0.00	13.91	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	325.62	72.27	599.82	5,568.10	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	230.92	28.27	138.02	1,128.05	
Nutrient balance	94.71	44.00	461.80	4,440.05	
Applied to removed ratio	1.41	2.56	4.35	4.94	
					Process wastewater applied
					1,584,000.00 gallons
					58.33 acre-inches
					1.82 inches/acre
					Total harvests for the crop
					1 harvests

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

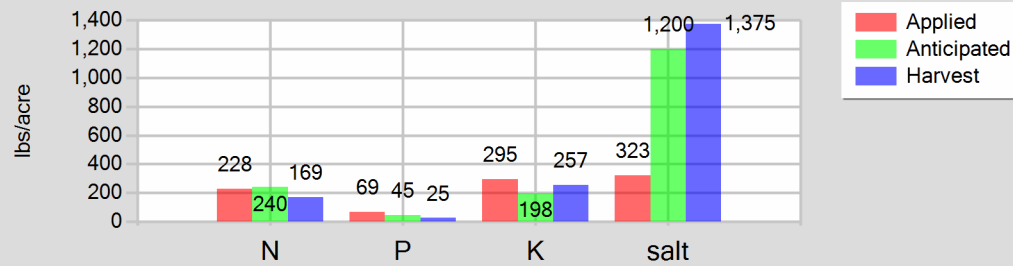
1 - 05/31/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 05/31/2023

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	184.55	67.82	284.60	0.00
Process wastewater	36.41	1.17	10.40	231.32
Fresh water	0.00	0.00	0.00	92.08
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	227.95	68.99	295.00	323.41
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	168.70	24.95	256.59	1,375.11
Nutrient balance	59.25	44.04	38.41	-1,051.70
Applied to removed ratio	1.35	2.76	1.15	0.24

Fresh water applied
27,162,000.00 gallons
1,000.28 acre-inches
31.26 inches/acre
Process wastewater applied
504,001.00 gallons
18.56 acre-inches
0.58 inches/acre
Total harvests for the crop
1 harvests

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

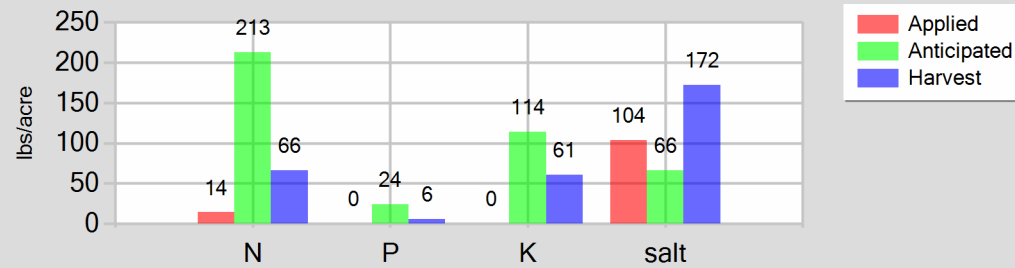
11 - 02/01/2021: Almond, in shell

Field name: 11

Crop: Almond, in shell

Plant date: 02/01/2021

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	0.00	0.00	0.00	103.66
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	103.66
Anticipated crop nutrient removal	213.00	24.00	114.00	66.00
Actual crop nutrient removal	66.12	5.80	60.69	172.10
Nutrient balance	-52.12	-5.80	-60.69	-68.44
Applied to removed ratio	0.21	0.00	0.00	0.60

Fresh water applied
41,088,000.00 gallons
1,513.13 acre-inches
35.19 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.

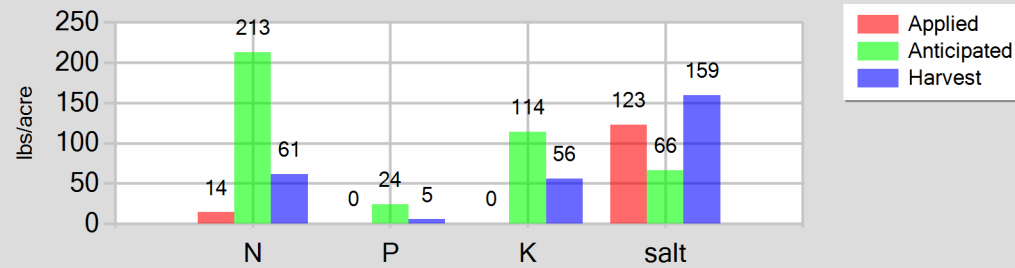
11A - 01/30/2017: Almond, in shell

Field name: 11A

Crop: Almond, in shell

Plant date: 01/30/2017

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	38,592,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,421.21 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	41.80 <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	0.00	0.00	0.00	123.14	0.00 <i>gallons</i>
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Total nutrients applied	14.00	0.00	0.00	123.14	0.00 <i>inches/acre</i>
Anticipated crop nutrient removal	213.00	24.00	114.00	66.00	
Actual crop nutrient removal	61.19	5.36	56.16	159.26	
Nutrient balance	-47.19	-5.36	-56.16	-36.13	Total harvests for the crop
Applied to removed ratio	0.23	0.00	0.00	0.77	1 <i>harvests</i>

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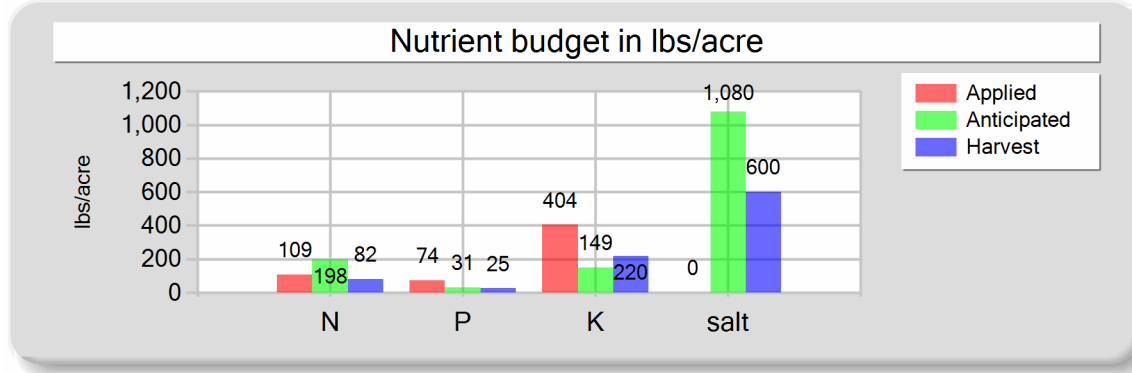
Reporting period 01/01/2023 to 12/31/2023.

12 - 10/27/2022: Wheat, silage, soft dough

Field name: 12

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022



	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	0.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	0.00 <i>inches/acre</i>
Dry manure	102.07	73.54	404.49	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	0.00	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	109.07	73.54	404.49	0.00	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	81.85	25.33	219.56	599.58	
Nutrient balance	27.22	48.21	184.93	-599.58	
Applied to removed ratio	1.33	2.90	1.84	0.00	

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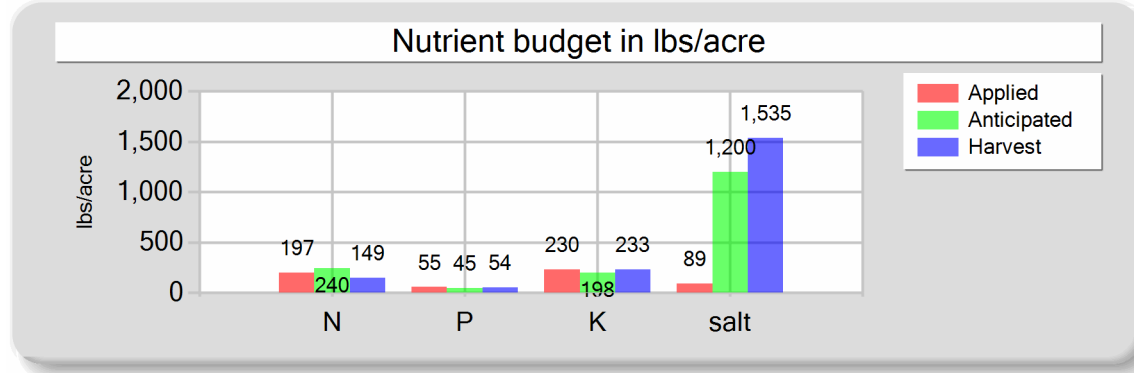
Reporting period 01/01/2023 to 12/31/2023.

12 - 05/28/2023: Corn, silage

Field name: 12

Crop: Corn, silage

Plant date: 05/28/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	190.32	55.09	229.54	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	88.73
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	197.32	55.09	229.54	88.73
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	148.77	53.81	232.66	1,535.22
Nutrient balance	48.55	1.28	-3.12	-1,446.49
Applied to removed ratio	1.33	1.02	0.99	0.06

Fresh water applied
29,443,200.00 gallons
1,084.29 acre-inches
30.12 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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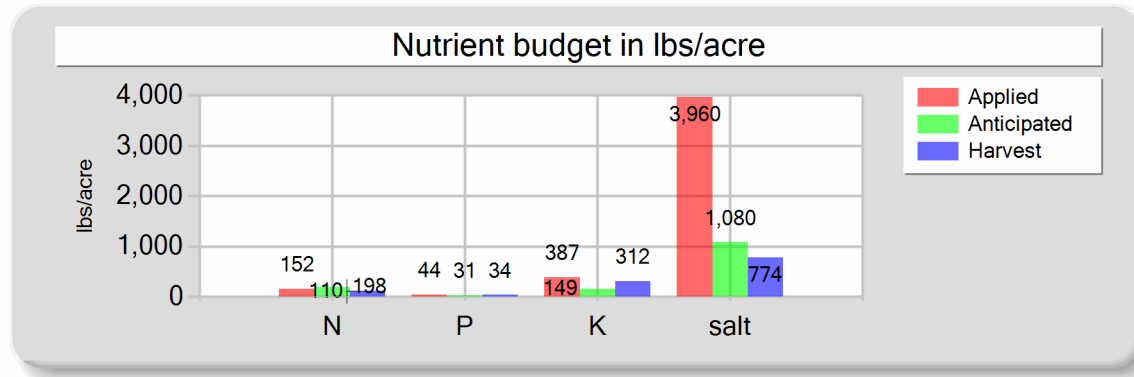
Reporting period 01/01/2023 to 12/31/2023.

12A - 10/29/2022: Wheat, silage, soft dough

Field name: 12A

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022



	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	0.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	0.00 <i>inches/acre</i>
Dry manure	144.57	44.29	386.79	3,960.20	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	0.00	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	151.57	44.29	386.79	3,960.20	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	109.86	34.33	311.56	774.17	
Nutrient balance	41.71	9.96	75.24	3,186.03	
Applied to removed ratio	1.38	1.29	1.24	5.12	

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.

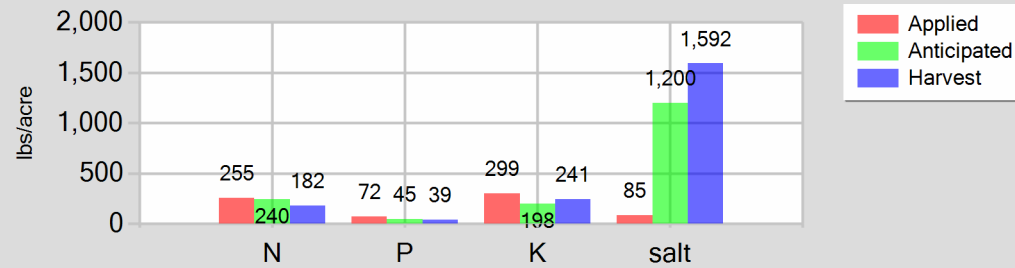
12A - 05/28/2023: Corn, silage

Field name: 12A

Crop: Corn, silage

Plant date: 05/28/2023

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	248.17	71.83	299.30	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	84.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	255.17	71.83	299.30	84.85
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	181.71	39.07	241.20	1,591.94
Nutrient balance	73.46	32.76	58.09	-1,507.10
Applied to removed ratio	1.40	1.84	1.24	0.05

Fresh water applied
26,592,000.00 gallons
979.29 acre-inches
28.80 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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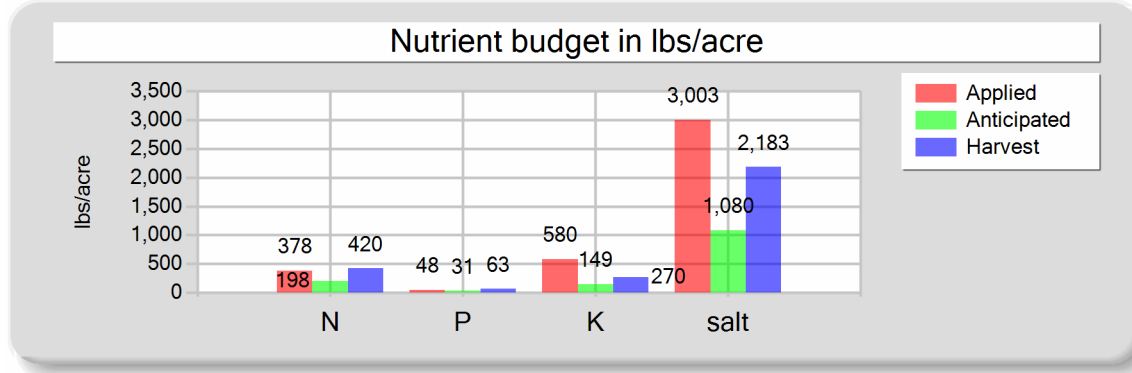
Reporting period 01/01/2023 to 12/31/2023.

1A - 11/30/2022: Wheat, silage, soft dough

Field name: 1A

Crop: Wheat, silage, soft dough

Plant date: 11/30/2022



	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	3,780,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	139.20 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.64 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	370.79	47.92	580.49	2,989.51	Process wastewater applied
Fresh water	0.00	0.00	0.00	13.67	2,208,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	81.31 <i>acre-inches</i>
Total nutrients applied	377.79	47.92	580.49	3,003.18	2.71 <i>inches/acre</i>
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	419.57	63.32	270.27	2,182.79	Total harvests for the crop
Nutrient balance	-41.78	-15.40	310.22	820.40	1 <i>harvests</i>
Applied to removed ratio	0.90	0.76	2.15	1.38	

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

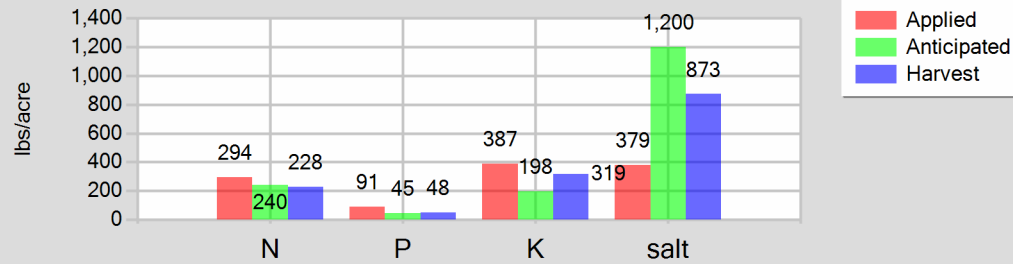
1A - 06/08/2023: Corn, silage

Field name: 1A

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	0.00	0.00	0.00	0.00
Dry manure	243.02	89.30	374.78	0.00
Process wastewater	44.38	1.43	12.67	281.99
Fresh water	0.00	0.00	0.00	96.86
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	294.41	90.73	387.46	378.85
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	227.86	48.42	319.00	873.45
Nutrient balance	66.55	42.31	68.46	-494.60
Applied to removed ratio	1.29	1.87	1.21	0.43

Fresh water applied
26,784,000.00 gallons
986.36 acre-inches
32.88 inches/acre
Process wastewater applied
576,000.00 gallons
21.21 acre-inches
0.71 inches/acre
Total harvests for the crop
1 harvests

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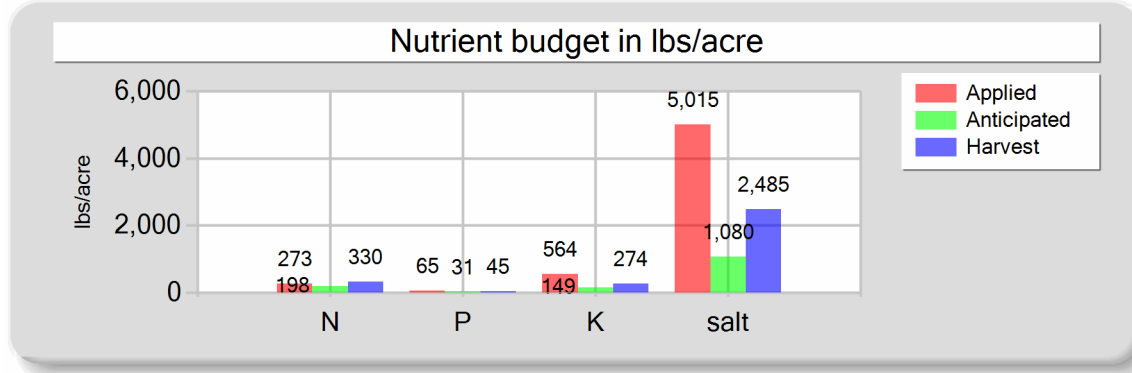
Reporting period 01/01/2023 to 12/31/2023.

2 - 12/01/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 12/01/2022



	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	4,689,600.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	172.70 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	6.91 <i>inches/acre</i>
Dry manure	140.44	43.03	375.74	3,847.05	
Process wastewater	125.94	22.11	188.14	1,147.84	
Fresh water	0.00	0.00	0.00	20.35	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	273.37	65.14	563.88	5,015.24	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	330.26	45.20	273.55	2,485.27	
Nutrient balance	-56.89	19.94	290.33	2,529.97	
Applied to removed ratio	0.83	1.44	2.06	2.02	
					Process wastewater applied
					864,000.00 <i>gallons</i>
					31.82 <i>acre-inches</i>
					1.27 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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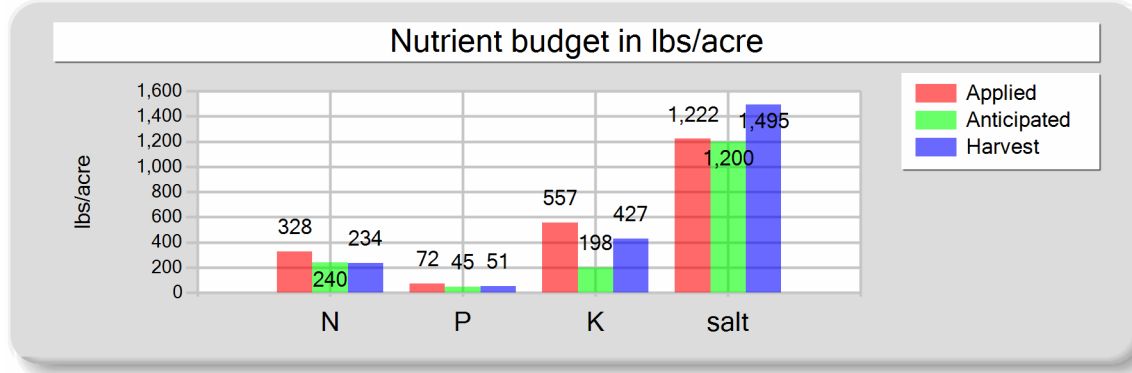
Reporting period 01/01/2023 to 12/31/2023.

2 - 06/08/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/08/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	184.70	67.87	284.84	0.00
Process wastewater	136.27	4.63	272.54	1,124.77
Fresh water	0.00	0.00	0.00	97.27
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.97	72.50	557.38	1,222.04
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	233.54	51.15	427.38	1,494.65
Nutrient balance	94.43	21.35	130.00	-272.61
Applied to removed ratio	1.40	1.42	1.30	0.82

Fresh water applied
22,416,000.00 <i>gallons</i>
825.51 <i>acre-inches</i>
33.02 <i>inches/acre</i>

Process wastewater applied
648,000.00 <i>gallons</i>
23.86 <i>acre-inches</i>
0.95 <i>inches/acre</i>

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

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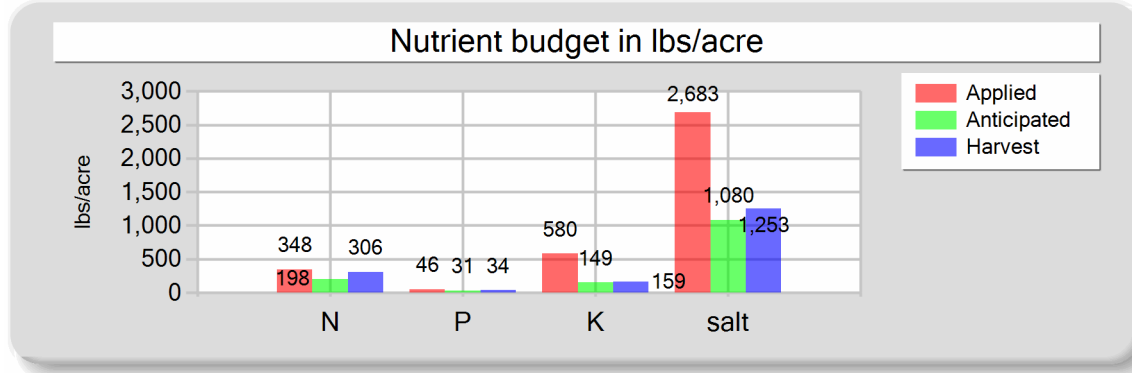
Reporting period 01/01/2023 to 12/31/2023.

3 - 11/29/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/29/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	341.47	46.24	580.39	2,660.85
Fresh water	0.00	0.00	0.00	22.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	348.47	46.24	580.39	2,683.48
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	306.40	34.18	158.59	1,253.32
Nutrient balance	42.06	12.06	421.80	1,430.15
Applied to removed ratio	1.14	1.35	3.66	2.14

Fresh water applied
12,096,000.00 <i>gallons</i>
445.45 <i>acre-inches</i>
7.68 <i>inches/acre</i>

Process wastewater applied
3,884,000.00 <i>gallons</i>
143.03 <i>acre-inches</i>
2.47 <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.

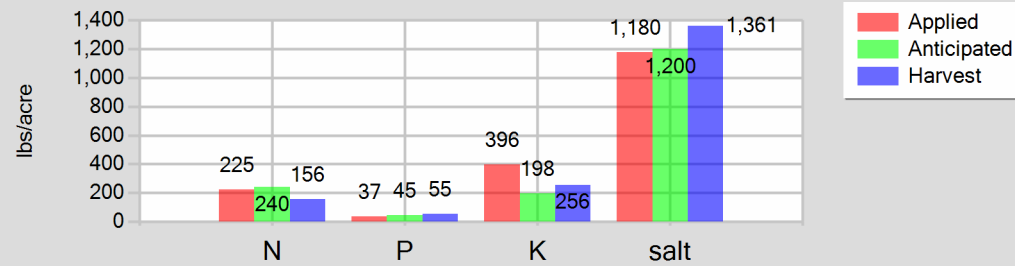
3 - 06/09/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/09/2023

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	87.57	32.18	135.05	0.00
Process wastewater	130.53	4.43	261.05	1,077.37
Fresh water	0.00	0.00	0.00	102.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	225.10	36.61	396.11	1,179.97
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	156.07	55.29	255.69	1,361.48
Nutrient balance	69.03	-18.68	140.41	-181.52
Applied to removed ratio	1.44	0.66	1.55	0.87

Fresh water applied
54,852,000.00 gallons
2,020.01 acre-inches
34.83 inches/acre
Process wastewater applied
1,440,000.00 gallons
53.03 acre-inches
0.91 inches/acre
Total harvests for the crop
1 harvests

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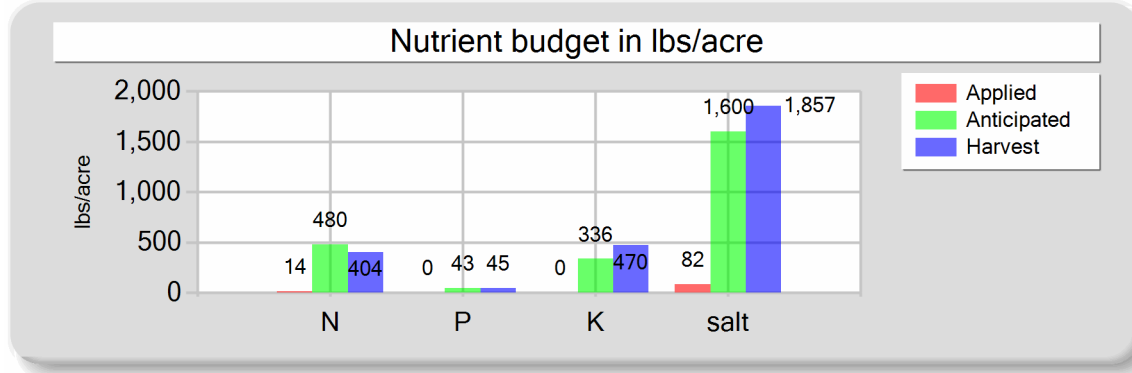
Reporting period 01/01/2023 to 12/31/2023.

4 - 01/10/2023: Alfalfa, hay

Field name: 4

Crop: Alfalfa, hay

Plant date: 01/10/2023



	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	22,658,400.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	834.43 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	27.81 <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	0.00	0.00	0.00	81.94	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	14.00	0.00	0.00	81.94	
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00	
Actual crop nutrient removal	403.90	45.40	470.23	1,857.34	
Nutrient balance	-389.90	-45.40	-470.23	-1,775.40	
Applied to removed ratio	0.03	0.00	0.00	0.04	
					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
					5 <i>harvests</i>

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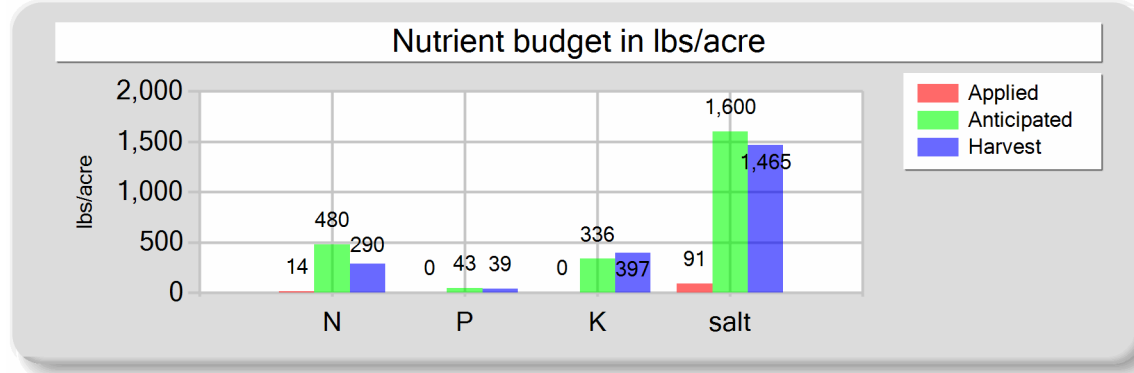
Reporting period 01/01/2023 to 12/31/2023.

5 - 01/12/2023: Alfalfa, hay

Field name: 5

Crop: Alfalfa, hay

Plant date: 01/12/2023



	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	30,117,600.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,109.13 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	30.81 <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	0.00	0.00	0.00	90.76	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	14.00	0.00	0.00	90.76	
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00	
Actual crop nutrient removal	289.65	38.84	397.30	1,464.91	
Nutrient balance	-275.65	-38.84	-397.30	-1,374.15	
Applied to removed ratio	0.05	0.00	0.00	0.06	
					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
					5 <i>harvests</i>

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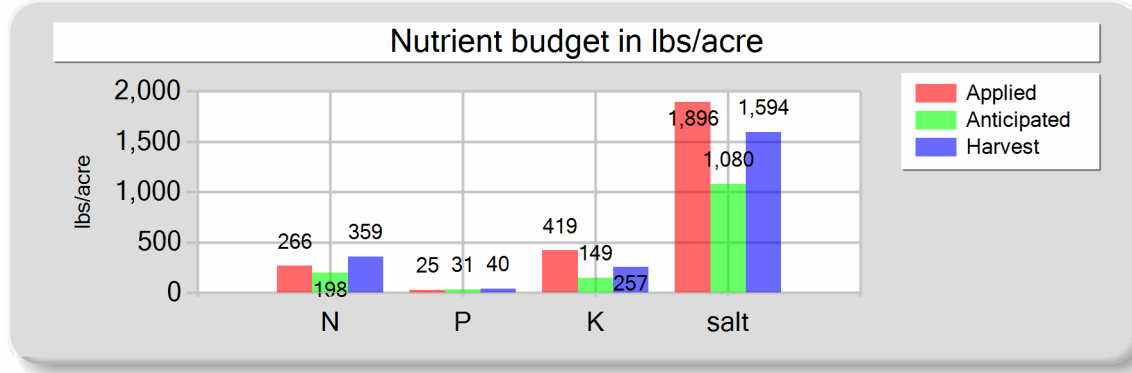
Reporting period 01/01/2023 to 12/31/2023.

6 - 11/27/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/27/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	258.62	24.58	418.57	1,884.49
Fresh water	0.00	0.00	0.00	11.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	265.62	24.58	418.57	1,896.23
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	358.61	40.31	257.47	1,593.83
Nutrient balance	-92.99	-15.72	161.11	302.39
Applied to removed ratio	0.74	0.61	1.63	1.19

Fresh water applied
3,570,000.00 gallons
131.47 acre-inches
3.98 inches/acre

Process wastewater applied
1,216,000.00 gallons
44.78 acre-inches
1.36 inches/acre

Total harvests for the crop
1 harvests

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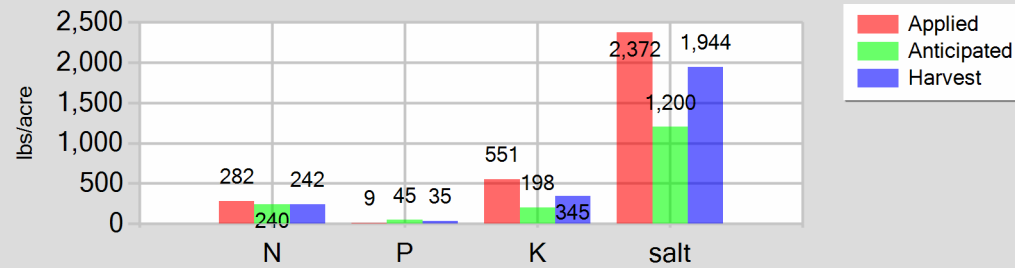
6 - 05/31/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 05/31/2023

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	275.29	9.35	550.59	2,272.27
Fresh water	0.00	0.00	0.00	99.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	282.29	9.35	550.59	2,372.13
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	242.44	35.06	344.63	1,943.53
Nutrient balance	39.85	-25.71	205.96	428.61
Applied to removed ratio	1.16	0.27	1.60	1.22

Fresh water applied
30,378,600.00 gallons
1,118.74 acre-inches
33.90 inches/acre
Process wastewater applied
1,728,000.00 gallons
63.64 acre-inches
1.93 inches/acre
Total harvests for the crop
1 harvests

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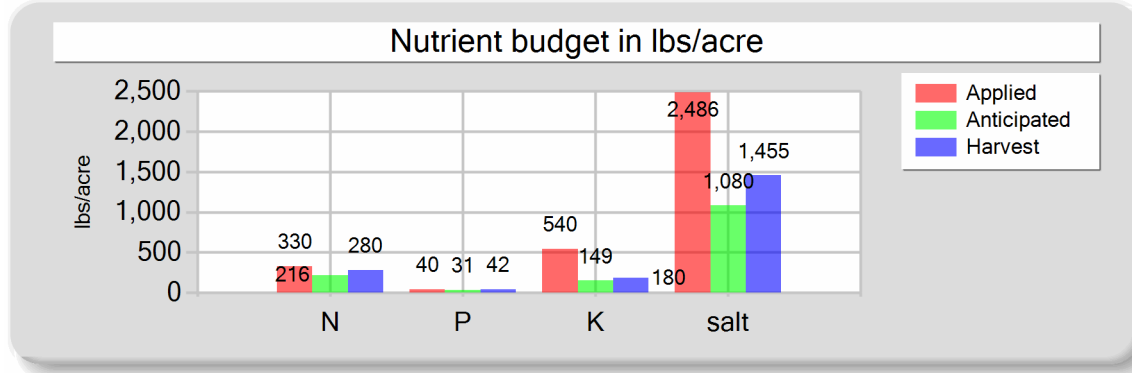
Reporting period 01/01/2023 to 12/31/2023.

7 - 11/26/2022: Wheat, silage, soft dough

Field name: 7

Crop: Wheat, silage, soft dough

Plant date: 11/26/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	323.08	39.99	540.38	2,473.79
Fresh water	0.00	0.00	0.00	12.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	330.08	39.99	540.38	2,485.81
Anticipated crop nutrient removal	216.00	30.60	149.40	1,080.00
Actual crop nutrient removal	279.73	42.22	180.19	1,455.28
Nutrient balance	50.35	-2.23	360.18	1,030.53
Applied to removed ratio	1.18	0.95	3.00	1.71

Fresh water applied
5,760,000.00 gallons
212.12 acre-inches
4.08 inches/acre

Process wastewater applied
3,040,000.00 gallons
111.95 acre-inches
2.15 inches/acre

Total harvests for the crop
1 harvests

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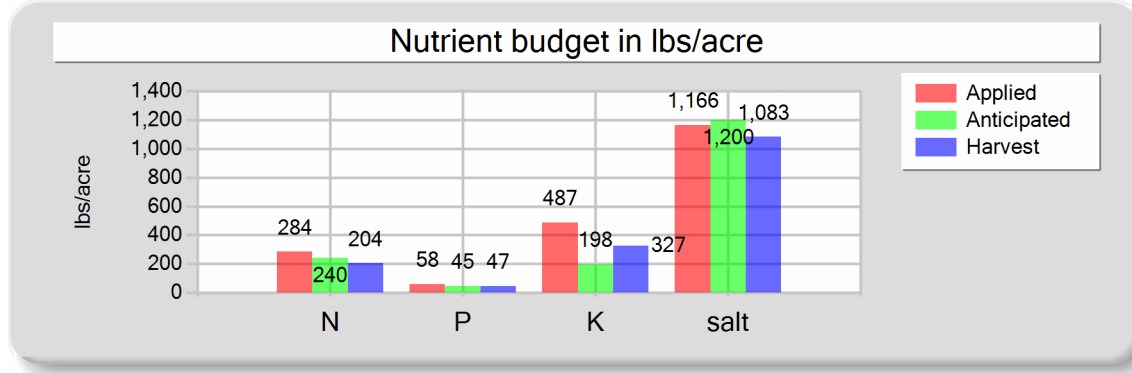
Reporting period 01/01/2023 to 12/31/2023.

7 - 06/09/2023: Corn, silage

Field name: 7

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	0.00	0.00	0.00	0.00
Dry manure	145.81	53.58	224.87	0.00
Process wastewater	131.03	4.45	262.06	1,081.51
Fresh water	0.00	0.00	0.00	84.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	283.84	58.03	486.93	1,165.70
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	203.98	46.93	326.73	1,083.09
Nutrient balance	79.86	11.10	160.20	82.61
Applied to removed ratio	1.39	1.24	1.49	1.08

Fresh water applied
40,353,600.00 gallons
1,486.09 acre-inches
28.58 inches/acre

Process wastewater applied
1,296,000.00 gallons
47.73 acre-inches
0.92 inches/acre

Total harvests for the crop
1 harvests

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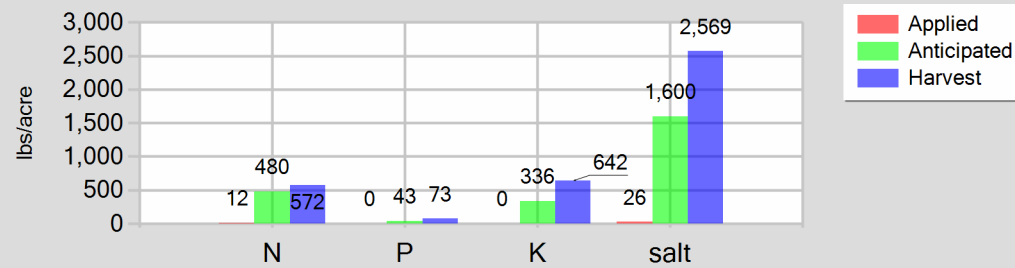
7A - 01/01/2021: Alfalfa, hay

Field name: 7A

Crop: Alfalfa, hay

Plant date: 01/01/2021

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	0.00	0.00	0.00	26.04
Atmospheric deposition	11.67	0.00	0.00	0.00
Total nutrients applied	11.67	0.00	0.00	26.04
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00
Actual crop nutrient removal	571.98	73.25	642.23	2,568.91
Nutrient balance	-560.32	-73.25	-642.23	-2,542.88
Applied to removed ratio	0.02	0.00	0.00	0.01

Fresh water applied
12,960,000.00 gallons
477.27 acre-inches
8.84 inches/acre

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

Total harvests for the crop
5 harvests

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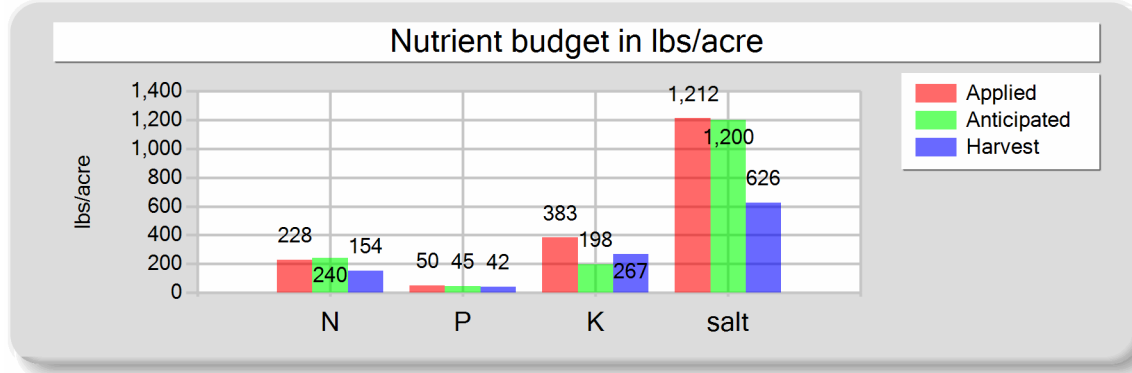
Reporting period 01/01/2023 to 12/31/2023.

7A - 07/09/2023: Corn, silage

Field name: 7A

Crop: Corn, silage

Plant date: 07/09/2023



	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	25,320,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	932.45 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.27 <i>inches/acre</i>
Dry manure	87.31	32.08	134.64	0.00	
Process wastewater	138.79	17.78	247.95	1,161.62	
Fresh water	0.00	0.00	0.00	50.87	
Atmospheric deposition	2.33	0.00	0.00	0.00	
Total nutrients applied	228.44	49.87	382.59	1,212.49	
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00	
Actual crop nutrient removal	154.13	42.47	267.16	625.65	
Nutrient balance	74.31	7.40	115.44	586.85	
Applied to removed ratio	1.48	1.17	1.43	1.94	
					Process wastewater applied
					1,944,000.00 <i>gallons</i>
					71.59 <i>acre-inches</i>
					1.33 <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.

NUTRIENT ANALYSES

A. MANURE ANALYSES

Corral solids - 2022

Sample and source description: Corral solids - 2022

Sample date: 10/25/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 25.3 %

	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	18,800.00	5,760.00	50,300.00							51.50
DL	1,000.00	1,000.00	1,000.00							0.10

Corral Solids

Sample and source description: Corral Solids

Sample date: 06/08/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 26.8 %

	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	16,600.00	6,100.00	25,600.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

Heifer Manure

Sample and source description: Heifer Manure

Sample date: 06/08/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 20.3 %

	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	19,900.00	5,760.00	24,000.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

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Corral Solids

Sample and source description: Corral Solids

Sample date: 11/07/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 36.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,100.00	11,600.00	63,800.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

B. PROCESS WASTEWATER ANALYSES

Slurry Application

Sample and source description: Slurry Application

Sample date: 11/05/2022 Material type: Process wastewater Source of analysis: Other/estimated 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	1,220.00	628.00	0.00	0.00	99.50	2,310.00								10,100.00	7,630
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

WWS-East-4 2022

Sample and source description: WWS-East-4 2022

Sample date: 11/10/2022 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	445.00	238.00	0.00	0.00	85.90	825.00								5,430.00	3,740
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

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LG-1-1

Sample and source description: LG-1-1

Sample date: 03/16/2023 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	420.00	227.00	0.00	0.00	58.20	307.00								5,630.00	4,460
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

WWS-East-2

Sample and source description: WWS-East-2

Sample date: 06/08/2023 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	630.00	532.00	0.00	0.00	21.40	1,260.00								8,760.00	5,200
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

LG-East-3

Sample and source description: LG-East-3

Sample date: 08/23/2023 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	277.00	221.00	0.00	0.00	8.92	79.10								4,000.00	1,760
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

WWS-East-4

Sample and source description: WWS-East-4

Sample date: 11/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	378.00	255.00	0.00	0.00	78.10	608.00								4,990.00	3,200
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	1,000

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

C. FRESH WATER ANALYSES

CWD

CWD

Sample description: CWD

Sample date: 08/23/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00								0.00	13
DL	0.50	0.50	0.50								1.00	10

DOM-1

DOM-1

Sample description: DOM-1

Sample date: 11/30/2023 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	1.30	0.00	1.30								325.00	208
DL	0.50	0.50	0.50								1.00	10

DOM-2

DOM-2

Sample description: DOM-2

Sample date: 11/30/2023 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	1.20	0.00	1.20								329.00	210
DL	0.50	0.50	0.50								1.00	10

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

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

DOM-3

DOM-3

Sample description: DOM-3

Sample date: 11/30/2023 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	1.06	0.00	1.06								322.00	206
DL	0.50	0.50	0.50								1.00	10

DOM-4

DOM-4

Sample description: DOM-4

Sample date: 11/30/2023 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	1.17	0.00	1.17								295.00	189
DL	0.50	0.50	0.50								1.00	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

1 - 11/28/2022: Wheat, silage, soft dough

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

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

1 - 11/28/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,400.00	2,130.00	10,400.00		8.50
DL	1,000.00	1,000.00	1,000.00		0.10

1 - 05/31/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 74.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,900.00	1,760.00	18,100.00		9.70
DL	1,000.00	1,000.00	1,000.00		0.10

12 - 10/27/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	3,900.00	33,800.00		9.23
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

12 - 05/28/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,400.00	3,400.00	14,700.00		9.70
DL	1,000.00	1,000.00	1,000.00		0.10

12A - 10/29/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,800.00	4,000.00	36,300.00		9.02
DL	1,000.00	1,000.00	1,000.00		0.10

12A - 05/28/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	2,430.00	15,000.00		9.90
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

1A - 11/30/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,300.00	2,460.00	10,500.00		8.48
DL	1,000.00	1,000.00	1,000.00		0.10

1A - 06/08/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	2,550.00	16,800.00		4.60
DL	1,000.00	1,000.00	1,000.00		0.10

2 - 12/01/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,800.00	2,710.00	16,400.00		14.90
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

2 - 06/08/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,000.00	2,190.00	18,300.00		6.40
DL	1,000.00	1,000.00	1,000.00		0.10

3 - 11/29/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 56.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,900.00	2,220.00	10,300.00		8.14
DL	1,000.00	1,000.00	1,000.00		0.10

3 - 06/09/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,400.00	3,330.00	15,400.00		8.20
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

4 - 01/10/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 08/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	27,400.00	3,080.00	31,900.00		12.60
DL	1,000.00	1,000.00	1,000.00		0.10

5 - 01/12/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 08/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 12.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,100.00	3,500.00	35,800.00		13.20
DL	1,000.00	1,000.00	1,000.00		0.10

6 - 11/27/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,400.00	2,630.00	16,800.00		10.40
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

6 - 05/31/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,100.00	1,750.00	17,200.00		9.70
DL	1,000.00	1,000.00	1,000.00		0.10

7 - 06/09/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	2,600.00	18,100.00		6.00
DL	1,000.00	1,000.00	1,000.00		0.10

7A - 01/01/2021: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 12.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,500.00	3,650.00	32,000.00		12.80
DL	1,000.00	1,000.00	1,000.00		0.10

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

7A - 07/09/2023: Corn, silage

Corn SilagesSample and source description: Corn SilagesSample date: 11/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,500.00	3,720.00	23,400.00		5.48
DL	1,000.00	1,000.00	1,000.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES*No subsurface (tile) drainage analyses entered.*

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

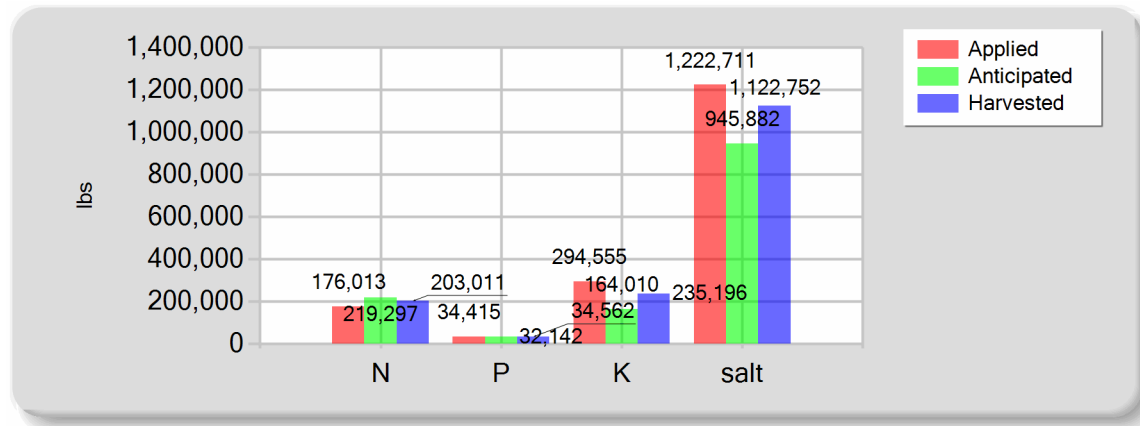
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

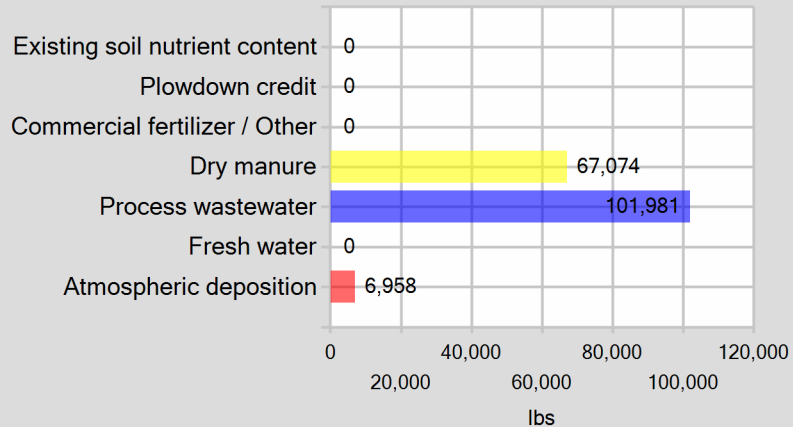
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	67,073.98	23,962.76	121,838.00	353,928.60
Process wastewater	101,980.64	10,452.31	172,716.77	818,584.76
Fresh water	0.00	0.00	0.00	50,197.85
Atmospheric deposition	6,958.00	0.00	0.00	0.00
Total nutrients applied	176,012.62	34,415.07	294,554.77	1,222,711.22
Anticipated crop nutrient removal	219,297.00	32,142.00	164,010.00	945,882.00
Actual crop nutrient removal	203,010.72	34,562.50	235,195.90	1,122,752.25
Nutrient balance	-26,998.09	-147.43	59,358.86	99,958.97
Applied to removed ratio	0.87	1.00	1.25	1.09

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

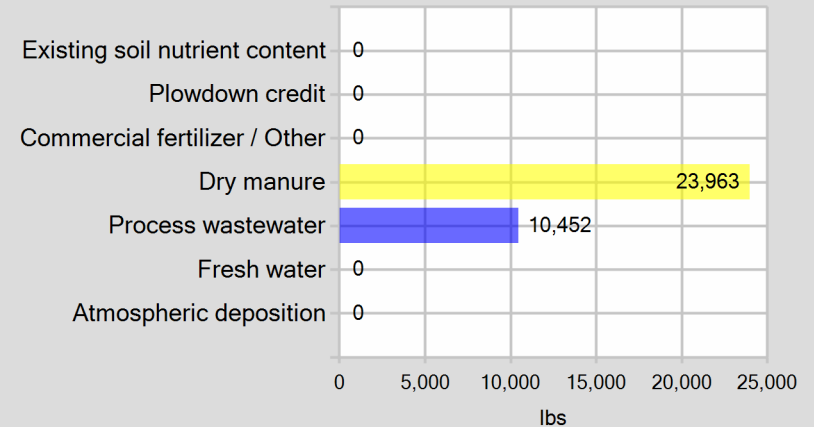


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

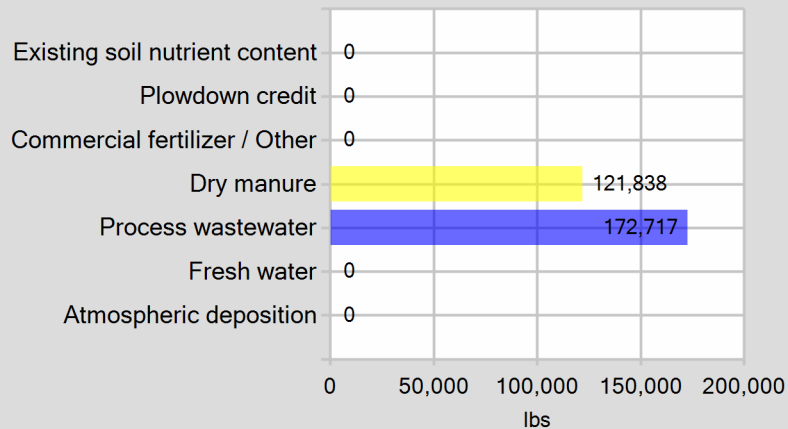
Pounds of nitrogen applied



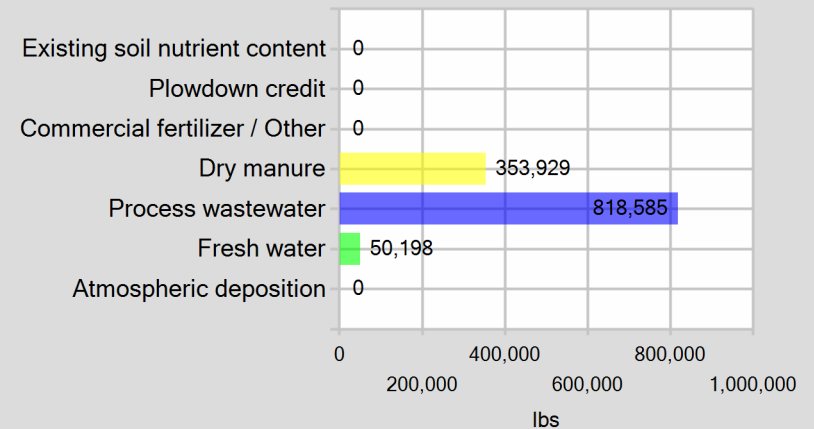
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period? No

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

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

ADDITIONAL NOTES

A. NOTES

AJF Dairy:

No Irrigation wells were used to irrigate during 2023, Only Chowchilla Water District Canal water was used. No Irrigation Wells were sampled.

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.

Anthony Fagundes
Anthony Fagundes (Jun 27, 2024 07:10 PDT)

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Anthony James Fagundes	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
Jun 27, 2024	
DATE	DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted .

Annual Dairy Facility Assessment

Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFa Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed .

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

**Denele Analytical, Inc.**

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

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

Compliance Analysis Report

Customer

AJF Dairy
23478 Road 12
Chowchilla, CA 93610

Grower**Consultant:**

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 11/30/23 2:05 PM
SUBMITTED BY: Dan
ANALYZED DATE: 12/5/23

Irrigation/ Ground Water (H1)
SOURCE: Well Water

NOTES: Temperature was above qualifying at 13.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dom-4	T3334011A	Electrical Conductivity (EC)	EPA 120.1 and	0.295	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	1.17	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	189	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	95.6			
Electrical Conductivity (EC)	96.0			0.032
Nitrate Nitrogen (NO3-N)	95.8	107 (T3335002A)	105 (T3335002A)	2.08

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

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Compliance Analysis Report

Customer

AJF Dairy
23478 Road 12
Chowchilla, CA 93610

Grower**Consultant:**

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 11/30/23 2:05 PM
SUBMITTED BY: Dan
ANALYZED DATE: 12/5/23

Irrigation/ Ground Water (H1)
SOURCE: Well Water

NOTES: Temperature was above qualifying at 14.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dom-1	T3334011B	Electrical Conductivity (EC)	EPA 120.1 and	0.325	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	1.30	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	208	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	95.6			
Electrical Conductivity (EC)	96.0			0.032
Nitrate Nitrogen (NO3-N)	95.8	107 (T3335002A)	105 (T3335002A)	2.08

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Compliance Analysis Report

Customer

AJF Dairy
23478 Road 12
Chowchilla, CA 93610

Grower**Consultant:**

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 11/30/23 2:05 PM
SUBMITTED BY: Dan
ANALYZED DATE: 12/5/23

Irrigation/ Ground Water (H1)
SOURCE: Well Water

NOTES: Temperature was above qualifying at 14.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dom-2	T3334011C	Electrical Conductivity (EC)	EPA 120.1 and	0.329	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	1.20	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	210	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	95.6			
Electrical Conductivity (EC)	96.0			0.032
Nitrate Nitrogen (NO3-N)	95.8	107 (T3335002A)	105 (T3335002A)	2.08

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Compliance Analysis Report

Customer

AJF Dairy
23478 Road 12
Chowchilla, CA 93610

Grower**Consultant:**

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 11/30/23 2:05 PM
SUBMITTED BY: Dan
ANALYZED DATE: 12/5/23

Irrigation/ Ground Water (H1)
SOURCE: Well Water

NOTES: Temperature was above qualifying at 13.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Dom-3	T3334011D	Electrical Conductivity (EC)	EPA 120.1 and	0.322	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	1.06	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	206	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	95.6			
Electrical Conductivity (EC)	96.0			0.032
Nitrate Nitrogen (NO3-N)	95.0	101 (T3334011D)	100 (T3334011D)	0.756

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**DENELE ANALYTICAL, INC.**

865 S. KILROY

TURLOCK, CA 95380

PH# 209-634-9055 FAX# 209-634-9057

DAIRY COMPLIANCEClient: AJF DAIRYMailing address: 11648 Avenue 23 1/2, Chowchilla CA 93610

(not facility address)

Phone#: 559-994-7157

Authorized Copy Released To:

hlcdan@yahoo.comSampled By: Daniel Roos

Project ID: _____

ANALYSIS TO BE COMPLETED:**IRRIGATION/GROUND WATER**

H1 EC*, NO3-N, NH4-N*

H6 EC, TN, TDS

H7 Combination of H1 & H6

H14 EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb

Carb, SO4, Cl, TDS

PROCESS WASTE WATER

H3 EC*, NH4-N, TKN, TP, K, TDS

H4 EC*, NO3-N, NH4-N, TKN, TP, K, TDS

H5 Ca, Mg, Na, Bicarb, Carb, SO4, Cl

H8 Combination of H3 & H5

H9 Combination of H4 & H5

TILE DRAIN

H2 EC*, NO3-N, TP, NH4-N*, TDS

* Required Field Measurement

____ (Check here if performed)

DISCHARGE WATER

E1 EC*, Temp*, pH*, NO3-N, NH4-N, TKN, TP, K, TDS, Dissolved Oxygen*,

BOD 5, TSS, Total & Fecal Coliforms

E2 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Dissolved Oxygen*,

Total & Fecal Coliforms

E3 EC*, Temp*, pH*, NO3-N, NH4-N*, TP, Total & Fecal Coliforms

E4 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Total & Fecal Coliform

MANURE

M1 % Moisture

M3 TN TP, K, % Moisture

M4 Ca, Mg, Na, Bicarb, Carb, SO4, Cl, Ash

M7 Combination of M3 & M4

PLANT TISSUE

F18 % Moisture, Ash, TN, P, K, DM and as received

F18+ % Moisture, Ash, TN, P, K, DM and as received

(Package also includes NIR DCAD)

F19+ % Moisture, TN (Package includes complete plant tissue analysis)

SOIL

K3 Soluble Phosphorus

K4 1ft NO3, Organic Matter

K5 Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)

K6 0-1ft EC, NO3, Soluble P, K, Organic Matter

K7 Combination of K3 & K4

K8 Combination of K3 & K5

H1	H3	M3	F18	OTHER

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis			
1	11-30-23	840	DOM-4		13.8		X			
2	↓	845	DOM-1		14.8		X			
3	↓	855	DOM-2		14.6		X			
4	11-30-23	900	DOM-3		13.8		X			
5										
6										
7										
8										
9										
10										

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)	
1st		HeartLand Consulting		11-30-23 1405	Logged In By:	LABORATORY NUMBER
2nd		DENELE ANALYTICAL, INC.	11-30-23 2:05			T 3334011

Required to be submitted to any agency? (YES / NO)






2023 AR AJF DAIRY

Final Audit Report

2024-06-27

Created:	2024-06-26
By:	Daniel Roos (hlcdan@yahoo.com)
Status:	Signed
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