

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

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

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: RichMar Farms

Physical address of dairy:

1129 E Shafter RD

Number and Street

Bakersfield

City

Kern

County

93307

Zip Code

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

Date facility was originally placed in operation: 03/30/2000

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0185-0200-0006-0000

0185-0270-0004-0000

0185-0270-0008-0000

0185-0310-0002-0000

0185-0332-0036-0000

0185-0341-0031-0004

B. OPERATORS

Tillema, Richard

Operator name: Tillema, Richard

Telephone no.: (661) 747-2226

Landline Cellular

1129 E Shafter RD

Bakersfield

CA 93307

Mailing Address Number and Street

City

State Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Tillema, Richard

Legal owner name: Tillema, Richard

Telephone no.: (661) 747-2226

Landline Cellular

1129 E Shafter RD

Bakersfield

CA 93307

Mailing Address Number and Street

City

State Zip Code

This owner is responsible for paying permit fees.

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

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

AVAILABLE NUTRIENTS

A. HERD INFORMATION

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

Predominant milk cow breed: Holstein

Average milk production: 64 pounds per cow per day

B. MANURE GENERATED

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

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

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

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

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

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

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 20,667,000 gallons

Total nitrogen generated: 44,395.69 lbs

$$\begin{aligned}
 & 20,667,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 20,667,000 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 5,687.37 lbs

Total potassium generated: 90,727.09 lbs

Total salt generated: 371,837.34 lbs

D. FRESH WATER SOURCES

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

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

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

Source Description	Type
Well 2	Ground water
Well 8	Ground water
Well P-6	Ground water
Well P-9	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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

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

APPLICATION AREA**A. LIST OF LAND APPLICATION AREAS**

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

B. CROPS AND HARVESTS

Field 1

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

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

Field 1

Field name: Field 1

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

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

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

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

06/10/2023: Corn, silage

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

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

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

Field 10

Field name: Field 10

01/01/2023: Alfalfa, hay

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

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

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

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

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

Field 11

Field name: Field 11

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

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

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

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

06/13/2023: Corn, silage

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

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

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

Field 12

Field name: Field 12

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

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

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

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

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

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

Field 12

06/09/2023: Corn, silage

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

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

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

Field 2

Field name: Field 2

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

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

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

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

06/10/2023: Corn, silage

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

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

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

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

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

Field 21

Field name: Field 21

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

Crop: Wheat, silage, boot stage Acres planted: 52 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	754.00 ton	As-is		61.6	6,400.00	3,400.00	11,800.00		12.70

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

06/08/2023: Corn, silage

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

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

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

Field 22

Field name: Field 22

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

Crop: Wheat, silage, boot stage Acres planted: 120 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	1,835.00 ton	As-is		59.8	6,400.00	3,800.00	15,600.00		12.40

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

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

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

Field 22

06/08/2023: Corn, silage

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

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

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

Field 3

Field name: Field 3

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

Crop: Wheat, silage, boot stage Acres planted: 20 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	375.00 ton	As-is		72.9	4,300.00	2,200.00	7,800.00		9.80

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

06/14/2023: Corn, silage

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

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

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

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

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

Field 32

Field name: Field 32

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

Crop: Wheat, silage, boot stage Acres planted: 152 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	2,510.00 ton	As-is		74.3	5,400.00	3,000.00	8,800.00		11.90

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

06/08/2023: Corn, silage

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

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

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

Field 33

Field name: Field 33

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

Crop: Wheat, silage, boot stage Acres planted: 150 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	2,195.00 ton	As-is		69.5	4,800.00	2,700.00	10,300.00		13.80

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

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

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

Field 33

06/12/2023: Corn, silage

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

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

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

Field 4

Field name: Field 4

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

Crop: Wheat, silage, boot stage Acres planted: 138 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	2,289.00 ton	As-is		78.4	4,400.00	2,300.00	7,000.00		12.50

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

06/14/2023: Corn, silage

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

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

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

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

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

Field 6

Field name: Field 6

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

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

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

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

06/17/2023: Corn, silage

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

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

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

Field 7

Field name: Field 7

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

Crop: Wheat, silage, boot stage Acres planted: 101 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	1,317.00 ton	As-is		76.2	4,200.00	2,200.00	7,000.00		10.90

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

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

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

Field 7

06/19/2023: Corn, silage

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

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

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

Field 8

Field name: Field 8

01/01/2023: Alfalfa, hay

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

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

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

Field 9

Field name: Field 9

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

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

Field 9

01/01/2023: Alfalfa, hay

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

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

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

Field B

Field name: Field B

06/16/2023: Corn, silage

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

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

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

P1

Field name: P1

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

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

P1

01/01/2023: Alfalfa, hay

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

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

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

P10

Field name: P10

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

Crop: Wheat, silage, boot stage Acres planted: 135 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	1,976.00 ton	As-is		61.0	7,000.00	2,400.00	11,400.00		13.10

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

06/24/2023: Corn, silage

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

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

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

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

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

P11

Field name: P11

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 135 Plant date: 01/01/2023

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

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

P12

Field name: P12

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 135 Plant date: 01/01/2023

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

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

P2

Field name: P2

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

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

P2

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

Crop: Wheat, silage, boot stage Acres planted: 150 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	2,100.00 ton	As-is		53.6	7,300.00	1,500.00	11,500.00		9.90

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

06/19/2023: Corn, silage

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

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

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

P3

Field name: P3

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

Crop: Wheat, silage, boot stage Acres planted: 145 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	2,194.00 ton	As-is		53.8	5,600.00	1,400.00	9,700.00		13.30

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

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

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

P3

06/20/2023: Corn, silage

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,720.00 <i>ton</i>	As-is		30.8	9,300.00	4,200.00	4,100.00		2.60
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		20.00 264.00 104.00 152.00				0.00			
Total actual harvest content		18.76 348.91 157.57 153.82				675.01			

P4

Field name: P4

01/01/2023: Alfalfa, hay

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,495.00 <i>ton</i>	As-is		7.0	30,400.00	2,100.00	23,900.00		17.20
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		20.00 1,524.00 228.00 1,592.00				0.00			
Total actual harvest content		9.90 601.96 41.58 473.25				3,167.42			

P5

Field name: P5

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

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

P5

01/01/2023: Alfalfa, hay

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

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

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

P6

Field name: P6

01/01/2023: Alfalfa, hay

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

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

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

P9

Field name: P9

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

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

P9

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

Crop: Wheat, silage, boot stage Acres planted: 135 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/07/2023	1,987.00 ton	As-is		56.5	7,800.00	3,000.00	11,800.00		11.60

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

06/20/2023: Corn, silage

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

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

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

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

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

NUTRIENT BUDGET**A. LAND APPLICATIONS**

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

Field name: Field 1

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

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

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

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

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

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

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

Field name: Field 1

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
06/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	5.43	0.69	10.22	40.87
N Canal	Surface water	0.11	0.00	0.00	40.50
Application event totals		5.54	0.69	10.22	81.37
06/07/2023	Sidedress	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Sidedress	Solid commercial fertilizer	150.00	0.00	0.00	0.00
Application event totals		150.00	0.00	0.00	0.00
06/06/2023	Plow/disc	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	122.00	29.00	223.00	0.00
Application event totals		122.00	29.00	223.00	0.00
					245.00 ton

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	13.04	1.67	24.52	98.10	360,000.00 gal
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 gal
Application event totals		13.15	1.67	24.52	138.60	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	18.26	2.33	34.33	137.33	504,000.00 gal
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 gal
Application event totals		18.37	2.33	34.33	177.83	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 gal
Application event totals		0.11	0.00	0.00	40.50	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 gal
Application event totals		0.11	0.00	0.00	40.50	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 gal
Application event totals		0.11	0.00	0.00	40.50	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 gal
Application event totals		0.11	0.00	0.00	40.50	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.11	0.00	0.00	40.50	6,372,000.00 gal
Application event totals		0.11	0.00	0.00	40.50	

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

Field name: Field 10

Crop: Alfalfa, hay

Plant date: 01/01/2023

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

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

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

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

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

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

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

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

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

Field name: Field 11

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	513.00 ton
Application event totals		153.90	37.80	307.80	0.00	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	262.34	9,840,000.00 gal
Application event totals		0.00	0.00	0.00	262.34	
12/15/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	247.94	9,300,000.00 gal
Application event totals		0.00	0.00	0.00	247.94	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	246.34	9,240,000.00 gal
Application event totals		0.00	0.00	0.00	246.34	
05/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	247.94	9,300,000.00 gal
Application event totals		0.00	0.00	0.00	247.94	

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

Field name: Field 11

Crop: Corn, silage

Plant date: 06/13/2023

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/08/2023	Banding	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	146.40	34.80	267.60	0.00	684.00 ton
Application event totals		146.40	34.80	267.60	0.00	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	7.47	0.96	14.05	56.22	480,000.00 gal
N Canal	Surface water	0.09	0.00	0.00	33.93	12,420,000.00 gal
Application event totals		7.56	0.96	14.05	90.15	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	7.01	0.90	13.18	52.71	450,000.00 gal
N Canal	Surface water	0.09	0.00	0.00	33.04	12,096,000.00 gal
Application event totals		7.10	0.90	13.18	85.75	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	9.16	1.17	17.22	68.87	588,000.00 gal
N Canal	Surface water	0.09	0.00	0.00	31.86	11,664,000.00 gal
Application event totals		9.24	1.17	17.22	100.73	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.04	12,096,000.00 gal
Application event totals		0.09	0.00	0.00	33.04	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.93	12,420,000.00 gal
Application event totals		0.09	0.00	0.00	33.93	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.64	12,312,000.00 gal
Application event totals		0.09	0.00	0.00	33.64	
09/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	32.45	11,880,000.00 gal
Application event totals		0.09	0.00	0.00	32.45	

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

Field name: Field 12

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	468.00 ton
Application event totals		153.90	37.80	307.80	0.00	

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

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

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

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

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

Field name: Field 12

Crop: Corn, silage

Plant date: 06/09/2023

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

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

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

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

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

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	35.58	11,880,000.00 gal
Application event totals		0.10	0.00	0.00	35.58	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	35.25	11,772,000.00 gal
Application event totals		0.09	0.00	0.00	35.25	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	34.93	11,664,000.00 gal
Application event totals		0.09	0.00	0.00	34.93	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.96	11,340,000.00 gal
Application event totals		0.09	0.00	0.00	33.96	

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

Field name: Field 2

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	202.50 ton
Application event totals		153.90	37.80	307.80	0.00	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/18/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.19	0.00	0.00	322.35	5,220,000.00 gal
Application event totals		0.19	0.00	0.00	322.35	
12/07/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.19	0.00	0.00	316.79	5,130,000.00 gal
Application event totals		0.19	0.00	0.00	316.79	
02/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.18	0.00	0.00	305.68	4,950,000.00 gal
Application event totals		0.18	0.00	0.00	305.68	
04/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.18	0.00	0.00	294.56	4,770,000.00 gal
Application event totals		0.18	0.00	0.00	294.56	
05/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.19	0.00	0.00	311.24	5,040,000.00 gal
Application event totals		0.19	0.00	0.00	311.24	

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

Field name: Field 2

Crop: Corn, silage

Plant date: 06/10/2023

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

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/16/2022	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/06/2023	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	122.00	29.00	223.00	0.00	225.00 ton
Application event totals		122.00	29.00	223.00	0.00	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	18.34	2.35	34.49	137.97	465,000.00 gal
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 gal
Application event totals		18.46	2.35	34.49	182.07	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	16.57	2.12	31.15	124.62	420,000.00 gal
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 gal
Application event totals		16.68	2.12	31.15	168.72	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	20.71	2.65	38.94	155.77	525,000.00 gal
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 gal
Application event totals		20.83	2.65	38.94	199.87	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 gal
Application event totals		0.12	0.00	0.00	44.10	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 gal
Application event totals		0.12	0.00	0.00	44.10	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 gal
Application event totals		0.12	0.00	0.00	44.10	
09/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.12	0.00	0.00	44.10	6,372,000.00 gal
Application event totals		0.12	0.00	0.00	44.10	

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

Field name: Field 21

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	234.00 ton
Application event totals		153.90	37.80	307.80	0.00	

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

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

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

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

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

Field name: Field 21

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	5.63	0.72	10.59	42.37	165,000.00 gal
N Canal	Surface water	0.10	0.00	0.00	38.81	6,480,000.00 gal
Application event totals		5.74	0.72	10.59	81.18	

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

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

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

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

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	36.87	6,156,000.00 gal
Application event totals		0.10	0.00	0.00	36.87	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	36.87	6,156,000.00 gal
Application event totals		0.10	0.00	0.00	36.87	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	37.52	6,264,000.00 gal
Application event totals		0.10	0.00	0.00	37.52	

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

Field name:	Field 22	Plant date:	11/15/2022			
Crop:	Wheat, silage, boot stage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	540.00 ton
Application event totals		153.90	37.80	307.80	0.00	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Well	Ground water	0.12	0.00	0.00	328.25	8,712,000.00 gal
Application event totals		0.12	0.00	0.00	328.25	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/09/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	37.06	14,280,000.00 gal
Application event totals		0.10	0.00	0.00	37.06	
02/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	18.62	2.73	53.04	217.34	675,000.00 gal
N Canal	Surface water	0.10	0.00	0.00	37.37	14,400,000.00 gal
Application event totals		18.72	2.73	53.04	254.71	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	17.95	1.99	32.01	141.76	675,000.00 gal
N Canal	Surface water	0.10	0.00	0.00	37.06	14,280,000.00 gal
Application event totals		18.05	1.99	32.01	178.82	
05/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	34.26	13,200,000.00 gal
Application event totals		0.09	0.00	0.00	34.26	

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

Field name: Field 22

Crop: Corn, silage

Plant date: 06/08/2023

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

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/09/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	26.84	6.38	49.06	0.00	132.00 ton
Application event totals		26.84	6.38	49.06	0.00	
06/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	4.44	0.57	8.35	33.38	300,000.00 gal
N Canal	Surface water	0.10	0.00	0.00	36.72	14,148,000.00 gal
Application event totals		4.54	0.57	8.35	70.10	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	5.55	0.71	10.43	41.73	375,000.00 gal
N Canal	Surface water	0.09	0.00	0.00	35.04	13,500,000.00 gal
Application event totals		5.64	0.71	10.43	76.76	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	6.21	0.79	11.68	46.73	420,000.00 gal
N Canal	Surface water	0.09	0.00	0.00	33.64	12,960,000.00 gal
Application event totals		6.30	0.79	11.68	80.37	

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

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

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

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

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

Field name: Field 3

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

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

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	90.00 ton
Application event totals		153.90	37.80	307.80	0.00	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.20	0.00	0.00	337.63	2,430,000.00 gal
Application event totals		0.20	0.00	0.00	337.63	
12/10/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	29.79	4.37	84.87	347.74	180,000.00 gal
Well 2	Ground water	0.18	0.00	0.00	300.12	2,160,000.00 gal
Application event totals		29.97	4.37	84.87	647.86	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	23.93	2.65	42.68	189.01	150,000.00 gal
Well 2	Ground water	0.15	0.00	0.00	250.10	1,800,000.00 gal
Application event totals		24.08	2.65	42.68	439.11	
04/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.18	0.00	0.00	300.12	2,160,000.00 gal
Application event totals		0.18	0.00	0.00	300.12	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.19	0.00	0.00	312.62	2,250,000.00 gal
Application event totals		0.19	0.00	0.00	312.62	

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

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

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

Field name: Field 3

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	146.40	34.80	267.60	0.00	120.00 ton
Application event totals		146.40	34.80	267.60	0.00	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	34.61	4.43	65.09	260.36	390,000.00 gal
N Canal	Surface water	0.12	0.00	0.00	43.73	2,808,000.00 gal
Application event totals		34.73	4.43	65.09	304.09	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	29.29	3.75	55.08	220.31	330,000.00 gal
N Canal	Surface water	0.10	0.00	0.00	37.00	2,376,000.00 gal
Application event totals		29.39	3.75	55.08	257.31	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	42.87	5.48	80.61	322.45	483,000.00 gal
N Canal	Surface water	0.10	0.00	0.00	38.68	2,484,000.00 gal
Application event totals		42.97	5.48	80.61	361.13	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Nitrogen	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
N Canal	Surface water	0.10	0.00	0.00	38.68	2,484,000.00 gal
Application event totals		50.10	0.00	0.00	38.68	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.11	0.00	0.00	40.36	2,592,000.00 gal
Application event totals		0.11	0.00	0.00	40.36	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	37.00	2,376,000.00 gal
Application event totals		0.10	0.00	0.00	37.00	
09/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.64	2,160,000.00 gal
Application event totals		0.09	0.00	0.00	33.64	

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

Field name:	Field 32	Plant date:	11/15/2022			
Crop:	Wheat, silage, boot stage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	684.00 ton
Application event totals		153.90	37.80	307.80	0.00	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	197.14	14,850,000.00 gal
Application event totals		0.00	0.00	0.00	197.14	

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

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

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

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

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

Field name: Field 32

Crop: Corn, silage

Plant date: 06/08/2023

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

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/08/2023	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	146.40	34.80	267.60	0.00	912.00 ton
Application event totals		146.40	34.80	267.60	0.00	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	32.45	15,840,000.00 gal
Application event totals		0.09	0.00	0.00	32.45	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Nitrogen	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
N Canal	Surface water	0.09	0.00	0.00	32.95	16,080,000.00 gal
Application event totals		50.09	0.00	0.00	32.95	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	32.95	16,080,000.00 gal
Application event totals		0.09	0.00	0.00	32.95	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.19	16,200,000.00 gal
Application event totals		0.09	0.00	0.00	33.19	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.44	16,320,000.00 gal
Application event totals		0.09	0.00	0.00	33.44	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	31.96	15,600,000.00 gal
Application event totals		0.09	0.00	0.00	31.96	
09/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	32.95	16,080,000.00 gal
Application event totals		0.09	0.00	0.00	32.95	

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

Field name: Field 33

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	675.00 ton
Application event totals		153.90	37.80	307.80	0.00	
11/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	181.60	13,500,000.00 gal
Application event totals		0.00	0.00	0.00	181.60	
12/18/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	181.60	13,500,000.00 gal
Application event totals		0.00	0.00	0.00	181.60	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	179.18	13,320,000.00 gal
Application event totals		0.00	0.00	0.00	179.18	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	170.71	12,690,000.00 gal
Application event totals		0.00	0.00	0.00	170.71	

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

Field name: Field 33

Crop: Corn, silage

Plant date: 06/12/2023

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

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	32.89	15,840,000.00 gal
Application event totals		0.09	0.00	0.00	32.89	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Nitrogen	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
N Canal	Surface water	0.09	0.00	0.00	33.39	16,080,000.00 gal
Application event totals		50.09	0.00	0.00	33.39	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.39	16,080,000.00 gal
Application event totals		0.09	0.00	0.00	33.39	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.64	16,200,000.00 gal
Application event totals		0.09	0.00	0.00	33.64	
08/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.88	16,320,000.00 gal
Application event totals		0.09	0.00	0.00	33.88	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	32.39	15,600,000.00 gal
Application event totals		0.09	0.00	0.00	32.39	

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

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

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

Field name: Field 4

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	621.00 ton
Application event totals		153.90	37.80	307.80	0.00	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.16	0.00	0.00	271.85	13,500,000.00 gal
Application event totals		0.16	0.00	0.00	271.85	
12/10/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	14.39	2.11	41.00	167.99	600,000.00 gal
Well 2	Ground water	0.16	0.00	0.00	266.41	13,230,000.00 gal
Application event totals		14.55	2.11	41.00	434.40	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	13.87	1.54	24.74	109.57	600,000.00 gal
Well 2	Ground water	0.16	0.00	0.00	270.04	13,410,000.00 gal
Application event totals		14.04	1.54	24.74	379.61	
04/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.17	0.00	0.00	279.10	13,860,000.00 gal
Application event totals		0.17	0.00	0.00	279.10	

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

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

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

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

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

Field name: Field 4

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
06/08/2023	Sidedress	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00
Application event totals		150.00	0.00	0.00	0.00
06/10/2023	Plow/disc	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	146.40	34.80	267.60	0.00
Application event totals		146.40	34.80	267.60	0.00
06/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	11.19	1.43	21.04	84.18
N Canal	Surface water	0.06	0.00	0.00	23.40
Application event totals		11.25	1.43	21.04	107.57
					870,000.00 gal
					10,368,000.00 gal

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

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

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

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

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

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

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

Field name: Field 6

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	68.40	16.80	136.80	0.00	120.00 ton
Application event totals		68.40	16.80	136.80	0.00	
11/22/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.20	0.00	0.00	337.63	7,290,000.00 gal
Application event totals		0.20	0.00	0.00	337.63	
12/17/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	20.69	3.04	58.94	241.48	375,000.00 gal
Well 2	Ground water	0.05	0.00	0.00	75.03	1,620,000.00 gal
Application event totals		20.73	3.04	58.94	316.51	
02/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	24.73	2.74	44.11	195.31	465,000.00 gal
Well 2	Ground water	2.03	0.00	0.00	3,380.51	72,990,000.00 gal
Application event totals		26.76	2.74	44.11	3,575.83	
04/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.19	0.00	0.00	312.62	6,750,000.00 gal
Application event totals		0.19	0.00	0.00	312.62	

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

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

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

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

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

Field name: Field 6

Crop: Corn, silage

Plant date: 06/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
06/08/2023	Sidedress	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00
Application event totals		150.00	0.00	0.00	0.00
06/10/2023	Plow/disc	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	146.40	34.80	267.60	0.00
Application event totals		146.40	34.80	267.60	0.00
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	19.97	2.55	37.55	150.21
N Canal	Surface water	0.11	0.00	0.00	40.36
Application event totals		20.08	2.55	37.55	190.57

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	17.75	2.27	33.38	133.52	600,000.00 gal
N Canal	Surface water	0.10	0.00	0.00	36.44	7,020,000.00 gal
Application event totals		17.85	2.27	33.38	169.96	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	24.23	3.10	45.56	182.25	819,000.00 gal
N Canal	Surface water	0.10	0.00	0.00	35.88	6,912,000.00 gal
Application event totals		24.32	3.10	45.56	218.13	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.10	0.00	0.00	35.88	6,912,000.00 gal
Application event totals		0.10	0.00	0.00	35.88	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	34.76	6,696,000.00 gal
Application event totals		0.09	0.00	0.00	34.76	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	35.32	6,804,000.00 gal
Application event totals		0.09	0.00	0.00	35.32	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	34.76	6,696,000.00 gal
Application event totals		0.09	0.00	0.00	34.76	

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

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

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

Field name: Field 7

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	68.40	16.80	136.80	0.00	202.00 ton
Application event totals		68.40	16.80	136.80	0.00	
11/27/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.17	0.00	0.00	284.77	10,350,000.00 gal
Application event totals		0.17	0.00	0.00	284.77	
12/21/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	22.61	3.32	64.42	263.96	690,000.00 gal
Well 2	Ground water	0.24	0.00	0.00	406.10	14,760,000.00 gal
Application event totals		22.85	3.32	64.42	670.06	
03/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	26.07	2.89	46.49	205.86	825,000.00 gal
Well 2	Ground water	0.19	0.00	0.00	312.01	11,340,000.00 gal
Application event totals		26.25	2.89	46.49	517.86	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.18	0.00	0.00	302.10	10,980,000.00 gal
Application event totals		0.18	0.00	0.00	302.10	

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

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

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

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

Field name: Field 7

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	146.40	34.80	267.60	0.00	606.00 ton
Application event totals		146.40	34.80	267.60	0.00	
06/11/2023	Sidedress	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	13.18	1.69	24.79	99.15	750,000.00 gal
N Canal	Surface water	0.10	0.00	0.00	36.63	11,880,000.00 gal
Application event totals		13.28	1.69	24.79	135.78	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	11.86	1.52	22.31	89.23	675,000.00 gal
N Canal	Surface water	0.08	0.00	0.00	31.64	10,260,000.00 gal
Application event totals		11.95	1.52	22.31	120.87	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	15.50	1.98	29.15	116.60	882,000.00 gal
N Canal	Surface water	0.09	0.00	0.00	31.97	10,368,000.00 gal
Application event totals		15.59	1.98	29.15	148.57	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	32.64	10,584,000.00 gal
Application event totals		0.09	0.00	0.00	32.64	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	32.30	10,476,000.00 gal
Application event totals		0.09	0.00	0.00	32.30	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	31.97	10,368,000.00 gal
Application event totals		0.09	0.00	0.00	31.97	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.08	0.00	0.00	30.64	9,936,000.00 gal
Application event totals		0.08	0.00	0.00	30.64	

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

Field name: Field 8

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	215.95	8,100,000.00 gal
Application event totals		0.00	0.00	0.00	215.95	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	217.55	8,160,000.00 gal
Application event totals		0.00	0.00	0.00	217.55	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	214.35	8,040,000.00 gal
Application event totals		0.00	0.00	0.00	214.35	
05/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	215.95	8,100,000.00 gal
Application event totals		0.00	0.00	0.00	215.95	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.11	0.00	0.00	40.13	14,688,000.00 gal
Application event totals		0.11	0.00	0.00	40.13	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.11	0.00	0.00	39.83	14,580,000.00 gal
Application event totals		0.11	0.00	0.00	39.83	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.11	0.00	0.00	41.60	15,228,000.00 gal
Application event totals		0.11	0.00	0.00	41.60	

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

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

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

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

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

Field name:	Field 9	Plant date:	01/01/2023			
Crop:	Alfalfa, hay					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	205.73	7,920,000.00 gal
Application event totals		0.00	0.00	0.00	205.73	
03/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 8	Ground water	0.00	0.00	0.00	204.18	7,860,000.00 gal
Application event totals		0.00	0.00	0.00	204.18	

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

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

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

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

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

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

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

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

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

Field name: Field B

Crop: Corn, silage

Plant date: 06/16/2023

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

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	17.75	2.27	33.38	133.52	180,000.00 gal
N Canal	Surface water	0.08	0.00	0.00	29.90	1,728,000.00 gal
Application event totals		17.83	2.27	33.38	163.42	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	28.99	3.71	54.52	218.08	294,000.00 gal
N Canal	Surface water	0.08	0.00	0.00	28.03	1,620,000.00 gal
Application event totals		29.07	3.71	54.52	246.11	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	31.77	1,836,000.00 gal
Application event totals		0.09	0.00	0.00	31.77	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.64	1,944,000.00 gal
Application event totals		0.09	0.00	0.00	33.64	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	33.64	1,944,000.00 gal
Application event totals		0.09	0.00	0.00	33.64	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	31.77	1,836,000.00 gal
Application event totals		0.09	0.00	0.00	31.77	

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

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

P1 - 01/01/2023: Alfalfa, hay

Field name: P1

Crop: Alfalfa, hay

Plant date: 01/01/2023

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

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

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

P1 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	31.75	11,520,000.00 gal
Application event totals		0.09	0.00	0.00	31.75	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.09	0.00	0.00	31.75	11,520,000.00 gal
Application event totals		0.09	0.00	0.00	31.75	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.08	0.00	0.00	31.09	11,280,000.00 gal
Application event totals		0.08	0.00	0.00	31.09	
10/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.08	0.00	0.00	31.09	11,280,000.00 gal
Application event totals		0.08	0.00	0.00	31.09	

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

Field name: P10

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	607.50 ton
Application event totals		153.90	37.80	307.80	0.00	

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

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

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

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

P10 - 06/24/2023: Corn, silage

Field name: P10

Crop: Corn, silage

Plant date: 06/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/07/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	

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

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

P10 - 06/24/2023: Corn, silage

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

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

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

P10 - 06/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.67	10,260,000.00 gal
Application event totals		0.06	0.00	0.00	23.67	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.53	10,200,000.00 gal
Application event totals		0.06	0.00	0.00	23.53	
09/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.53	10,200,000.00 gal
Application event totals		0.06	0.00	0.00	23.53	

P11 - 01/01/2023: Alfalfa, hay

Field name: P11

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	127.67	10,368,000.00 gal
Application event totals		0.00	0.00	0.00	127.67	
03/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	127.67	10,368,000.00 gal
Application event totals		0.00	0.00	0.00	127.67	

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

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

P11 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	127.67	10,368,000.00 gal
Application event totals		0.00	0.00	0.00	127.67	
04/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	127.67	10,368,000.00 gal
Application event totals		0.00	0.00	0.00	127.67	
05/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	127.67	10,368,000.00 gal
Application event totals		0.00	0.00	0.00	127.67	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.25	10,080,000.00 gal
Application event totals		0.06	0.00	0.00	23.25	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.25	10,080,000.00 gal
Application event totals		0.06	0.00	0.00	23.25	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.53	10,200,000.00 gal
Application event totals		0.06	0.00	0.00	23.53	

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

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

P11 - 01/01/2023: Alfalfa, hay

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

P12 - 01/01/2023: Alfalfa, hay

Field name: P12

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	125.01	10,152,000.00 gal
Application event totals		0.00	0.00	0.00	125.01	
03/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	123.68	10,044,000.00 gal
Application event totals		0.00	0.00	0.00	123.68	
04/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	126.34	10,260,000.00 gal
Application event totals		0.00	0.00	0.00	126.34	

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

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

P12 - 01/01/2023: Alfalfa, hay

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

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

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

P12 - 01/01/2023: Alfalfa, hay

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

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

Field name: P2

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	675.00 ton
Application event totals		153.90	37.80	307.80	0.00	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	195.33	14,520,000.00 gal
Application event totals		0.00	0.00	0.00	195.33	
12/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	193.71	14,400,000.00 gal
Application event totals		0.00	0.00	0.00	193.71	
03/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	193.71	14,400,000.00 gal
Application event totals		0.00	0.00	0.00	193.71	

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

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

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

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

P2 - 06/19/2023: Corn, silage

Field name: P2

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
06/07/2023	Sidedress	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00
Application event totals		150.00	0.00	0.00	0.00
06/10/2023	Plow/disc	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	141.52	33.64	258.68	0.00
Application event totals		141.52	33.64	258.68	0.00
06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Arvin Edison	Ground water	0.11	0.00	0.00	21.45
Application event totals		0.11	0.00	0.00	21.45
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Arvin Edison	Ground water	0.11	0.00	0.00	21.20
Application event totals		0.11	0.00	0.00	21.20

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

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

P2 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Nitrogen	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
Arvin Edison	Ground water	0.11	0.00	0.00	21.45	10,200,000.00 gal
Application event totals		50.11	0.00	0.00	21.45	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.11	0.00	0.00	21.58	10,260,000.00 gal
Application event totals		0.11	0.00	0.00	21.58	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.11	0.00	0.00	21.70	10,320,000.00 gal
Application event totals		0.11	0.00	0.00	21.70	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.11	0.00	0.00	21.20	10,080,000.00 gal
Application event totals		0.11	0.00	0.00	21.20	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.11	0.00	0.00	21.45	10,200,000.00 gal
Application event totals		0.11	0.00	0.00	21.45	

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

Field name: P3

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

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

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	652.50 ton
Application event totals		153.90	37.80	307.80	0.00	
11/22/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	202.06	14,520,000.00 gal
Application event totals		0.00	0.00	0.00	202.06	
12/20/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	200.39	14,400,000.00 gal
Application event totals		0.00	0.00	0.00	200.39	
03/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	200.39	14,400,000.00 gal
Application event totals		0.00	0.00	0.00	200.39	
05/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-6	Ground water	0.00	0.00	0.00	91.85	6,600,000.00 gal
Application event totals		0.00	0.00	0.00	91.85	

P3 - 06/20/2023: Corn, silage

Field name: P3

Crop: Corn, silage

Plant date: 06/20/2023

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

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

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

P3 - 06/20/2023: Corn, silage

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

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

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

P3 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.12	0.00	0.00	22.45	10,320,000.00 gal
Application event totals		0.12	0.00	0.00	22.45	
09/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.12	0.00	0.00	22.19	10,200,000.00 gal
Application event totals		0.12	0.00	0.00	22.19	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Arvin Edison	Ground water	0.12	0.00	0.00	22.19	10,200,000.00 gal
Application event totals		0.12	0.00	0.00	22.19	

P4 - 01/01/2023: Alfalfa, hay

Field name:	P4	Plant date:	01/01/2023			
Crop:	Alfalfa, hay					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	112.36	10,206,000.00 gal
Application event totals		0.00	0.00	0.00	112.36	
03/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	112.36	10,206,000.00 gal
Application event totals		0.00	0.00	0.00	112.36	

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

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

P4 - 01/01/2023: Alfalfa, hay

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

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

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

P4 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.51	11,400,000.00 gal
Application event totals		0.06	0.00	0.00	23.51	
10/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.51	11,400,000.00 gal
Application event totals		0.06	0.00	0.00	23.51	

P5 - 01/01/2023: Alfalfa, hay

Field name: P5

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.05	0.00	0.00	20.48	10,260,000.00 gal
Application event totals		0.05	0.00	0.00	20.48	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	20.70	10,368,000.00 gal
Application event totals		0.06	0.00	0.00	20.70	
04/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	20.91	10,476,000.00 gal
Application event totals		0.06	0.00	0.00	20.91	

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

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

P5 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	20.81	10,422,000.00 gal
Application event totals		0.06	0.00	0.00	20.81	
06/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.13	10,584,000.00 gal
Application event totals		0.06	0.00	0.00	21.13	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	20.91	10,476,000.00 gal
Application event totals		0.06	0.00	0.00	20.91	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	20.91	10,476,000.00 gal
Application event totals		0.06	0.00	0.00	20.91	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.24	10,638,000.00 gal
Application event totals		0.06	0.00	0.00	21.24	
09/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.24	10,638,000.00 gal
Application event totals		0.06	0.00	0.00	21.24	

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

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

P5 - 01/01/2023: Alfalfa, hay

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

P6 - 01/01/2023: Alfalfa, hay

Field name: P6

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	20.75	10,260,000.00 gal
Application event totals		0.06	0.00	0.00	20.75	
03/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	20.97	10,368,000.00 gal
Application event totals		0.06	0.00	0.00	20.97	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.19	10,476,000.00 gal
Application event totals		0.06	0.00	0.00	21.19	
05/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.08	10,422,000.00 gal
Application event totals		0.06	0.00	0.00	21.08	

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

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

P6 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.40	10,584,000.00 gal
Application event totals		0.06	0.00	0.00	21.40	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.19	10,476,000.00 gal
Application event totals		0.06	0.00	0.00	21.19	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.19	10,476,000.00 gal
Application event totals		0.06	0.00	0.00	21.19	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.51	10,638,000.00 gal
Application event totals		0.06	0.00	0.00	21.51	
09/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.51	10,638,000.00 gal
Application event totals		0.06	0.00	0.00	21.51	
10/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	21.40	10,584,000.00 gal
Application event totals		0.06	0.00	0.00	21.40	

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

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

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

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

Field name: P9

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	153.90	37.80	307.80	0.00	607.50 ton
Application event totals		153.90	37.80	307.80	0.00	
11/17/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	177.31	14,400,000.00 gal
Application event totals		0.00	0.00	0.00	177.31	
12/05/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	175.84	14,280,000.00 gal
Application event totals		0.00	0.00	0.00	175.84	
02/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	174.36	14,160,000.00 gal
Application event totals		0.00	0.00	0.00	174.36	
04/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well P-9	Ground water	0.00	0.00	0.00	174.36	14,160,000.00 gal
Application event totals		0.00	0.00	0.00	174.36	

P9 - 06/20/2023: Corn, silage

Field name: P9

Crop: Corn, silage

Plant date: 06/20/2023

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

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

P9 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.53	10,200,000.00 gal
Application event totals		0.06	0.00	0.00	23.53	
06/07/2023	Sidedress	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
PrePlant	Solid commercial fertilizer	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	
06/10/2023	Plow/disc	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	146.40	34.80	267.60	0.00	810.00 ton
Application event totals		146.40	34.80	267.60	0.00	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.53	10,200,000.00 gal
Application event totals		0.06	0.00	0.00	23.53	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.67	10,260,000.00 gal
Application event totals		0.06	0.00	0.00	23.67	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N Canal	Surface water	0.06	0.00	0.00	23.81	10,320,000.00 gal
Application event totals		0.06	0.00	0.00	23.81	

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

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

P9 - 06/20/2023: Corn, silage

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

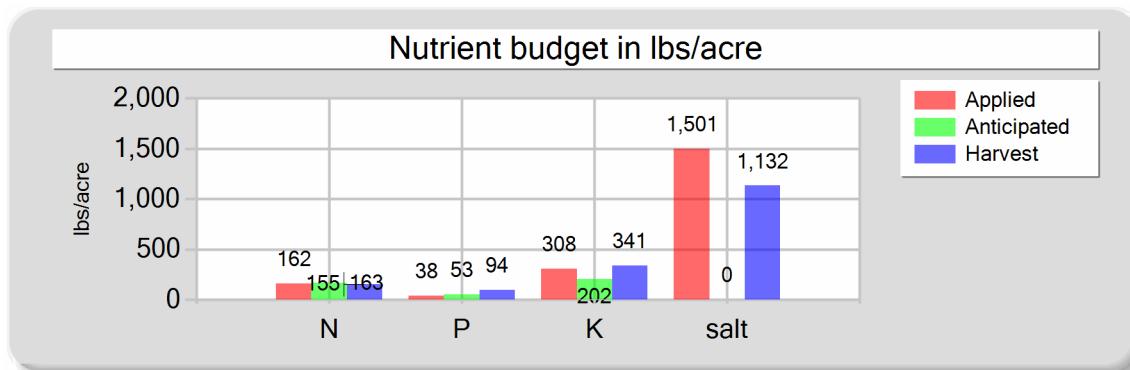
Annual Report - General Order No. R5-2007-0035

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

B. NUTRIENT BUDGET

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

Field name: Field 1 Crop: Wheat, silage, boot stage Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	153.90	37.80	307.80	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.90	0.00	0.00	1,500.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	161.80	37.80	307.80	1,500.60
Anticipated crop nutrient removal	163.20	52.80	201.60	0.00
Actual crop nutrient removal	154.64	94.24	340.70	1,132.36
Nutrient balance	7.16	-56.44	-32.90	368.23
Applied to removed ratio	1.05	0.40	0.90	1.33

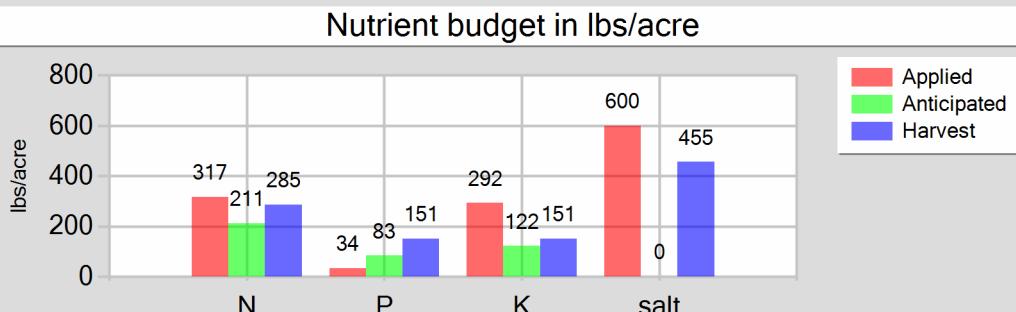
Fresh water applied
26,460,000.00 <i>gallons</i>
974.43 <i>acre-inches</i>
19.89 <i>inches/acre</i>
Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

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

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

Field name: Field 1 Crop: Corn, silage Plant date: 06/10/2023



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

Fresh water applied
50,976,000.00 gallons
1,877.27 acre-inches
38.31 inches/acre

Process wastewater applied
1,014,000.00 gallons
37.34 acre-inches
0.76 inches/acre

Total harvests for the crop
1 harvests

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

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

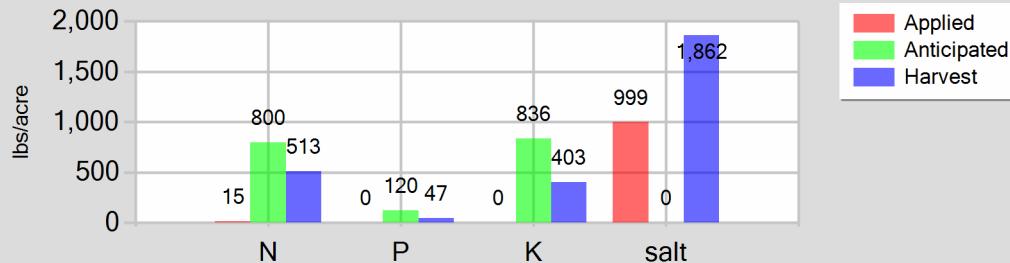
Field 10 - 01/01/2023: Alfalfa, hay

Field name: Field 10

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



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

Fresh water applied

117,390,000.00 gallons
4,323.07 acre-inches
35.44 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

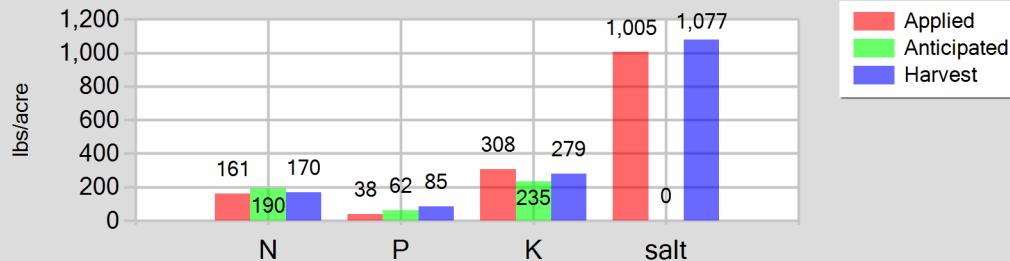
Field 11 - 11/14/2022: Wheat, silage, boot stage

Field name: Field 11

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

Nutrient budget in lbs/acre



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

Fresh water applied

37,680,000.00 gallons
1,387.63 acre-inches
12.17 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

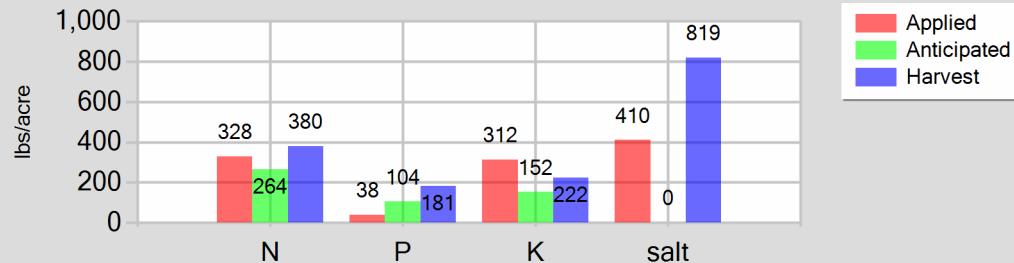
Field 11 - 06/13/2023: Corn, silage

Field name: Field 11

Crop: Corn, silage

Plant date: 06/13/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	84,888,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,126.14 acre-inches
Commercial fertilizer / Other	150.00	0.00	0.00	0.00	27.42 inches/acre
Dry manure	146.40	34.80	267.60	0.00	
Process wastewater	23.64	3.02	44.45	177.79	1,518,000.00 gallons
Fresh water	0.62	0.00	0.00	231.90	55.90 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	0.49 inches/acre
Total nutrients applied	327.66	37.82	312.05	409.70	
Anticipated crop nutrient removal	264.00	104.00	152.00	0.00	
Actual crop nutrient removal	380.08	180.63	222.03	819.24	
Nutrient balance	-52.42	-142.81	90.02	-409.54	
Applied to removed ratio	0.86	0.21	1.41	0.50	
Total harvests for the crop					1 harvests

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

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

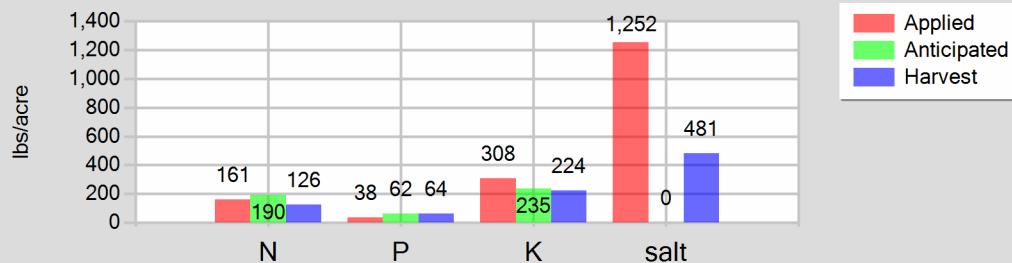
Field 12 - 11/14/2022: Wheat, silage, boot stage

Field name: Field 12

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022

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	42,840,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,577.65 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.17 inches/acre
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	1,251.94	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	160.90	37.80	307.80	1,251.94	
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00	
Actual crop nutrient removal	126.49	64.44	224.33	481.22	
Nutrient balance	34.41	-26.64	83.47	770.72	
Applied to removed ratio	1.27	0.59	1.37	2.60	
Process wastewater applied					0.00 gallons
					0.00 acre-inches
					0.00 inches/acre
Total harvests for the crop					1 harvests

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

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

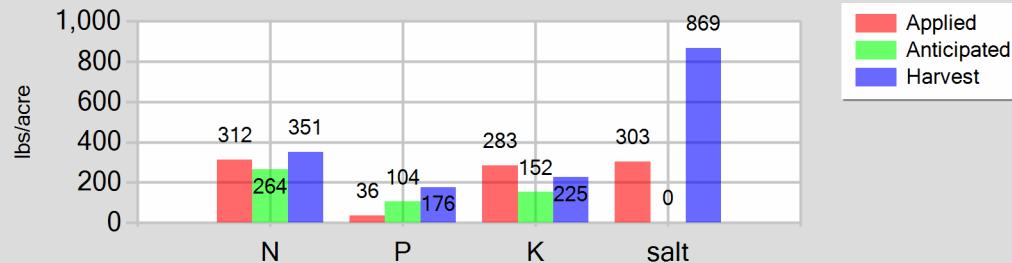
Field 12 - 06/09/2023: Corn, silage

Field name: Field 12

Crop: Corn, silage

Plant date: 06/09/2023

Nutrient budget in lbs/acre



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

Fresh water applied

80,460,000.00 gallons
2,963.07 acre-inches
28.49 inches/acre

Process wastewater applied

480,000.00 gallons
17.68 acre-inches
0.17 inches/acre

Total harvests for the crop

1 harvests

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

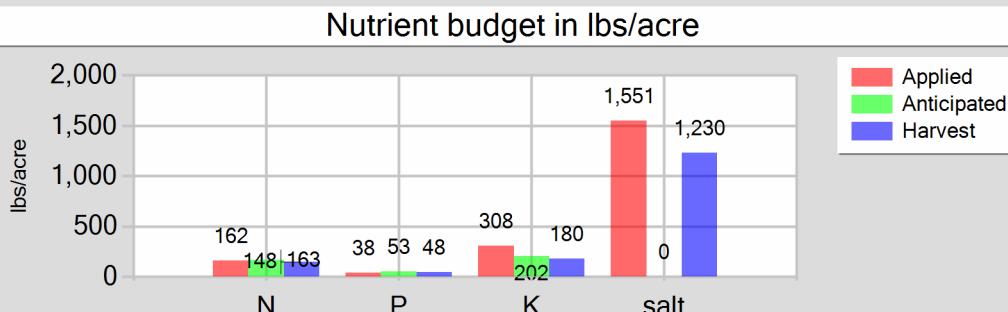
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 2

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022



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

Fresh water applied

25,110,000.00 gallons
924.72 acre-inches
20.55 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

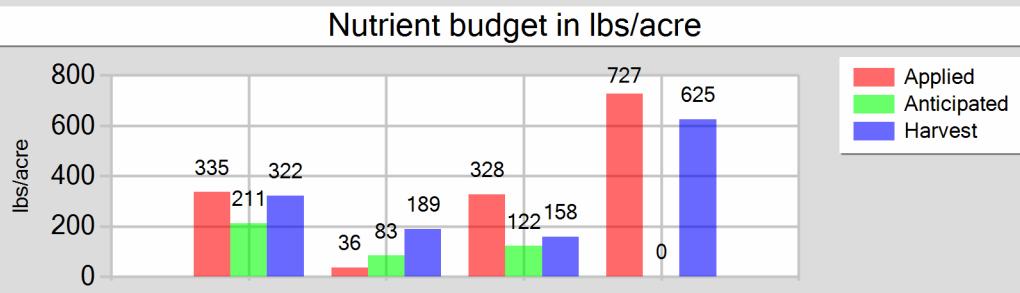
1 harvests

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

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

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

Field name: Field 2 Crop: Corn, silage Plant date: 06/10/2023



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

Fresh water applied
44,604,000.00 gallons
1,642.61 acre-inches
36.50 inches/acre

Process wastewater applied
1,410,000.00 gallons
51.93 acre-inches
1.15 inches/acre

Total harvests for the crop
1 harvests

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

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

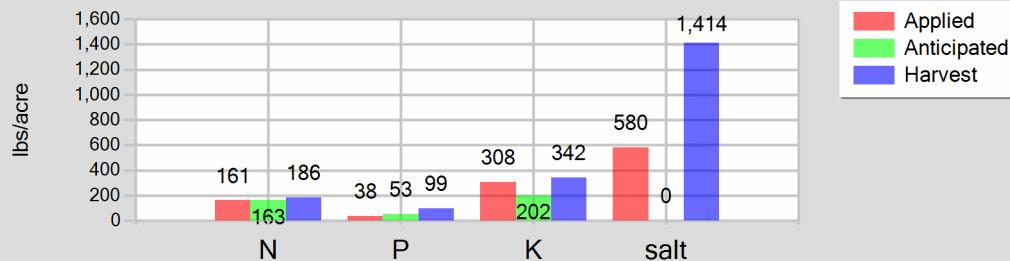
Field 21 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 21

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	153.90	37.80	307.80	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.47	0.00	0.00	580.20
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	161.37	37.80	307.80	580.20
Anticipated crop nutrient removal	163.20	52.80	201.60	0.00
Actual crop nutrient removal	185.60	98.60	342.20	1,414.27
Nutrient balance	-24.23	-60.80	-34.40	-834.07
Applied to removed ratio	0.87	0.38	0.90	0.41

Fresh water applied

23,880,000.00 gallons
879.42 acre-inches
16.91 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

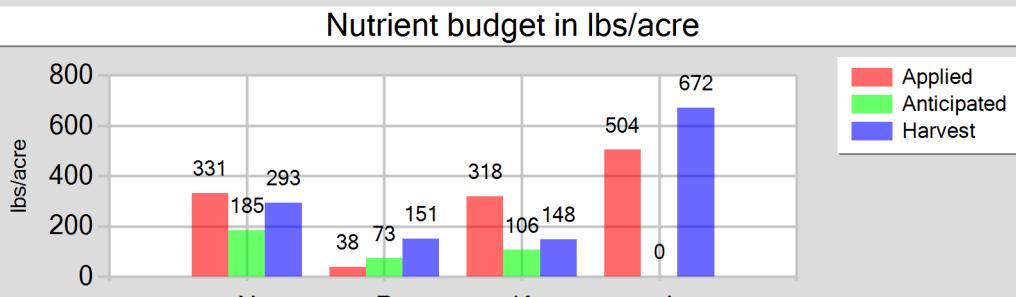
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 21

Crop: Corn, silage

Plant date: 06/08/2023



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

Fresh water applied

50,220,000.00 gallons
1,849.43 acre-inches
35.57 inches/acre

Process wastewater applied

792,000.00 gallons
29.17 acre-inches
0.56 inches/acre

Total harvests for the crop

1 harvests

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

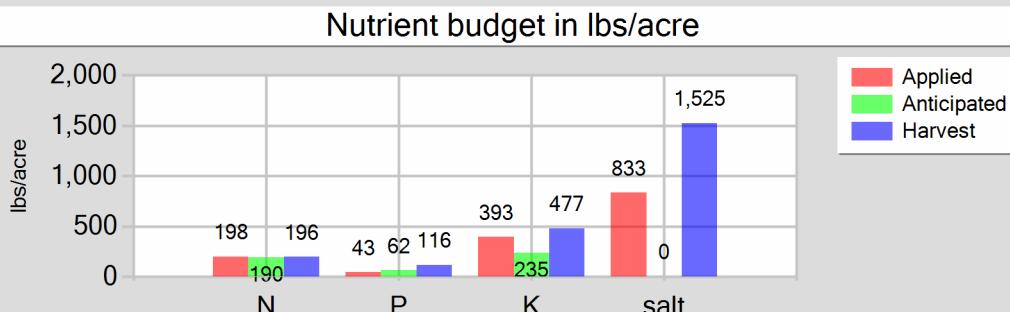
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 22

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	153.90	37.80	307.80	0.00
Process wastewater	36.57	4.72	85.06	359.10
Fresh water	0.51	0.00	0.00	474.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	197.98	42.52	392.86	833.10
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00
Actual crop nutrient removal	195.73	116.22	477.10	1,524.52
Nutrient balance	2.25	-73.69	-84.24	-691.42
Applied to removed ratio	1.01	0.37	0.82	0.55

Fresh water applied

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

Process wastewater applied

1,350,000.00 gallons
49.72 acre-inches
0.41 inches/acre

Total harvests for the crop

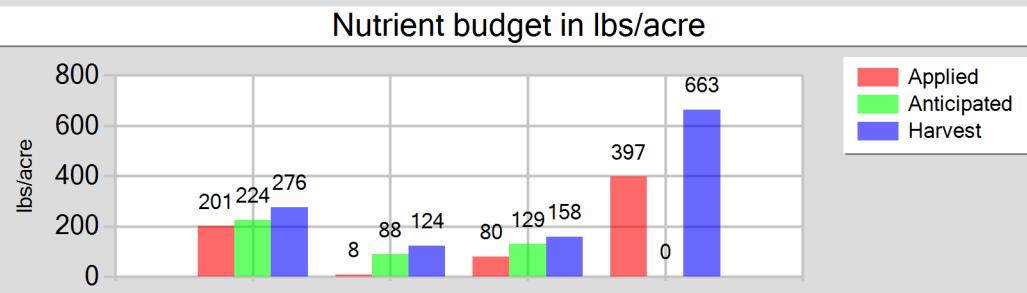
1 harvests

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

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

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

Field name: Field 22 Crop: Corn, silage Plant date: 06/08/2023



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

Fresh water applied

105,948,000.00 gallons
3,901.70 acre-inches
32.51 inches/acre

Process wastewater applied

1,095,000.00 gallons
40.33 acre-inches
0.34 inches/acre

Total harvests for the crop

1 harvests

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

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

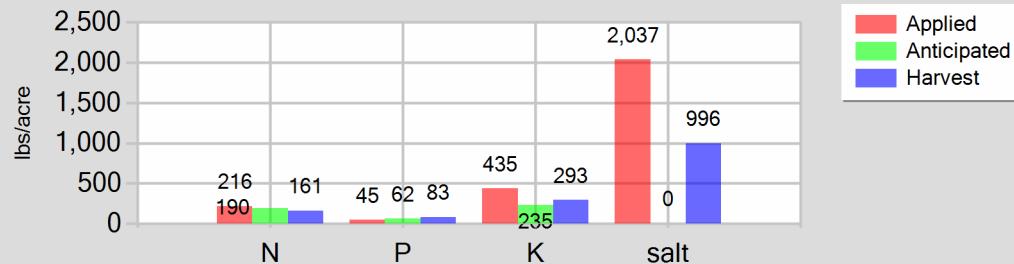
Field 3 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 3

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

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

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

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

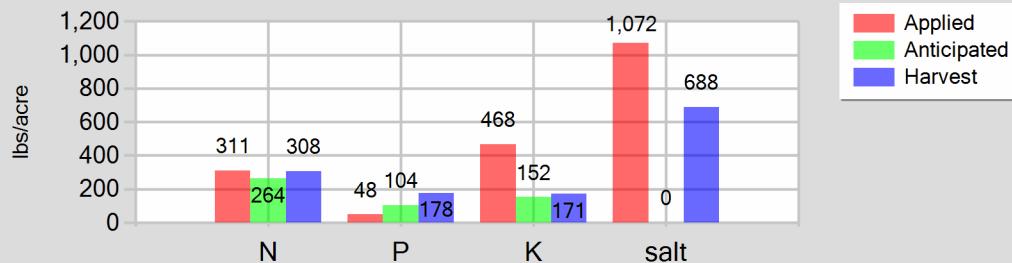
Field 3 - 06/14/2023: Corn, silage

Field name: Field 3

Crop: Corn, silage

Plant date: 06/14/2023

Nutrient budget in lbs/acre



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

Fresh water applied

17,280,000.00 gallons
636.36 acre-inches
31.82 inches/acre

Process wastewater applied

1,203,000.00 gallons
44.30 acre-inches
2.22 inches/acre

Total harvests for the crop

1 harvests

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

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

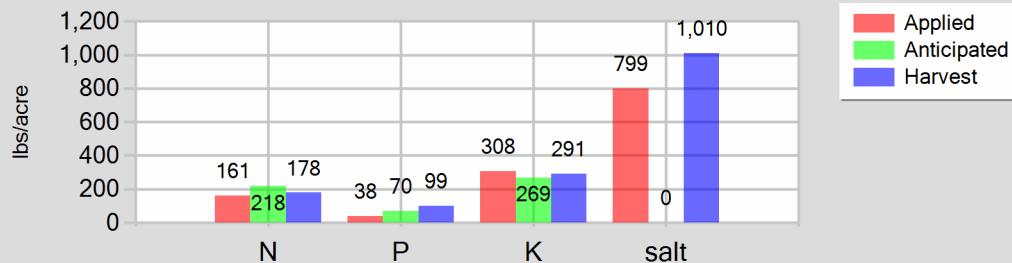
Field 32 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 32

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Nutrient budget in lbs/acre



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

Fresh water applied

60,210,000.00 gallons
2,217.33 acre-inches
14.59 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

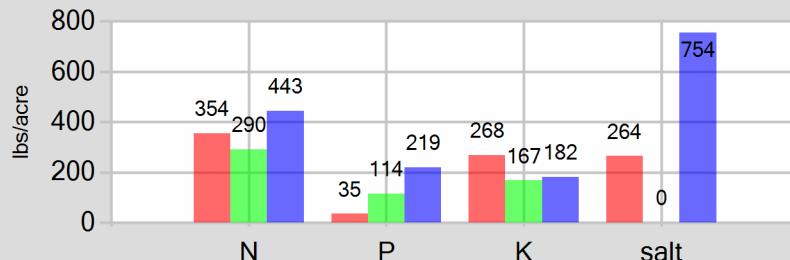
Field 32 - 06/08/2023: Corn, silage

Field name: Field 32

Crop: Corn, silage

Plant date: 06/08/2023

Nutrient budget in lbs/acre



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

Fresh water applied

129,000,000.00 gallons
4,750.63 acre-inches
31.25 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

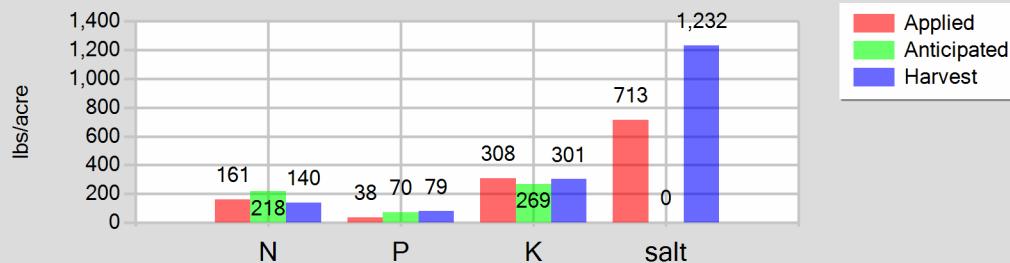
Field 33 - 11/15/2022: Wheat, silage, boot stage

Field name: Field 33

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	153.90	37.80	307.80	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	713.10
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	160.90	37.80	307.80	713.10
Anticipated crop nutrient removal	217.60	70.40	268.80	0.00
Actual crop nutrient removal	140.48	79.02	301.45	1,231.83
Nutrient balance	20.42	-41.22	6.35	-518.74
Applied to removed ratio	1.15	0.48	1.02	0.58

Fresh water applied

53,010,000.00 gallons
1,952.18 acre-inches
13.01 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

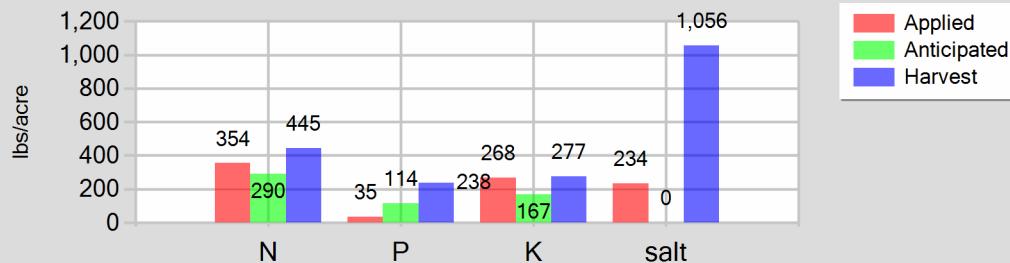
Field 33 - 06/12/2023: Corn, silage

Field name: Field 33

Crop: Corn, silage

Plant date: 06/12/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	200.00	0.00	0.00	0.00
Dry manure	146.40	34.80	267.60	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.63	0.00	0.00	234.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	354.03	34.80	267.60	234.45
Anticipated crop nutrient removal	290.40	114.40	167.20	0.00
Actual crop nutrient removal	445.10	237.67	276.57	1,056.31
Nutrient balance	-91.07	-202.87	-8.97	-821.86
Applied to removed ratio	0.80	0.15	0.97	0.22

Fresh water applied

112,920,000.00 gallons
4,158.46 acre-inches
27.72 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

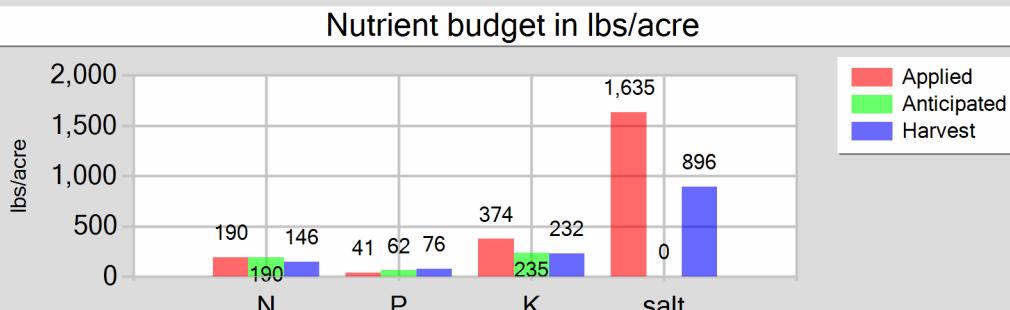
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 4

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	153.90	37.80	307.80	0.00
Process wastewater	28.26	3.65	65.74	277.56
Fresh water	0.82	0.00	0.00	1,357.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	189.98	41.45	373.54	1,634.99
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00
Actual crop nutrient removal	145.97	76.30	232.22	895.70
Nutrient balance	44.01	-34.85	141.33	739.29
Applied to removed ratio	1.30	0.54	1.61	1.83

Fresh water applied

67,410,000.00 gallons
2,482.48 acre-inches
17.99 inches/acre

Process wastewater applied

1,200,000.00 gallons
44.19 acre-inches
0.32 inches/acre

Total harvests for the crop

1 harvests

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

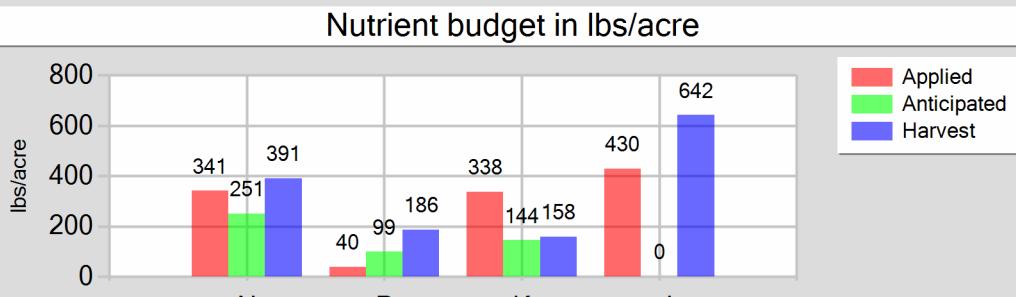
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 4

Crop: Corn, silage

Plant date: 06/14/2023



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

Fresh water applied

66,204,000.00 gallons
2,438.07 acre-inches
17.67 inches/acre

Process wastewater applied

2,895,000.00 gallons
106.61 acre-inches
0.77 inches/acre

Total harvests for the crop

1 harvests

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

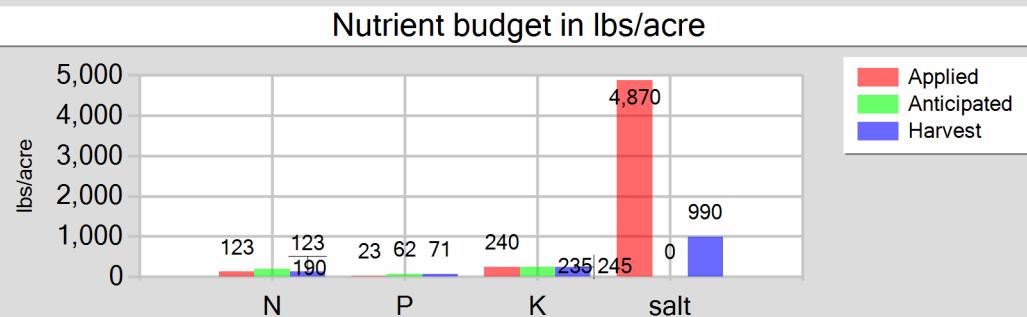
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 6

Crop: Wheat, silage, boot stage

Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	68.40	16.80	136.80	0.00
Process wastewater	45.42	5.78	103.04	436.80
Fresh water	2.66	0.00	0.00	4,433.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	123.48	22.58	239.84	4,869.81
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00
Actual crop nutrient removal	122.69	71.33	245.39	989.85
Nutrient balance	0.79	-48.76	-5.54	3,879.96
Applied to removed ratio	1.01	0.32	0.98	4.92

Fresh water applied
95,715,000.00 gallons
3,524.86 acre-inches
58.75 inches/acre

Process wastewater applied
840,000.00 gallons
30.93 acre-inches
0.52 inches/acre

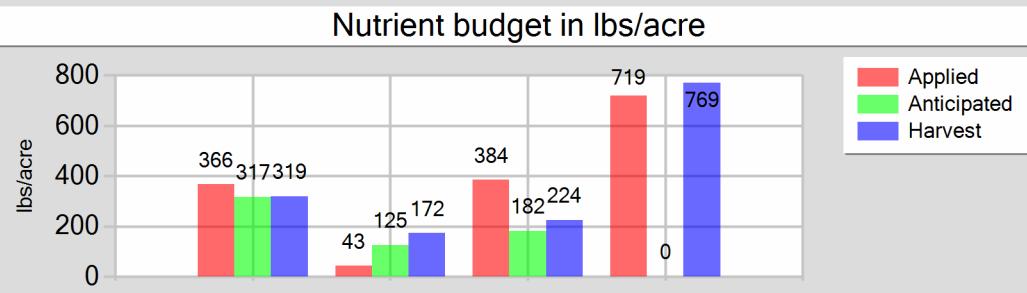
Total harvests for the crop
1 harvests

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

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

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

Field name: Field 6 Crop: Corn, silage Plant date: 06/17/2023



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

Fresh water applied
48,816,000.00 gallons
1,797.73 acre-inches
29.96 inches/acre

Process wastewater applied
2,094,000.00 gallons
77.11 acre-inches
1.29 inches/acre

Total harvests for the crop
1 harvests

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

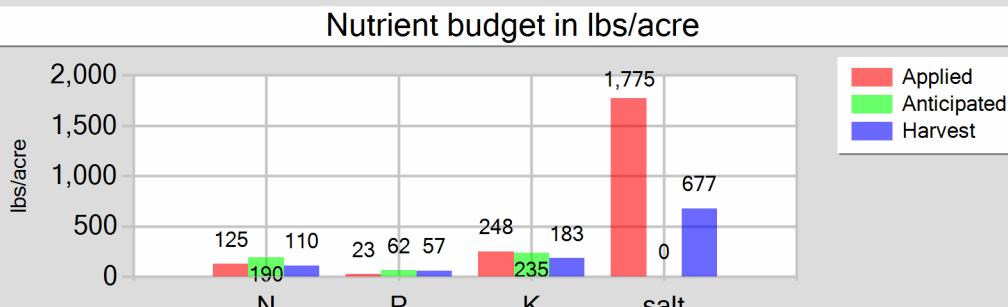
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 7

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	68.40	16.80	136.80	0.00
Process wastewater	48.68	6.21	110.91	469.82
Fresh water	0.78	0.00	0.00	1,304.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	124.86	23.01	247.71	1,774.79
Anticipated crop nutrient removal	190.40	61.60	235.20	0.00
Actual crop nutrient removal	109.53	57.37	182.55	676.55
Nutrient balance	15.33	-34.37	65.16	1,098.24
Applied to removed ratio	1.14	0.40	1.36	2.62

Fresh water applied

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

Process wastewater applied

1,515,000.00 gallons
55.79 acre-inches
0.55 inches/acre

Total harvests for the crop

1 harvests

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

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

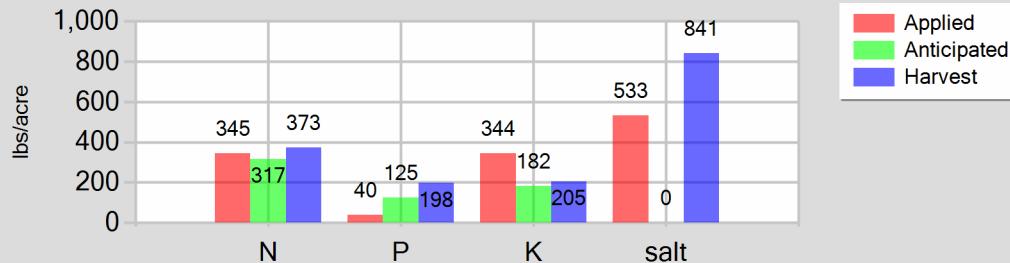
Field 7 - 06/19/2023: Corn, silage

Field name: Field 7

Crop: Corn, silage

Plant date: 06/19/2023

Nutrient budget in lbs/acre



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

Fresh water applied

73,872,000.00 gallons
2,720.45 acre-inches
26.94 inches/acre

Process wastewater applied

2,307,000.00 gallons
84.96 acre-inches
0.84 inches/acre

Total harvests for the crop

1 harvests

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

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

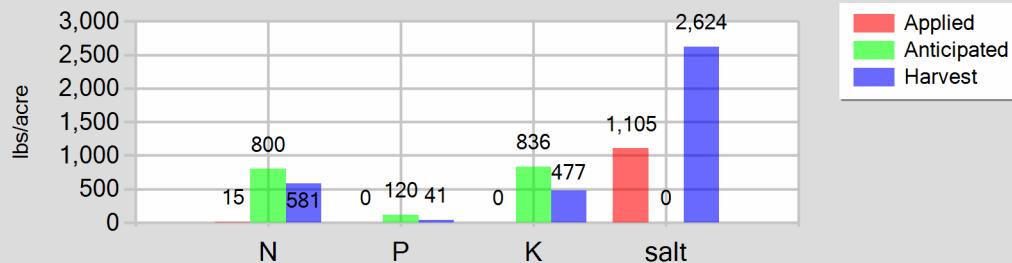
Field 8 - 01/01/2023: Alfalfa, hay

Field name: Field 8

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	0.65	0.00	0.00	1,104.84
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.65	0.00	0.00	1,104.84
Anticipated crop nutrient removal	800.10	119.70	835.80	0.00
Actual crop nutrient removal	581.35	41.12	476.67	2,623.73
Nutrient balance	-566.71	-41.12	-476.67	-1,518.89
Applied to removed ratio	0.03	0.00	0.00	0.42

Fresh water applied

120,636,000.00 gallons
4,442.61 acre-inches
38.97 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

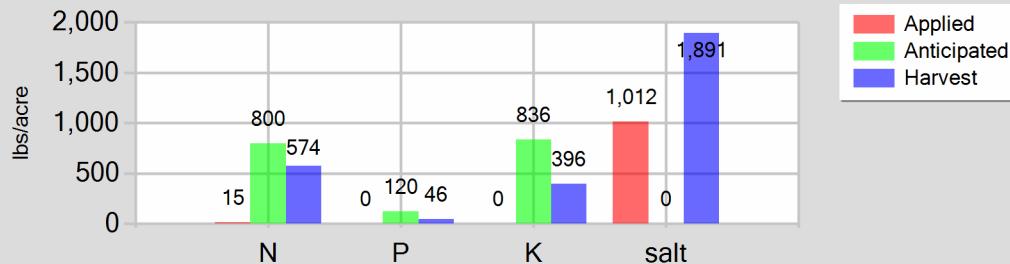
Field 9 - 01/01/2023: Alfalfa, hay

Field name: Field 9

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	0.52	0.00	0.00	1,012.02
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.52	0.00	0.00	1,012.02
Anticipated crop nutrient removal	800.10	119.70	835.80	0.00
Actual crop nutrient removal	574.02	46.49	396.15	1,890.97
Nutrient balance	-559.50	-46.49	-396.15	-878.95
Applied to removed ratio	0.03	0.00	0.00	0.54

Fresh water applied

104,292,000.00 gallons
3,840.72 acre-inches
32.83 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

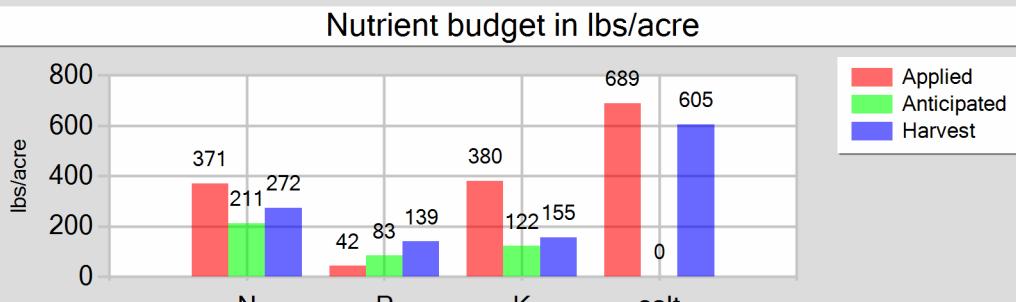
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field B

Crop: Corn, silage

Plant date: 06/16/2023



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

Fresh water applied

13,068,000.00 gallons
481.25 acre-inches
26.74 inches/acre

Process wastewater applied

624,000.00 gallons
22.98 acre-inches
1.28 inches/acre

Total harvests for the crop

1 harvests

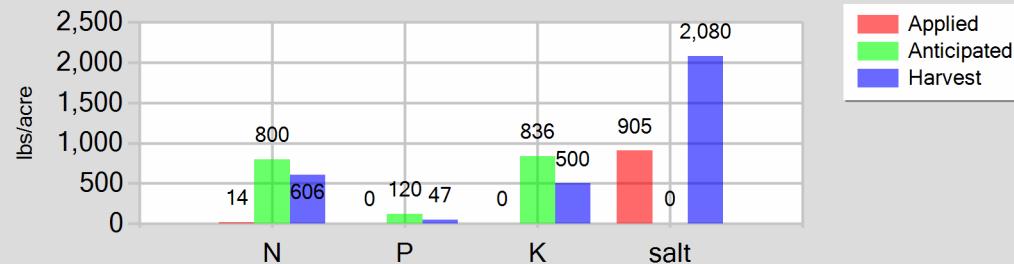
Annual Report - General Order No. R5-2007-0035

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

P1 - 01/01/2023: Alfalfa, hay

Field name: P1 Crop: Alfalfa, hay Plant date: 01/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	107,868,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,972.41 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	35.15 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.42	0.00	0.00	905.41	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	14.42	0.00	0.00	905.41	Process wastewater applied
Anticipated crop nutrient removal	800.10	119.70	835.80	0.00	0.00 gallons
Actual crop nutrient removal	605.83	46.92	499.76	2,080.41	0.00 acre-inches
Nutrient balance	-591.41	-46.92	-499.76	-1,175.01	0.00 inches/acre
Applied to removed ratio	0.02	0.00	0.00	0.44	Total harvests for the crop
					1 harvests

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

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

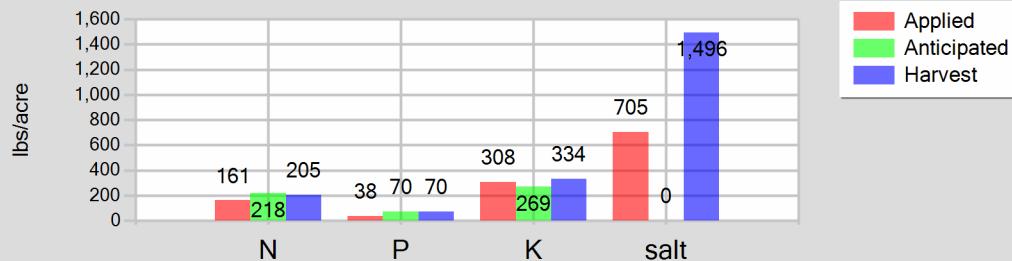
P10 - 11/16/2022: Wheat, silage, boot stage

Field name: P10

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

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

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

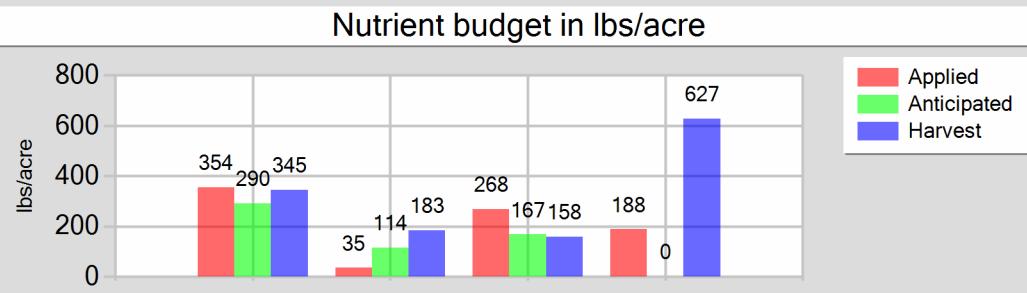
Reporting period 01/01/2023 to 12/31/2023.

P10 - 06/24/2023: Corn, silage

Field name: P10

Crop: Corn, silage

Plant date: 06/24/2023



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

Fresh water applied

81,480,000.00 *gallons*
3,000.63 *acre-inches*
22.23 *inches/acre*

Process wastewater applied

0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Total harvests for the crop

1 *harvests*

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

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

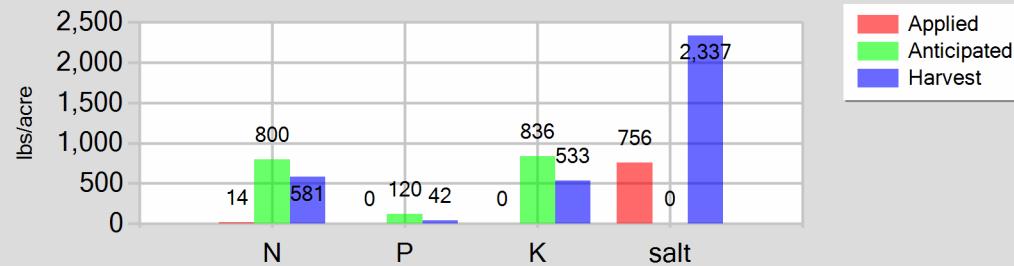
P11 - 01/01/2023: Alfalfa, hay

Field name: P11

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



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

Fresh water applied

102,660,000.00 gallons
3,780.62 acre-inches
28.00 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

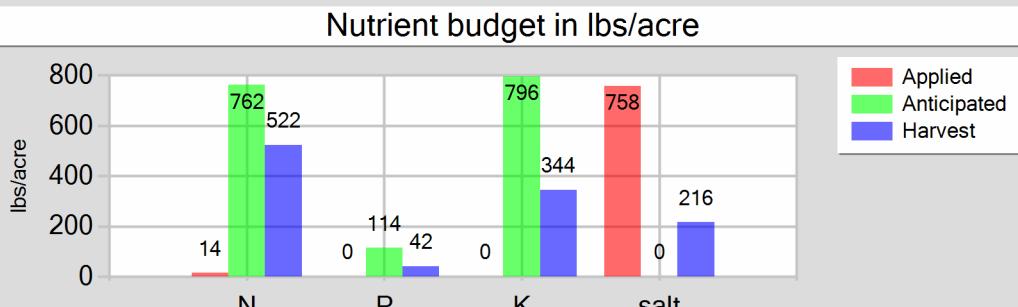
Reporting period 01/01/2023 to 12/31/2023.

P12 - 01/01/2023: Alfalfa, hay

Field name: P12

Crop: Alfalfa, hay

Plant date: 01/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	108,054,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,979.26 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	29.48 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.35	0.00	0.00	757.75	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	14.35	0.00	0.00	757.75	Process wastewater applied
Anticipated crop nutrient removal	762.00	114.00	796.00	0.00	0.00 gallons
Actual crop nutrient removal	522.13	41.94	343.89	216.08	0.00 acre-inches
Nutrient balance	-507.77	-41.94	-343.89	541.67	0.00 inches/acre
Applied to removed ratio	0.03	0.00	0.00	3.51	Total harvests for the crop
					1 harvests

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

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

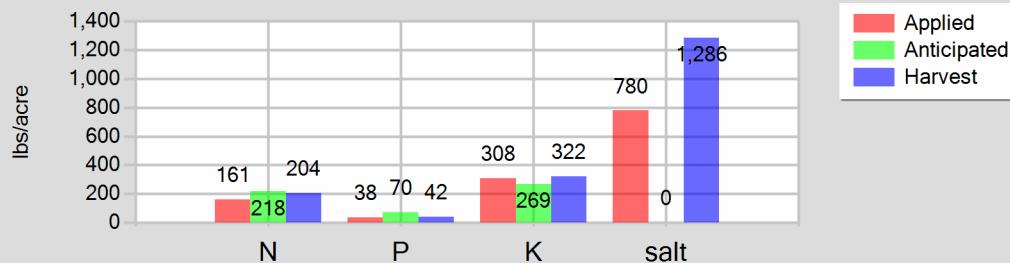
P2 - 11/15/2022: Wheat, silage, boot stage

Field name: P2

Crop: Wheat, silage, boot stage

Plant date: 11/15/2022

Nutrient budget in lbs/acre



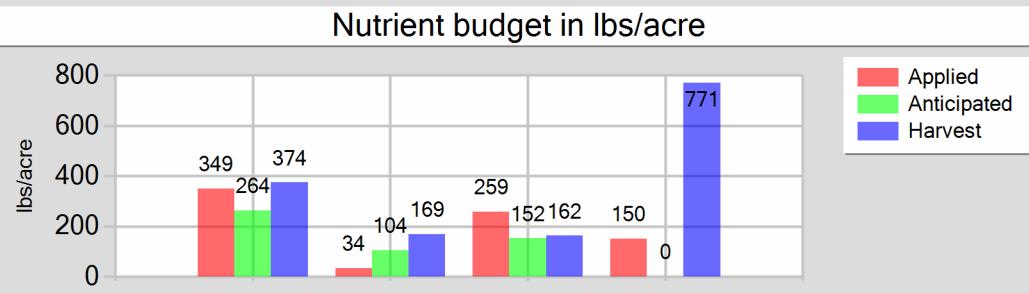
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	57,960,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,134.47 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	14.23 inches/acre
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	779.69	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	160.90	37.80	307.80	779.69	Process wastewater applied
Anticipated crop nutrient removal	217.60	70.40	268.80	0.00	0.00 gallons
Actual crop nutrient removal	204.40	42.00	322.00	1,286.21	0.00 acre-inches
Nutrient balance	-43.50	-4.20	-14.20	-506.52	0.00 inches/acre
Applied to removed ratio	0.79	0.90	0.96	0.61	Total harvests for the crop
					1 harvests

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

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

P2 - 06/19/2023: Corn, silage

Field name: P2 Crop: Corn, silage Plant date: 06/19/2023



	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	71,340,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,627.21 acre-inches
Commercial fertilizer / Other	200.00	0.00	0.00	0.00	17.51 inches/acre
Dry manure	141.52	33.64	258.68	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.79	0.00	0.00	150.02	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	349.31	33.64	258.68	150.02	
Anticipated crop nutrient removal	264.00	104.00	152.00	0.00	
Actual crop nutrient removal	373.83	169.28	162.23	771.28	
Nutrient balance	-24.51	-135.64	96.45	-621.26	
Applied to removed ratio	0.93	0.20	1.59	0.19	
Total harvests for the crop					1 harvests

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

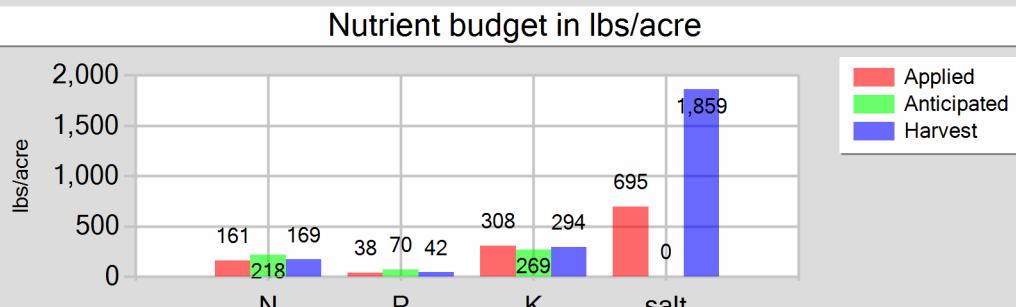
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: P3

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022



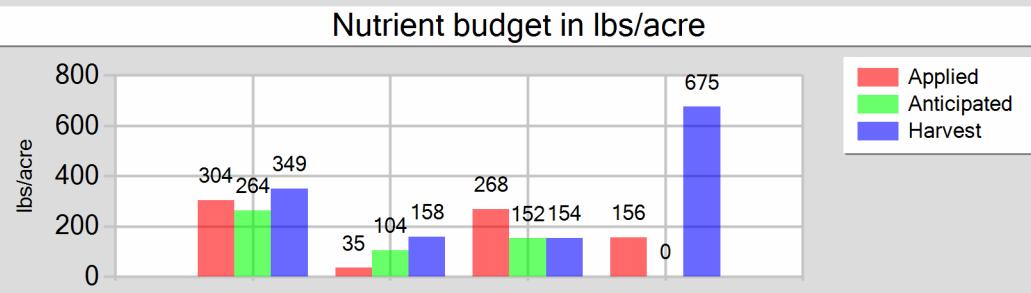
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	49,920,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,838.38 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.68 inches/acre
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	694.69	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	160.90	37.80	307.80	694.69	Process wastewater applied
Anticipated crop nutrient removal	217.60	70.40	268.80	0.00	0.00 gallons
Actual crop nutrient removal	169.47	42.37	293.54	1,859.48	0.00 acre-inches
Nutrient balance	-8.57	-4.57	14.26	-1,164.80	0.00 inches/acre
Applied to removed ratio	0.95	0.89	1.05	0.37	Total harvests for the crop
					1 harvests

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

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

P3 - 06/20/2023: Corn, silage

Field name: P3 Crop: Corn, silage Plant date: 06/20/2023



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

Fresh water applied

71,640,000.00 gallons
2,638.26 acre-inches
18.19 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

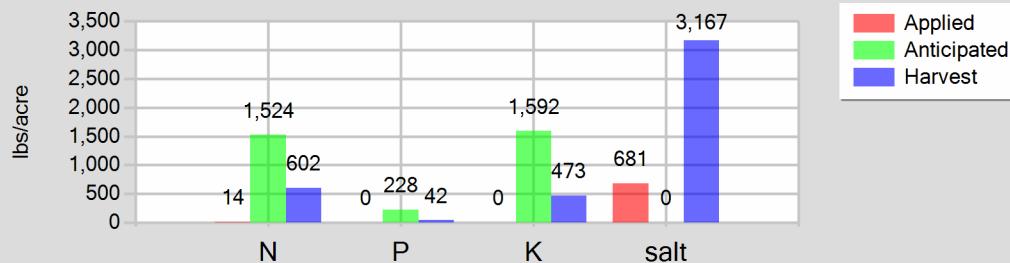
Annual Report - General Order No. R5-2007-0035

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

P4 - 01/01/2023: Alfalfa, hay

Field name: P4 Crop: Alfalfa, hay Plant date: 01/01/2023

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	0.32	0.00	0.00	681.25
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.32	0.00	0.00	681.25
Anticipated crop nutrient removal	1,524.00	228.00	1,592.00	0.00
Actual crop nutrient removal	601.96	41.58	473.25	3,167.42
Nutrient balance	-587.64	-41.58	-473.25	-2,486.17
Applied to removed ratio	0.02	0.00	0.00	0.22

Fresh water applied

108,252,000.00 gallons
3,986.55 acre-inches
26.40 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

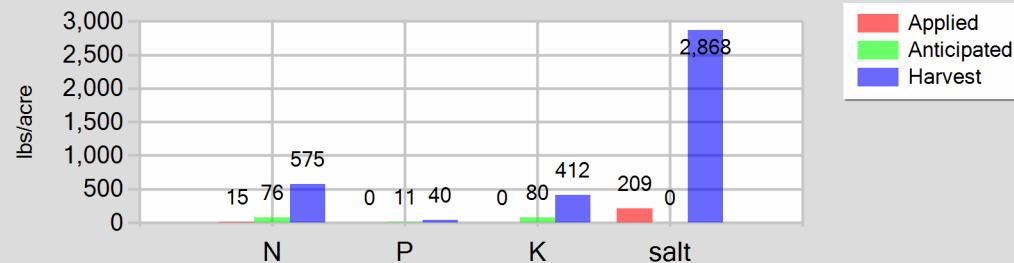
P5 - 01/01/2023: Alfalfa, hay

Field name: P5

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	104,922,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,863.92 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	24.77 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.56	0.00	0.00	209.46	Process wastewater applied
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 gallons
Total nutrients applied	14.56	0.00	0.00	209.46	0.00 acre-inches
Anticipated crop nutrient removal	76.20	11.40	79.60	0.00	0.00 inches/acre
Actual crop nutrient removal	575.00	40.38	411.54	2,867.95	Total harvests for the crop
Nutrient balance	-560.44	-40.38	-411.54	-2,658.49	1 harvests
Applied to removed ratio	0.03	0.00	0.00	0.07	

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

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

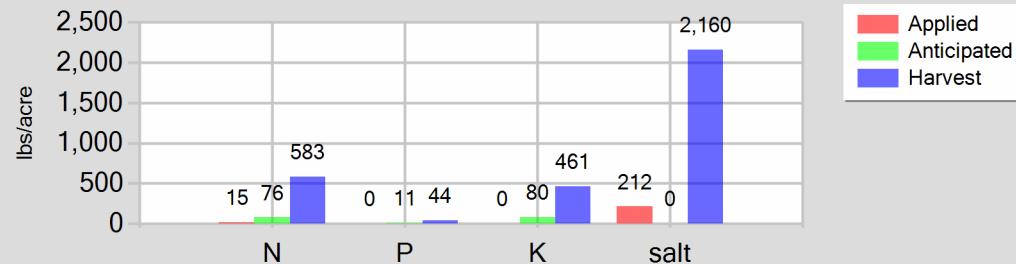
P6 - 01/01/2023: Alfalfa, hay

Field name: P6

Crop: Alfalfa, hay

Plant date: 01/01/2023

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	0.57	0.00	0.00	212.18
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.57	0.00	0.00	212.18
Anticipated crop nutrient removal	76.20	11.40	79.60	0.00
Actual crop nutrient removal	583.06	43.73	460.99	2,160.36
Nutrient balance	-568.50	-43.73	-460.99	-1,948.18
Applied to removed ratio	0.02	0.00	0.00	0.10

Fresh water applied

104,922,000.00 gallons
3,863.92 acre-inches
25.09 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

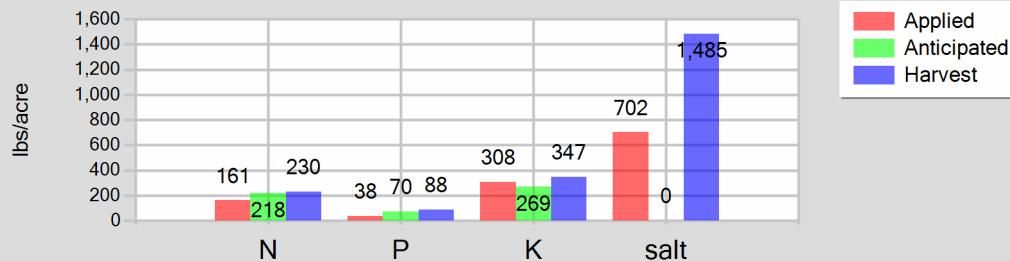
P9 - 11/16/2022: Wheat, silage, boot stage

Field name: P9

Crop: Wheat, silage, boot stage

Plant date: 11/16/2022

Nutrient budget in lbs/acre



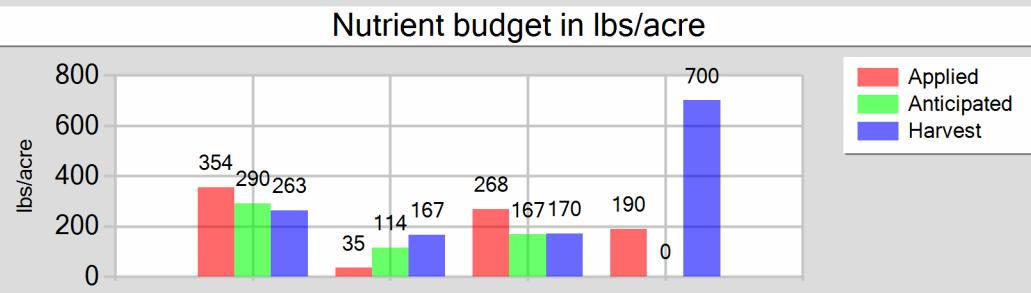
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	57,000,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,099.12 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.55 inches/acre
Dry manure	153.90	37.80	307.80	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	701.87	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	160.90	37.80	307.80	701.87	Process wastewater applied
Anticipated crop nutrient removal	217.60	70.40	268.80	0.00	0.00 gallons
Actual crop nutrient removal	229.61	88.31	347.36	1,485.39	0.00 acre-inches
Nutrient balance	-68.71	-50.51	-39.56	-783.52	0.00 inches/acre
Applied to removed ratio	0.70	0.43	0.89	0.47	Total harvests for the crop
					1 harvests

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

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

P9 - 06/20/2023: Corn, silage

Field name: P9 Crop: Corn, silage Plant date: 06/20/2023



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

Fresh water applied

82,200,000.00 gallons
3,027.15 acre-inches
22.42 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

NUTRIENT ANALYSES**A. MANURE ANALYSES**

22H2035

Sample and source description: 22H2035

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

Moisture: 29.0 %

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

23F0711

Sample and source description: 23F0711

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

Moisture: 44.3 %

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

23L0896

Sample and source description: 23L0896

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

Moisture: 52.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	2,400.00	17,100.00							0.00
DL	0.01	0.01	0.01							10.00

B. PROCESS WASTEWATER ANALYSES

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

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

22J1606

Sample and source description: 22J1606

Sample date: 10/26/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	395.00	313.00	0.00	1.60	58.20	1,130.00	186.00	133.00	353.00	3,340.00	0.00	102.00	623.00		4,630
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

23A0754

Sample and source description: 23A0754

Sample date: 01/30/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	702.00	468.00	0.00	1.50	67.90	1,080.00									5,000
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23C0855

Sample and source description: 23C0855

Sample date: 03/28/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	381.00	297.00	0.00	1.40	42.40	682.00									3,020
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23F0718

Sample and source description: 23F0718

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	212.00	153.00	0.00	0.70	27.20	400.00	76.90	49.50	102.00	1,350.00	0.00	31.10	197.00		1,600
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

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

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

23H1008

Sample and source description: 23H1008

Sample date: 08/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	319.00	271.00	0.00	0.70	50.70	565.00									2,950
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23L0906

Sample and source description: 23L0906

Sample date: 12/13/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	316.00	294.00	0.00	0.70	71.10	575.00									3,320
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

C. FRESH WATER ANALYSES**Arvin Edison****23H1009**

Sample description: 23H1009

Sample date: 08/09/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.20										63.00	
DL	0.01										10.00	

Buena Well

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

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

Buena Well

22G1546

Sample description: 22G1546

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

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

Dom 1

23H1012

Sample description: 23H1012

Sample date: 08/09/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										590.00	
DL	0.01										10.00	

Heifer DW

23L1087

Sample description: 23L1087

Sample date: 12/18/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.10			36.30	0.70	81.00	130.00	0.00	69.30	24.00	492.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

N Canal

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

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

N Canal**23H1009**Sample description: 23H1009Sample date: 08/09/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.10										62.20	
DL	0.01										10.00	

Well 2**22G1546**Sample description: 22G1546Sample date: 07/21/2022 Source of analysis: Lab analysis

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

Well 8**23L0907**Sample description: 23L0907Sample date: 12/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										607.00	
DL	0.01										10.00	

Well P-6

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

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

Well P-6

22G1546

Sample description: 22G1546Sample date: 07/20/2022 Source of analysis: Lab analysis

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

Well P-9

22G1546

Sample description: 22G1546Sample date: 07/20/2022 Source of analysis: Lab analysis

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

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

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

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

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 63.1 %

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

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

23J0377

Sample and source description: 23J0377

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

Moisture: 35.4 %

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

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

2-420-238

Sample and source description: 2-420-238

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

Moisture: 11.9 %

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

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

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 68.9 %

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

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

23J0377

Sample and source description: 23J0377

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

Moisture: 37.8 %

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 71.6 %

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

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

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

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

23J0377

Sample and source description: 23J0377

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

Moisture: 36.8 %

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 71.6 %

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

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

23L0905

Sample and source description: 23L0905

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

Moisture: 26.7 %

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

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

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 61.6 %

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

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

23L0905

Sample and source description: 23L0905

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

Moisture: 31.3 %

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 59.8 %

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

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

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

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

23L0905

Sample and source description: 23L0905

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

Moisture: 32.2 %

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 72.9 %

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

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

23J0377

Sample and source description: 23J0377

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

Moisture: 30.6 %

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

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

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 74.3 %

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

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

23L0905

Sample and source description: 23L0905

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

Moisture: 33.8 %

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 69.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	2,700.00	10,300.00		13.80
DL	0.01	0.01	0.01		0.01

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

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

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

23L0905

Sample and source description: 23L0905

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

Moisture: 32.1 %

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 78.4 %

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

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

23L0905

Sample and source description: 23L0905

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

Moisture: 35.0 %

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

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

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 69.3 %

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

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

23J0377

Sample and source description: 23J0377

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

Moisture: 40.1 %

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 76.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	2,200.00	7,000.00		10.90
DL	0.01	0.01	0.01		0.01

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

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

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

23J0377

Sample and source description: 23J0377

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

Moisture: 37.4 %

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

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

2-420-233

Sample and source description: 2-420-233

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

Moisture: 6.8 %

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

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

2-420-237

Sample and source description: 2-420-237

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

Moisture: 10.3 %

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

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

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

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

23J0377

Sample and source description: 23J0377

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

Moisture: 42.1 %

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

P1 - 01/01/2023: Alfalfa, hay

2-420-231

Sample and source description: 2-420-231

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

Moisture: 8.2 %

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 61.0 %

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

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

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

P10 - 06/24/2023: Corn, silage

23J0377

Sample and source description: 23J0377

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

Moisture: 34.2 %

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

P11 - 01/01/2023: Alfalfa, hay

2-420-239

Sample and source description: 2-420-239

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

Moisture: 9.9 %

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

P12 - 01/01/2023: Alfalfa, hay

2-420-240

Sample and source description: 2-420-240

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

Moisture: 93.3 %

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

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

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 53.6 %

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

P2 - 06/19/2023: Corn, silage

23J0377

Sample and source description: 23J0377

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

Moisture: 27.1 %

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 53.8 %

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

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

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

P3 - 06/20/2023: Corn, silage

23J0377

Sample and source description: 23J0377

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

Moisture: 30.8 %

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

P4 - 01/01/2023: Alfalfa, hay

2-420-234

Sample and source description: 2-420-234

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

Moisture: 7.0 %

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

P5 - 01/01/2023: Alfalfa, hay

2-420-235

Sample and source description: 2-420-235

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

Moisture: 7.6 %

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

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

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

P6 - 01/01/2023: Alfalfa, hay

2-420-236

Sample and source description: 2-420-236

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

Moisture: 5.9 %

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

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

23F0939

Sample and source description: 23F0939

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

Moisture: 56.5 %

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

P9 - 06/20/2023: Corn, silage

23L0905

Sample and source description: 23L0905

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

Moisture: 40.2 %

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

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

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

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

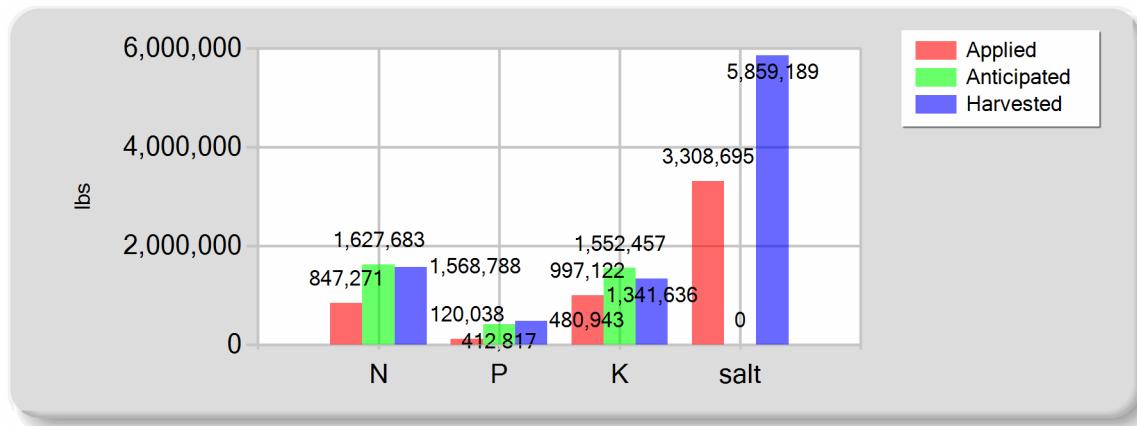
Reporting period 01/01/2023 to 12/31/2023.

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

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

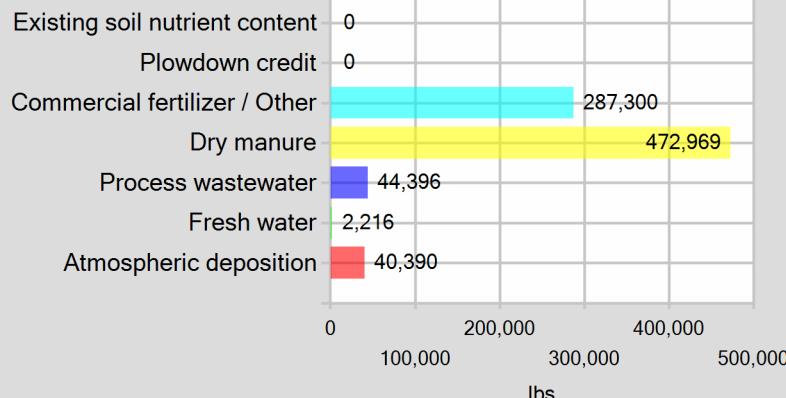


Annual Report - General Order No. R5-2007-0035

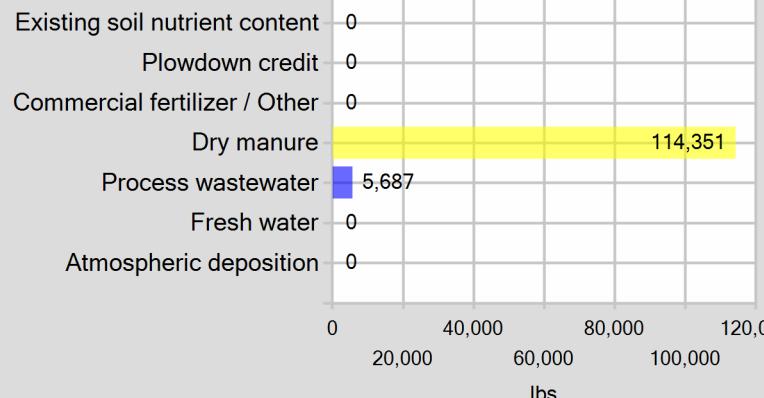
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

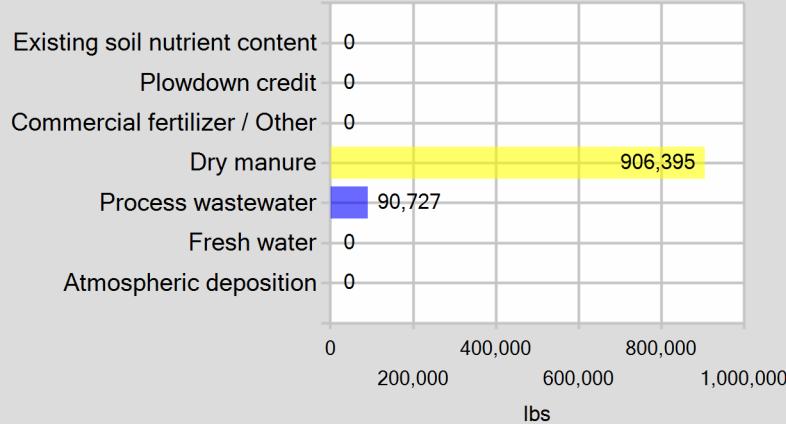
Pounds of nitrogen applied



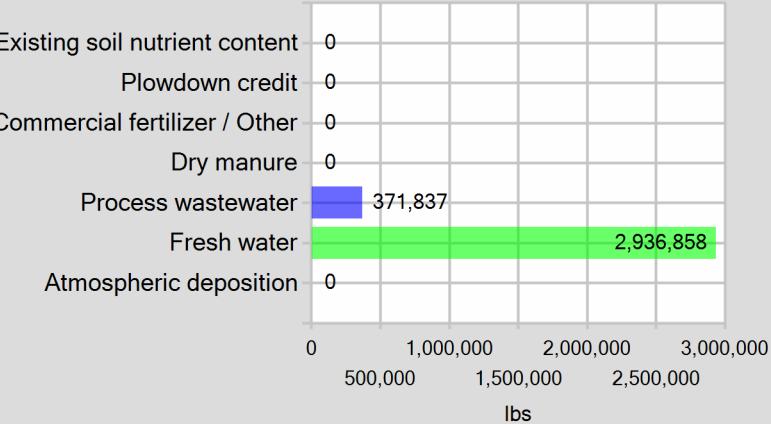
Pounds of phosphorus applied



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

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

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

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

SIGNATURE OF OWNER OF FACILITY

Richard Tillema

PRINT OR TYPE NAME

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

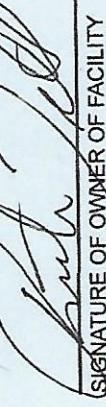
Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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


Richard Tillema

SIGNATURE OF OWNER OF FACILITY

Richard Tillema

PRINT OR TYPE NAME

6-29-24

DATE


Sam Tillema

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

6-29-24

DATE

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

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

DAIRY FACILITY INFORMATION**A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:** RichMar Farms

Physical address of dairy:

1129 E Shafter RD

Number and Street

Bakersfield

City

Kern

County

93307

Zip Code

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

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

County Assessor Parcel Number(s) for dairy facility:

X185-X200-X006-X000

X185-X270-X004-X000

X185-X270-X008-X000

X185-X310-X002-X000

X185-X332-X036-X000

X185-X341-X031-X004

B. OPERATORS

Tillema, Richard

Operator name: Tillema, RichardTelephone no.: (661) 747-2226

Landline Cellular

1129 E Shafter RD

Bakersfield

CA

Mailing Address Number and Street

City

State

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

Tillema, Richard

Legal owner name: Tillema, RichardTelephone no.: (661) 747-2226

Landline Cellular

1129 E Shafter RD

Bakersfield

CA

Mailing Address Number and Street

City

State

This owner is responsible for paying permit fees.

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

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

APPLICATION AREA**A. LIST OF LAND APPLICATION AREAS**

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

B. CROPS AND HARVESTS

Field 1



Report of Dairy Canal Water Analysis

Richmar Farms
1129 E Shafter Road
Bakersfield
00-0016047

CA 93307
08

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

Lab No.: 23H1009

Sampled By: Marty Verhoeven
Requested By: Marty Verhoeven

Submitted Date: 08/10/23

Project: 1129 E. Shafter Ave, Bakersfield
Crop ID:

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

ND = None Detected

Approved By: Marty Verhoeven
Laboratory Director\Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02

08/10/23 08:12

23H1009

WATER WORK REQUEST

Bill To:	Acct No.	Cons.
	16047	08

Purchase Order No. _____ Results Needed By _____

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

Copy to: martyverhoeven@gmail.com

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

Facility: 1129 E. Shafter Ave, Bakersfield

Date sampled: 8-9-23

Sampled by: M.V.

 QA/QC Document Copy of Chain RWQCB
DESCRIPTION OF SAMPLES

- (ARVIN)
 1. ARVIN RD 190 ~
 2. J. Concr
 3.
 4.
 5.
 6.
 7.
 8.
 9.
 10.

Sampled From: Sampling
 Sampled From: Pump Vault
 Sampled From:
 Sampled From:

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples	Drinking	No. Bottles
<input type="checkbox"/>	<input type="checkbox"/> Ag Water	<input type="checkbox"/> Wastewater
<input type="checkbox"/>	<input type="checkbox"/> Supply Water	<input type="checkbox"/> Ground Water
<input type="checkbox"/>	<input type="checkbox"/> Other	<input type="checkbox"/> Mon. Well

Analysis and Bottles Required: (Please Indicate Analysis)

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

 Other

Date Sampled	Time Sampled	Field	Received Temp °C
8-9-23	1:00	NH ₄ -N (mg/L)	1.3 / -0.6
8-9-23	1:00		2.3 / -1.1

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	M.V.	DLI	8-9-23 1:00	8-9-23 3:17 p.m.
Second	J. Goss	DLI	08/09/23 3:17p.m.	
Third	MM	DLI	8/10	8:12
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorney's fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a late damage fee of 2% per month (annually, 24%) or \$5.00 per month whichever is greater. If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (CAL). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through CAL under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. It is, however, the mediator's declaration that no legitimate dispute exists, then CAL will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorney's fees of Dellavalle Laboratory.

Invoicing Information:**Price List 2022**

Sampling Hrs	Miles	Consulting	\$	In
				Out
Amt Paid	Rec By	Check No.	Date	

Signature _____
 Sample received in cooler with ice?
 [] Yes [] No

etccupdate 2020

IR Thermometer SN: 200560729
 Correction Factor: 0°C
 Calibration Due: 9/26/2023
 Location: Laboratory

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



Report of Dairy Well Water Analysis

Richmar Farms
1129 E Shafter Road
Bakersfield
00-0016047

CA
08
93307

E-mail: martyverhoeven@gmail.com

Copy To:

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

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

* = Field NH₄-N not Taken.

ND = None Detected

Approved By: Brett M. Friedland

Laboratory Director\Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02

27
08/10/23 08:13

23H1012 ✓

WATER WORK REQUEST

Bill To:	Acct No.	Cons.
	16047	08

Purchase Order No. _____ Results Needed By _____

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

Copy to: **martyverhoeven@gmail.com**Requested by/Cell: **Marty Verhoeven/ 559-410-2420**Facility: **1129 E. Shafter Ave, Bakersfield**Date sampled **8-9-23**Sampled by **[Signature]**
 QA/QC Document Copy of Chain RWQCB
DESCRIPTION OF SAMPLES

1. **Dom 1** Sampled From: **valve (out)**
2. _____ Sampled From: _____
3. _____ Sampled From: _____
4. _____ Sampled From: _____
5. _____ Sampled From: _____
6. _____ Sampled From: _____
7. _____ Sampled From: _____
8. _____ Sampled From: _____
9. _____ Sampled From: _____
10. _____ Sampled From: _____

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavalleelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples	No. Bottles
1	1
Water Type:	
<input type="checkbox"/> Ag Water	<input type="checkbox"/> Drinking
<input type="checkbox"/> Supply Water	<input checked="" type="checkbox"/> Ground Water
<input type="checkbox"/> Other	
<input type="checkbox"/> Wastewater	
<input type="checkbox"/> Mon. Well	

Analysis and Bottles Required: (Please Indicate Analysis)

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

 Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
8-9-23	136	0	08/07
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

CHAIN OF CUSTODY

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

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

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

Invoice Information:**Price List 2022**

Sampling Hrs	Miles	Consulting	\$	In	Shipping
Amt Paid	Rec By	Check No.		Date	

Signature _____

Sample received in cooler with ice?

[] Yes [] No

etraplate 2020

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

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

DELLAVALLE[®]
L A B O R A T O R Y I N C

Report of Dairy Well Water Analysis

Richmar Farms
1129 E Shafter Road
Bakersfield
00-0016047

CA
08
93307

E-mail: martyverhoeven@gmail.com

Copy To:

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

Date Sampled	Time Sampled	EC μmhos/cm	EC mmhos/cm	Field		Total NH ₄ -N mg/L	pH at 25°C unit
				NO ₃ -N mg/L	NH ₄ -N mg/L		
1 Well 8	12/13/23 13:05	607	0.61	ND	*	8.0	

* = Field NH₄-N not Taken.

ND = None Detected

Approved By: Bart M. Frickland

Laboratory Director\Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02



Report of Dairy Well Water Analysis

Richmar Farms
1129 E Shaffer Road
Bakersfield
00-0016047

CA 93307
08

E-mail: martyverhoeven@gmail.com

Copy To:

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

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

* = Field NH₄-N not Taken.

ND = None Detected

Approved By: Brett M Friedland

Laboratory Director\Technical Manager

ELAP Certification #A1595

A2LA Certification #A440.02



12/18/23 15:30

23L1087

WATER WORK REQUEST

Bill To:	Acct No:	Cons.
	16047	08

Purchase Order No. _____ Results Needed By _____

Richmar Farms
1129 E Shafer Road
Bakersfield, CA 93307

Copy to: martyverhoeven@gmail.com

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

Facility: Tillamook Ranch

Date sampled 12/18/23

Sampled by _____

QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

- | | | |
|-----|-----------|---------------|
| 1. | Hefier DW | Sampled From: |
| 2. | | Sampled From: |
| 3. | | Sampled From: |
| 4. | | Sampled From: |
| 5. | | Sampled From: |
| 6. | | Sampled From: |
| 7. | | Sampled From: |
| 8. | | Sampled From: |
| 9. | | Sampled From: |
| 10. | | Sampled From: |

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Markelink	UDFC	12/18/23	12/18/23 1:47
Second	CFT	DUF	12/18/23	1:47
Third	BB	DUR	12/18/23	2:04
Fourth	KJG	DLI	12-18-23 15:30	

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

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (call if the dispute is not resolved at mediation, then the dispute will be submitted to binding arbitration) under California law and the FASB and APB rules. The parties will equally bear the costs of mediation or arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of a judgment, the creditor will be entitled to attorney's fees.

on arbitration, reasonable attorney's fees or Delvalve Laboratory.

<i>Inviting Information:</i>	<i>Shipping</i>		
Price List 2023	\$ _____ In		
Sampling Hrs _____ Miles _____ Consulting _____	\$ _____ Out		
Amt Paid	Rec By	Check No.	Date

Signature _____
Sample received in cooler with ice?

Sample received in cooler with ice?

cit update 2022