

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:** Triangle M Dairy

Physical address of dairy:

11302 Avenue 18 1/2

Number and Street

Chowchilla

City

Madera

County

93610

Zip Code

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

Date facility was originally placed in operation: 04/15/1954Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0023-0080-0008-0000 0023-0080-0017-0000

B. OPERATORS

McRee, Lavada

Operator name: McRee, LavadaTelephone no.: (559) 665-1643 (559) 871-1211

Landline Cellular

11302 Avenue 18 1/2

Chowchilla

CA 93610

Mailing Address Number and Street

City

State Zip Code

McRee, Michael

Operator name: McRee, MichaelTelephone no.: (559) 665-5466 (559) 871-8000

Landline Cellular

11812 Avenue 18

Chowchilla

CA 93610

Mailing Address Number and Street

City

State Zip Code

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

McRee, Lavada

Legal owner name: McRee, LavadaTelephone no.: (559) 665-1643 (559) 871-1211

Landline Cellular

11302 Avenue 18 1/2

Chowchilla

CA 93610

Mailing Address Number and Street

City

State Zip Code

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

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

McRee, Michael

Legal owner name: <u>McRee, Michael</u>	Telephone no.: <u>(559) 665-5466</u>	<u>(559) 871-8000</u>
	Landline	Cellular
11812 Avenue 18	<u>Chowchilla</u>	<u>CA</u>
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	0	104	547	350	0
Number under roof	1,655	179	0	0	0	0
Maximum number	1,725	222	148	601	418	0
Average number	1,655	179	104	547	350	0
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Holstein

Average milk production: 78 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 54,201.53 tons per reporting period

Total nitrogen from manure: 687,702.72 lbs per reporting period

After ammonia losses (30% loss applied): 481,391.90 lbs per reporting period

Total phosphorus from manure: 113,734.81 lbs per reporting period

Total potassium from manure: 325,646.45 lbs per reporting period

Total salt from manure: 820,417.80 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 64,360,000 gallons

Total nitrogen generated: 198,461.46 lbs

$$\begin{aligned}
 & 64,360,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 64,360,000 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 38,508.50 lbs

Total potassium generated: 262,385.83 lbs

Total salt generated: 1,251,245.96 lbs

D. FRESH WATER SOURCES

Source Description	Type
CWD Canal	Surface water
DW-1E	Ground water
DW-1W	Ground water
DW-25	Ground water
DW-28S	Ground water

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

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

Source Description	Type
DW-32	Ground water
DW-33N	Ground water
DW-33S	Ground water
DW-35N	Ground water
DW-36	Ground water
DW-38N	Ground water
DW-8	Ground water
H-14	Ground water
H-16	Ground water
PP-27	Ground water
PP-38	Ground water
PP-5	Ground water
PP-8	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	65	65	2	process wastewater	0023-0080-0011-0000 0023-0080-0019-0000 0023-0080-0024-0000
Field 10	18	18	2	both	0023-0080-0027-0000
Field 11	17	17	0	none	0023-0080-0027-0000
Field 2	30	30	2	process wastewater	0023-0080-0017-0000 0023-0080-0018-0000
Field 28E	72	72	2	both	0023-0070-0007-0000
Field 28W	72	72	2	both	0023-0130-0007-0000
Field 3 EW	102	102	2	both	0023-0070-0018-0000 0023-0070-0019-0000
Field 31	72	71	2	both	0023-0200-0001-0000
Field 32	72	71	2	both	0023-0200-0001-0000
Field 33	81	80	2	both	0023-0200-0001-0000
Field 34	80	80	2	both	0023-0200-0001-0000
Field 35	82	80	4	none	0023-0190-0005-0000
Field 36	80	80	4	none	0023-0190-0005-0000
Field 37	66	66	4	none	0023-0190-0005-0000
Field 38	59	59	5	none	0023-0190-0005-0000
Field 4 NS	92	92	6	process wastewater	0023-0080-0002-0000
Field 5 NS	104	104	1	process wastewater	0023-0070-0007-0000 0023-0080-0001-0000
Field 6 EW	74	74	2	process wastewater	0023-0010-0013-0000 0023-0010-0014-0000
Field 7	63	63	1	none	0023-0010-0010-0000
Field 8	74	74	1	none	0023-0010-0015-0000 0023-0010-0017-0000 0023-0010-0024-0000
Field 9	76	76	1	none	0023-0010-0018-0000 0023-0010-0019-0000
H14-15	85	85	2	manure	0023-0050-0010-0000
H16-17	73	73	2	manure	0023-0110-0002-0000

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

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

Totals for areas that were used for application	1,092	1,089	33		
Totals for areas that were not used for application	517	515	20		
Land application area totals	1,609	1,604	53		

B. CROPS AND HARVESTS

Field 1

Crop name: Field 1

11/05/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 65 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/20/2023	1,341.00 ton	Dry-weight		65.5	22,800.00	3,800.00	24,600.00		12.20
		Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)			
Anticipated harvest content		18.00	198.00	30.60	149.40	1,080.00			
Total actual harvest content		20.63	324.56	54.09	350.19	1,736.70			

05/25/2023: Tomato

Crop: Tomato Acres planted: 65 Plant date: 05/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/07/2023	4,682.00 ton	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		14.70
		Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)			
Anticipated harvest content		60.00	180.00	84.00	420.00	2,100.00			
Total actual harvest content		72.03	202.52	101.74	456.39	1,397.69			

Field 10

Crop name: Field 10

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

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

Field 10

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

Crop: Wheat, silage, soft dough Acres planted: 18 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	507.00 ton	Dry-weight		62.6	16,100.00	3,100.00	27,100.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	28.17	339.21	65.31	570.96	2,317.55

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 18 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 (%)
09/30/2023	554.00 ton	Dry-weight		63.5	14,900.00	1,100.00	4,400.00		1.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	30.78	334.77	24.71	98.86	404.42

Field 2

Field name: Field 2

11/05/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 30 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/20/2023	619.00 ton	Dry-weight		65.5	22,800.00	3,800.00	24,600.00		12.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	20.63	324.60	54.10	350.23	1,736.91

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

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

Field 2

05/26/2023: Tomato

Crop: Tomato Acres planted: 30 Plant date: 05/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/08/2023	2,161.00 <i>ton</i>	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		14.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	180.00	84.00	420.00	2,100.00
Total actual harvest content	72.03	202.53	101.74	456.40	1,397.73

Field 28E

Field name: Field 28E

12/09/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 72 Plant date: 12/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	1,823.00 <i>ton</i>	Dry-weight		73.2	19,500.00	3,200.00	25,400.00		12.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	25.32	264.64	43.43	344.71	1,723.55

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 72 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,053.00 <i>ton</i>	Dry-weight		67.2	14,400.00	700.00	3,000.00		2.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	28.51	269.35	13.09	56.12	411.51

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

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

Field 28W

Field name: Field 28W

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

Crop: Wheat, silage, soft dough Acres planted: 72 Plant date: 12/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	1,823.00 ton	Dry-weight		52.3	11,600.00	2,200.00	16,100.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	25.32	280.20	53.14	388.89	2,657.02

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 72 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 (%)
10/20/2023	2,053.00 ton	Dry-weight		66.8	14,400.00	800.00	4,900.00		2.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	28.51	272.64	15.15	92.77	397.60

Field 3 EW

Field name: Field 3 EW

11/03/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 102 Plant date: 11/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/12/2023	1,928.00 ton	Dry-weight		65.5	22,800.00	4,200.00	31,700.00		12.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	18.90	297.37	54.78	413.44	1,591.17

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

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

Field 3 EW

05/18/2023: Tomato

Crop: Tomato Acres planted: 102 Plant date: 05/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/30/2023	9,198.00 <i>ton</i>	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		14.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	180.00	84.00	420.00	2,100.00
Total actual harvest content	90.18	253.54	127.37	571.36	1,749.78

Field 31

Field name: Field 31

11/23/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 71 Plant date: 11/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,302.00 <i>ton</i>	Dry-weight		59.9	26,400.00	4,200.00	33,500.00		12.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	18.34	388.27	61.77	492.69	1,764.85

06/08/2023: Tomato

Crop: Tomato Acres planted: 71 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 (%)
10/21/2023	3,998.00 <i>ton</i>	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		14.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	180.00	84.00	420.00	2,100.00
Total actual harvest content	56.31	158.32	79.53	356.78	1,092.64

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

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

Field 32

Field name: Field 32

11/23/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 71 Plant date: 11/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,302.00 ton	Dry-weight		59.9	26,400.00	4,200.00	33,500.00		12.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	18.34	388.27	61.77	492.69	1,764.85

06/08/2023: Tomato

Crop: Tomato Acres planted: 71 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 (%)
10/21/2023	3,998.00 ton	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		14.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	180.00	84.00	420.00	2,100.00
Total actual harvest content	56.31	158.32	79.53	356.78	1,092.64

Field 33

Field name: Field 33

12/23/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 80 Plant date: 12/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/13/2023	1,343.00 ton	Dry-weight		62.0	17,000.00	2,900.00	22,500.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	16.79	216.89	37.00	287.07	1,377.92

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

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

Field 33

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,792.00 ton	Dry-weight		62.7	15,100.00	1,000.00	3,700.00		2.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	34.90	393.13	26.04	96.33	624.85

Field 34

Field name: Field 34

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

Crop: Wheat, silage, soft dough Acres planted: 80 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/13/2023	1,343.00 ton	Dry-weight		62.0	17,000.00	2,900.00	22,500.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	16.79	216.89	37.00	287.07	1,377.92

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/27/2023	2,792.00 ton	Dry-weight		62.3	14,400.00	900.00	3,500.00		2.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	34.90	378.93	23.68	92.10	552.61

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

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

Field 35

Field name: Field 35

11/12/2020: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 80 Plant date: 11/12/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	758.00 ton	Dry-weight		61.2	9,300.00	3,300.00	29,600.00		13.60
06/06/2023	140.00 ton	Dry-weight		10.3	36,320.00	2,500.00	25,000.00		5.90
07/05/2023	165.00 ton	Dry-weight		11.3	36,640.00	2,600.00	24,000.00		5.60
07/05/2023	171.00 ton	Dry-weight		11.3	36,640.00	2,600.00	24,000.00		5.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,480.00
Total actual harvest content	15.43	455.40	51.48	474.94	1,602.43

Field 36

Field name: Field 36

11/10/2020: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 80 Plant date: 11/10/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/14/2023	156.00 ton	Dry-weight		11.6	38,400.00	2,700.00	26,000.00		5.40
07/06/2023	165.00 ton	Dry-weight		11.1	38,720.00	2,600.00	28,000.00		5.40
09/03/2023	155.00 ton	Dry-weight		12.2	37,440.00	2,800.00	28,000.00		5.50
10/11/2023	758.00 ton	Dry-weight		56.4	14,700.00	1,100.00	8,900.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,480.00
Total actual harvest content	15.43	523.21	37.46	361.11	1,075.31

Field 37

Field name: Field 37

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

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

Field 37

11/15/2019: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 66 Plant date: 11/15/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/31/2023	130.00 <i>ton</i>	Dry-weight		10.2	36,160.00	2,300.00	22,000.00		5.20
06/30/2023	135.00 <i>ton</i>	Dry-weight		11.9	34,880.00	2,200.00	21,000.00		5.50
08/29/2023	121.00 <i>ton</i>	Dry-weight		10.5	35,040.00	2,200.00	22,000.00		5.90
11/07/2023	387.00 <i>ton</i>	Dry-weight		57.0	15,300.00	1,200.00	7,000.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,480.00
Total actual harvest content	11.71	445.77	29.34	261.01	959.04

Field 38

Field name: Field 38

11/15/2019: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 59 Plant date: 11/15/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/29/2023	82.00 <i>ton</i>	Dry-weight		11.9	35,040.00	2,400.00	22,000.00		5.10
07/29/2023	81.00 <i>ton</i>	Dry-weight		10.5	35,520.00	2,200.00	24,000.00		6.00
08/27/2023	81.00 <i>ton</i>	Dry-weight		9.4	36,640.00	2,300.00	21,000.00		5.70
09/28/2023	82.00 <i>ton</i>	Dry-weight		9.3	40,960.00	2,600.00	22,000.00		6.00
11/07/2023	328.00 <i>ton</i>	Dry-weight		57.0	15,300.00	1,200.00	7,000.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,480.00
Total actual harvest content	11.08	440.66	29.30	254.03	928.76

Field 4 NS

Field name: Field 4 NS

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

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

Field 4 NS

11/10/2019: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 92 Plant date: 11/10/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/28/2023	130.00 ton	Dry-weight		11.3	36,160.00	2,500.00	31,000.00		5.50
06/25/2023	136.00 ton	Dry-weight		11.7	33,920.00	2,500.00	28,000.00		5.90
07/22/2023	140.00 ton	Dry-weight		9.8	33,920.00	2,400.00	30,000.00		6.30
08/02/2023	141.00 ton	Dry-weight		11.6	36,160.00	2,400.00	30,000.00		5.90
09/12/2023	250.00 ton	Dry-weight		61.2	31,200.00	2,930.00	30,500.00		13.80
09/12/2023	248.00 ton	Dry-weight		44.6	34,600.00	2,780.00	27,900.00		13.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,480.00
Total actual harvest content	11.36	539.43	40.37	462.10	1,312.96

Field 5 NS

Field name: Field 5 NS

05/10/2023: Tomato

Crop: Tomato Acres planted: 104 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	7,899.00 ton	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		14.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	180.00	84.00	420.00	2,100.00
Total actual harvest content	75.95	213.55	107.27	481.23	1,473.77

Field 6 EW

Field name: Field 6 EW

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

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

Field 6 EW

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

Crop: Wheat, silage, soft dough Acres planted: 74 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	1,536.00 <i>ton</i>	Dry-weight		60.0	15,400.00	2,700.00	24,200.00		12.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	20.76	255.72	44.83	401.85	2,025.86

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 74 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	2,100.00 <i>ton</i>	Dry-weight		60.0	15,700.00	1,200.00	4,900.00		2.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	28.38	356.43	27.24	111.24	454.05

Field 7

Field name: Field 7

11/07/2014: Almond, in shell

Crop: Almond, in shell Acres planted: 63 Plant date: 11/07/2014

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	51.00 <i>ton</i>	Dry-weight		4.0	68,419.00	10,526.00	52,628.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.00	130.00	20.00	99.00	44.00
Total actual harvest content	0.81	106.34	16.36	81.80	69.94

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

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

Field 8

Field name: Field 8

01/10/2017: Almond, in shell

Crop: Almond, in shell Acres planted: 74 Plant date: 01/10/2017

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/28/2023	92.20 ton	Dry-weight		4.0	68,419.00	10,526.00	52,628.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.00	130.00	20.00	99.00	44.00
Total actual harvest content	1.25	163.67	25.18	125.90	107.65

Field 9

Field name: Field 9

01/08/2017: Almond, in shell

Crop: Almond, in shell Acres planted: 76 Plant date: 01/08/2017

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/30/2023	92.00 ton	Dry-weight		4.0	68,419.00	10,526.00	52,628.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.00	130.00	20.00	99.00	44.00
Total actual harvest content	1.21	159.02	24.46	122.32	104.59

H14-15

Field name: H14-15

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

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

H14-15

10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 85 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/12/2023	1,115.00 <i>ton</i>	Dry-weight		73.2	20,800.00	3,800.00	24,600.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	13.12	146.25	26.72	172.96	766.39

05/08/2023: Tomato

Crop: Tomato Acres planted: 85 Plant date: 05/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	2,413.00 <i>ton</i>	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		14.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	55.00	165.00	77.00	385.00	1,925.00
Total actual harvest content	28.39	79.82	40.10	179.87	550.85

H16-17Field name: H16-17

10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 73 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/13/2023	1,000.00 <i>ton</i>	Dry-weight		56.7	17,300.00	3,500.00	21,000.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	13.70	205.23	41.52	249.12	1,174.44

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

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

H16-17

06/01/2023: Tomato

Crop: Tomato Acres planted: 73 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/14/2023	1,662.00 <i>ton</i>	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		14.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	55.00	165.00	77.00	385.00	1,925.00
Total actual harvest content	22.77	64.01	32.16	144.25	441.77

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

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

NUTRIENT BUDGET**A. LAND APPLICATIONS**

Field 1 - 11/05/2022: Wheat, silage, soft dough

Field name: Field 1

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/05/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	276.39	40.16	499.16	2,292.44	3,600,000.00 gal
Application event totals		276.39	40.16	499.16	2,292.44	

Field 1 - 05/25/2023: Tomato

Field name: Field 1

Crop: Tomato

Plant date: 05/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2023	Tow-Line Sprinkler Lagoon Application	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	114.99	28.21	120.54	525.04	2,880,000.00 gal
Application event totals		114.99	28.21	120.54	525.04	
09/30/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	102.00	0.00	0.00	0.00	
Can-17 Application	Liquid commercial fertilizer	43.00	0.00	0.00	0.00	
DW-1E	Ground water	4.88	0.00	0.00	439.65	18,816,000.00 gal
DW-1W	Ground water	7.85	0.00	0.00	516.96	18,816,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	31.40	18,816,000.00 gal
Application event totals		157.73	0.00	0.00	988.02	

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

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

Field 10 - 11/28/2022: Wheat, silage, soft dough

Field name: Field 10

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	267.79	89.90	478.20	5,802.16	180.00 ton
Application event totals		267.79	89.90	478.20	5,802.16	
11/10/2022	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
Uan-32 Fertilizer @ Planting	Liquid commercial fertilizer	15.00	0.00	0.00	0.00	
Application event totals		15.00	0.00	0.00	0.00	
04/15/2023	Total Sub-Surface Irrigations	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
DW-1E	Ground water	1.18	0.00	0.00	106.32	1,260,000.00 gal
DW-1W	Ground water	1.90	0.00	0.00	125.01	1,260,000.00 gal
Application event totals		3.08	0.00	0.00	231.32	

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

Field name: Field 10

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	103.81	25.47	108.82	474.00	720,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	14.68	2,436,000.00 gal
Application event totals		103.81	25.47	108.82	488.68	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pop-Up Starter	Liquid commercial fertilizer	4.00	0.00	0.00	0.00	
Uan-32 Fertilizer @ Planting	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		34.00	0.00	0.00	0.00	
07/06/2023	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
CWD Canal	Surface water	0.00	0.00	0.00	13.01	2,158,800.00 gal
Application event totals		0.00	0.00	0.00	13.01	
07/18/2023	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
Blended Lg and Fresh Water Application	Process wastewater	103.81	25.47	108.82	474.00	720,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	13.16	2,184,000.00 gal
Application event totals		103.81	25.47	108.82	487.16	
07/30/2023	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
CWD Canal	Surface water	0.00	0.00	0.00	12.30	2,041,200.00 gal
Application event totals		0.00	0.00	0.00	12.30	
08/11/2023	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
Blended Lg and Fresh Water Application	Process wastewater	133.52	22.16	195.61	1,168.30	720,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	12.66	2,100,000.00 gal
Application event totals		133.52	22.16	195.61	1,180.96	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	0.00	0.00	0.00	12.81	2,125,200.00 gal
Application event totals		0.00	0.00	0.00	12.81	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	0.00	0.00	0.00	12.15	2,016,000.00 gal
Application event totals		0.00	0.00	0.00	12.15	
09/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	0.00	0.00	0.00	12.15	2,016,000.00 gal
Application event totals		0.00	0.00	0.00	12.15	

Field 2 - 11/05/2022: Wheat, silage, soft dough

Field name:	Field 2	Plant date:	11/05/2022			
Crop:	Wheat, silage, soft dough					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/10/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	279.46	40.61	504.71	2,317.91	1,680,000.00 gal
Application event totals		279.46	40.61	504.71	2,317.91	

Field 2 - 05/26/2023: Tomato

Field name:	Field 2	Plant date:	05/26/2023
Crop:	Tomato		

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

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

Field 2 - 05/26/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/16/2023	Tow-Line Sprinkler Lagoon Application	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	62.89	15.94	91.33	496.69	1,440,000.00 gal
Application event totals		62.89	15.94	91.33	496.69	
10/01/2023	Total Sub-Surface Irrigations	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
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	136.00	0.00	0.00	0.00	
Can-17 Application	Liquid commercial fertilizer	43.00	0.00	0.00	0.00	
DW-1E	Ground water	4.91	0.00	0.00	442.27	8,736,000.00 gal
DW-1W	Ground water	7.90	0.00	0.00	520.03	8,736,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	31.59	8,736,000.00 gal
Application event totals		191.81	0.00	0.00	993.90	

Field 28E - 12/09/2022: Wheat, silage, soft dough

Field name: Field 28E

Crop: Wheat, silage, soft dough Plant date: 12/09/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/26/2023	Tow-Line Sprinkler Lagoon Application	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	207.62	50.94	217.64	947.99	5,760,000.00 gal
Application event totals		207.62	50.94	217.64	947.99	
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
DW-28S	Ground water	0.99	0.00	0.00	234.79	9,084,000.00 gal
Application event totals		0.99	0.00	0.00	234.79	

Field 28E - 06/15/2023: Corn, silage

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

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

Field 28E - 06/15/2023: Corn, silage

Field name: Field 28E

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-28S	Ground water	0.97	0.00	0.00	229.52	8,880,000.00 gal
Application event totals		0.97	0.00	0.00	229.52	
06/14/2023	Broadcast/incorporate	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 Application	Corral solids	225.52	28.94	72.00	0.00	720.00 ton
Application event totals		225.52	28.94	72.00	0.00	
06/15/2023	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
Pop-Up Starter	Liquid commercial fertilizer	4.00	0.00	0.00	0.00	
Uan-32 Fertilizer @ Planting	Liquid commercial fertilizer	35.00	0.00	0.00	0.00	
Application event totals		39.00	0.00	0.00	0.00	
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
CWD Canal	Surface water	0.00	0.00	0.00	13.02	8,640,000.00 gal
Application event totals		0.00	0.00	0.00	13.02	
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
DW-28S	Ground water	0.91	0.00	0.00	216.18	8,364,000.00 gal
Application event totals		0.91	0.00	0.00	216.18	

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

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

Field 28E - 06/15/2023: 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
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
CWD Canal	Surface water	0.00	0.00	0.00	12.89	8,556,000.00 gal
Application event totals		30.00	0.00	0.00	12.89	
08/31/2023	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
DW-28S	Ground water	0.94	0.00	0.00	223.31	8,640,000.00 gal
Application event totals		0.94	0.00	0.00	223.31	
09/12/2023	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
CWD Canal	Surface water	0.00	0.00	0.00	12.84	8,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.84	
09/24/2023	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
DW-28S	Ground water	0.93	0.00	0.00	221.14	8,556,000.00 gal
Application event totals		0.93	0.00	0.00	221.14	
10/06/2023	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
CWD Canal	Surface water	0.00	0.00	0.00	12.84	8,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.84	

Field 28W - 12/10/2022: Wheat, silage, soft dough

Field name:	Field 28W	Plant date:	12/10/2022
Crop:	Wheat, silage, soft dough		
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 28W - 12/10/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/28/2023	Tow-Line Sprinkler Lagoon Application	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	207.62	50.94	217.64	947.99	5,760,000.00 gal
Application event totals		207.62	50.94	217.64	947.99	
04/20/2023	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
DW-28S	Ground water	0.99	0.00	0.00	235.72	9,120,000.00 gal
Application event totals		0.99	0.00	0.00	235.72	

Field 28W - 06/14/2023: Corn, silage

Field name:	Field 28W	Plant date:	06/14/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/06/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	225.52	28.94	72.00	0.00	720.00 ton
Application event totals		225.52	28.94	72.00	0.00	
06/01/2023	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
DW-28S	Ground water	0.94	0.00	0.00	223.31	8,640,000.00 gal
Application event totals		0.94	0.00	0.00	223.31	
06/14/2023	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
Pop-Up Starter	Liquid commercial fertilizer	4.00	0.00	0.00	0.00	
Uan-32 Fertilizer @ Planting	Liquid commercial fertilizer	35.00	0.00	0.00	0.00	
Application event totals		39.00	0.00	0.00	0.00	

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

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

Field 28W - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	0.00	0.00	0.00	13.02	8,640,000.00 gal
Application event totals		0.00	0.00	0.00	13.02	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-28S	Ground water	0.95	0.00	0.00	224.24	8,676,000.00 gal
Application event totals		0.95	0.00	0.00	224.24	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
CWD Canal	Surface water	0.00	0.00	0.00	13.02	8,640,000.00 gal
Application event totals		30.00	0.00	0.00	13.02	
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
DW-28S	Ground water	0.93	0.00	0.00	220.21	8,520,000.00 gal
Application event totals		0.93	0.00	0.00	220.21	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	0.00	0.00	0.00	12.84	8,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.84	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-28S	Ground water	0.94	0.00	0.00	223.31	8,640,000.00 gal
Application event totals		0.94	0.00	0.00	223.31	

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

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

Field 28W - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
CWD Canal	Surface water	0.00	0.00	0.00	13.20
Application event totals		0.00	0.00	0.00	13.20
					8,760,000.00 gal

Field 3 EW - 11/03/2022: Wheat, silage, soft dough

Field name:	Field 3 EW	Plant date:	11/03/2022		
Crop:	Wheat, silage, soft dough				
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/25/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure Application	Corral solids	214.23	71.92	382.56	4,641.73
Application event totals		214.23	71.92	382.56	4,641.73
11/03/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Blended Lg and Fresh Water Application	Process wastewater	140.90	20.48	254.47	1,168.69
Application event totals		140.90	20.48	254.47	1,168.69
03/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Blended Lg and Fresh Water Application	Process wastewater	36.64	8.99	38.41	167.29
Application event totals		36.64	8.99	38.41	167.29

Field 3 EW - 05/18/2023: Tomato

Field name:	Field 3 EW	Plant date:	05/18/2023
Crop:	Tomato		

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

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

Field 3 EW - 05/18/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/08/2023	Tow-Line Sprinkler Lagoon Application	Standing water	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	146.56	35.96	153.63	669.17	5,760,000.00 gal
Application event totals		146.56	35.96	153.63	669.17	
09/30/2023	Total Sub-Surface Irrigations	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
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	136.00	0.00	0.00	0.00	
Can-17 Application	Liquid commercial fertilizer	47.00	0.00	0.00	0.00	
CWD Canal	Surface water	0.00	0.00	0.00	94.45	88,800,000.00 gal
Application event totals		183.00	0.00	0.00	94.45	

Field 31 - 11/23/2022: Wheat, silage, soft dough

Field name: Field 31

Crop: Wheat, silage, soft dough

Plant date: 11/23/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/25/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	264.02	88.64	471.46	5,720.44	700.00 ton
Application event totals		264.02	88.64	471.46	5,720.44	
04/10/2023	Subsurface (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 Water Application	Process wastewater	26.57	6.74	38.59	209.87	1,440,000.00 gal
DW-32	Ground water	4.87	0.00	0.00	303.32	3,540,000.00 gal
DW-33S	Ground water	2.54	0.00	0.00	231.66	4,500,000.00 gal
Application event totals		33.98	6.74	38.59	744.85	

Field 31 - 06/08/2023: Tomato

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

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

Field 31 - 06/08/2023: Tomato

Field name: Field 31

Crop: Tomato

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/14/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	180.00	0.00	0.00	0.00
DW-32	Ground water	27.72	0.00	0.00	1,727.37
DW-33N	Ground water	19.12	0.00	0.00	1,245.41
CWD Canal	Surface water	0.00	0.00	0.00	30.80
Application event totals		226.85	0.00	0.00	3,003.59

Field 32 - 11/23/2022: Wheat, silage, soft dough

Field name: Field 32

Crop: Wheat, silage, soft dough

Plant date: 11/23/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/25/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure Application	Corral solids	264.02	88.64	471.46	5,720.44
Application event totals		264.02	88.64	471.46	5,720.44
04/13/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Blended Lg and Fresh Water Application	Process wastewater	26.57	6.74	38.59	209.87
DW-32	Ground water	4.87	0.00	0.00	303.32
DW-33N	Ground water	3.36	0.00	0.00	233.42
Application event totals		34.80	6.74	38.59	746.61

Field 32 - 06/08/2023: Tomato

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

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

Field 32 - 06/08/2023: Tomato

Field name: Field 32

Crop: Tomato

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/14/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	180.00	0.00	0.00	0.00
DW-32	Ground water	28.38	0.00	0.00	1,768.50
DW-33N	Ground water	19.58	0.00	0.00	1,360.94
CWD Canal	Surface water	0.00	0.00	0.00	31.54
Application event totals		227.96	0.00	0.00	3,160.98

Field 33 - 12/23/2022: Wheat, silage, soft dough

Field name: Field 33

Crop: Wheat, silage, soft dough

Plant date: 12/23/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/10/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure Application	Corral solids	133.90	44.95	239.10	2,901.08
Application event totals		133.90	44.95	239.10	2,901.08
01/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Blended Lg and Fresh Water Application	Process wastewater	46.72	11.46	48.97	213.30
Application event totals		46.72	11.46	48.97	213.30
03/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Blended Lg and Fresh Water Application	Process wastewater	62.29	15.28	65.29	284.40
Application event totals		62.29	15.28	65.29	284.40

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

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

Field 33 - 12/23/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/20/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-33N	Ground water	4.13	0.00	0.00	286.86	4,902,000.00 gal
DW-33S	Ground water	2.45	0.00	0.00	223.97	4,902,000.00 gal
Application event totals		6.58	0.00	0.00	510.83	

Field 33 - 06/20/2023: Corn, silage

Field name: Field 33

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	225.52	28.94	72.00	0.00	800.00 ton
Application event totals		225.52	28.94	72.00	0.00	
06/08/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-33N	Ground water	3.99	0.00	0.00	277.38	4,740,000.00 gal
DW-33S	Ground water	2.37	0.00	0.00	216.57	4,740,000.00 gal
Application event totals		6.36	0.00	0.00	493.95	
06/20/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer @ Planting	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
Pop-Up Starter	Liquid commercial fertilizer	4.00	0.00	0.00	0.00	
Application event totals		24.00	0.00	0.00	0.00	

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

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

Field 33 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/18/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
DW-33N	Ground water	19.40	0.00	0.00	1,348.28	23,040,000.00 gal
DW-33S	Ground water	11.54	0.00	0.00	1,052.67	23,040,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	31.24	23,040,000.00 gal
Application event totals		60.93	0.00	0.00	2,432.20	

Field 34 - 11/28/2022: Wheat, silage, soft dough

Field name: Field 34

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/10/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	133.90	44.95	239.10	2,901.08	400.00 ton
Application event totals		133.90	44.95	239.10	2,901.08	
02/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	70.07	17.19	73.45	319.95	2,160,000.00 gal
Application event totals		70.07	17.19	73.45	319.95	
04/23/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	35.37	8.97	51.37	279.39	2,160,000.00 gal
DW-35N	Ground water	7.42	0.00	0.00	398.85	4,680,000.00 gal
DW-33S	Ground water	2.34	0.00	0.00	213.82	4,680,000.00 gal
Application event totals		45.14	8.97	51.37	892.06	

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

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

Field 34 - 06/21/2023: Corn, silage

Field name: Field 34

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	225.52	28.94	72.00	0.00	800.00 ton
Application event totals		225.52	28.94	72.00	0.00	
06/23/2023	Subsurface (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
Blended Lg and Fresh Water Application	Process wastewater	70.75	17.94	102.74	558.78	4,320,000.00 gal
DW-33S	Ground water	0.90	0.00	0.00	82.24	1,800,000.00 gal
DW-35N	Ground water	2.85	0.00	0.00	153.40	1,800,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	2.44	1,800,000.00 gal
Application event totals		74.50	17.94	102.74	796.86	
06/21/2023	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
Pop-Up Starter	Liquid commercial fertilizer	4.00	0.00	0.00	0.00	
Uan-32 Fertilizer @ Planting	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
Application event totals		24.00	0.00	0.00	0.00	
08/02/2023	Total Sub-Surface Irrigations	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
DW-35N	Ground water	36.53	0.00	0.00	1,963.55	23,040,000.00 gal
DW-33S	Ground water	11.54	0.00	0.00	1,052.67	23,040,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	31.24	23,040,000.00 gal
Application event totals		48.07	0.00	0.00	3,047.46	

Field 35 - 11/12/2020: Alfalfa, hay

Field name: Field 35

Crop: Alfalfa, hay

Plant date: 11/12/2020

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

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

Field 35 - 11/12/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/25/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
DW-35N	Ground water	49.01	0.00	0.00	2,634.42
DW-36	Ground water	48.69	0.00	0.00	2,715.04
CWD Canal	Surface water	0.00	0.00	0.00	41.92
Application event totals		97.70	0.00	0.00	5,391.38

Field 36 - 11/10/2020: Alfalfa, hay

Field name: Field 36

Crop: Alfalfa, hay

Plant date: 11/10/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/27/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
DW-36	Ground water	48.69	0.00	0.00	2,715.04
DW-38N	Ground water	23.12	0.00	0.00	1,602.58
CWD Canal	Surface water	0.00	0.00	0.00	41.92
Application event totals		71.81	0.00	0.00	4,359.53

Field 37 - 11/15/2019: Alfalfa, hay

Field name: Field 37

Crop: Alfalfa, hay

Plant date: 11/15/2019

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 37 - 11/15/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/22/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
DW-38N	Ground water	23.15	0.00	0.00	1,604.69
DW-33S	Ground water	15.50	0.00	0.00	1,414.20
CWD Canal	Surface water	0.00	0.00	0.00	41.97
Application event totals		38.65	0.00	0.00	3,060.86

Field 38 - 11/15/2019: Alfalfa, hay

Field name: Field 38

Crop: Alfalfa, hay

Plant date: 11/15/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/24/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
DW-38N	Ground water	21.81	0.00	0.00	1,511.65
DW-36	Ground water	45.93	0.00	0.00	2,560.98
CWD Canal	Surface water	0.00	0.00	0.00	39.54
Application event totals		67.74	0.00	0.00	4,112.16

Field 4 NS - 11/10/2019: Alfalfa, hay

Field name: Field 4 NS

Crop: Alfalfa, hay

Plant date: 11/10/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
02/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Blended Lg and Fresh Water Application	Process wastewater	60.93	14.95	63.87	278.22
Application event totals		60.93	14.95	63.87	278.22

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

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

Field 4 NS - 11/10/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/24/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	0.00	0.00	0.00	61.13	51,840,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	61.13	51,840,000.00 gal
Application event totals		0.00	0.00	0.00	122.26	

Field 5 NS - 05/10/2023: Tomato

Field name: Field 5 NS

Crop: Tomato Plant date: 05/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/06/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Slurry Manure Application	Process wastewater	137.21	7.38	90.27	581.74	1,000,000.00 gal
Application event totals		137.21	7.38	90.27	581.74	
09/15/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	102.00	0.00	0.00	0.00	
Can-17 Application	Liquid commercial fertilizer	43.00	0.00	0.00	0.00	
CWD Canal	Surface water	0.00	0.00	0.00	93.13	89,280,000.00 gal
Application event totals		145.00	0.00	0.00	93.13	

Field 6 EW - 11/28/2022: Wheat, silage, soft dough

Field name: Field 6 EW

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

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

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

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

Field 6 EW - 11/28/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/26/2022	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer @ Planting	Liquid commercial fertilizer	15.00	0.00	0.00	0.00	
Application event totals		15.00	0.00	0.00	0.00	
12/10/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	291.33	42.33	526.14	2,416.35	4,320,000.00 gal
Application event totals		291.33	42.33	526.14	2,416.35	
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
DW-8	Ground water	0.00	0.00	0.00	215.69	9,240,000.00 gal
Application event totals		0.00	0.00	0.00	215.69	

Field 6 EW - 06/07/2023: Corn, silage

Field name: Field 6 EW

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	151.51	37.17	158.82	691.78	4,320,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	13.19	9,000,000.00 gal
Application event totals		151.51	37.17	158.82	704.97	

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

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

Field 6 EW - 06/07/2023: 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
Pop-Up Starter	Liquid commercial fertilizer	4.00	0.00	0.00	0.00	
Uan-32 Fertilizer @ Planting	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		34.00	0.00	0.00	0.00	
07/08/2023	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
CWD Canal	Surface water	0.00	0.00	0.00	12.79	8,724,000.00 gal
Application event totals		0.00	0.00	0.00	12.79	
07/20/2023	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
CWD Canal	Surface water	0.00	0.00	0.00	12.84	8,760,000.00 gal
Application event totals		0.00	0.00	0.00	12.84	
08/01/2023	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
CWD Canal	Surface water	0.00	0.00	0.00	12.67	8,640,000.00 gal
Application event totals		0.00	0.00	0.00	12.67	
08/13/2023	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
CWD Canal	Surface water	0.00	0.00	0.00	12.84	8,760,000.00 gal
Application event totals		0.00	0.00	0.00	12.84	
08/25/2023	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 Water Application	Process wastewater	194.87	32.35	285.48	1,705.09	4,320,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	8.09	5,520,000.00 gal
Application event totals		194.87	32.35	285.48	1,713.18	

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

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

Field 6 EW - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	0.00	0.00	0.00	12.84	8,760,000.00 gal
Application event totals		0.00	0.00	0.00	12.84	
09/18/2023	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
CWD Canal	Surface water	0.00	0.00	0.00	12.84	8,760,000.00 gal
Application event totals		0.00	0.00	0.00	12.84	

Field 7 - 11/07/2014: Almond, in shell

Field name: Field 7

Crop: Almond, in shell

Plant date: 11/07/2014

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/09/2023	Total Drip Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	154.00	0.00	0.00	0.00	
DW-8	Ground water	0.00	0.00	0.00	550.14	20,064,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	69.10	40,128,000.00 gal
Application event totals		154.00	0.00	0.00	619.24	

Field 8 - 01/10/2017: Almond, in shell

Field name: Field 8

Crop: Almond, in shell

Plant date: 01/10/2017

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 8 - 01/10/2017: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/29/2023	Total Drip Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	214.00	0.00	0.00	0.00
DW-8	Ground water	0.00	0.00	0.00	554.64
CWD Canal	Surface water	0.00	0.00	0.00	69.66
Application event totals		214.00	0.00	0.00	624.31

Field 9 - 01/08/2017: Almond, in shell

Field name: Field 9

Crop: Almond, in shell

Plant date: 01/08/2017

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/11/2023	Total Drip Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	221.00	0.00	0.00	0.00
DW-8	Ground water	0.00	0.00	0.00	564.05
CWD Canal	Surface water	0.00	0.00	0.00	70.85
Application event totals		221.00	0.00	0.00	634.89

H14-15 - 10/31/2022: Wheat, silage, soft dough

Field name: H14-15

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/25/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure Application	Corral solids	173.28	58.17	309.42	3,754.34
Application event totals		173.28	58.17	309.42	3,754.34

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

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

H14-15 - 10/31/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/16/2022	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer @ Planting	Liquid commercial fertilizer	15.00	0.00	0.00	0.00	
Application event totals		15.00	0.00	0.00	0.00	
09/08/2023	Total Sub-Surface Irrigations	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
H-14	Ground water	7.72	0.00	0.00	588.95	24,189,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	61.74	48,378,000.00 gal
Application event totals		7.72	0.00	0.00	650.69	

H14-15 - 05/08/2023: Tomato

Field name: H14-15

Crop: Tomato

Plant date: 05/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/02/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	45.10	5.79	14.40	0.00	170.00 ton
Application event totals		45.10	5.79	14.40	0.00	
09/08/2023	Total Sub-Surface Irrigations	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
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	67.00	0.00	0.00	0.00	
H-14	Ground water	11.58	0.00	0.00	883.53	36,288,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	46.31	36,288,000.00 gal
Application event totals		78.58	0.00	0.00	929.85	

H16-17 - 10/31/2022: Wheat, silage, soft dough

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

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

H16-17 - 10/31/2022: Wheat, silage, soft dough

Field name: H16-17

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/25/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	278.04	35.68	88.76	0.00	900.00 ton
Application event totals		278.04	35.68	88.76	0.00	

H16-17 - 06/01/2023: Tomato

Field name: H16-17

Crop: Tomato

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/10/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	44.80	5.75	14.30	0.00	145.00 ton
Application event totals		44.80	5.75	14.30	0.00	
10/07/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	51.00	0.00	0.00	0.00	
H-16	Ground water	2.48	0.00	0.00	481.50	32,400,000.00 gal
CWD Canal	Surface water	0.00	0.00	0.00	48.15	32,400,000.00 gal
Application event totals		53.48	0.00	0.00	529.64	

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

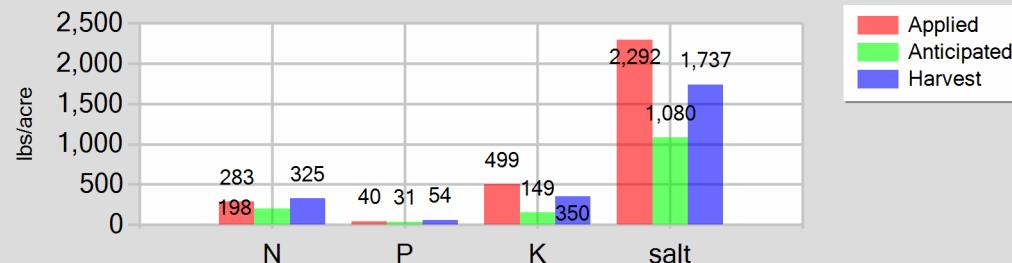
Reporting period 01/01/2023 to 12/31/2023.

B. NUTRIENT BUDGET

Field 1 - 11/05/2022: Wheat, silage, soft dough

Field name: Field 1	Crop: Wheat, silage, soft dough	Plant date: 11/05/2022
---------------------	---------------------------------	------------------------

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	0.00	0.00	0.00	0.00
Process wastewater	276.39	40.16	499.16	2,292.44
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	283.39	40.16	499.16	2,292.44
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	324.56	54.09	350.19	1,736.70
Nutrient balance	-41.18	-13.93	148.97	555.74
Applied to removed ratio	0.87	0.74	1.43	1.32

Fresh water applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Process wastewater applied

3,600,000.00 gallons
132.58 acre-inches
2.04 inches/acre

Total harvests for the crop

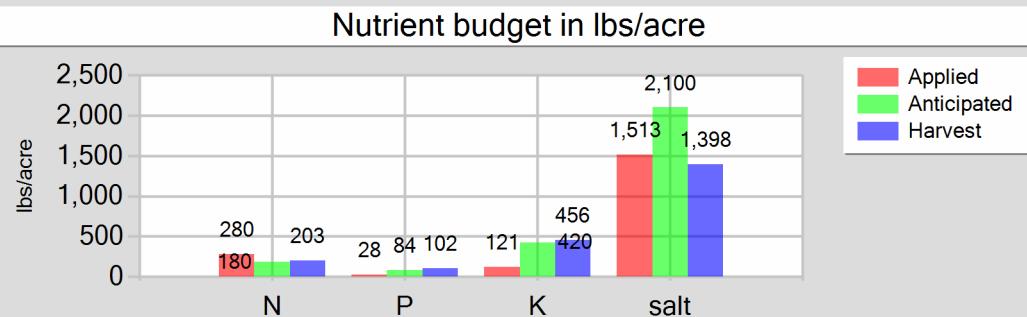
1 harvests

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

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

Field 1 - 05/25/2023: Tomato

Field name: Field 1 Crop: Tomato Plant date: 05/25/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	145.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	114.99	28.21	120.54	525.04
Fresh water	12.73	0.00	0.00	988.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	279.72	28.21	120.54	1,513.06
Anticipated crop nutrient removal	180.00	84.00	420.00	2,100.00
Actual crop nutrient removal	202.52	101.74	456.39	1,397.69
Nutrient balance	77.20	-73.52	-335.85	115.37
Applied to removed ratio	1.38	0.28	0.26	1.08

Fresh water applied
56,448,000.00 gallons
2,078.79 acre-inches
31.98 inches/acre

Process wastewater applied
2,880,000.00 gallons
106.06 acre-inches
1.63 inches/acre

Total harvests for the crop
1 harvests

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

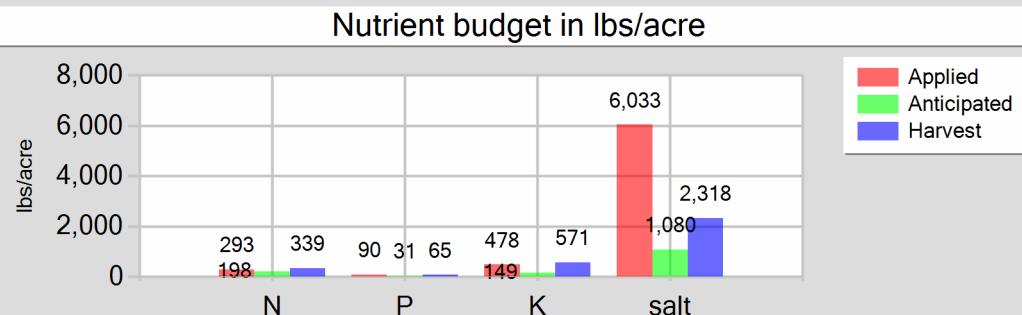
Reporting period 01/01/2023 to 12/31/2023.

Field 10 - 11/28/2022: Wheat, silage, soft dough

Field name: Field 10

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	2,520,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	92.80 acre-inches
Commercial fertilizer / Other	15.00	0.00	0.00	0.00	5.16 inches/acre
Dry manure	267.79	89.90	478.20	5,802.16	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	3.08	0.00	0.00	231.32	0.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 acre-inches
					0.00 inches/acre
Total nutrients applied	292.87	89.90	478.20	6,033.48	Total harvests for the crop
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	1 harvests
Actual crop nutrient removal	339.21	65.31	570.96	2,317.55	
Nutrient balance	-46.34	24.59	-92.76	3,715.93	
Applied to removed ratio	0.86	1.38	0.84	2.60	

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

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

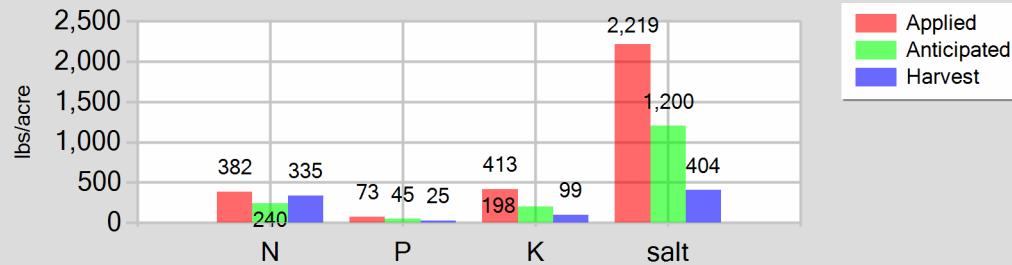
Field 10 - 06/10/2023: Corn, silage

Field name: Field 10

Crop: Corn, silage

Plant date: 06/10/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	34.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	341.14	73.10	413.24	2,116.29
Fresh water	0.00	0.00	0.00	102.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	382.14	73.10	413.24	2,219.22
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	334.77	24.71	98.86	404.42
Nutrient balance	47.37	48.39	314.39	1,814.80
Applied to removed ratio	1.14	2.96	4.18	5.49

Fresh water applied

17,077,200.00 gallons
628.90 acre-inches
34.94 inches/acre

Process wastewater applied

2,160,000.00 gallons
79.55 acre-inches
4.42 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.

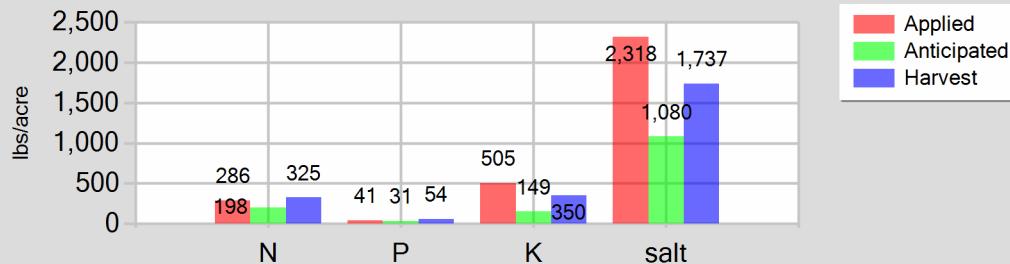
Field 2 - 11/05/2022: Wheat, silage, soft dough

Field name: Field 2

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

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	0.00	0.00	0.00	0.00
Process wastewater	279.46	40.61	504.71	2,317.91
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	286.46	40.61	504.71	2,317.91
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	324.60	54.10	350.23	1,736.91
Nutrient balance	-38.15	-13.49	154.48	580.99
Applied to removed ratio	0.88	0.75	1.44	1.33

Fresh water applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Process wastewater applied

1,680,000.00 gallons
61.87 acre-inches
2.06 inches/acre

Total harvests for the crop

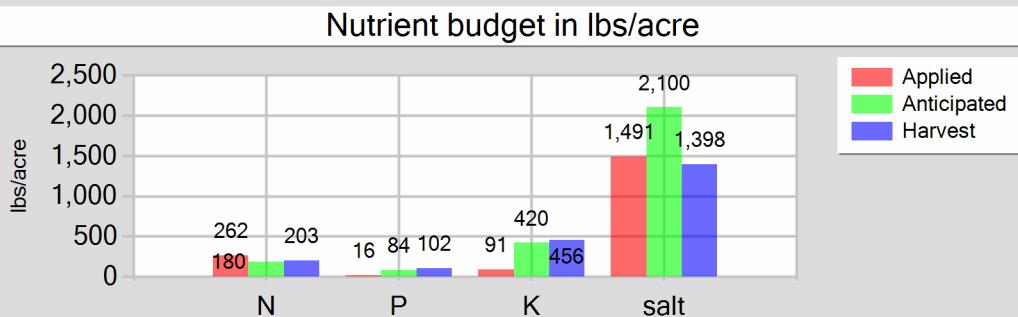
1 harvests

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

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

Field 2 - 05/26/2023: Tomato

Field name: Field 2 Crop: Tomato Plant date: 05/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	179.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	62.89	15.94	91.33	496.69
Fresh water	12.81	0.00	0.00	993.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	261.69	15.94	91.33	1,490.59
Anticipated crop nutrient removal	180.00	84.00	420.00	2,100.00
Actual crop nutrient removal	202.53	101.74	456.40	1,397.73
Nutrient balance	59.17	-85.80	-365.08	92.86
Applied to removed ratio	1.29	0.16	0.20	1.07

Fresh water applied
26,208,000.00 gallons
965.15 acre-inches
32.17 inches/acre

Process wastewater applied
1,440,000.00 gallons
53.03 acre-inches
1.77 inches/acre

Total harvests for the crop
1 harvests

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

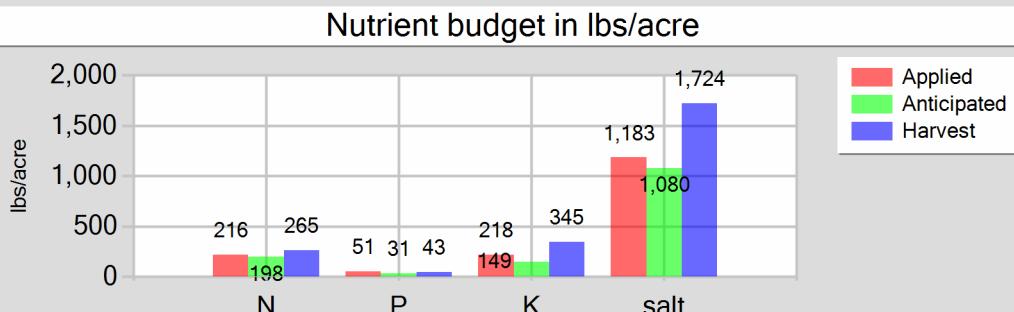
Reporting period 01/01/2023 to 12/31/2023.

Field 28E - 12/09/2022: Wheat, silage, soft dough

Field name: Field 28E

Crop: Wheat, silage, soft dough

Plant date: 12/09/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	207.62	50.94	217.64	947.99
Fresh water	0.99	0.00	0.00	234.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	215.61	50.94	217.64	1,182.78
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	264.64	43.43	344.71	1,723.55
Nutrient balance	-49.03	7.51	-127.07	-540.77
Applied to removed ratio	0.81	1.17	0.63	0.69

Fresh water applied

9,084,000.00 gallons
334.53 acre-inches
4.65 inches/acre

Process wastewater applied

5,760,000.00 gallons
212.12 acre-inches
2.95 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.

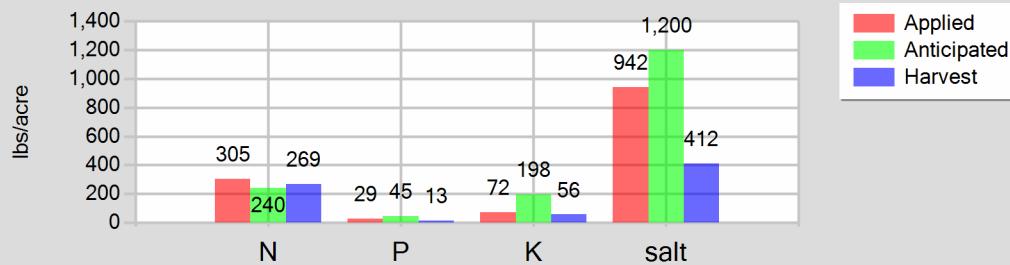
Field 28E - 06/15/2023: Corn, silage

Field name: Field 28E

Crop: Corn, silage

Plant date: 06/15/2023

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	69.00	0.00	0.00	0.00
Dry manure	225.52	28.94	72.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.75	0.00	0.00	941.73
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	305.27	28.94	72.00	941.73
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	269.35	13.09	56.12	411.51
Nutrient balance	35.92	15.85	15.88	530.22
Applied to removed ratio	1.13	2.21	1.28	2.29

Fresh water applied

68,676,000.00 gallons
2,529.10 acre-inches
35.13 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

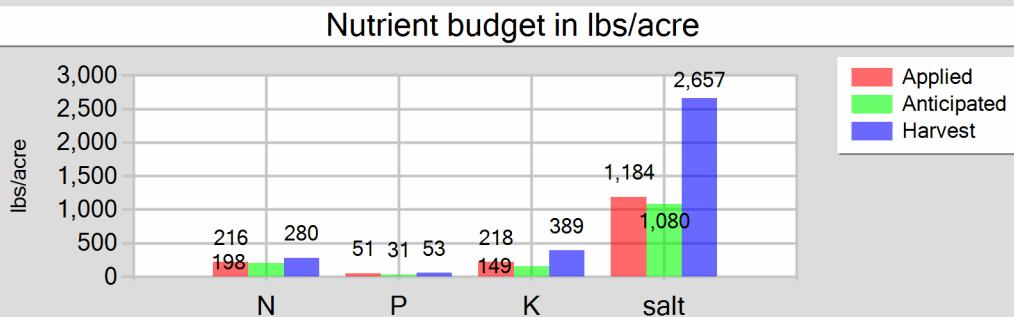
Reporting period 01/01/2023 to 12/31/2023.

Field 28W - 12/10/2022: Wheat, silage, soft dough

Field name: Field 28W

Crop: Wheat, silage, soft dough

Plant date: 12/10/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	207.62	50.94	217.64	947.99
Fresh water	0.99	0.00	0.00	235.72
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	215.62	50.94	217.64	1,183.71
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	280.20	53.14	388.89	2,657.02
Nutrient balance	-64.58	-2.20	-171.25	-1,473.31
Applied to removed ratio	0.77	0.96	0.56	0.45

Fresh water applied

9,120,000.00 gallons
335.86 acre-inches
4.66 inches/acre

Process wastewater applied

5,760,000.00 gallons
212.12 acre-inches
2.95 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.

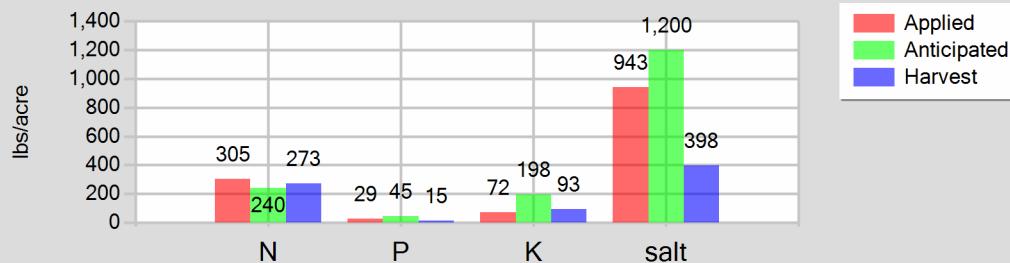
Field 28W - 06/14/2023: Corn, silage

Field name: Field 28W

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	69,036,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,542.36 acre-inches
Commercial fertilizer / Other	69.00	0.00	0.00	0.00	35.31 inches/acre
Dry manure	225.52	28.94	72.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	3.76	0.00	0.00	943.15	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	305.28	28.94	72.00	943.15	Process wastewater applied
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00	0.00 gallons
Actual crop nutrient removal	272.64	15.15	92.77	397.60	0.00 acre-inches
Nutrient balance	32.64	13.80	-20.77	545.55	0.00 inches/acre
Applied to removed ratio	1.12	1.91	0.78	2.37	Total harvests for the crop
					1 harvests

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

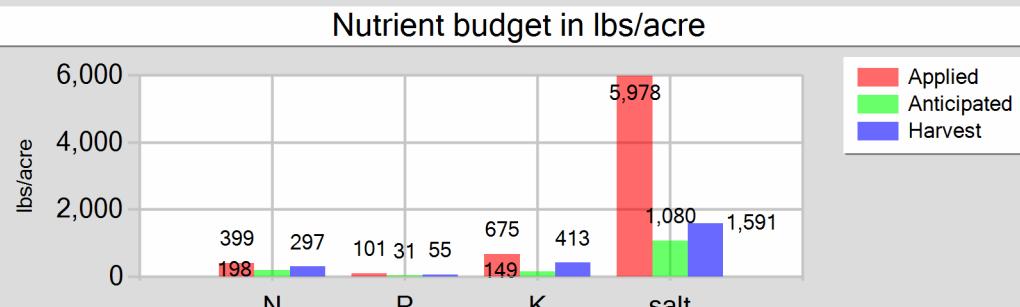
Reporting period 01/01/2023 to 12/31/2023.

Field 3 EW - 11/03/2022: Wheat, silage, soft dough

Field name: Field 3 EW

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022



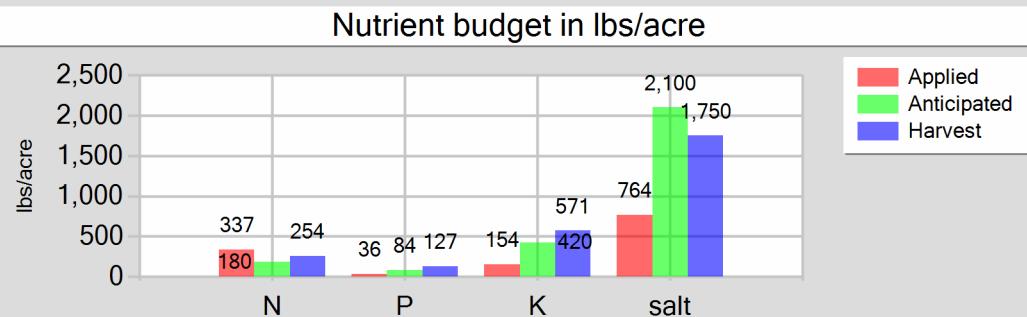
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	0.00 gallons 0.00 acre-inches 0.00 inches/acre
Plowdown credit	0.00	0.00	0.00	0.00	
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	
Dry manure	214.23	71.92	382.56	4,641.73	
Process wastewater	177.54	29.46	292.88	1,335.99	Process wastewater applied 4,320,000.00 gallons 159.09 acre-inches 1.56 inches/acre
Fresh water	0.00	0.00	0.00	0.00	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	398.78	101.39	675.44	5,977.71	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	297.37	54.78	413.44	1,591.17	
Nutrient balance	101.41	46.61	262.00	4,386.55	
Applied to removed ratio	1.34	1.85	1.63	3.76	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 EW - 05/18/2023: Tomato

Field name: Field 3 EW Crop: Tomato Plant date: 05/18/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	183.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	146.56	35.96	153.63	669.17
Fresh water	0.00	0.00	0.00	94.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	336.56	35.96	153.63	763.62
Anticipated crop nutrient removal	180.00	84.00	420.00	2,100.00
Actual crop nutrient removal	253.54	127.37	571.36	1,749.78
Nutrient balance	83.02	-91.41	-417.73	-986.17
Applied to removed ratio	1.33	0.28	0.27	0.44

Fresh water applied
88,800,000.00 gallons
3,270.20 acre-inches
32.06 inches/acre

Process wastewater applied
5,760,000.00 gallons
212.12 acre-inches
2.08 inches/acre

Total harvests for the crop
1 harvests

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

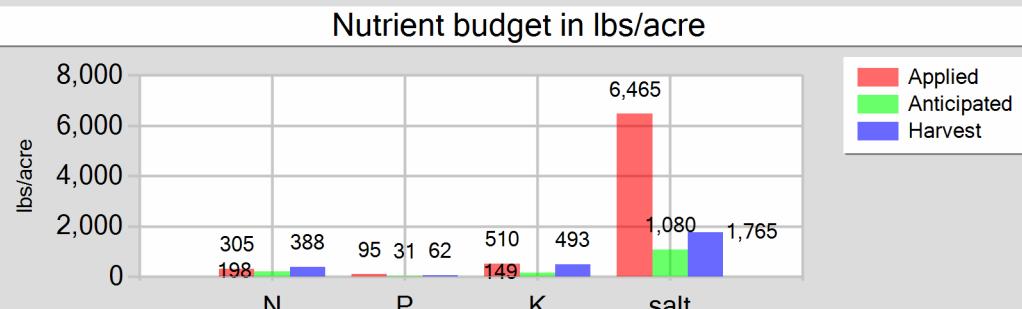
Reporting period 01/01/2023 to 12/31/2023.

Field 31 - 11/23/2022: Wheat, silage, soft dough

Field name: Field 31

Crop: Wheat, silage, soft dough

Plant date: 11/23/2022



	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	8,040,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	296.09 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.17 inches/acre
Dry manure	264.02	88.64	471.46	5,720.44	
Process wastewater	26.57	6.74	38.59	209.87	1,440,000.00 gallons
Fresh water	7.41	0.00	0.00	534.98	53.03 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	0.75 inches/acre
Total nutrients applied	305.00	95.37	510.05	6,465.29	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	388.27	61.77	492.69	1,764.85	
Nutrient balance	-83.27	33.60	17.37	4,700.44	
Applied to removed ratio	0.79	1.54	1.04	3.66	
Total harvests for the crop					1 harvests

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

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

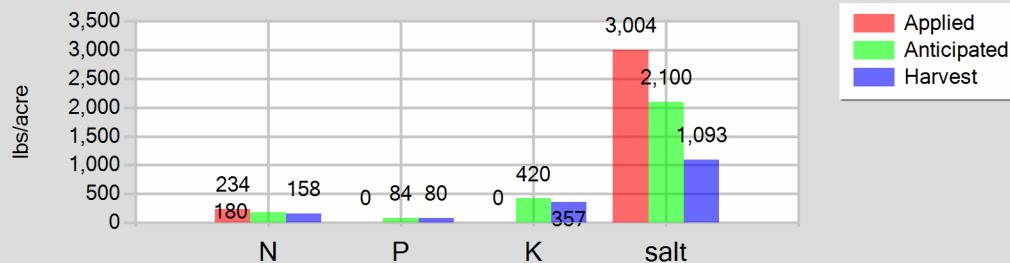
Field 31 - 06/08/2023: Tomato

Field name: Field 31

Crop: Tomato

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	180.00	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	46.85	0.00	0.00	3,003.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	233.85	0.00	0.00	3,003.59
Anticipated crop nutrient removal	180.00	84.00	420.00	2,100.00
Actual crop nutrient removal	158.32	79.53	356.78	1,092.64
Nutrient balance	75.52	-79.53	-356.78	1,910.95
Applied to removed ratio	1.48	0.00	0.00	2.75

Fresh water applied

60,480,000.00 gallons
2,227.27 acre-inches
31.37 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

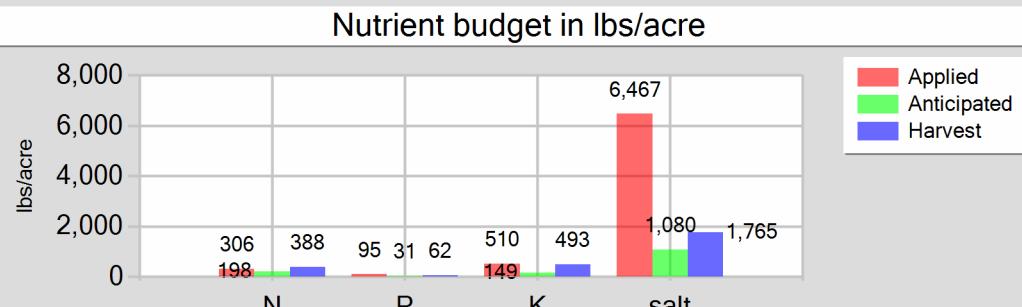
Reporting period 01/01/2023 to 12/31/2023.

Field 32 - 11/23/2022: Wheat, silage, soft dough

Field name: Field 32

Crop: Wheat, silage, soft dough

Plant date: 11/23/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	264.02	88.64	471.46	5,720.44
Process wastewater	26.57	6.74	38.59	209.87
Fresh water	8.23	0.00	0.00	536.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	305.82	95.37	510.05	6,467.05
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	388.27	61.77	492.69	1,764.85
Nutrient balance	-82.45	33.60	17.37	4,702.19
Applied to removed ratio	0.79	1.54	1.04	3.66

Fresh water applied

7,080,000.00 gallons
260.73 acre-inches
3.67 inches/acre

Process wastewater applied

1,440,000.00 gallons
53.03 acre-inches
0.75 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.

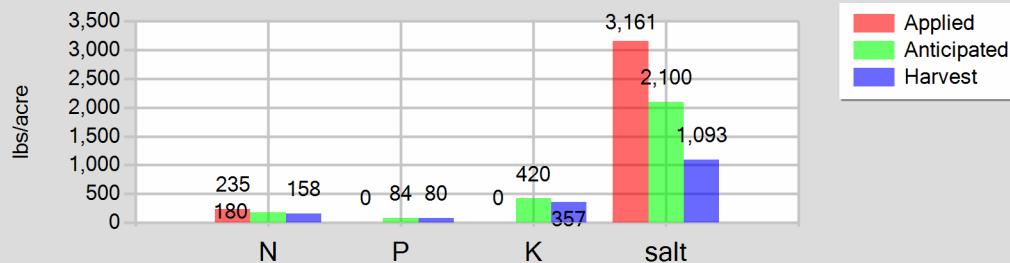
Field 32 - 06/08/2023: Tomato

Field name: Field 32

Crop: Tomato

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	180.00	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	47.96	0.00	0.00	3,160.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	234.96	0.00	0.00	3,160.98
Anticipated crop nutrient removal	180.00	84.00	420.00	2,100.00
Actual crop nutrient removal	158.32	79.53	356.78	1,092.64
Nutrient balance	76.64	-79.53	-356.78	2,068.35
Applied to removed ratio	1.48	0.00	0.00	2.89

Fresh water applied

61,920,000.00 gallons
2,280.30 acre-inches
32.12 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

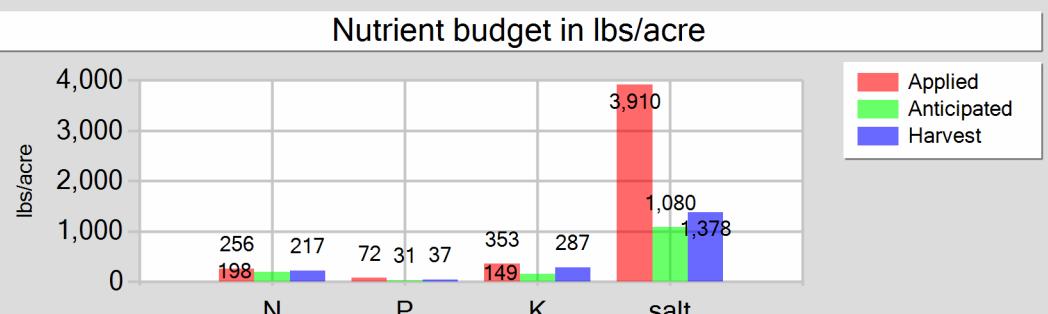
Reporting period 01/01/2023 to 12/31/2023.

Field 33 - 12/23/2022: Wheat, silage, soft dough

Field name: Field 33

Crop: Wheat, silage, soft dough

Plant date: 12/23/2022



	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	9,804,000.00 gallons 361.05 acre-inches 4.51 inches/acre
Plowdown credit	0.00	0.00	0.00	0.00	
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	
Dry manure	133.90	44.95	239.10	2,901.08	
Process wastewater	109.00	26.74	114.26	497.70	3,360,000.00 gallons 123.74 acre-inches 1.55 inches/acre
Fresh water	6.58	0.00	0.00	510.83	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	256.48	71.69	353.36	3,909.60	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	216.89	37.00	287.07	1,377.92	
Nutrient balance	39.58	34.69	66.29	2,531.69	
Applied to removed ratio	1.18	1.94	1.23	2.84	
Total harvests for the crop					1 harvests

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

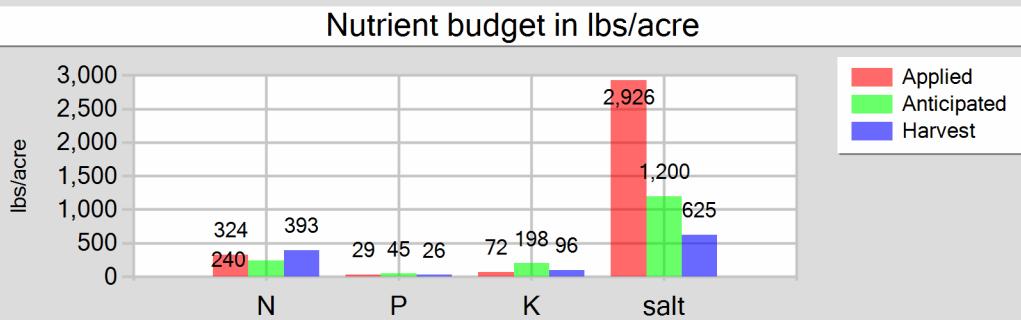
Reporting period 01/01/2023 to 12/31/2023.

Field 33 - 06/20/2023: Corn, silage

Field name: Field 33

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	54.00	0.00	0.00	0.00
Dry manure	225.52	28.94	72.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	37.29	0.00	0.00	2,926.15
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	323.82	28.94	72.00	2,926.15
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	393.13	26.04	96.33	624.85
Nutrient balance	-69.32	2.91	-24.33	2,301.30
Applied to removed ratio	0.82	1.11	0.75	4.68

Fresh water applied

78,600,000.00 gallons
2,894.57 acre-inches
36.18 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

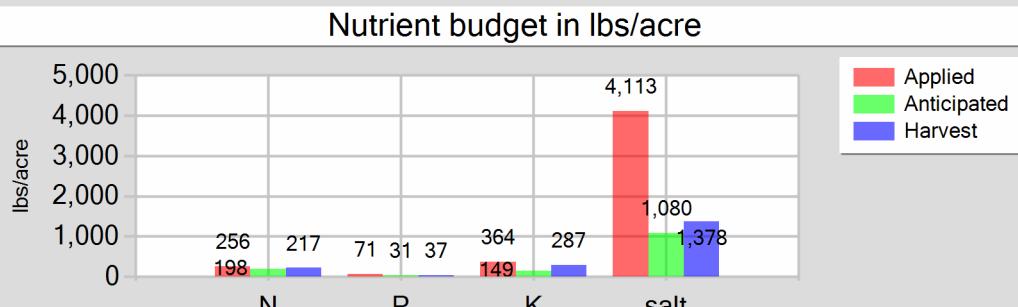
Reporting period 01/01/2023 to 12/31/2023.

Field 34 - 11/28/2022: Wheat, silage, soft dough

Field name: Field 34

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	133.90	44.95	239.10	2,901.08
Process wastewater	105.45	26.16	124.82	599.34
Fresh water	9.76	0.00	0.00	612.67
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	256.11	71.11	363.92	4,113.09
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	216.89	37.00	287.07	1,377.92
Nutrient balance	39.21	34.11	76.86	2,735.17
Applied to removed ratio	1.18	1.92	1.27	2.99

Fresh water applied

9,360,000.00 gallons
344.70 acre-inches
4.31 inches/acre

Process wastewater applied

4,320,000.00 gallons
159.09 acre-inches
1.99 inches/acre

Total harvests for the crop

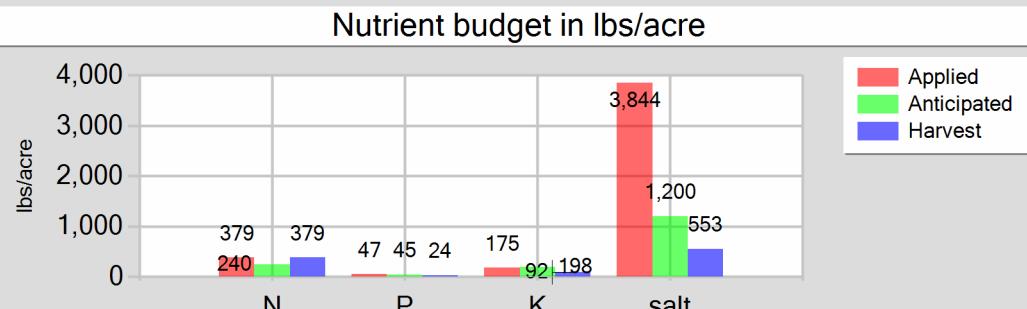
1 harvests

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

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

Field 34 - 06/21/2023: Corn, silage

Field name: Field 34 Crop: Corn, silage Plant date: 06/21/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	24.00	0.00	0.00	0.00
Dry manure	225.52	28.94	72.00	0.00
Process wastewater	70.75	17.94	102.74	558.78
Fresh water	51.82	0.00	0.00	3,285.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	379.09	46.88	174.74	3,844.32
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	378.93	23.68	92.10	552.61
Nutrient balance	0.16	23.20	82.64	3,291.72
Applied to removed ratio	1.00	1.98	1.90	6.96

Fresh water applied
74,520,000.00 gallons
2,744.32 acre-inches
34.30 inches/acre

Process wastewater applied
4,320,000.00 gallons
159.09 acre-inches
1.99 inches/acre

Total harvests for the crop
1 harvests

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

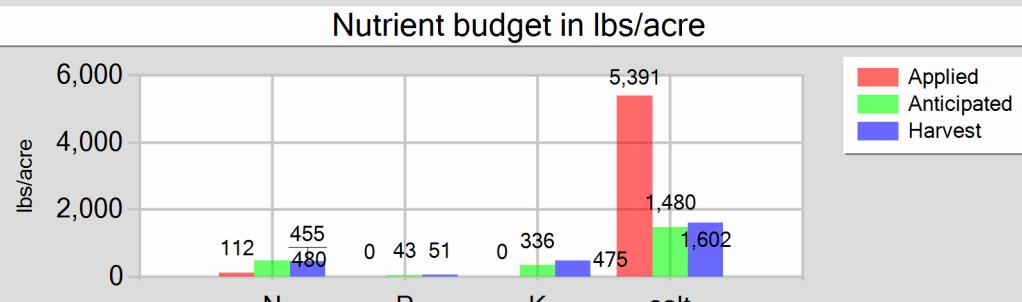
Reporting period 01/01/2023 to 12/31/2023.

Field 35 - 11/12/2020: Alfalfa, hay

Field name: Field 35

Crop: Alfalfa, hay

Plant date: 11/12/2020



	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	97.70	0.00	0.00	5,391.38
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	111.70	0.00	0.00	5,391.38
Anticipated crop nutrient removal	480.00	43.20	336.00	1,480.00
Actual crop nutrient removal	455.40	51.48	474.94	1,602.43
Nutrient balance	-343.70	-51.48	-474.94	3,788.95
Applied to removed ratio	0.25	0.00	0.00	3.36

Fresh water applied

92,736,000.00 gallons
3,415.15 acre-inches
42.69 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

4 harvests

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

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

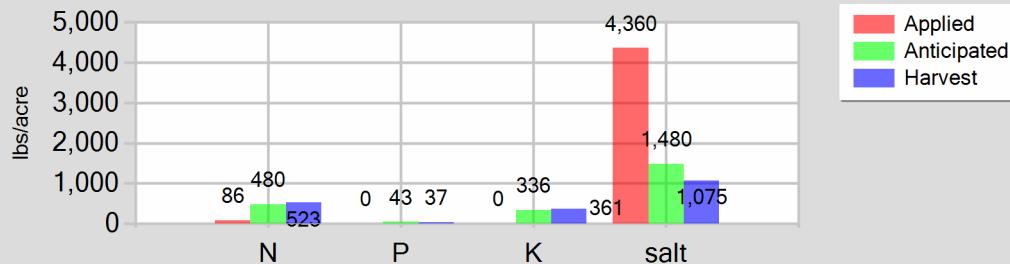
Field 36 - 11/10/2020: Alfalfa, hay

Field name: Field 36

Crop: Alfalfa, hay

Plant date: 11/10/2020

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	71.81	0.00	0.00	4,359.53
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	85.81	0.00	0.00	4,359.53
Anticipated crop nutrient removal	480.00	43.20	336.00	1,480.00
Actual crop nutrient removal	523.21	37.46	361.11	1,075.31
Nutrient balance	-437.40	-37.46	-361.11	3,284.22
Applied to removed ratio	0.16	0.00	0.00	4.05

Fresh water applied

92,736,000.00 gallons
3,415.15 acre-inches
42.69 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

4 harvests

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

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

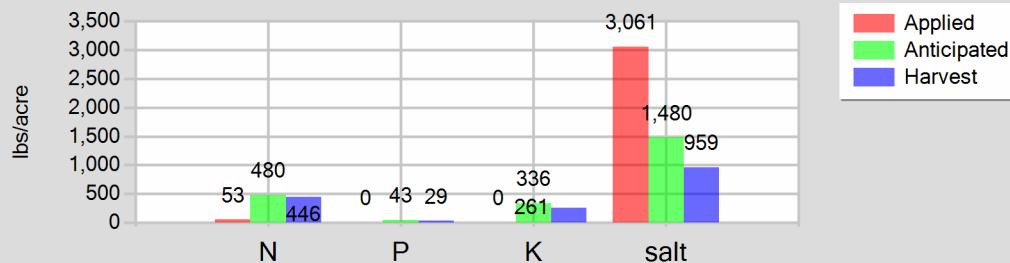
Field 37 - 11/15/2019: Alfalfa, hay

Field name: Field 37

Crop: Alfalfa, hay

Plant date: 11/15/2019

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	38.65	0.00	0.00	3,060.86
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	52.65	0.00	0.00	3,060.86
Anticipated crop nutrient removal	480.00	43.20	336.00	1,480.00
Actual crop nutrient removal	445.77	29.34	261.01	959.04
Nutrient balance	-393.12	-29.34	-261.01	2,101.82
Applied to removed ratio	0.12	0.00	0.00	3.19

Fresh water applied

76,608,000.00 gallons
2,821.21 acre-inches
42.75 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

4 harvests

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

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

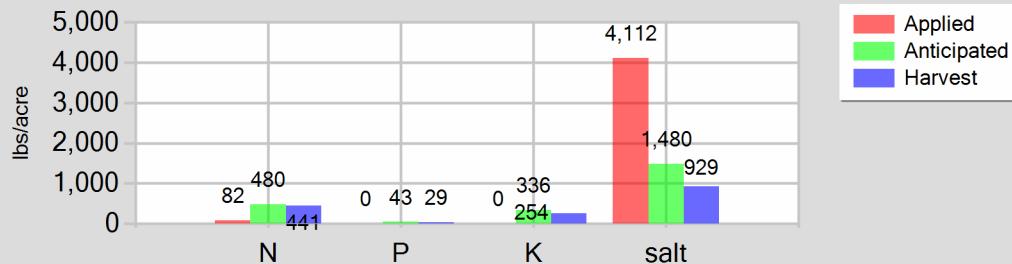
Field 38 - 11/15/2019: Alfalfa, hay

Field name: Field 38

Crop: Alfalfa, hay

Plant date: 11/15/2019

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	67.74	0.00	0.00	4,112.16
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	81.74	0.00	0.00	4,112.16
Anticipated crop nutrient removal	480.00	43.20	336.00	1,480.00
Actual crop nutrient removal	440.66	29.30	254.03	928.76
Nutrient balance	-358.93	-29.30	-254.03	3,183.40
Applied to removed ratio	0.19	0.00	0.00	4.43

Fresh water applied

64,512,000.00 gallons
2,375.76 acre-inches
40.27 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

5 harvests

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

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

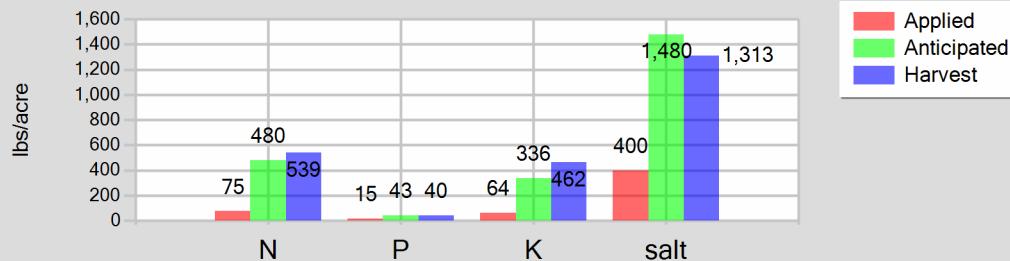
Field 4 NS - 11/10/2019: Alfalfa, hay

Field name: Field 4 NS

Crop: Alfalfa, hay

Plant date: 11/10/2019

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	60.93	14.95	63.87	278.22
Fresh water	0.00	0.00	0.00	122.26
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	74.93	14.95	63.87	400.47
Anticipated crop nutrient removal	480.00	43.20	336.00	1,480.00
Actual crop nutrient removal	539.43	40.37	462.10	1,312.96
Nutrient balance	-464.50	-25.42	-398.23	-912.48
Applied to removed ratio	0.14	0.37	0.14	0.31

Fresh water applied

103,680,000.00 gallons
3,818.18 acre-inches
41.50 inches/acre

Process wastewater applied

2,160,000.00 gallons
79.55 acre-inches
0.86 inches/acre

Total harvests for the crop

6 harvests

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

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

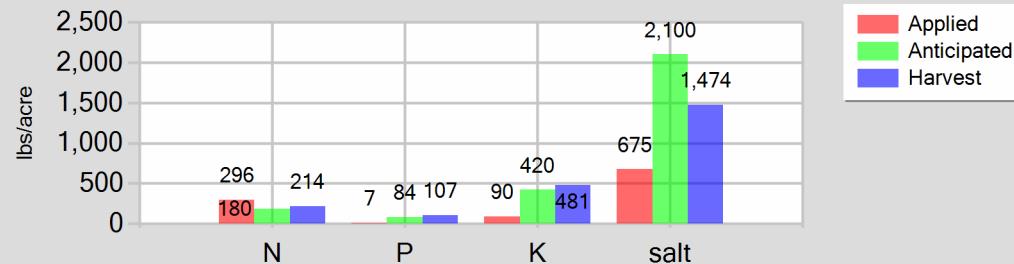
Field 5 NS - 05/10/2023: Tomato

Field name: Field 5 NS

Crop: Tomato

Plant date: 05/10/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	145.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	137.21	7.38	90.27	581.74
Fresh water	0.00	0.00	0.00	93.13
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	296.21	7.38	90.27	674.87
Anticipated crop nutrient removal	180.00	84.00	420.00	2,100.00
Actual crop nutrient removal	213.55	107.27	481.23	1,473.77
Nutrient balance	82.66	-99.89	-390.96	-798.90
Applied to removed ratio	1.39	0.07	0.19	0.46

Fresh water applied

89,280,000.00 gallons
3,287.88 acre-inches
31.61 inches/acre

Process wastewater applied

1,000,000.00 gallons
36.83 acre-inches
0.35 inches/acre

Total harvests for the crop

1 harvests

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

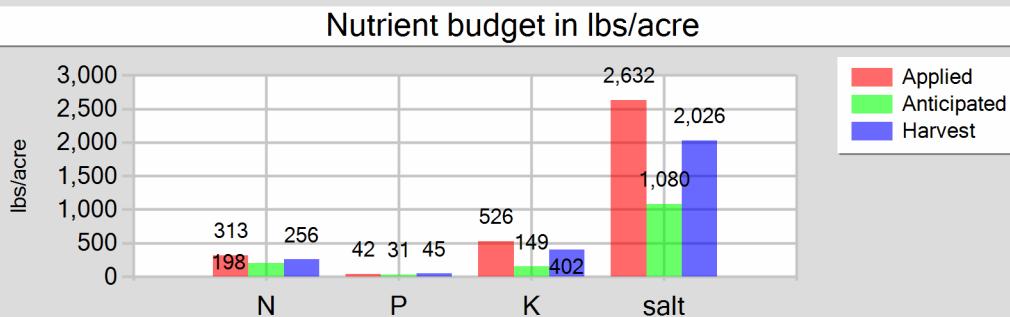
Reporting period 01/01/2023 to 12/31/2023.

Field 6 EW - 11/28/2022: Wheat, silage, soft dough

Field name: Field 6 EW

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	15.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	291.33	42.33	526.14	2,416.35
Fresh water	0.00	0.00	0.00	215.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	313.33	42.33	526.14	2,632.04
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	255.72	44.83	401.85	2,025.86
Nutrient balance	57.60	-2.50	124.29	606.19
Applied to removed ratio	1.23	0.94	1.31	1.30

Fresh water applied

9,240,000.00 gallons
340.28 acre-inches
4.60 inches/acre

Process wastewater applied

4,320,000.00 gallons
159.09 acre-inches
2.15 inches/acre

Total harvests for the crop

1 harvests

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

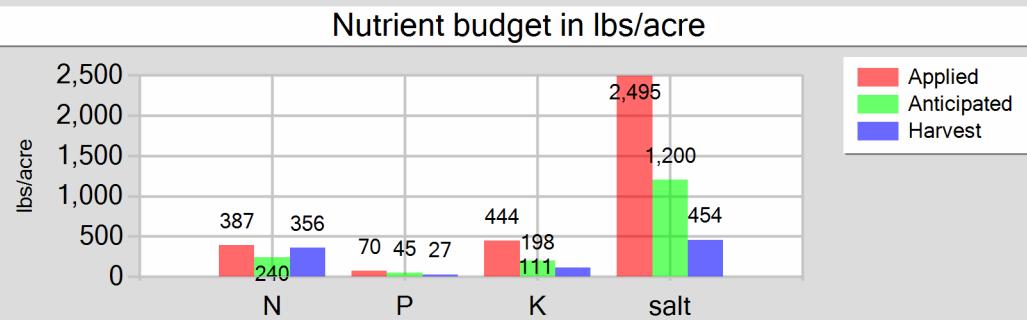
Reporting period 01/01/2023 to 12/31/2023.

Field 6 EW - 06/07/2023: Corn, silage

Field name: Field 6 EW

Crop: Corn, silage

Plant date: 06/07/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	34.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	346.38	69.52	444.30	2,396.86
Fresh water	0.00	0.00	0.00	98.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	387.38	69.52	444.30	2,494.98
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	356.43	27.24	111.24	454.05
Nutrient balance	30.94	42.28	333.05	2,040.92
Applied to removed ratio	1.09	2.55	3.99	5.49

Fresh water applied

66,924,000.00 gallons
2,464.58 acre-inches
33.31 inches/acre

Process wastewater applied

8,640,000.00 gallons
318.18 acre-inches
4.30 inches/acre

Total harvests for the crop

1 harvests

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

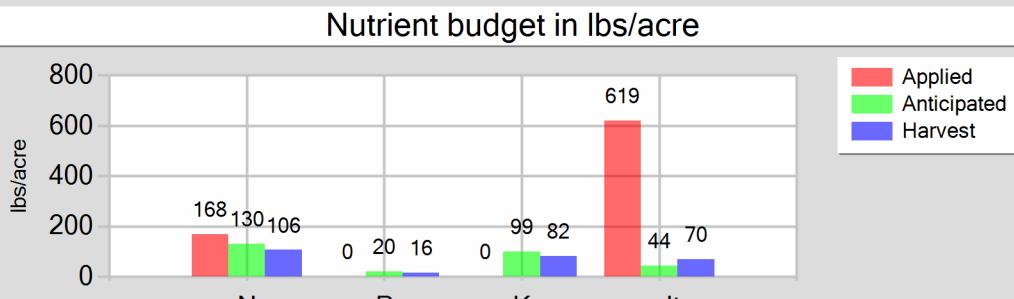
Reporting period 01/01/2023 to 12/31/2023.

Field 7 - 11/07/2014: Almond, in shell

Field name: Field 7

Crop: Almond, in shell

Plant date: 11/07/2014



	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	154.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	619.24
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	168.00	0.00	0.00	619.24
Anticipated crop nutrient removal	130.00	20.00	99.00	44.00
Actual crop nutrient removal	106.34	16.36	81.80	69.94
Nutrient balance	61.66	-16.36	-81.80	549.30
Applied to removed ratio	1.58	0.00	0.00	8.85

Fresh water applied

60,192,000.00 gallons
2,216.67 acre-inches
35.19 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

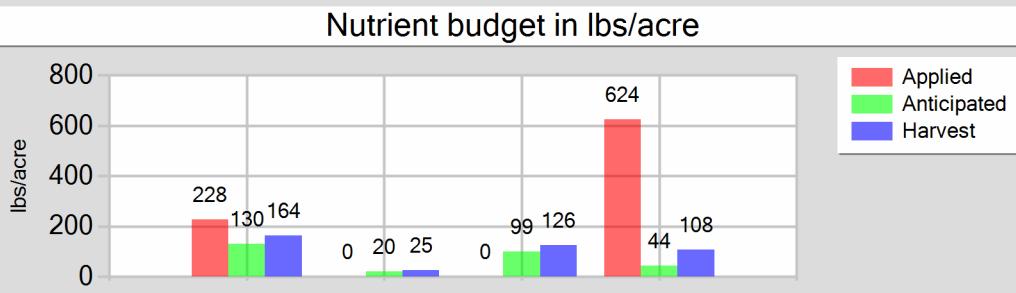
Reporting period 01/01/2023 to 12/31/2023.

Field 8 - 01/10/2017: Almond, in shell

Field name: Field 8

Crop: Almond, in shell

Plant date: 01/10/2017



	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	214.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	624.31
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	228.00	0.00	0.00	624.31
Anticipated crop nutrient removal	130.00	20.00	99.00	44.00
Actual crop nutrient removal	163.67	25.18	125.90	107.65
Nutrient balance	64.33	-25.18	-125.90	516.66
Applied to removed ratio	1.39	0.00	0.00	5.80

Fresh water applied

71,280,000.00 gallons
2,625.00 acre-inches
35.47 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

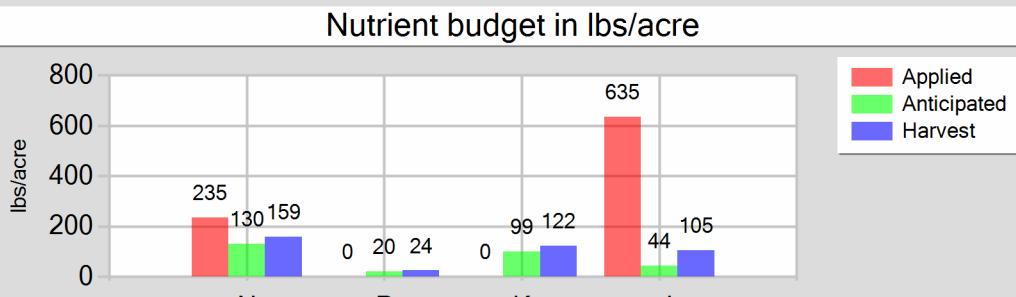
Reporting period 01/01/2023 to 12/31/2023.

Field 9 - 01/08/2017: Almond, in shell

Field name: Field 9

Crop: Almond, in shell

Plant date: 01/08/2017



	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	221.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	634.89
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	235.00	0.00	0.00	634.89
Anticipated crop nutrient removal	130.00	20.00	99.00	44.00
Actual crop nutrient removal	159.02	24.46	122.32	104.59
Nutrient balance	75.98	-24.46	-122.32	530.30
Applied to removed ratio	1.48	0.00	0.00	6.07

Fresh water applied

74,448,000.00 gallons
2,741.67 acre-inches
36.07 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

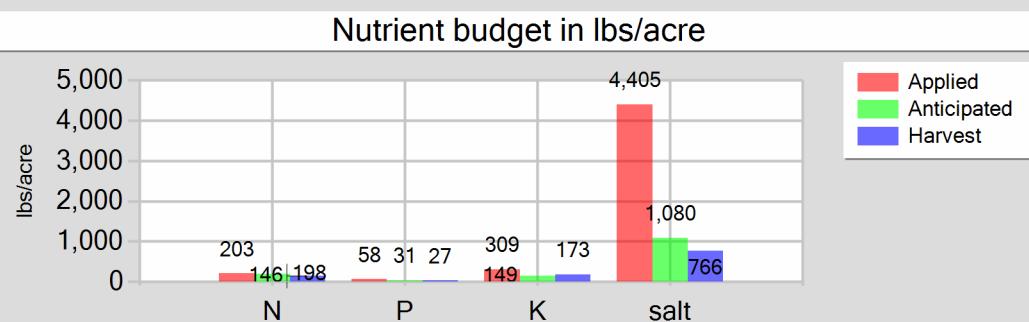
Reporting period 01/01/2023 to 12/31/2023.

H14-15 - 10/31/2022: Wheat, silage, soft dough

Field name: H14-15

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022



	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	72,567,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,672.40 acre-inches
Commercial fertilizer / Other	15.00	0.00	0.00	0.00	31.44 inches/acre
Dry manure	173.28	58.17	309.42	3,754.34	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	7.72	0.00	0.00	650.69	0.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 acre-inches
Total nutrients applied	203.00	58.17	309.42	4,405.03	0.00 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	146.25	26.72	172.96	766.39	Total harvests for the crop
Nutrient balance	56.75	31.45	136.46	3,638.65	1 harvests
Applied to removed ratio	1.39	2.18	1.79	5.75	

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

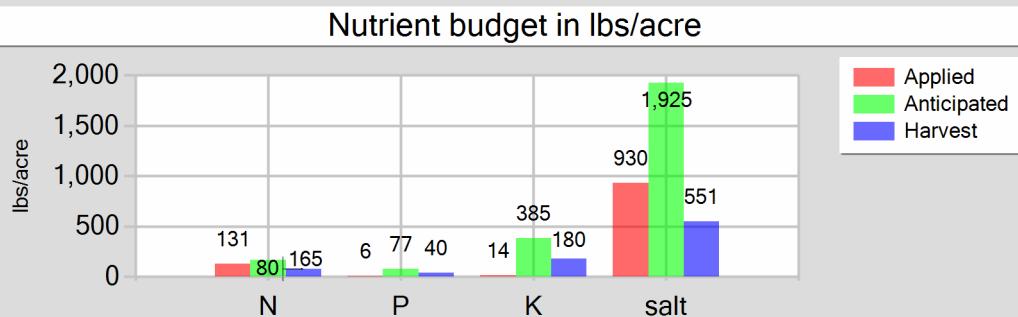
Reporting period 01/01/2023 to 12/31/2023.

H14-15 - 05/08/2023: Tomato

Field name: H14-15

Crop: Tomato

Plant date: 05/08/2023



	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	72,576,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,672.73 acre-inches
Commercial fertilizer / Other	67.00	0.00	0.00	0.00	31.44 inches/acre
Dry manure	45.10	5.79	14.40	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	11.58	0.00	0.00	929.85	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	130.68	5.79	14.40	929.85	Process wastewater applied
Anticipated crop nutrient removal	165.00	77.00	385.00	1,925.00	0.00 gallons
Actual crop nutrient removal	79.82	40.10	179.87	550.85	0.00 acre-inches
Nutrient balance	50.87	-34.31	-165.47	379.00	0.00 inches/acre
Applied to removed ratio	1.64	0.14	0.08	1.69	Total harvests for the crop
					1 harvests

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

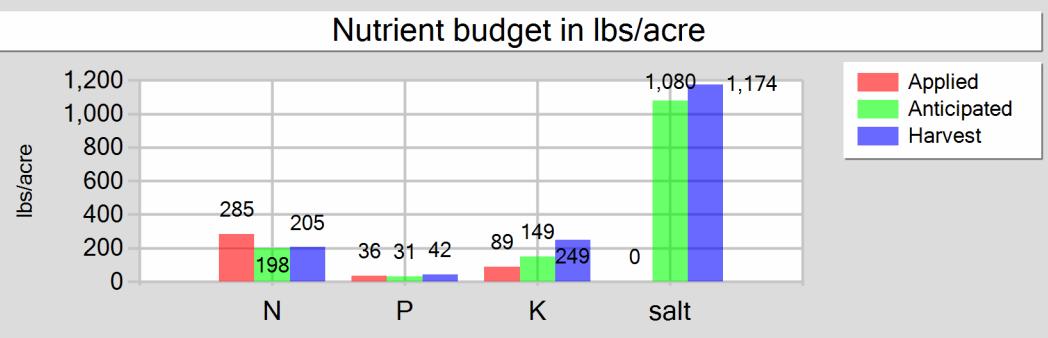
Reporting period 01/01/2023 to 12/31/2023.

H16-17 - 10/31/2022: Wheat, silage, soft dough

Field name: H16-17

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	278.04	35.68	88.76	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	285.04	35.68	88.76	0.00
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	205.23	41.52	249.12	1,174.44
Nutrient balance	79.81	-5.84	-160.36	-1,174.44
Applied to removed ratio	1.39	0.86	0.36	0.00

Fresh water applied
0.00 gallons
0.00 acre-inches
0.00 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

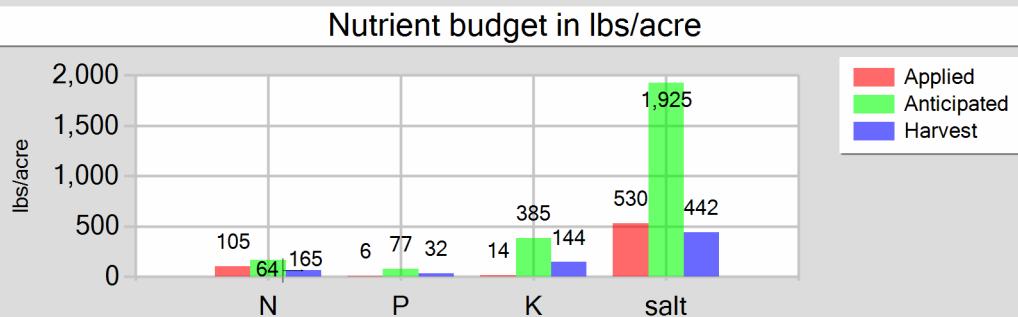
Reporting period 01/01/2023 to 12/31/2023.

H16-17 - 06/01/2023: Tomato

Field name: H16-17

Crop: Tomato

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	51.00	0.00	0.00	0.00
Dry manure	44.80	5.75	14.30	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.48	0.00	0.00	529.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	105.28	5.75	14.30	529.64
Anticipated crop nutrient removal	165.00	77.00	385.00	1,925.00
Actual crop nutrient removal	64.01	32.16	144.25	441.77
Nutrient balance	41.26	-26.41	-129.95	87.87
Applied to removed ratio	1.64	0.18	0.10	1.20

Fresh water applied

64,800,000.00 gallons
2,386.36 acre-inches
32.69 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****Corral Solids - 2022**

Sample and source description: Corral Solids - 2022

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

Moisture: 20.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,800.00	5,640.00	30,000.00							36.40
DL	1,000.00	1,000.00	1,000.00							0.10

Corral Solids

Sample and source description: Corral Solids

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

Moisture: 29.7 %

	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	13,700.00	3,400.00	17,900.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

Separator Solids

Sample and source description: Separator Solids

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

Moisture: 39.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,700.00	2,400.00	5,970.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

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

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

Corral Solids

Sample and source description: Corral Solids

Sample date: 11/07/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 30.3 %

	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	20,700.00	21,000.00	45,500.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

Separator Solids

Sample and source description: Separator Solids

Sample date: 11/07/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 39.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,100.00	2,260.00	6,610.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

B. PROCESS WASTEWATER ANALYSES**LG-1-4, 2022**

Sample and source description: LG-1-4, 2022

Sample date: 11/17/2022 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	598.00	433.00	0.00	0.00	86.90	1,080.00								7,100.00	4,960
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

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

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

LG-1-1

Sample and source description: LG-1-1

Sample date: 03/16/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	311.00	134.00	0.00	0.00	76.30	326.00								2,740.00	1,420
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

Lagoon Slurry

Sample and source description: Lagoon Slurry

Sample date: 05/01/2023 Material type: Process wastewater Source of analysis: Other/estimated pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1,710.00	285.00	0.00	0.00	92.00	1,125.00								8,950.00	7,250
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

LG-1-2

Sample and source description: LG-1-2

Sample date: 06/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	157.00	81.20	0.00	0.00	39.80	228.00								1,970.00	1,240
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

LG-1-3

Sample and source description: LG-1-3

Sample date: 08/23/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	176.00	120.00	0.00	0.00	5.60	45.30								2,500.00	1,300
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

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

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

LG-1-4

Sample and source description: LG-1-4

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	400.00	302.00	0.00	0.00	66.40	586.00								5,310.00	3,500
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

C. FRESH WATER ANALYSES

CWD Canal

CWD Canal

Sample description: CWD Canal

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium	Magnesium	Sodium	Bicarbonate	Carbonate	Sulfate	Chloride	EC (µmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00								10.00	13
DL	0.50	0.50	0.50								1.00	10

DW-1E

DW-1E

Sample description: DW-1E

Sample date: 11/30/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium	Magnesium	Sodium	Bicarbonate	Carbonate	Sulfate	Chloride	EC (µmhos/cm)	TDS (mg/L)
Value	2.02	0.00	2.02								284.00	182
DL	0.50	0.50	0.50								1.00	10

DW-1W

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

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

DW-1W

DW-1W

Sample description: DW-1W

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	3.25	0.00	3.25								334.00	214
DL	0.50	0.50	0.50								1.00	10

DW-28S

DW-28S

Sample description: DW-28S

Sample date: 08/10/2022 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	0.94	0.00	0.94								349.00	223
DL	0.50	0.50	0.50								1.00	10

DW-32

DW-32

Sample description: DW-32

Sample date: 08/29/2023 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	11.70	0.00	11.70								1,140.00	729
DL	0.50	0.50	0.50								1.00	10

DW-33N

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

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

DW-33N

DW-33N

Sample description: DW-33N

Sample date: 08/29/2023 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	8.07	0.00	8.07								876.00	561
DL	0.50	0.50	0.50								1.00	10

DW-33S

DW-33S

Sample description: DW-33S

Sample date: 08/28/2023 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	4.80	0.00	4.80								685.00	438
DL	0.50	0.50	0.50								1.00	10

DW-35N

DW-35N

Sample description: DW-35N

Sample date: 08/29/2023 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	15.20	0.00	15.20								1,280.00	817
DL	0.50	0.50	0.50								1.00	10

DW-36

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

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

DW-36

DW-36

Sample description: DW-36

Sample date: 08/29/2023 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	15.10	0.00	15.10								1,320.00	842
DL	0.50	0.50	0.50								1.00	10

DW-38N

W-38N

Sample description: W-38N

Sample date: 08/29/2023 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	7.17	0.00	7.17								748.00	497
DL	0.50	0.50	0.50								1.00	10

DW-8

DW-8

Sample description: DW-8

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00								323.00	207
DL	0.50	0.50	0.50								1.00	10

H-14

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

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

H-14

H-14

Sample description: H-14

Sample date: 08/29/2023 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	3.25	0.00	3.25								387.00	248
DL	0.50	0.50	0.50								1.00	10

H-16

H-16

Sample description: H-16

Sample date: 08/29/2023 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	0.67	0.00	0.67								203.00	130
DL	0.50	0.50	0.50								1.00	10

PP-27

PP-27

Sample description: PP-27

Sample date: 08/29/2023 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	11.20	0.00	11.20								888.00	568
DL	0.50	0.50	0.50								1.00	10

PP-38

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

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

PP-38**PP-38**Sample description: PP-38Sample date: 08/29/2023 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	10.10	0.00	10.10								1,170.00	749
DL	0.50	0.50	0.50								1.00	10

PP-5**PP-5**Sample description: PP-5Sample date: 08/29/2023 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	22.60	0.00	22.60								1,150.00	735
DL	0.50	0.50	0.50								1.00	10

PP-8**PP-8**Sample description: PP-8Sample date: 08/29/2023 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	13.10	0.00	13.10								893.00	572
DL	0.50	0.50	0.50								1.00	10

D. SOIL ANALYSES

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

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

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field 1 - 05/25/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 10/07/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		14.70
DL	1,000.00	1,000.00	1,000.00		0.10

Field 10 - 11/28/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,100.00	3,100.00	27,100.00		11.00
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

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

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

Corn Silages

Sample and source description: Corn Silages

Sample date: 09/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,900.00	1,100.00	4,400.00		1.80
DL	1,000.00	1,000.00	1,000.00		0.10

Field 2 - 05/26/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 10/08/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		14.70
DL	1,000.00	1,000.00	1,000.00		0.10

Field 28E - 12/09/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,500.00	3,200.00	25,400.00		12.70
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 28E - 06/15/2023: Corn, silage

Corn Silages

Sample and source description: Corn Silages

Sample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,400.00	700.00	3,000.00		2.20
DL	1,000.00	100.00	1,000.00		0.10

Field 28W - 12/10/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 52.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,600.00	2,200.00	16,100.00		11.00
DL	1,000.00	1,000.00	1,000.00		0.10

Field 28W - 06/14/2023: Corn, silage

Corn Silages

Sample and source description: Corn Silages

Sample date: 10/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,400.00	800.00	4,900.00		2.10
DL	1,000.00	100.00	1,000.00		0.10

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

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

Field 3 EW - 11/03/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 04/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,800.00	4,200.00	31,700.00		12.20
DL	1,000.00	1,000.00	1,000.00		0.10

Field 3 EW - 05/18/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 09/30/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		14.70
DL	1,000.00	1,000.00	1,000.00		0.10

Field 31 - 11/23/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,400.00	4,200.00	33,500.00		12.00
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 31 - 06/08/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 10/21/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		14.70
DL	1,000.00	1,000.00	1,000.00		0.10

Field 32 - 11/23/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,400.00	4,200.00	33,500.00		12.00
DL	1,000.00	1,000.00	1,000.00		0.10

Field 32 - 06/08/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 10/21/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		14.70
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 33 - 12/23/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,000.00	2,900.00	22,500.00		10.80
DL	1,000.00	1,000.00	1,000.00		0.10

Field 33 - 06/20/2023: Corn, silage

Corn Silages

Sample and source description: Corn Silages

Sample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,100.00	1,000.00	3,700.00		2.40
DL	1,000.00	1,000.00	1,000.00		0.10

Field 34 - 11/28/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,000.00	2,900.00	22,500.00		10.80
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 34 - 06/21/2023: Corn, silage

Corn Silages

Sample and source description: Corn Silages

Sample date: 10/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,400.00	900.00	3,500.00		2.10
DL	1,000.00	100.00	1,000.00		0.10

Field 35 - 11/12/2020: Alfalfa, hay

Alfalfa Haylage

Sample and source description: Alfalfa Haylage

Sample date: 04/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,300.00	3,300.00	29,600.00		13.60
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 06/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,320.00	2,500.00	25,000.00		5.90
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 35 - 11/12/2020: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 07/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,640.00	2,600.00	24,000.00		5.60
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 09/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,280.00	2,500.00	27,000.00		5.50
DL	1,000.00	1,000.00	1,000.00		0.10

Field 36 - 11/10/2020: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 06/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	38,400.00	2,700.00	26,000.00		5.40
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 36 - 11/10/2020: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 07/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	38,720.00	2,600.00	28,000.00		5.40
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 09/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 12.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,440.00	2,800.00	28,000.00		5.50
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 13.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,880.00	2,400.00	25,000.00		5.50
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 36 - 11/10/2020: Alfalfa, hay

Alfalfa Haylage

Sample and source description: Alfalfa Haylage

Sample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 56.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,700.00	1,100.00	8,900.00		6.10
DL	1,000.00	1,000.00	1,000.00		0.10

Field 37 - 11/15/2019: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 05/31/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,160.00	2,300.00	22,000.00		5.20
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 12.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,800.00	2,400.00	26,000.00		5.10
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 37 - 11/15/2019: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 06/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,880.00	2,200.00	21,000.00		5.50
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 08/29/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,040.00	2,200.00	22,000.00		5.90
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Haylage

Sample and source description: Alfalfa Haylage

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

Moisture: 57.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,300.00	1,200.00	7,000.00		7.60
DL	1,000.00	1,000.00	1,000.00		0.10

Field 38 - 11/15/2019: Alfalfa, hay

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

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

Field 38 - 11/15/2019: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 06/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,640.00	2,200.00	27,000.00		5.70
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 06/29/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,040.00	2,400.00	22,000.00		5.10
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 07/29/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,520.00	2,200.00	24,000.00		6.00
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 38 - 11/15/2019: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 08/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,640.00	2,300.00	21,000.00		5.70
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	40,960.00	2,600.00	22,000.00		6.00
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Haylage

Sample and source description: Alfalfa Haylage

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

Moisture: 57.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,300.00	1,200.00	7,000.00		7.60
DL	1,000.00	1,000.00	1,000.00		0.10

Field 4 NS - 11/10/2019: Alfalfa, hay

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

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

Field 4 NS - 11/10/2019: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 05/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 13.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,480.00	2,700.00	30,000.00		5.60
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 05/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,160.00	2,500.00	31,000.00		5.50
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 06/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,920.00	2,500.00	28,000.00		5.90
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 4 NS - 11/10/2019: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 07/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,920.00	2,400.00	30,000.00		6.30
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 08/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,160.00	2,400.00	30,000.00		5.90
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Haylage

Sample and source description: Alfalfa Haylage

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,200.00	2,930.00	30,500.00		13.80
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 4 NS - 11/10/2019: Alfalfa, hay

Alfalfa Haylage

Sample and source description: Alfalfa Haylage

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 44.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,600.00	2,780.00	27,900.00		13.30
DL	1,000.00	1,000.00	1,000.00		0.10

Field 5 NS - 05/10/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 09/22/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		14.70
DL	1,000.00	1,000.00	1,000.00		0.10

Field 6 EW - 11/28/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,400.00	2,700.00	24,200.00		12.20
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 6 EW - 06/07/2023: Corn, silage

Corn Silages

Sample and source description: Corn Silages

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,700.00	1,200.00	4,900.00		2.00
DL	1,000.00	1,000.00	1,000.00		0.10

Field 7 - 11/07/2014: Almond, in shell

Almonds

Sample and source description: Almonds

Sample date: 09/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 4.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	68,419.00	10,526.00	52,628.00		4.50
DL	1,000.00	1,000.00	1,000.00		0.10

Field 8 - 01/10/2017: Almond, in shell

Almonds

Sample and source description: Almonds

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 4.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	68,419.00	10,526.00	52,628.00		4.50
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Field 9 - 01/08/2017: Almond, in shell

Almonds

Sample and source description: Almonds

Sample date: 09/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 4.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	68,419.00	10,526.00	52,628.00		4.50
DL	1,000.00	1,000.00	1,000.00		0.10

H14-15 - 10/31/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 04/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,800.00	3,800.00	24,600.00		10.90
DL	1,000.00	1,000.00	1,000.00		0.10

H14-15 - 05/08/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 09/15/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		14.70
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

H16-17 - 10/31/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 04/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 56.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,300.00	3,500.00	21,000.00		9.90
DL	1,000.00	1,000.00	1,000.00		0.10

H16-17 - 06/01/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 10/14/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		14.70
DL	1,000.00	1,000.00	1,000.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

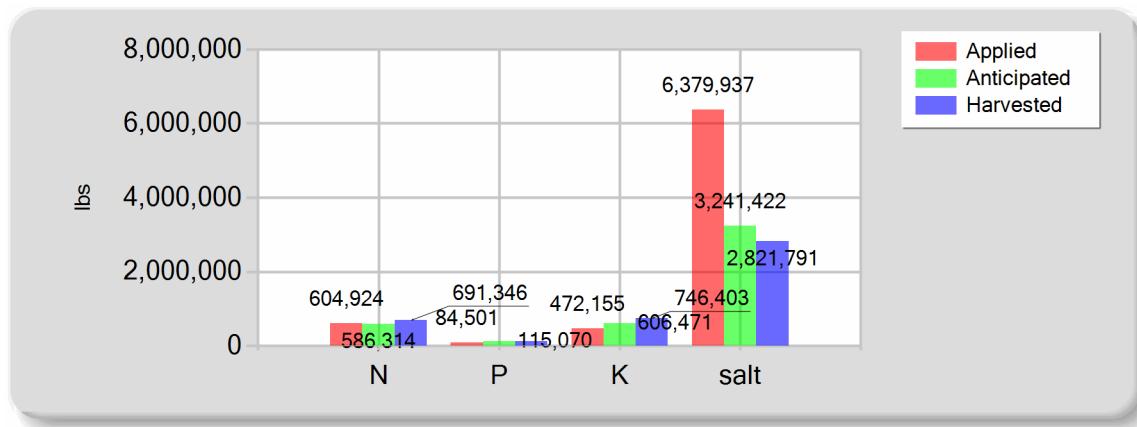
Reporting period 01/01/2023 to 12/31/2023.

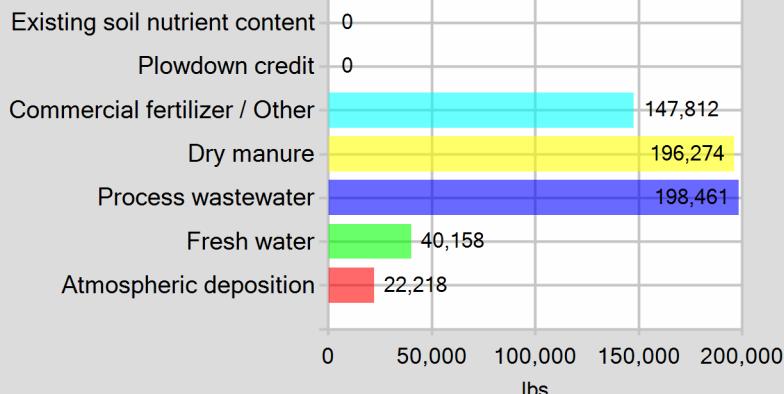
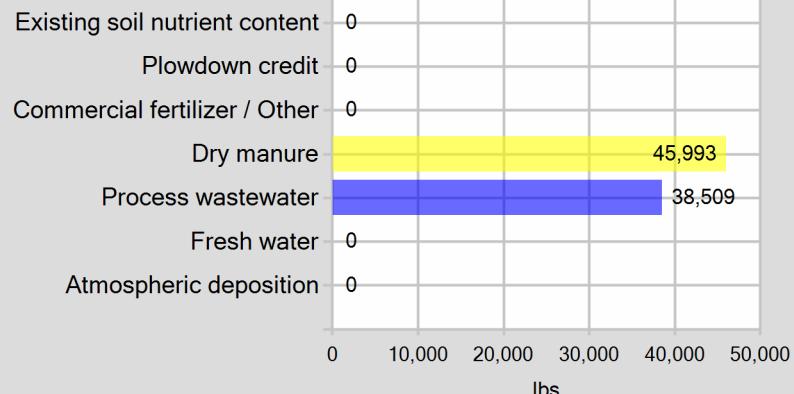
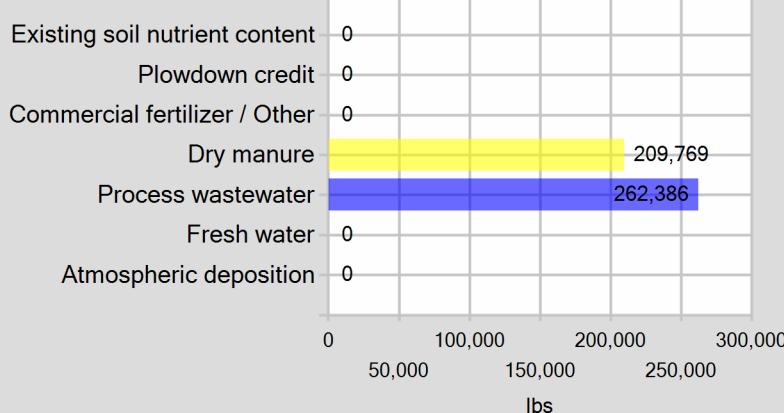
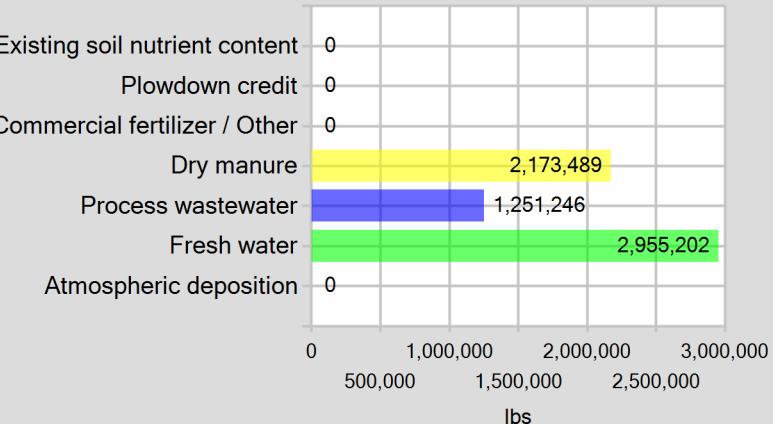
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	147,812.00	0.00	0.00	0.00
Dry manure	196,274.49	45,992.81	209,768.95	2,173,489.14
Process wastewater	198,461.46	38,508.50	262,385.83	1,251,245.96
Fresh water	40,158.07	0.00	0.00	2,955,202.03
Atmospheric deposition	22,218.00	0.00	0.00	0.00
Total nutrients applied	604,924.02	84,501.31	472,154.78	6,379,937.13
Anticipated crop nutrient removal	586,314.00	115,070.20	606,471.20	3,241,422.00
Actual crop nutrient removal	691,345.77	120,746.89	746,403.34	2,821,790.96
Nutrient balance	-86,421.75	-36,245.57	-274,248.56	3,558,146.17
Applied to removed ratio	0.87	0.70	0.63	2.26

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL



C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE**Pounds of nitrogen applied****Pounds of phosphorus applied****Pounds of potassium applied****Pounds of salt applied**

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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

MCREE TRIANGLE M DAIRY:

All fields except 10, 6, 28E and 28W are irrigated with subsurface drip tape, these 4 are still flood or furrow irrigated.

Almonds are irrigated with drip tape and all Uan-32 fertilizer is applied through drip lines.

Tomato H14/15 and H16/17 was affected by rain resulting in mold damage. Processor refused crop with higher rates of mold thus reducing Crop Removal resulting in the higher Ratios.

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.

Michael McRee

SIGNATURE OF OWNER OF FACILITY

Michael McRee

PRINT OR TYPE NAME

Jul 1, 2024

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

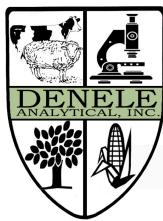
Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

Groundwater Monitoring

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

Storm Water Monitoring

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/23/23 2:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/25/23

Irrigation/ Ground Water (H1)

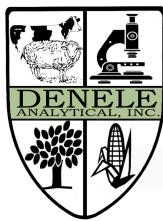
SOURCE: Canal Water

NOTES: Temperature was above qualifying at 24.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
C.W.D. Canal	T3235036D	Electrical Conductivity (EC)	EPA 120.1 and	< 0.100	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	12.9	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	101	95.1 (T3235024B)	95.9 (T3235024B)	0.815
Electrical Conductivity (EC)	97.1			4.81
Nitrate Nitrogen (NO3-N)	104			7.24

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/23/23 2:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/25/23

Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 25.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-1W	T3235036E	Electrical Conductivity (EC)	EPA 120.1 and	0.334	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	3.25	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	214	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	101	95.1 (T3235024B)	95.9 (T3235024B)	0.815
Electrical Conductivity (EC)	97.1			4.81
Nitrate Nitrogen (NO3-N)	104			7.24

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



DENELE ANALYTICAL, INC.
865 S. KILROY
TURLOCK, CA 95380
PH# 209-634-9055 FAX# 209-634-9057

Client: McREE TRIANGLE M DAIRY
Mailing address: 11812 Avenue 18, Chowchilla CA 93610
(not facility address)
Phone#: 559-871-8000

IRRIGATION/GROUND WATER

H1 EC*, NO3-N, NH4-N*
H6 EC, TN, TDS
H7 Combination of H1 & H6
H14 EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb
Carb, SO4, Cl, TDS

PROCESS WASTE WATER

H3 EC*, NH4-N, TKN, TP, K, TDS
H4 EC*, NO3-N, NH4-N, TKN, TP, K, TDS
H5 Ca, Mg, Na, Bicarb, Carb, SO4, Cl
H8 Combination of H3 & H5
H9 Combination of H4 & H5

TILE DRAIN

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

*Required Field Measurement

(Check here if performed)

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis			
1	8-23-23	1135	POND - D-3		26.4C		X			
2										
3	8-23-23	1145	POND - A-3		26.2C		X			
4										
5	8-23-23	1155	L6 - 1 - 3		26.2C		X			
6										
7	8-23-23	1205	C.W.D. CANAL		21.6C		X			
8										
9	8-23-23	1215	DW - 1W		25.6C		X			
10										

ANALYSIS TO BE COMPLETED:

DISCHARGE WATER

E1 EC*, Temp*, pH*, NO3-N, NH4-N, TKN, TP, K, TDS, Dissolved Oxygen*,
BOD 5, TSS, Total & Fecal Coliforms
E2 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Dissolved Oxygen*,
Total & Fecal Coliforms
E3 EC*, Temp*, pH*, NO3-N, NH4-N*, TP, Total & Fecal Coliforms
E4 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Total & Fecal Coliform

MANURE

M1 % Moisture
M3 TN TP, K, % Moisture
M4 Ca, Mg, Na, Bicarb, Carb, SO4, Cl, Ash
M7 Combination of M3 & M4

PLANT TISSUE

F18 % Moisture, Ash, TN, P, K, DM and as received
F18+ % Moisture, Ash, TN, P, K, DM and as received
(Package also includes NIR DCAD)

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

SOIL

K3 Soluble Phosphorus
K4 1ft NO3, Organic Matter
K5 Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)
K6 0-1ft EC, NO3, Soluble P, K, Organic Matter
K7 Combination of K3 & K4
K8 Combination of K3 & K5

H1	H2	M3	F18	OTHER

CHAIN OF CUSTODY RECORDING

Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)
1st 	HeartLand Consulting		8-23-23 1430	Logged In By: LABORATORY NUMBER
2nd 	DENELE ANALYTICAL, INC.	8-23-23 2:30		T3235036

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

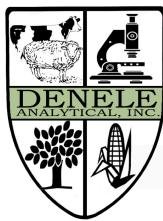
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 18.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-33 N	T3241015A	Electrical Conductivity (EC)	EPA 120.1 and	0.876	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	8.07	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	561	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

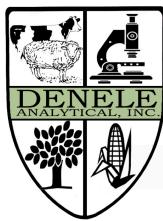
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 17.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-32	T3241015B	Electrical Conductivity (EC)	EPA 120.1 and	1.14	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	11.7	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	729	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

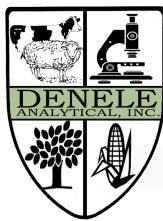
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 18.4c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
H-16	T3241015C	Electrical Conductivity (EC)	EPA 120.1 and	0.203	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	0.666	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	130	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

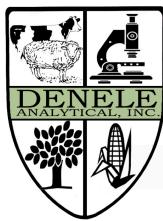
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 18.4c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
H-14	T3241015D	Electrical Conductivity (EC)	EPA 120.1 and	0.387	mmhos/cm
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	3.25	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	248	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH ₃ -N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO ₃ -N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 18.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
PP-MS Barn	T3241015E	Electrical Conductivity (EC)	EPA 120.1 and	0.943	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	12.9	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	604	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



DENELE ANALYTICAL, INC.
865 S. KILROY
TURLOCK, CA 95380
PH# 209-634-9055 FAX# 209-634-9057

Client: McREE TRIANGLE M DAIRY
Mailing address: 11812 Avenue 18, Chowchila CA 93610
(not facility address)
Phone#: 559-871-8000

IRRIGATION/GROUND WATER

H1 EC*, NO3-N, NH4-N*
H6 EC, TN, TDS
H7 Combination of H1 & H6
H14 EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb
Carb, SO4, Cl, TDS

PROCESS WASTE WATER

H3 EC*, NH4-N, TKN, TP, K, TDS
H4 EC*, NO3-N, NH4-N, TKN, TP, K, TDS
H5 Ca, Mg, Na, Bicarb, Carb, SO4, Cl
H8 Combination of H3 & H5
H9 Combination of H4 & H5

TILE DRAIN

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

*Required Field Measurement

— (Check here if performed)

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis			
1	8/29/23	0915	DW-33N		18.0'	X				
2	↓	0920	DW-32		17.6'	X				
3	↓	0950	H-16		18.4'	X				
4	8/29/23	1000	H-14		18.4'	X				
5	↓	↓	PP-ms Barn		18.2'	X				
6			PP-23 Hoose		18.2'	X				
7										
8										
9										
10										

CHAIN OF CUSTODY RECORDING

Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)
1st 	HeartLand Consulting		8-29-23 1330	Logged In By: LABORATORY NUMBER
2nd 	DENELE ANALYTICAL, INC.	8-29-23 1:30		T3241015

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

DAIRY COMPLIANCE

Authorized Copy Released To:

hlcdan@yahoo.com

Sampled By: Daniel Roos

Project ID: _____

SOIL

K3 Soluble Phosphorus
K4 1ft NO3, Organic Matter
K5 Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)
K6 0-1ft EC, NO3, Soluble P, K, Organic Matter
K7 Combination of K3 & K4
K8 Combination of K3 & K5

	H1	H3	M3	F18	OTHER



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

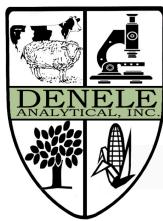
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 19.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
PP-8	T3241014A	Electrical Conductivity (EC)	EPA 120.1 and	0.893	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	13.1	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	572	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

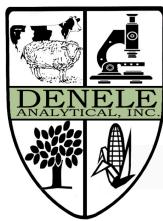
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 19.c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
PP-5	T3241014B	Electrical Conductivity (EC)	EPA 120.1 and	1.15	mmhos/cm
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	22.6	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	735	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH ₃ -N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO ₃ -N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

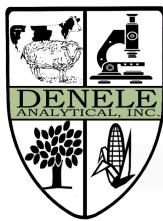
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 18.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-23 E	T3241014C	Electrical Conductivity (EC)	EPA 120.1 and	0.270	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	0.429	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	173	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

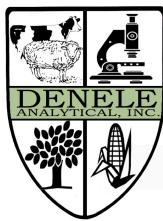
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 19.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-38 N	T3241014F	Electrical Conductivity (EC)	EPA 120.1 and	0.748	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	7.17	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	479	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 19.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
PP-38	T3241014G	Electrical Conductivity (EC)	EPA 120.1 and	1.17	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	10.1	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	749	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

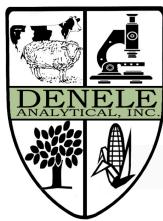
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 19.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-36	T3241014H	Electrical Conductivity (EC)	EPA 120.1 and	1.32	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	15.1	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	842	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM

Irrigation/ Ground Water (H1)

SUBMITTED BY: Dan

SOURCE: Irrigation Water

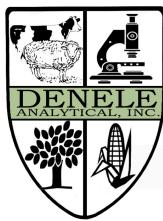
ANALYZED DATE: 8/30/23

NOTES: Temperature was above qualifying at 18.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-35 N	T3241014I	Electrical Conductivity (EC)	EPA 120.1 and	1.28	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	15.2	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	817	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)

SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 19.4c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-33 S	T3241014J	Electrical Conductivity (EC)	EPA 120.1 and	0.685	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	4.80	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	438	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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



DENELE ANALYTICAL, INC.
865 S. KILROY
TURLOCK, CA 95380
PH# 209-634-9055 FAX# 209-634-9057

Client: McREE TRIANGLE M DAIRY
Mailing address: 11812 Avenue 18, Chowchila CA 93610
(not facility address)
Phone#: 559-871-8000

IRRIGATION/GROUND WATER

H1 EC*, NO3-N, NH4-N*
H6 EC, TN, TDS
H7 Combination of H1 & H6
H14 EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb
Carb, SO4, Cl, TDS

PROCESS WASTE WATER

H3 EC*, NH4-N, TKN, TP, K, TDS
H4 EC*, NO3-N, NH4-N, TKN, TP, K, TDS
H5 Ca, Mg, Na, Bicarb, Carb, SO4, Cl
H8 Combination of H3 & H5
H9 Combination of H4 & H5

TILE DRAIN

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

*Required Field Measurement

(Check here if performed)

DISCHARGE WATER

E1 EC*, Temp*, pH*, NO3-N, NH4-N, TKN, TP, K, TDS, Dissolved Oxygen*,
BOD 5, TSS, Total & Fecal Coliforms
E2 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Dissolved Oxygen*,
Total & Fecal Coliforms
E3 EC*, Temp*, pH*, NO3-N, NH4-N*, TP, Total & Fecal Coliforms
E4 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Total & Fecal Coliform

MANURE

M1 % Moisture
M3 TN, TP, K, % Moisture
M4 Ca, Mg, Na, Bicarb, Carb, SO4, Cl, Ash
M7 Combination of M3 & M4

PLANT TISSUE

F18 % Moisture, Ash, TN, P, K, DM and as received
F18+ % Moisture, Ash, TN, P, K, DM and as received
(Package also includes NIR DCAD)
F19+ % Moisture, TN (Package includes complete plant tissue analysis)

DAIRY COMPLIANCE

Authorized Copy Released To:

hlcdn@yahoo.com

Sampled By: Daniel Roos

Project ID: _____

SOIL

K3 Soluble Phosphorus
K4 1ft NO3, Organic Matter
K5 Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)
K6 0-1ft EC, NO3, Soluble P, K, Organic Matter
K7 Combination of K3 & K4
K8 Combination of K3 & K5

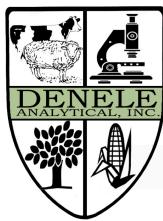
	H1	H3	M3	F18	OTHER

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis		
1	8-29-23	0750	PP-8		19.2'		H1		
2		0800	PP-5		19.2'		X		
3		0820	DW-23 E	DOMESTIC USE	18.8'		X		
4		0825	PP - ME BARN		19.0'		X		
5		0835	PP - 27		18.8'		X		
6		0845	DW - 38 N		19.0'		X		
7		0850	PP-38		19.6'		X		
8		0855	DW - 36		19.0'		X		
9		0900	DW - 35 N		18.8'		X		
10	8-29-23	0910	DW - 33 S		19.4'		X		

CHAIN OF CUSTODY RECORDING

Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)
1st 	HeartLand Consulting		8-29-23 1330	Logged In By: LABORATORY NUMBER
2nd 	DENELE ANALYTICAL, INC.	8-29-23 1:30		T3241014

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



Denele Analytical, Inc.

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

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

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 11/30/23 2:05 PM

Irrigation/ Ground Water (H1)

SUBMITTED BY: Dan

SOURCE: Well Water

ANALYZED DATE: 12/5/23

NOTES: Temperature was above qualifying at 20.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-IW	T3334013B	Electrical Conductivity (EC)	EPA 120.1 and	0.284	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	2.02	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	182	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	95.6			
Electrical Conductivity (EC)	97.0			0.106
Nitrate Nitrogen (NO3-N)	95.0	101 (T3334011D)	100 (T3334011D)	0.756

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



DENELE ANALYTICAL, INC.
865 S. KILROY
TURLOCK, CA 95380
PH# 209-634-9055 FAX# 209-634-9057

Client: McREE TRIANGLE M DAIRY
 Mailing address: 11812 Avenue 18, Chowchila CA 93610
 (not facility address)
 Phone#: 559-871-8000

IRRIGATION/GROUND WATER

H1 EC*, NO3-N, NH4-N*
 H6 EC, TN, TDS
 H7 Combination of H1 & H6
 H14 EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb
 Carb, SO4, Cl, TDS

PROCESS WASTE WATER

H3 EC*, NH4-N, TKN, TP, K, TDS
 H4 EC*, NO3-N, NH4-N, TKN, TP, K, TDS
 H5 Ca, Mg, Na, Bicarb, Carb, SO4, Cl
 H8 Combination of H3 & H5

H9 Combination of H4 & H5

TILE DRAIN

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

* Required Field Measurement

(Check here if performed)

Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis
11/30/23	1130	DW-25		20.0C	X	
11/30/23	1150	DW- 25 /W		20.2'	X	
3						
4						
5						
6						
7						
8						
9						
10						

CHAIN OF CUSTODY RECORDING

Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)
1st <i>Murphy</i>	HeartLand Consulting		11-30-23 1405	Logged In By: LABORATORY NUMBER
2nd <i>Murphy</i>	DENELE ANALYTICAL, INC.	11-30-23 2105		T3334013

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

DAIRY COMPLIANCE

Authorized Copy Released To:

hlcdan@yahoo.com

Sampled By: Daniel Roos

Project ID:

SOIL

K3 Soluble Phosphorus
 K4 1ft NO3, Organic Matter
 K5 Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)
 K6 0-1ft EC, NO3, Soluble P, K, Organic Matter
 K7 Combination of K3 & K4
 K8 Combination of K3 & K5

H1	H3	M3	F18	OTHER

Pages from 2023 AR McREE TRIANGLE M DAIRY

Final Audit Report

2024-07-02

Created:	2024-06-29
By:	Daniel Roos (hlcdan@yahoo.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAllor7wQrXzMg1ngPBv47G7L9D7OIBDVY

"Pages from 2023 AR McREE TRIANGLE M DAIRY" History

-  Document created by Daniel Roos (hlcdan@yahoo.com)
2024-06-29 - 9:13:26 PM GMT- IP address: 73.2.10.91
-  Document emailed to Michael McRee (dairyfarmer_007@yahoo.com) for signature
2024-06-29 - 9:13:40 PM GMT
-  Email viewed by Michael McRee (dairyfarmer_007@yahoo.com)
2024-06-30 - 3:22:21 AM GMT- IP address: 172.226.212.12
-  Document e-signed by Michael McRee (dairyfarmer_007@yahoo.com)
Signature Date: 2024-07-02 - 0:49:06 AM GMT - Time Source: server- IP address: 67.204.62.210
-  Agreement completed.
2024-07-02 - 0:49:06 AM GMT



Adobe Acrobat Sign