

**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: JOHANN DAIRY**

Physical address of dairy:

11511 W Floral AVE

Number and Street

Fresno

Fresno

93706

City

County

Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 10/03/2003

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0041-0030-0020-0000

**B. OPERATORS**

Verwey, John Bastian

Operator name: Verwey, John Bastian

Telephone no.: (559) 846-9862 (559) 779-9863

Landline Cellular

11511 W Floral AVE

Fresno

CA

93706

Mailing Address Number and Street

City

State

Zip Code

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

Verwey, Ann Mari

Legal owner name: Verwey, Ann Mari

Telephone no.: (559) 846-9863

Landline Cellular

11511 W Floral AVE

Fresno

CA

93706

Mailing Address Number and Street

City

State

Zip Code

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Verwey, John Bastian

Legal owner name: <u>Verwey, John Bastian</u>	Telephone no.: <u>(559) 846-9862</u>	<u>(559) 779-9863</u>
	Landline	Cellular
11511 W Floral AVE	Fresno	CA
Mailing Address Number and Street	City	State
		Zip Code

**This owner is responsible for paying permit fees.**

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**AVAILABLE NUTRIENTS**

**A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	1,600	1,520	700	680
Number under roof	4,225	450	0	0	0	0
Maximum number	4,230	460	1,680	1,600	760	700
Average number	4,225	450	1,600	1,520	700	680
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Holstein

Average milk production: 80 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 156,093.04 tons per reporting period

Total nitrogen from manure: 1,930,542.86 lbs per reporting period

After ammonia losses (30% loss applied): 1,351,380.00 lbs per reporting period

Total phosphorus from manure: 317,741.31 lbs per reporting period

Total potassium from manure: 836,884.73 lbs per reporting period

Total salt from manure: 2,092,818.75 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 159,408,000 gallons

Total nitrogen generated: 395,180.88 lbs

$$\begin{aligned}
 & 159,408,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 159,408,000 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 62,703.54 lbs

Total potassium generated: 491,554.41 lbs

Total salt generated: 2,552,945.13 lbs

**D. FRESH WATER SOURCES**

Source Description	Type
#001	Ground water
#1	Ground water
#3	Ground water
#7	Ground water
#9	Ground water

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Source Description	Type
A-1	Ground water
A-1-DOM	Ground water
A-2	Ground water
A-3	Ground water
A-5	Ground water
B-2	Ground water
S-1	Ground water
S-DOM	Ground water
W1	Ground water
W2	Ground water
W2-DOM	Ground water
W3	Ground water
W3-DOM	Ground water
W5-DOM	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**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/15/2023	Corral solids	2,650.00 ton	Dry-weight	5.8		18,200.00	5,690.00	37,400.00		0.00
06/10/2023	Corral solids	1,500.00 ton	Dry-weight	27.4		14,900.00	5,490.00	20,400.00		0.00
09/18/2023	Corral solids	1,000.00 ton	Dry-weight	25.5		20,300.00	4,910.00	20,700.00		0.00
11/10/2023	Corral solids	1,178.00 ton	Dry-weight	15.3		17,800.00	8,030.00	30,000.00		0.00

*No liquid nutrient exports entered.*

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	189,084.99	63,705.14	321,863.40	0.00
Process wastewater	0.00	0.00	0.00	0.00

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Total exports for all materials	189,084.99	63,705.14	321,863.40	0.00
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**APPLICATION AREA**

**A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	70	70	2	process wastewater	0041-0030-0020-0000
10	77	77	2	process wastewater	0041-0020-0027-0000
11	78	78	2	both	0041-0020-0027-0000
2	62	60	2	process wastewater	0041-0030-0020-0000
3	70	60	2	process wastewater	0041-0020-030S-0000
4	70	70	2	process wastewater	0041-0020-029S-0000
5	78	77	2	process wastewater	0041-0020-0031-0000
6	78	77	2	both	0041-0020-0031-0000
7	78	77	2	both	0041-0020-0051-0000
8	77	76	2	both	0041-0020-032S-0000
9	80	78	1	process wastewater	0041-0020-032S-0000
A-1	56	56	1	none	0035-0330-010S-0000
A-2	58	57	2	manure	0035-0330-010S-0000
A-3	38	38	1	none	0035-0330-020S-0000
A-4	80	80	1	none	0035-0330-020S-0000
A-5	60	60	1	none	0035-0070-010S-0000
A-6	60	60	2	manure	0035-0070-010S-0000
A-7	75	75	2	manure	0035-0070-010S-0000
B-1	78	76	2	both	0035-0110-024S-0000
B-2	78	76	2	process wastewater	0035-0110-024S-0000
B-3	78	77	2	process wastewater	0035-0110-024S-0000
B-4	78	77	1	none	0035-0110-024S-0000
N / S TURF	22	20	2	process wastewater	0041-0030-0020-0000
W-1N	40	35	2	manure	0035-0110-0001-0000
W-1S	40	40	2	manure	0035-0110-0001-0000
W-2	35	35	2	manure	0035-0110-0001-0000
W-3, 4	104	104	0	none	0035-0110-0001-0000
W-5	80	80	2	manure	0035-0110-0001-0000
Totals for areas that were used for application	1,462	1,431	43		
Totals for areas that were not used for application	416	415	5		
Land application area totals	1,878	1,846	48		

**B. CROPS AND HARVESTS**

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1

Field name: 1

09/28/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 70      Plant date: 09/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/14/2023	872.00 ton	Dry-weight		59.4	29,140.00	4,760.00	37,500.00		19.60

	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	12.46	294.76	48.15	379.32	1,982.58

05/04/2023: Corn, silage

Crop: Corn, silage      Acres planted: 70      Plant date: 05/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	1,628.00 ton	Dry-weight		66.0	24,286.00	3,450.00	17,100.00		6.10

	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	23.26	384.08	54.56	270.43	964.71

10

Field name: 10

11/01/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 77      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,685.00 ton	Dry-weight		65.1	15,305.00	3,640.00	24,300.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	21.88	233.77	55.60	371.17	1,588.54

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10

06/28/2023: Corn, silage

Crop: Corn, silage      Acres planted: 77      Plant date: 06/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/19/2023	1,431.00 ton	Dry-weight		67.1	21,300.00	3,480.00	14,700.00		16.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	18.58	260.47	42.56	179.76	2,066.62

11

Field name: 11

10/25/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 78      Plant date: 10/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	2,116.00 ton	Dry-weight		54.7	17,690.00	4,480.00	31,900.00		13.90

	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	27.13	434.79	110.11	784.04	3,416.36

07/14/2023: Corn, silage

Crop: Corn, silage      Acres planted: 78      Plant date: 07/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/25/2023	1,208.00 ton	Dry-weight		75.2	22,320.00	4,080.00	24,500.00		17.00

	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	15.49	171.45	31.34	188.20	1,305.88

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2

Field name: 2

09/29/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 60      Plant date: 09/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/14/2023	637.00 ton	Dry-weight		66.3	33,670.00	5,150.00	42,500.00		16.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	10.62	240.93	36.85	304.11	1,173.52

05/31/2023: Corn, silage

Crop: Corn, silage      Acres planted: 60      Plant date: 05/31/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,405.00 ton	Dry-weight		74.4	17,790.00	3,290.00	17,500.00		8.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	23.42	213.29	39.44	209.81	971.14

3

Field name: 3

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

Crop: Wheat, silage, soft dough      Acres planted: 60      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 (%)
05/23/2023	1,353.00 ton	Dry-weight		58.2	18,138.00	3,360.00	16,500.00		8.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	22.55	341.93	63.34	311.05	1,602.40

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3

05/30/2023: Corn, silage

Crop: Corn, silage      Acres planted: 60      Plant date: 05/30/2023

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	1,112.00 ton	Dry-weight		67.7	12,757.00	3,950.00	17,700.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	18.53	152.73	47.29	211.91	790.19

4

Field name: 4

11/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 70      Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,271.00 ton	Dry-weight		70.3	19,263.00	5,600.00	27,500.00		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	18.16	207.76	60.40	296.60	1,164.82

05/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 70      Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	2,170.00 ton	Dry-weight		58.4	18,424.00	3,550.00	16,800.00		6.10

	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	31.00	475.19	91.56	433.31	1,573.31

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**5**

Field name: 5

11/04/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 77      Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,762.00 ton	Dry-weight		70.3	19,265.00	5,600.00	27,500.00		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	22.88	261.86	76.12	373.80	1,468.00

06/07/2023: Corn, silage

Crop: Corn, silage      Acres planted: 77      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	1,773.00 ton	Dry-weight		69.3	17,884.00	3,470.00	27,700.00		6.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	23.03	252.84	49.06	391.62	975.52

**6**

Field name: 6

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

Crop: Wheat, silage, soft dough      Acres planted: 77      Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	2,196.00 ton	Dry-weight		65.9	17,751.00	5,830.00	27,600.00		11.80

	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	28.52	345.26	113.40	536.83	2,295.13

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6

06/23/2023: Corn, silage

Crop: Corn, silage      Acres planted: 77      Plant date: 06/23/2023

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	1,339.00 ton	Dry-weight		72.5	26,170.00	4,210.00	22,100.00		17.00

	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	17.39	250.30	40.27	211.37	1,625.93

7

Field name: 7

11/16/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 77      Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,267.00 ton	Dry-weight		65.3	18,293.00	4,180.00	26,500.00		14.30

	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	16.45	208.90	47.73	302.62	1,632.98

06/30/2023: Corn, silage

Crop: Corn, silage      Acres planted: 77      Plant date: 06/30/2023

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	1,504.00 ton	Dry-weight		63.7	15,770.00	2,900.00	21,200.00		17.00

	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	19.53	223.63	41.12	300.63	2,410.70

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**8**

Field name: 8

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

Crop: Wheat, silage, soft dough      Acres planted: 76      Plant date: 10/27/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,346.00 ton	Dry-weight		72.9	22,025.00	6,100.00	39,600.00		14.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	17.71	211.42	58.55	380.12	1,372.67

05/17/2023: Corn, silage

Crop: Corn, silage      Acres planted: 76      Plant date: 05/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/30/2023	2,380.00 ton	Dry-weight		67.1	21,300.00	3,480.00	14,700.00		16.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	31.32	438.90	71.71	302.91	3,482.38

**9**

Field name: 9

07/10/2023: Corn, silage

Crop: Corn, silage      Acres planted: 78      Plant date: 07/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/14/2023	1,420.00 ton	Dry-weight		56.6	16,705.00	2,620.00	14,200.00		5.80

	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	18.21	263.97	41.40	224.39	916.52

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

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

**A-1**Field name: A-1

01/10/2015: Almond, in shell

Crop: Almond, in shell      Acres planted: 56      Plant date: 01/10/2015

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/01/2023	72.00 ton	Dry-weight		5.0	68,400.00	10,500.00	52,600.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	213.00	24.00	114.00	66.00
Total actual harvest content	1.29	167.09	25.65	128.49	109.93

**A-2**Field name: A-2

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

Crop: Wheat, silage, soft dough      Acres planted: 57      Plant date: 11/11/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,244.00 ton	Dry-weight		65.5	20,823.00	3,000.00	16,700.00		12.60

	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	21.82	313.57	45.18	251.48	1,897.43

05/25/2023: Corn, silage

Crop: Corn, silage      Acres planted: 57      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 (%)
10/02/2023	1,421.00 ton	Dry-weight		59.8	17,978.00	1,990.00	8,450.00		5.20

	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	24.93	360.34	39.89	169.37	1,042.27

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

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

A-3

Field name: A-3

01/12/2015: Almond, in shell

Crop: Almond, in shell      Acres planted: 38      Plant date: 01/12/2015

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	48.80 ton	Dry-weight		5.0	68,400.00	10,500.00	52,600.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	213.00	24.00	114.00	66.00
Total actual harvest content	1.28	166.90	25.62	128.34	109.80

A-4

Field name: A-4

01/01/2017: Almond, in shell

Crop: Almond, in shell      Acres planted: 80      Plant date: 01/01/2017

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	102.80 ton	Dry-weight		5.0	68,400.00	10,500.00	52,600.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	213.00	24.00	114.00	66.00
Total actual harvest content	1.29	167.00	25.64	128.42	109.87

A-5

Field name: A-5

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

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

**A-5**

01/01/2018: Almond, in shell

Crop: Almond, in shell      Acres planted: 60      Plant date: 01/01/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	77.10 ton	Dry-weight		5.0	68,400.00	10,500.00	52,600.00		4.50
Anticipated harvest content									
Total actual harvest content									

**A-6**Field name: A-6

11/19/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 60      Plant date: 11/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,201.00 ton	Dry-weight		68.7	20,893.00	2,850.00	20,600.00		11.20
Anticipated harvest content									
Total actual harvest content									

06/16/2023: Corn, silage

Crop: Corn, silage      Acres planted: 60      Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/07/2023	1,372.00 ton	Dry-weight		68.5	22,560.00	4,070.00	21,600.00		9.10
Anticipated harvest content									
Total actual harvest content									

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

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

**A-7**Field name: A-7

11/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 75 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,562.00 ton	Dry-weight		62.3	18,675.00	2,330.00	12,200.00		8.80

	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	20.83	293.26	36.59	191.58	1,381.89

06/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/07/2023	1,701.00 ton	Dry-weight		71.6	27,450.00	4,760.00	25,800.00		17.00

	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	22.68	353.62	61.32	332.36	2,189.98

**B-1**Field name: B-1

06/10/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 06/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/14/2023	1,459.00 ton	Dry-weight		57.2	19,010.00	3,310.00	27,600.00		14.00

	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	19.20	312.39	54.39	453.55	2,300.61

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

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

**B-1**

04/28/2023: Corn, silage

Crop: Corn, silage      Acres planted: 76      Plant date: 04/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	2,728.00 ton	Dry-weight		66.5	19,613.00	3,710.00	22,300.00		8.10

	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	35.89	471.68	89.22	536.30	1,948.01

**B-2**Field name: B-2

10/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 76      Plant date: 10/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	2,084.00 ton	Dry-weight		53.1	28,940.00	4,380.00	25,100.00		10.00

	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	27.42	744.36	112.66	645.60	2,572.09

06/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 76      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 (%)
10/02/2023	1,564.00 ton	Dry-weight		71.2	17,677.00	2,450.00	1,490.00		6.80

	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	20.58	209.53	29.04	17.66	806.04

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

B-3

Field name: B-3

10/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 77      Plant date: 10/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,167.00 ton	Dry-weight		76.5	29,375.00	5,030.00	28,300.00		12.90

	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	15.16	209.25	35.83	201.59	918.90

05/12/2023: Corn, silage

Crop: Corn, silage      Acres planted: 77      Plant date: 05/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	1,310.00 ton	Dry-weight		64.6	19,526.00	3,290.00	19,200.00		7.10

	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	17.01	235.19	39.63	231.27	855.21

B-4

Field name: B-4

01/10/2019: Almond, in shell

Crop: Almond, in shell      Acres planted: 77      Plant date: 01/10/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/01/2023	98.90 ton	Dry-weight		5.0	68,400.00	10,500.00	52,600.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	213.00	24.00	114.00	66.00
Total actual harvest content	1.28	166.92	25.62	128.36	109.82

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

**N / S TURF**Field name: N / S TURF

10/04/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 20      Plant date: 10/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/14/2023	427.00 ton	Dry-weight		63.0	30,010.00	4,910.00	41,300.00		20.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	21.35	474.13	77.57	652.50	3,223.00

05/04/2023: Corn, silage

Crop: Corn, silage      Acres planted: 20      Plant date: 05/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	527.00 ton	Dry-weight		65.0	19,860.00	2,920.00	18,200.00		8.10

	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	26.35	366.32	53.86	335.70	1,494.05

**W-1N**Field name: W-1N

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

Crop: Wheat, silage, soft dough      Acres planted: 35      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 (%)
04/14/2023	749.00 ton	Dry-weight		59.4	29,140.00	4,760.00	37,500.00		19.60

	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	21.40	506.36	82.71	651.63	3,405.85

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

**W-1N**

05/24/2023: Corn, silage

Crop: Corn, silage      Acres planted: 35      Plant date: 05/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	960.00 <i>ton</i>	Dry-weight		62.7	18,949.00	3,020.00	22,600.00		5.40

	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	27.43	387.73	61.79	462.43	1,104.93

**W-1S**

Field name: W\_1S

11/04/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 40      Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/14/2023	831.00 <i>ton</i>	Dry-weight		59.4	29,140.00	4,760.00	37,500.00		19.60

	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	20.78	491.57	80.30	632.60	3,306.38

05/23/2023: Corn, silage

Crop: Corn, silage      Acres planted: 40      Plant date: 05/23/2023

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	940.00 <i>ton</i>	Dry-weight		64.5	21,568.00	3,020.00	26,400.00		6.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	23.50	359.86	50.39	440.48	1,117.90

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

**W-2**Field name: W-2

10/15/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 35 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/14/2023	598.00 ton	Dry-weight		60.7	19,200.00	3,300.00	29,500.00		13.80

	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	17.09	257.84	44.32	396.17	1,853.25

05/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 35 Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	958.00 ton	Dry-weight		59.3	16,158.00	3,030.00	12,600.00		5.80

	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	27.37	360.01	67.51	280.73	1,292.26

**W-5**Field name: W-5

10/19/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 80 Plant date: 10/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,663.00 ton	Dry-weight		68.6	19,640.00	4,390.00	18,900.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	20.79	256.39	57.31	246.73	1,501.27

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

W-5

05/26/2023: Corn, silage

Crop: Corn, silage      Acres planted: \_\_\_\_\_ 80      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 (%)
10/02/2023	1,857.00 ton	Dry-weight		71.0	15,048.00	3,000.00	24,800.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,200.00
Total actual harvest content	23.21	202.59	40.39	333.89	861.65

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

**NUTRIENT BUDGET****A. LAND APPLICATIONS**

1 - 09/28/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough Plant date: 09/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Blended Lg and Fresh Water Application	Process wastewater	69.22	17.02	118.25	601.53
#1	Ground water	5.91	0.00	0.00	555.95
Application event totals		75.13	17.02	118.25	1,157.48
12/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	34.61	8.51	59.12	300.76
#1	Ground water	3.39	0.00	0.00	318.58
Application event totals		37.99	8.51	59.12	619.34
02/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	73.34	8.49	101.56	358.44
#1	Ground water	2.74	0.00	0.00	257.54
Application event totals		76.07	8.49	101.56	615.98

1 - 05/04/2023: Corn, silage

Field name: 1

Crop: Corn, silage Plant date: 05/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**Annual Report - General Order No. R5-2007-0035**

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

1 - 05/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	3.23	0.00	0.00	304.14	5,022,000.00 gal
Application event totals		3.23	0.00	0.00	304.14	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	2.82	0.00	0.00	265.44	4,383,000.00 gal
Application event totals		2.82	0.00	0.00	265.44	
05/30/2023	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
#001	Ground water	4.72	0.00	0.00	362.56	6,484,500.00 gal
Application event totals		4.72	0.00	0.00	362.56	
06/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	30.08	7.07	40.58	193.64	1,728,000.00 gal
#1	Ground water	2.71	0.00	0.00	255.35	4,216,500.00 gal
Application event totals		32.79	7.07	40.58	449.00	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	4.78	0.00	0.00	367.34	6,570,000.00 gal
Application event totals		4.78	0.00	0.00	367.34	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	30.08	7.07	40.58	193.64	1,728,000.00 gal
#1	Ground water	2.79	0.00	0.00	262.44	4,333,500.00 gal
Application event totals		32.87	7.07	40.58	456.08	

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

1 - 05/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	4.71	0.00	0.00	362.31	6,480,000.00 gal
Application event totals		4.71	0.00	0.00	362.31	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	3.48	0.00	0.00	327.03	5,400,000.00 gal
Application event totals		3.48	0.00	0.00	327.03	
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
Blended Lg and Fresh Water Application	Process wastewater	87.14	12.61	91.05	585.05	1,728,000.00 gal
#001	Ground water	2.55	0.00	0.00	196.25	3,510,000.00 gal
Application event totals		89.69	12.61	91.05	781.30	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	8.38	0.00	0.00	788.14	13,014,000.00 gal
Application event totals		8.38	0.00	0.00	788.14	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	43.57	6.30	45.53	292.52	864,000.00 gal
#1	Ground water	1.39	0.00	0.00	130.54	2,155,500.00 gal
Application event totals		44.96	6.30	45.53	423.06	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	2.87	0.00	0.00	270.07	4,459,500.00 gal
Application event totals		2.87	0.00	0.00	270.07	

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

10 - 11/01/2022: Wheat, silage, soft dough

Field name: 10

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/17/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	78.66	19.34	134.37	683.55	4,320,000.00 gal
#7	Ground water	9.51	0.00	0.00	837.05	12,220,800.00 gal
Application event totals		88.16	19.34	134.37	1,520.60	
01/10/2023	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
Blended Lg and Fresh Water Application	Process wastewater	100.00	11.57	138.49	488.79	2,592,000.00 gal
#7	Ground water	6.05	0.00	0.00	532.94	7,780,800.00 gal
Application event totals		106.06	11.57	138.49	1,021.73	
03/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#7	Ground water	3.51	0.00	0.00	309.05	4,512,000.00 gal
Application event totals		3.51	0.00	0.00	309.05	

10 - 06/28/2023: Corn, silage

Field name: 10

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#7	Ground water	9.49	0.00	0.00	835.74	12,201,600.00 gal
Application event totals		9.49	0.00	0.00	835.74	

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10 - 06/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	79.22	11.46	82.78	531.86	1,728,000.00 gal
#9	Ground water	0.81	0.00	0.00	388.85	7,569,600.00 gal
Application event totals		80.03	11.46	82.78	920.71	
08/07/2023	Surface (irrigation)	No precipitation	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
#7	Ground water	4.64	0.00	0.00	408.66	5,966,400.00 gal
Application event totals		4.64	0.00	0.00	408.66	
08/31/2023	Surface (irrigation)	No precipitation	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	79.22	11.46	82.78	531.86	1,728,000.00 gal
#7	Ground water	2.79	0.00	0.00	245.26	3,580,800.00 gal
Application event totals		82.00	11.46	82.78	777.12	
09/12/2023	Surface (irrigation)	No precipitation	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
#9	Ground water	0.61	0.00	0.00	291.70	5,678,400.00 gal
Application event totals		0.61	0.00	0.00	291.70	

11 - 10/25/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 10/25/2022

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

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

11 - 10/25/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/11/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	31.06	7.64	53.06	269.92	1,728,000.00 gal
#9	Ground water	0.39	0.00	0.00	184.39	3,636,000.00 gal
Application event totals		31.44	7.64	53.06	454.30	
10/20/2022	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	137.16	42.88	281.85	0.00	312.00 ton
Application event totals		137.16	42.88	281.85	0.00	
01/06/2023	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
Blended Lg and Fresh Water Application	Process wastewater	164.54	19.04	227.86	804.20	4,320,000.00 gal
#7	Ground water	4.88	0.00	0.00	429.63	6,354,000.00 gal
Application event totals		169.42	19.04	227.86	1,233.83	
02/20/2023	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
#9	Ground water	0.42	0.00	0.00	200.64	3,956,400.00 gal
Application event totals		0.42	0.00	0.00	200.64	
05/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#7	Ground water	6.12	0.00	0.00	538.44	7,963,200.00 gal
Application event totals		6.12	0.00	0.00	538.44	

11 - 07/14/2023: Corn, silage

Field name: 11

Crop: Corn, silage

Plant date: 07/14/2023

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

11 - 07/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#9	Ground water	1.32	0.00	0.00	631.67	12,456,000.00 gal
Application event totals		1.32	0.00	0.00	631.67	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	117.30	16.97	122.57	787.56	2,592,000.00 gal
#7	Ground water	5.25	0.00	0.00	461.76	6,829,200.00 gal
Application event totals		122.55	16.97	122.57	1,249.33	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#9	Ground water	1.14	0.00	0.00	543.67	10,720,800.00 gal
Application event totals		1.14	0.00	0.00	543.67	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	78.20	11.31	81.71	525.04	1,728,000.00 gal
#7	Ground water	4.15	0.00	0.00	365.61	5,407,200.00 gal
Application event totals		82.36	11.31	81.71	890.65	
09/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#9	Ground water	0.47	0.00	0.00	223.27	4,402,800.00 gal
Application event totals		0.47	0.00	0.00	223.27	

2 - 09/29/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 09/29/2022

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

2 - 09/29/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/20/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	40.38	9.93	68.98	350.89	1,728,000.00 gal
#1	Ground water	4.06	0.00	0.00	381.91	5,405,400.00 gal
Application event totals		44.44	9.93	68.98	732.81	
02/07/2023	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
Blended Lg and Fresh Water Application	Process wastewater	128.34	14.85	177.73	627.28	2,592,000.00 gal
#3	Ground water	0.00	0.00	0.00	225.70	5,775,000.00 gal
Application event totals		128.34	14.85	177.73	852.98	

2 - 05/31/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 05/31/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	52.63	12.37	71.02	338.87	2,592,000.00 gal
#1	Ground water	4.79	0.00	0.00	450.76	6,379,800.00 gal
Application event totals		57.43	12.37	71.02	789.63	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	307.61	7,870,800.00 gal
Application event totals		0.00	0.00	0.00	307.61	

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2 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	1.46	0.00	0.00	137.69	1,948,800.00 gal
Application event totals		1.46	0.00	0.00	137.69	
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
Blended Lg and Fresh Water Application	Process wastewater	17.54	4.12	23.67	112.96	864,000.00 gal
#3	Ground water	0.00	0.00	0.00	160.86	4,116,000.00 gal
Application event totals		17.54	4.12	23.67	273.82	
06/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	1.50	0.00	0.00	140.66	1,990,800.00 gal
Application event totals		1.50	0.00	0.00	140.66	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	157.25	4,023,600.00 gal
Application event totals		0.00	0.00	0.00	157.25	
06/25/2023	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
#1	Ground water	1.51	0.00	0.00	141.85	2,007,600.00 gal
Application event totals		1.51	0.00	0.00	141.85	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	101.66	14.71	106.23	682.55	1,728,000.00 gal
#1	Ground water	1.41	0.00	0.00	132.94	1,881,600.00 gal
Application event totals		103.08	14.71	106.23	815.50	

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

2 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	76.49	1,957,200.00 gal
Application event totals		0.00	0.00	0.00	76.49	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	3.04	0.00	0.00	285.77	4,044,600.00 gal
Application event totals		3.04	0.00	0.00	285.77	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	157.42	4,027,800.00 gal
Application event totals		0.00	0.00	0.00	157.42	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	3.07	0.00	0.00	289.03	4,090,800.00 gal
Application event totals		3.07	0.00	0.00	289.03	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	275.77	7,056,000.00 gal
Application event totals		0.00	0.00	0.00	275.77	

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

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/20/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	80.75	19.85	137.95	701.78	3,456,000.00 gal
#1	Ground water	5.41	0.00	0.00	508.67	7,199,400.00 gal
Application event totals		86.16	19.85	137.95	1,210.45	
01/23/2023	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	85.56	9.90	118.49	418.18	1,728,000.00 gal
#3	Ground water	0.00	0.00	0.00	148.46	3,798,600.00 gal
Application event totals		85.56	9.90	118.49	566.64	
04/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	70.18	16.49	94.69	451.83	3,456,000.00 gal
#1	Ground water	6.27	0.00	0.00	589.68	8,346,000.00 gal
Application event totals		76.45	16.49	94.69	1,041.51	

3 - 05/30/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 05/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	226.04	5,783,700.00 gal
Application event totals		0.00	0.00	0.00	226.04	

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3 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	35.09	8.24	47.35	225.92	1,728,000.00 gal
#3	Ground water	0.00	0.00	0.00	53.96	1,380,600.00 gal
Application event totals		35.09	8.24	47.35	279.87	
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
Blended Lg and Fresh Water Application	Process wastewater	50.83	7.35	53.11	341.28	864,000.00 gal
#3	Ground water	0.00	0.00	0.00	71.03	1,817,400.00 gal
Application event totals		50.83	7.35	53.11	412.31	
07/12/2023	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
#3	Ground water	0.00	0.00	0.00	292.65	7,488,000.00 gal
Application event totals		0.00	0.00	0.00	292.65	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	101.66	14.71	106.23	682.55	1,728,000.00 gal
#1	Ground water	4.21	0.00	0.00	395.97	5,604,300.00 gal
Application event totals		105.87	14.71	106.23	1,078.52	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	165.22	4,227,600.00 gal
Application event totals		0.00	0.00	0.00	165.22	

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3 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	3.98	0.00	0.00	374.75	5,304,000.00 gal
Application event totals		3.98	0.00	0.00	374.75	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	222.23	5,686,200.00 gal
Application event totals		0.00	0.00	0.00	222.23	
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
#3	Ground water	0.00	0.00	0.00	289.14	7,398,300.00 gal
Application event totals		0.00	0.00	0.00	289.14	

4 - 11/15/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/19/2022	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	86.52	21.27	147.81	751.91	4,320,000.00 gal
#3	Ground water	0.00	0.00	0.00	178.64	5,332,800.00 gal
Application event totals		86.52	21.27	147.81	930.55	

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4 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	73.34	8.49	101.56	358.44	1,728,000.00 gal
#3	Ground water	0.00	0.00	0.00	114.97	3,432,000.00 gal
Application event totals		73.34	8.49	101.56	473.41	
03/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	4.16	0.00	0.00	391.11	6,458,100.00 gal
Application event totals		4.16	0.00	0.00	391.11	
05/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	271.61	8,108,100.00 gal
Application event totals		0.00	0.00	0.00	271.61	

4 - 05/20/2023: Corn, silage

Field name:	4	Plant date:	05/20/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	75.19	17.66	101.46	484.11	4,320,000.00 gal
#3	Ground water	0.00	0.00	0.00	253.37	7,563,600.00 gal
Application event totals		75.19	17.66	101.46	737.48	

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4 - 05/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	385.04	11,493,900.00 gal
Application event totals		0.00	0.00	0.00	385.04	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	60.15	14.13	81.16	387.28	3,456,000.00 gal
#1	Ground water	4.20	0.00	0.00	395.30	6,527,400.00 gal
Application event totals		64.35	14.13	81.16	782.59	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	201.09	6,002,700.00 gal
Application event totals		0.00	0.00	0.00	201.09	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	130.71	18.91	136.58	877.57	2,592,000.00 gal
#3	Ground water	0.00	0.00	0.00	186.16	5,557,200.00 gal
Application event totals		130.71	18.91	136.58	1,063.73	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	3.95	0.00	0.00	371.92	6,141,300.00 gal
Application event totals		3.95	0.00	0.00	371.92	

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4 - 05/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	87.14	12.61	91.05	585.05	1,728,000.00 gal
#3	Ground water	0.00	0.00	0.00	81.03	2,418,900.00 gal
Application event totals		87.14	12.61	91.05	666.08	

5 - 11/04/2022: Wheat, silage, soft dough

Field name: 5

Crop:	Wheat, silage, soft dough	Plant date: 11/04/2022				
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/24/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	62.92	15.47	107.50	546.84	3,456,000.00 gal
#1	Ground water	4.10	0.00	0.00	385.71	7,005,900.00 gal
Application event totals		67.02	15.47	107.50	932.55	
01/19/2023	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
Blended Lg and Fresh Water Application	Process wastewater	166.67	19.29	230.82	814.65	4,320,000.00 gal
#3	Ground water	0.00	0.00	0.00	236.57	7,768,200.00 gal
Application event totals		166.67	19.29	230.82	1,051.22	
02/27/2023	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
#1	Ground water	6.61	0.00	0.00	622.26	11,302,500.00 gal
Application event totals		6.61	0.00	0.00	622.26	

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5 - 11/04/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
#3	Ground water	0.00	0.00	0.00	288.03
Application event totals		0.00	0.00	0.00	288.03

5 - 06/07/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
#1	Ground water	5.91	0.00	0.00	555.59
Application event totals		5.91	0.00	0.00	555.59
06/26/2023	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)
Blended Lg and Fresh Water Application	Process wastewater	41.01	9.64	55.34	264.06
#3	Ground water	0.00	0.00	0.00	135.17
Application event totals		41.01	9.64	55.34	399.23
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
#1	Ground water	3.28	0.00	0.00	308.13
Application event totals		3.28	0.00	0.00	308.13

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5 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	118.83	17.19	124.16	797.79	2,592,000.00 gal
#3	Ground water	0.00	0.00	0.00	166.83	5,478,000.00 gal
Application event totals		118.83	17.19	124.16	964.62	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	60.30	1,980,000.00 gal
Application event totals		0.00	0.00	0.00	60.30	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	70.05	2,300,100.00 gal
Application event totals		0.00	0.00	0.00	70.05	
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
Blended Lg and Fresh Water Application	Process wastewater	79.22	11.46	82.78	531.86	1,728,000.00 gal
#1	Ground water	2.28	0.00	0.00	214.02	3,887,400.00 gal
Application event totals		81.49	11.46	82.78	745.88	
09/25/2023	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
#3	Ground water	0.00	0.00	0.00	491.23	16,130,400.00 gal
Application event totals		0.00	0.00	0.00	491.23	

6 - 10/29/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022

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6 - 10/29/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	15.73	3.87	26.87	136.71	864,000.00 gal
#7	Ground water	2.95	0.00	0.00	259.93	3,795,000.00 gal
Application event totals		18.68	3.87	26.87	396.65	
10/21/2022	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
Composted Manure Application	Corral solids	111.33	34.81	228.77	0.00	250.00 ton
Manure Application	Corral solids	98.20	23.75	100.14	0.00	250.00 ton
Application event totals		209.53	58.56	328.91	0.00	
01/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	50.00	5.79	69.24	244.39	1,296,000.00 gal
#3	Ground water	0.00	0.00	0.00	129.14	4,240,500.00 gal
Application event totals		50.00	5.79	69.24	373.53	
03/06/2023	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
Blended Lg and Fresh Water Application	Process wastewater	16.67	1.93	23.08	81.46	432,000.00 gal
#7	Ground water	0.56	0.00	0.00	49.73	726,000.00 gal
Application event totals		17.23	1.93	23.08	131.19	
04/26/2023	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
Blended Lg and Fresh Water Application	Process wastewater	20.51	4.82	27.67	132.03	1,296,000.00 gal
#3	Ground water	0.00	0.00	0.00	112.96	3,709,200.00 gal
Application event totals		20.51	4.82	27.67	244.99	

6 - 06/23/2023: Corn, silage

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6 - 06/23/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/23/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#3	Ground water	0.00	0.00	0.00	625.50	20,539,200.00 gal
Application event totals		0.00	0.00	0.00	625.50	
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
Blended Lg and Fresh Water Application	Process wastewater	99.02	14.33	103.47	664.83	2,160,000.00 gal
#3	Ground water	0.00	0.00	0.00	228.93	7,517,400.00 gal
Application event totals		99.02	14.33	103.47	893.76	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#7	Ground water	3.59	0.00	0.00	315.99	4,613,400.00 gal
Application event totals		3.59	0.00	0.00	315.99	
08/10/2023	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
#7	Ground water	2.82	0.00	0.00	248.63	3,630,000.00 gal
Application event totals		2.82	0.00	0.00	248.63	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	39.61	5.73	41.39	265.93	864,000.00 gal
#7	Ground water	1.55	0.00	0.00	136.52	1,993,200.00 gal
Application event totals		41.16	5.73	41.39	402.45	

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6 - 06/23/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	118.83	17.19	124.16	797.79	2,592,000.00 gal
#3	Ground water	0.00	0.00	0.00	184.92	6,072,000.00 gal
Application event totals		118.83	17.19	124.16	982.71	

7 - 11/16/2022: Wheat, silage, soft dough

Field name: 7

Crop: Wheat, silage, soft dough Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/21/2022	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	98.20	23.75	100.14	0.00	250.00 ton
Composted Manure Application	Corral solids	111.33	34.81	228.77	0.00	250.00 ton
Application event totals		209.53	58.56	328.91	0.00	
10/28/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	23.60	5.80	40.31	205.07	1,296,000.00 gal
#7	Ground water	3.92	0.00	0.00	345.21	5,040,000.00 gal
Application event totals		27.52	5.80	40.31	550.28	
02/16/2023	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
#7	Ground water	5.47	0.00	0.00	481.81	7,034,400.00 gal
Application event totals		5.47	0.00	0.00	481.81	

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7 - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	33.33	3.86	46.16	162.93	864,000.00 gal
#7	Ground water	1.11	0.00	0.00	97.65	1,425,600.00 gal
Application event totals		34.44	3.86	46.16	260.57	
05/04/2023	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
#7	Ground water	8.00	0.00	0.00	704.47	10,285,200.00 gal
Application event totals		8.00	0.00	0.00	704.47	

7 - 06/30/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 06/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	133.34	15.43	184.65	651.72	3,456,000.00 gal
#7	Ground water	4.72	0.00	0.00	415.24	6,062,400.00 gal
Application event totals		138.06	15.43	184.65	1,066.95	
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
#9	Ground water	0.68	0.00	0.00	325.48	6,336,000.00 gal
Application event totals		0.68	0.00	0.00	325.48	

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7 - 06/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	79.22	11.46	82.78	531.86	1,728,000.00 gal
#9	Ground water	0.79	0.00	0.00	378.74	7,372,800.00 gal
Application event totals		80.01	11.46	82.78	910.61	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#7	Ground water	3.06	0.00	0.00	269.76	3,938,400.00 gal
Application event totals		3.06	0.00	0.00	269.76	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#7	Ground water	1.68	0.00	0.00	147.95	2,160,000.00 gal
Application event totals		1.68	0.00	0.00	147.95	
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
Blended Lg and Fresh Water Application	Process wastewater	59.41	8.60	62.08	398.90	1,296,000.00 gal
#9	Ground water	0.50	0.00	0.00	239.86	4,669,200.00 gal
Application event totals		59.91	8.60	62.08	638.75	
09/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#7	Ground water	3.74	0.00	0.00	328.94	4,802,400.00 gal
Application event totals		3.74	0.00	0.00	328.94	

8 - 10/27/2022: Wheat, silage, soft dough

Field name: 8

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022

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

8 - 10/27/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/21/2022	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	99.50	24.07	101.46	0.00	250.00 ton
Composted Manure Application	Corral solids	112.79	35.26	231.78	0.00	250.00 ton
Application event totals		212.29	59.33	333.24	0.00	
10/17/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	15.94	3.92	27.23	138.51	864,000.00 gal
#9	Ground water	1.02	0.00	0.00	486.45	9,346,500.00 gal
Application event totals		16.95	3.92	27.23	624.96	
01/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	50.66	5.86	70.16	247.61	1,296,000.00 gal
#9	Ground water	0.75	0.00	0.00	356.70	6,853,500.00 gal
Application event totals		51.41	5.86	70.16	604.31	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#9	Ground water	1.11	0.00	0.00	529.55	10,174,500.00 gal
Application event totals		1.11	0.00	0.00	529.55	

8 - 05/17/2023: Corn, silage

Field name: 8

Crop: Corn, silage

Plant date: 05/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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8 - 05/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	60.19	8.71	62.90	404.14	1,296,000.00 gal
#9	Ground water	0.77	0.00	0.00	369.82	7,105,500.00 gal
Application event totals		60.97	8.71	62.90	773.96	
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
#9	Ground water	0.97	0.00	0.00	462.33	8,883,000.00 gal
Application event totals		0.97	0.00	0.00	462.33	
06/23/2023	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
#9	Ground water	1.19	0.00	0.00	567.49	10,903,500.00 gal
Application event totals		1.19	0.00	0.00	567.49	
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
Blended Lg and Fresh Water Application	Process wastewater	120.39	17.42	125.80	808.29	2,592,000.00 gal
#9	Ground water	0.71	0.00	0.00	341.95	6,570,000.00 gal
Application event totals		121.10	17.42	125.80	1,150.23	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#9	Ground water	0.32	0.00	0.00	154.11	2,961,000.00 gal
Application event totals		0.32	0.00	0.00	154.11	

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8 - 05/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	80.26	11.61	83.86	538.86	1,728,000.00 gal
#9	Ground water	0.51	0.00	0.00	243.58	4,680,000.00 gal
Application event totals		80.77	11.61	83.86	782.44	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#9	Ground water	0.24	0.00	0.00	116.87	2,245,500.00 gal
Application event totals		0.24	0.00	0.00	116.87	

9 - 07/10/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 07/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#9	Ground water	0.43	0.00	0.00	204.93	4,041,000.00 gal
Application event totals		0.43	0.00	0.00	204.93	
06/24/2023	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
Blended Lg and Fresh Water Application	Process wastewater	26.99	6.34	36.42	173.78	1,728,000.00 gal
#7	Ground water	7.46	0.00	0.00	656.31	9,706,500.00 gal
Application event totals		34.45	6.34	36.42	830.10	

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9 - 07/10/2023: 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
#9	Ground water	0.71	0.00	0.00	339.11	6,687,000.00 gal
Application event totals		0.71	0.00	0.00	339.11	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	78.20	11.31	81.71	525.04	1,728,000.00 gal
#9	Ground water	0.61	0.00	0.00	291.64	5,751,000.00 gal
Application event totals		78.81	11.31	81.71	816.69	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#7	Ground water	6.66	0.00	0.00	586.64	8,676,000.00 gal
Application event totals		6.66	0.00	0.00	586.64	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#7	Ground water	6.34	0.00	0.00	558.03	8,253,000.00 gal
Application event totals		6.34	0.00	0.00	558.03	
09/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	156.40	22.63	163.43	1,050.08	3,456,000.00 gal
#9	Ground water	0.91	0.00	0.00	437.47	8,626,500.00 gal
Application event totals		157.32	22.63	163.43	1,487.55	

A-1 - 01/10/2015: Almond, in shell

Field name: A-1

Crop: Almond, in shell

Plant date: 01/10/2015

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A-1 - 01/10/2015: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/01/2023	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	150.00	0.00	0.00	0.00	
A-1	Ground water	22.09	0.00	0.00	20,344.01	19,872,000.00 gal
A-3	Ground water	0.00	0.00	0.00	849.89	19,872,000.00 gal
A-5	Ground water	32.87	0.00	0.00	2,158.78	19,872,000.00 gal
Application event totals		204.96	0.00	0.00	23,352.68	

A-2 - 11/11/2022: Wheat, silage, soft dough

Field name: A-2

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/03/2022	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	318.39	77.01	324.66	0.00	600.00 ton
Application event totals		318.39	77.01	324.66	0.00	
10/26/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-1	Ground water	8.83	0.00	0.00	8,134.85	8,088,000.00 gal
Application event totals		8.83	0.00	0.00	8,134.85	
02/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-1	Ground water	9.65	0.00	0.00	8,890.40	8,839,200.00 gal
Application event totals		9.65	0.00	0.00	8,890.40	

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A-2 - 11/11/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
A-1	Ground water	10.47	0.00	0.00	9,645.95
Application event totals		10.47	0.00	0.00	9,645.95
					Amount
					9,590,400.00 gal

A-2 - 05/25/2023: Corn, silage

Field name: A-2

Crop: Corn, silage

Plant date: 05/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/20/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure Application	Corral solids	227.73	83.91	311.80	0.00
Application event totals		227.73	83.91	311.80	0.00
05/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
A-1	Ground water	5.29	0.00	0.00	4,873.67
Application event totals		5.29	0.00	0.00	4,873.67
06/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
A-1	Ground water	3.52	0.00	0.00	3,241.87
Application event totals		3.52	0.00	0.00	3,241.87
06/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
A-1	Ground water	5.13	0.00	0.00	4,721.59
Application event totals		5.13	0.00	0.00	4,721.59

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A-2 - 05/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-1	Ground water	3.42	0.00	0.00	3,147.73	3,129,600.00 gal
Application event totals		3.42	0.00	0.00	3,147.73	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-1	Ground water	3.93	0.00	0.00	3,620.85	3,600,000.00 gal
Application event totals		3.93	0.00	0.00	3,620.85	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-1	Ground water	2.69	0.00	0.00	2,476.66	2,462,400.00 gal
Application event totals		2.69	0.00	0.00	2,476.66	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-1	Ground water	2.52	0.00	0.00	2,317.35	2,304,000.00 gal
Application event totals		2.52	0.00	0.00	2,317.35	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-1	Ground water	4.08	0.00	0.00	3,760.86	3,739,200.00 gal
Application event totals		4.08	0.00	0.00	3,760.86	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-1	Ground water	8.43	0.00	0.00	7,765.52	7,720,800.00 gal
Application event totals		8.43	0.00	0.00	7,765.52	

A-3 - 01/12/2015: Almond, in shell

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A-3 - 01/12/2015: Almond, in shell

Field name: A-3

Crop: Almond, in shell

Plant date: 01/12/2015

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/28/2023	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	150.00	0.00	0.00	0.00
A-1	Ground water	21.23	0.00	0.00	19,552.60
A-3	Ground water	0.00	0.00	0.00	816.83
A-5	Ground water	31.59	0.00	0.00	2,074.80
Application event totals		202.82	0.00	0.00	22,444.22

A-4 - 01/01/2017: Almond, in shell

Field name: A-4

Crop: Almond, in shell

Plant date: 01/01/2017

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/28/2023	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	150.00	0.00	0.00	0.00
A-1	Ground water	22.19	0.00	0.00	20,432.47
A-3	Ground water	0.00	0.00	0.00	853.58
A-5	Ground water	33.01	0.00	0.00	2,168.16
Application event totals		205.20	0.00	0.00	23,454.21

A-5 - 01/01/2018: Almond, in shell

Field name: A-5

Crop: Almond, in shell

Plant date: 01/01/2018

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

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A-5 - 01/01/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/26/2023	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	150.00	0.00	0.00	0.00	
A-3	Ground water	0.00	0.00	0.00	862.21	21,600,000.00 gal
A-5	Ground water	33.35	0.00	0.00	2,190.06	21,600,000.00 gal
A-1	Ground water	22.41	0.00	0.00	20,638.85	21,600,000.00 gal
Application event totals		205.76	0.00	0.00	23,691.12	

A-6 - 11/19/2022: Wheat, silage, soft dough

Field name: A-6

Crop: Wheat, silage, soft dough Plant date: 11/19/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/04/2022	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	302.47	73.16	308.43	0.00	600.00 ton
Application event totals		302.47	73.16	308.43	0.00	
10/26/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	19.17	0.00	0.00	1,259.29	12,420,000.00 gal
Application event totals		19.17	0.00	0.00	1,259.29	
03/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-3	Ground water	0.00	0.00	0.00	305.24	7,647,000.00 gal
Application event totals		0.00	0.00	0.00	305.24	

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A-6 - 11/19/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
A-5	Ground water	13.97	0.00	0.00	917.39
Application event totals		13.97	0.00	0.00	917.39
					Amount
					9,048,000.00 gal

A-6 - 06/16/2023: Corn, silage

Field name: A-6

Crop: Corn, silage

Plant date: 06/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/20/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure Application	Corral solids	270.44	99.64	370.26	0.00
Application event totals		270.44	99.64	370.26	0.00
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
A-5	Ground water	10.72	0.00	0.00	703.86
Application event totals		10.72	0.00	0.00	703.86
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
A-5	Ground water	11.33	0.00	0.00	744.01
Application event totals		11.33	0.00	0.00	744.01
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
A-5	Ground water	9.18	0.00	0.00	603.18
Application event totals		9.18	0.00	0.00	603.18
					Amount
					5,949,000.00 gal

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A-6 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	8.35	0.00	0.00	548.43	5,409,000.00 gal
Application event totals		8.35	0.00	0.00	548.43	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	0.13	0.00	0.00	8.82	87,000.00 gal
A-5	Ground water	6.47	0.00	0.00	424.93	4,191,000.00 gal
Application event totals		6.60	0.00	0.00	433.75	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	9.01	0.00	0.00	591.93	5,838,000.00 gal
Application event totals		9.01	0.00	0.00	591.93	
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
A-5	Ground water	7.12	0.00	0.00	467.52	4,611,000.00 gal
Application event totals		7.12	0.00	0.00	467.52	
09/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	9.37	0.00	0.00	615.35	6,069,000.00 gal
Application event totals		9.37	0.00	0.00	615.35	

A-7 - 11/18/2022: Wheat, silage, soft dough

Field name: A-7

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

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

A-7 - 11/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/04/2022	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	302.47	73.16	308.43	0.00	750.00 ton
Application event totals		302.47	73.16	308.43	0.00	
10/26/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	13.20	0.00	0.00	867.02	10,689,000.00 gal
Application event totals		13.20	0.00	0.00	867.02	
02/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	13.11	0.00	0.00	860.94	10,614,000.00 gal
Application event totals		13.11	0.00	0.00	860.94	
04/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	12.00	0.00	0.00	788.42	9,720,000.00 gal
Application event totals		12.00	0.00	0.00	788.42	

A-7 - 06/17/2023: Corn, silage

Field name: A-7

Crop: Corn, silage

Plant date: 06/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/20/2023	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	259.62	95.66	355.45	0.00	900.00 ton
Application event totals		259.62	95.66	355.45	0.00	

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A-7 - 06/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	18.30	0.00	0.00	1,202.10	14,820,000.00 gal
Application event totals		18.30	0.00	0.00	1,202.10	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	13.29	0.00	0.00	872.62	10,758,000.00 gal
Application event totals		13.29	0.00	0.00	872.62	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-5	Ground water	12.89	0.00	0.00	846.34	10,434,000.00 gal
Application event totals		12.89	0.00	0.00	846.34	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-3	Ground water	0.00	0.00	0.00	233.75	7,320,000.00 gal
Application event totals		0.00	0.00	0.00	233.75	
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
A-5	Ground water	7.11	0.00	0.00	467.21	5,760,000.00 gal
Application event totals		7.11	0.00	0.00	467.21	
09/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
A-3	Ground water	0.00	0.00	0.00	195.43	6,120,000.00 gal
Application event totals		0.00	0.00	0.00	195.43	

B-1 - 06/10/2022: Wheat, silage, soft dough

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

B-1 - 06/10/2022: Wheat, silage, soft dough

Field name: B-1

Crop: Wheat, silage, soft dough

Plant date: 06/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/03/2022	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	318.39	77.01	324.66	0.00	800.00 ton
Application event totals		318.39	77.01	324.66	0.00	
10/05/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	5.28	0.00	0.00	431.93	9,321,600.00 gal
Application event totals		5.28	0.00	0.00	431.93	
12/26/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	7.61	0.00	0.00	584.85	11,356,800.00 gal
Application event totals		7.61	0.00	0.00	584.85	
02/13/2023	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
B-2	Ground water	3.93	0.00	0.00	321.61	6,940,800.00 gal
Application event totals		3.93	0.00	0.00	321.61	
02/26/2023	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
B-2	Ground water	5.51	0.00	0.00	450.62	9,724,800.00 gal
Application event totals		5.51	0.00	0.00	450.62	

B-1 - 04/28/2023: Corn, silage

Field name: B-1

Crop: Corn, silage

Plant date: 04/28/2023

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

B-1 - 04/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/19/2023	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	227.73	83.91	311.80	0.00	800.00 ton
Application event totals		227.73	83.91	311.80	0.00	
04/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	4.18	0.00	0.00	341.63	7,372,800.00 gal
Application event totals		4.18	0.00	0.00	341.63	
05/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	4.63	0.00	0.00	378.55	8,169,600.00 gal
Application event totals		4.63	0.00	0.00	378.55	
06/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	5.14	0.00	0.00	395.50	7,680,000.00 gal
Application event totals		5.14	0.00	0.00	395.50	
06/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	41.55	9.76	56.07	267.53	2,592,000.00 gal
B-2	Ground water	3.64	0.00	0.00	298.04	6,432,000.00 gal
Application event totals		45.20	9.76	56.07	565.57	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	6.37	0.00	0.00	489.93	9,513,600.00 gal
Application event totals		6.37	0.00	0.00	489.93	

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B-1 - 04/28/2023: 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
B-2	Ground water	3.32	0.00	0.00	271.79	5,865,600.00 gal
Application event totals		3.32	0.00	0.00	271.79	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	5.32	0.00	0.00	409.34	7,948,800.00 gal
Application event totals		5.32	0.00	0.00	409.34	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	5.60	0.00	0.00	457.73	9,878,400.00 gal
Application event totals		5.60	0.00	0.00	457.73	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	80.26	11.61	83.86	538.86	1,728,000.00 gal
B-2	Ground water	4.15	0.00	0.00	339.18	7,320,000.00 gal
Application event totals		84.41	11.61	83.86	878.04	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	4.07	0.00	0.00	333.18	7,190,400.00 gal
Application event totals		4.07	0.00	0.00	333.18	

B-2 - 10/18/2022: Wheat, silage, soft dough

Field name: B-2

Crop: Wheat, silage, soft dough

Plant date: 10/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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B-2 - 10/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/05/2022	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
Lagoon Water Application	Process wastewater	47.81	11.75	81.68	415.53	2,592,000.00 gal
B-2	Ground water	3.45	0.00	0.00	282.02	6,086,400.00 gal
Application event totals		51.26	11.75	81.68	697.55	
01/04/2023	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	101.32	11.73	140.31	495.22	2,592,000.00 gal
B-2	Ground water	4.04	0.00	0.00	330.29	7,128,000.00 gal
Application event totals		105.36	11.73	140.31	825.51	
02/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	5.25	0.00	0.00	429.04	9,259,200.00 gal
Application event totals		5.25	0.00	0.00	429.04	
03/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	5.24	0.00	0.00	428.37	9,244,800.00 gal
Application event totals		5.24	0.00	0.00	428.37	
04/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	101.32	11.73	140.31	495.22	2,592,000.00 gal
B-2	Ground water	4.19	0.00	0.00	342.30	7,387,200.00 gal
Application event totals		105.51	11.73	140.31	837.52	

B-2 - 06/20/2023: Corn, silage

Field name: B-2

Crop: Corn, silage

Plant date: 06/20/2023

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B-2 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	6.10	0.00	0.00	468.67	9,100,800.00 gal
Application event totals		6.10	0.00	0.00	468.67	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	5.75	0.00	0.00	470.41	10,152,000.00 gal
Application event totals		5.75	0.00	0.00	470.41	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	5.40	0.00	0.00	441.72	9,532,800.00 gal
Application event totals		5.40	0.00	0.00	441.72	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	120.39	17.42	125.80	808.29	2,592,000.00 gal
B-2	Ground water	2.66	0.00	0.00	217.52	4,694,400.00 gal
Application event totals		123.05	17.42	125.80	1,025.81	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	5.40	0.00	0.00	415.28	8,064,000.00 gal
Application event totals		5.40	0.00	0.00	415.28	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	120.39	17.42	125.80	808.29	2,592,000.00 gal
#001	Ground water	4.18	0.00	0.00	321.34	6,240,000.00 gal
Application event totals		124.57	17.42	125.80	1,129.63	

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B-2 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	3.05	0.00	0.00	249.11	5,376,000.00 gal
Application event totals		3.05	0.00	0.00	249.11	
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
B-2	Ground water	5.01	0.00	0.00	409.69	8,841,600.00 gal
Application event totals		5.01	0.00	0.00	409.69	

B-3 - 10/22/2022: Wheat, silage, soft dough

Field name: B-3

Crop: Wheat, silage, soft dough Plant date: 10/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/10/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	47.19	11.60	80.62	410.13	2,592,000.00 gal
B-2	Ground water	5.37	0.00	0.00	439.49	9,609,600.00 gal
Application event totals		52.57	11.60	80.62	849.63	
01/10/2023	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
Lagoon Water Application	Process wastewater	100.00	11.57	138.49	488.79	2,592,000.00 gal
#1	Ground water	5.52	0.00	0.00	519.02	9,427,200.00 gal
Application event totals		105.52	11.57	138.49	1,007.80	

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B-3 - 10/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	2.85	0.00	0.00	232.70	5,088,000.00 gal
Application event totals		2.85	0.00	0.00	232.70	
05/04/2023	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	118.83	17.19	124.16	797.79	2,592,000.00 gal
#001	Ground water	6.43	0.00	0.00	494.05	9,720,000.00 gal
Application event totals		125.25	17.19	124.16	1,291.85	

B-3 - 05/12/2023: Corn, silage

Field name: B-3

Crop: Corn, silage

Plant date: 05/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	4.63	0.00	0.00	356.21	7,008,000.00 gal
Application event totals		4.63	0.00	0.00	356.21	
06/24/2023	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
B-2	Ground water	2.57	0.00	0.00	210.31	4,598,400.00 gal
Application event totals		2.57	0.00	0.00	210.31	

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B-3 - 05/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	41.01	9.64	55.34	264.06	2,592,000.00 gal
B-2	Ground water	5.21	0.00	0.00	426.10	9,316,800.00 gal
Application event totals		46.22	9.64	55.34	690.16	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	4.01	0.00	0.00	308.39	6,067,200.00 gal
Application event totals		4.01	0.00	0.00	308.39	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	118.83	17.19	124.16	797.79	2,592,000.00 gal
#001	Ground water	2.50	0.00	0.00	192.25	3,782,400.00 gal
Application event totals		121.33	17.19	124.16	990.04	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	2.63	0.00	0.00	215.14	4,704,000.00 gal
Application event totals		2.63	0.00	0.00	215.14	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B-2	Ground water	2.09	0.00	0.00	171.23	3,744,000.00 gal
Application event totals		2.09	0.00	0.00	171.23	

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B-3 - 05/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon Water Application	Process wastewater	118.83	17.19	124.16	797.79
B-2	Ground water	4.99	0.00	0.00	408.32
Application event totals		123.82	17.19	124.16	1,206.11

B-4 - 01/10/2019: Almond, in shell

Field name: B-4

Crop: Almond, in shell

Plant date: 01/10/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/01/2023	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	150.00	0.00	0.00	0.00
B-2	Ground water	15.38	0.00	0.00	1,257.71
#001	Ground water	18.18	0.00	0.00	1,397.79
#1	Ground water	16.09	0.00	0.00	1,514.02
Application event totals		199.65	0.00	0.00	4,169.52

N / S TURF - 10/04/2022: Wheat, silage, soft dough

Field name: N / S TURF

Crop: Wheat, silage, soft dough

Plant date: 10/04/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Blended Lg and Fresh Water Application	Process wastewater	90.85	22.33	155.20	789.50
#1	Ground water	4.46	0.00	0.00	419.69
Application event totals		95.31	22.33	155.20	1,209.19

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N / S TURF - 10/04/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/20/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	60.56	14.89	103.46	526.34	864,000.00 gal
#1	Ground water	4.25	0.00	0.00	399.47	1,884,600.00 gal
Application event totals		64.81	14.89	103.46	925.80	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	6.17	0.00	0.00	580.31	2,737,800.00 gal
Application event totals		6.17	0.00	0.00	580.31	

N / S TURF - 05/04/2023: Corn, silage

Field name: N / S TURF

Crop: Corn, silage

Plant date: 05/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	52.63	12.37	71.02	338.87	864,000.00 gal
#1	Ground water	5.07	0.00	0.00	477.30	2,251,800.00 gal
Application event totals		57.71	12.37	71.02	816.17	
05/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	7.34	0.00	0.00	564.29	2,883,600.00 gal
Application event totals		7.34	0.00	0.00	564.29	

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N / S TURF - 05/04/2023: Corn, silage

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
#1	Ground water	5.88	0.00	0.00	553.22	2,610,000.00 gal
Application event totals		5.88	0.00	0.00	553.22	
06/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	52.63	12.37	71.02	338.87	864,000.00 gal
#1	Ground water	5.00	0.00	0.00	470.05	2,217,600.00 gal
Application event totals		57.63	12.37	71.02	808.92	
06/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	5.57	0.00	0.00	428.33	2,188,800.00 gal
Application event totals		5.57	0.00	0.00	428.33	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#1	Ground water	5.02	0.00	0.00	472.72	2,230,200.00 gal
Application event totals		5.02	0.00	0.00	472.72	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
#001	Ground water	5.51	0.00	0.00	423.40	2,163,600.00 gal
Application event totals		5.51	0.00	0.00	423.40	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	152.49	22.06	159.34	1,023.83	864,000.00 gal
#1	Ground water	3.65	0.00	0.00	343.38	1,620,000.00 gal
Application event totals		156.14	22.06	159.34	1,367.21	

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N / S TURF - 05/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
#1	Ground water	4.51	0.00	0.00	424.65
Application event totals		4.51	0.00	0.00	424.65

W-1N - 11/03/2022: Wheat, silage, soft dough

Field name: W-1N

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/03/2022	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	259.26	62.71	264.37	0.00
Application event totals		259.26	62.71	264.37	0.00
10/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
W1	Ground water	14.00	0.00	0.00	947.30
Application event totals		14.00	0.00	0.00	947.30
02/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
W1	Ground water	10.78	0.00	0.00	729.33
Application event totals		10.78	0.00	0.00	729.33
04/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
W2	Ground water	0.00	0.00	0.00	376.54
Application event totals		0.00	0.00	0.00	376.54

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W-1N - 05/24/2023: Corn, silage

Field name: W-1N

Crop: Corn, silage

Plant date: 05/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/19/2023	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	309.07	113.88	423.15	0.00	500.00 ton
Application event totals		309.07	113.88	423.15	0.00	
05/10/2023	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
W1	Ground water	15.88	0.00	0.00	1,074.30	7,689,000.00 gal
Application event totals		15.88	0.00	0.00	1,074.30	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	493.55	7,782,000.00 gal
Application event totals		0.00	0.00	0.00	493.55	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	7.67	0.00	0.00	518.92	3,714,000.00 gal
Application event totals		7.67	0.00	0.00	518.92	
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
W2	Ground water	0.00	0.00	0.00	235.36	3,711,000.00 gal
Application event totals		0.00	0.00	0.00	235.36	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	7.89	0.00	0.00	533.59	3,819,000.00 gal
Application event totals		7.89	0.00	0.00	533.59	

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W-1N - 05/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	230.98	3,642,000.00 gal
Application event totals		0.00	0.00	0.00	230.98	
07/31/2023	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
W1	Ground water	7.58	0.00	0.00	513.05	3,672,000.00 gal
Application event totals		7.58	0.00	0.00	513.05	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	202.82	3,198,000.00 gal
Application event totals		0.00	0.00	0.00	202.82	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	8.82	0.00	0.00	596.88	4,272,000.00 gal
Application event totals		8.82	0.00	0.00	596.88	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	304.81	4,806,000.00 gal
Application event totals		0.00	0.00	0.00	304.81	

W-1S - 11/04/2022: Wheat, silage, soft dough

Field name: W-1S

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

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

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**W-1S - 11/04/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/03/2022	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	226.85	54.87	231.32	0.00	300.00 ton
Application event totals		226.85	54.87	231.32	0.00	
10/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	9.51	0.00	0.00	643.67	5,265,000.00 gal
Application event totals		9.51	0.00	0.00	643.67	
02/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	8.40	0.00	0.00	568.12	4,647,000.00 gal
Application event totals		8.40	0.00	0.00	568.12	
04/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	422.87	7,620,000.00 gal
Application event totals		0.00	0.00	0.00	422.87	

**W-1S - 05/23/2023: Corn, silage**

Field name: W-1S

Crop: Corn, silage

Plant date: 05/23/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/19/2023	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	270.44	99.64	370.26	0.00	500.00 ton
Application event totals		270.44	99.64	370.26	0.00	

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W-1S - 05/23/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	15.51	0.00	0.00	1,049.31	8,583,000.00 gal
Application event totals		15.51	0.00	0.00	1,049.31	
06/04/2023	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
W2	Ground water	0.00	0.00	0.00	499.95	9,009,000.00 gal
Application event totals		0.00	0.00	0.00	499.95	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	8.67	0.00	0.00	586.82	4,800,000.00 gal
Application event totals		8.67	0.00	0.00	586.82	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	365.76	6,591,000.00 gal
Application event totals		0.00	0.00	0.00	365.76	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	9.13	0.00	0.00	617.63	5,052,000.00 gal
Application event totals		9.13	0.00	0.00	617.63	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	335.80	6,051,000.00 gal
Application event totals		0.00	0.00	0.00	335.80	

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**W-1S - 05/23/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	10.24	0.00	0.00	693.18	5,670,000.00 gal
Application event totals		10.24	0.00	0.00	693.18	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	198.78	3,582,000.00 gal
Application event totals		0.00	0.00	0.00	198.78	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	8.69	0.00	0.00	588.29	4,812,000.00 gal
Application event totals		8.69	0.00	0.00	588.29	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	219.76	3,960,000.00 gal
Application event totals		0.00	0.00	0.00	219.76	

**W-2 - 10/15/2022: Wheat, silage, boot stage**

Field name: W-2

Crop: Wheat, silage, boot stage

Plant date: 10/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/28/2022	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	259.26	62.71	264.37	0.00	300.00 ton
Application event totals		259.26	62.71	264.37	0.00	

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**W-2 - 10/15/2022: Wheat, silage, boot stage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/02/2022	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
W1	Ground water	16.38	0.00	0.00	1,108.34	7,932,600.00 gal
Application event totals		16.38	0.00	0.00	1,108.34	
02/20/2023	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
W1	Ground water	10.48	0.00	0.00	709.21	5,076,000.00 gal
Application event totals		10.48	0.00	0.00	709.21	

**W-2 - 05/20/2023: Corn, silage**

Field name: W-2

Crop: Corn, silage

Plant date: 05/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/15/2023	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	309.07	113.88	423.15	0.00	500.00 ton
Application event totals		309.07	113.88	423.15	0.00	
04/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	533.24	8,407,800.00 gal
Application event totals		0.00	0.00	0.00	533.24	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	291.11	4,590,000.00 gal
Application event totals		0.00	0.00	0.00	291.11	

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**W-2 - 05/20/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	267.13	4,212,000.00 gal
Application event totals		0.00	0.00	0.00	267.13	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	391.11	6,166,800.00 gal
Application event totals		0.00	0.00	0.00	391.11	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	286.65	4,519,800.00 gal
Application event totals		0.00	0.00	0.00	286.65	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	8.92	0.00	0.00	603.59	4,320,000.00 gal
Application event totals		8.92	0.00	0.00	603.59	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	11.60	0.00	0.00	784.66	5,616,000.00 gal
Application event totals		11.60	0.00	0.00	784.66	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	17.43	0.00	0.00	1,179.26	8,440,200.00 gal
Application event totals		17.43	0.00	0.00	1,179.26	

**W-5 - 10/19/2022: Wheat, silage, soft dough**

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

**W-5 - 10/19/2022: Wheat, silage, soft dough**

Field name: W-5

Crop: Wheat, silage, soft dough

Plant date: 10/19/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/28/2022	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	245.76	59.44	250.60	0.00	650.00 ton
Application event totals		245.76	59.44	250.60	0.00	
10/03/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	12.34	0.00	0.00	835.12	13,662,000.00 gal
Application event totals		12.34	0.00	0.00	835.12	
03/06/2023	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
W1	Ground water	6.07	0.00	0.00	410.63	6,717,600.00 gal
Application event totals		6.07	0.00	0.00	410.63	
04/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	10.12	0.00	0.00	684.93	11,205,000.00 gal
Application event totals		10.12	0.00	0.00	684.93	

**W-5 - 05/26/2023: Corn, silage**

Field name: W-5

Crop: Corn, silage

Plant date: 05/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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W-5 - 05/26/2023: 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	216.35	79.71	296.21	0.00	800.00 ton
Application event totals		216.35	79.71	296.21	0.00	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	10.31	0.00	0.00	697.80	11,415,600.00 gal
Application event totals		10.31	0.00	0.00	697.80	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	436.62	15,735,600.00 gal
Application event totals		0.00	0.00	0.00	436.62	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	7.69	0.00	0.00	520.22	8,510,400.00 gal
Application event totals		7.69	0.00	0.00	520.22	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	229.25	8,262,000.00 gal
Application event totals		0.00	0.00	0.00	229.25	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	9.97	0.00	0.00	674.37	11,032,200.00 gal
Application event totals		9.97	0.00	0.00	674.37	

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W-5 - 05/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	188.19	6,782,400.00 gal
Application event totals		0.00	0.00	0.00	188.19	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W2	Ground water	0.00	0.00	0.00	159.57	5,751,000.00 gal
Application event totals		0.00	0.00	0.00	159.57	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W1	Ground water	5.26	0.00	0.00	355.83	5,821,200.00 gal
Application event totals		5.26	0.00	0.00	355.83	

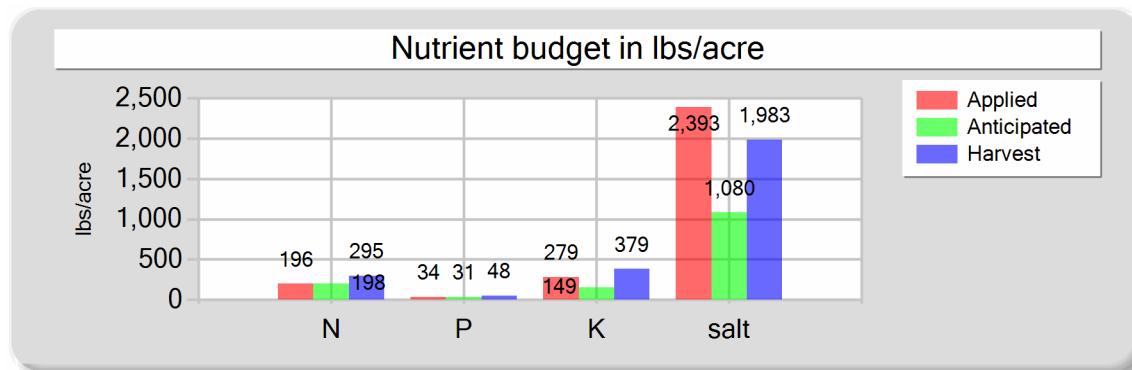
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Reporting period 01/01/2023 to 12/31/2023.

**B. NUTRIENT BUDGET**

1 - 09/28/2022: Wheat, silage, soft dough

Field name: 1      Crop: Wheat, silage, soft dough      Plant date: 09/28/2022



	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	0.00	0.00	0.00	0.00
Process wastewater	177.16	34.01	278.93	1,260.73
Fresh water	12.03	0.00	0.00	1,132.06
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>196.20</b>	<b>34.01</b>	<b>278.93</b>	<b>2,392.80</b>
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	294.76	48.15	379.32	1,982.58
Nutrient balance	-98.56	-14.14	-100.39	410.22
Applied to removed ratio	0.67	0.71	0.74	1.21

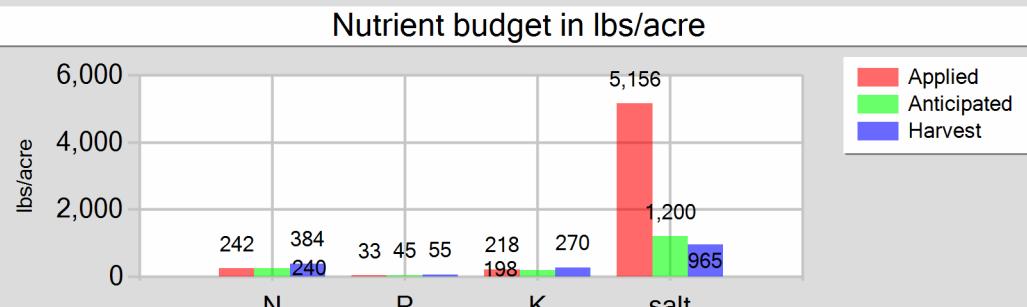
Fresh water applied
18,693,000.00 gallons
688.40 acre-inches
9.83 inches/acre
Process wastewater applied
6,912,000.00 gallons
254.55 acre-inches
3.64 inches/acre
Total harvests for the crop
1 harvests

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

1 - 05/04/2023: Corn, silage

Field name: 1      Crop: Corn, silage      Plant date: 05/04/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	190.86	33.04	217.74	1,264.85
Fresh water	44.43	0.00	0.00	3,891.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	242.29	33.04	217.74	5,156.45
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	384.08	54.56	270.43	964.71
Nutrient balance	-141.79	-21.52	-52.69	4,191.75
Applied to removed ratio	0.63	0.61	0.81	5.35

**Fresh water applied**  
66,028,500.00 gallons  
2,431.61 acre-inches  
34.74 inches/acre

**Process wastewater applied**  
6,048,000.00 gallons  
222.73 acre-inches  
3.18 inches/acre

**Total harvests for the crop**  
1 harvests

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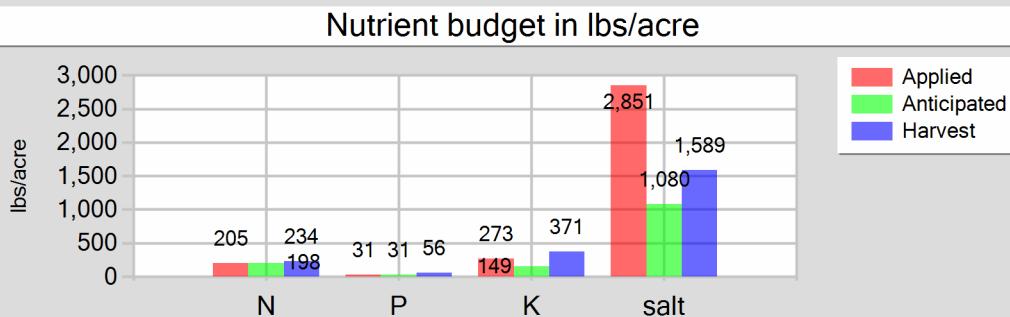
Reporting period 01/01/2023 to 12/31/2023.

10 - 11/01/2022: Wheat, silage, soft dough

Field name: 10

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022



	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	178.66	30.91	272.86	1,172.34
Fresh water	19.08	0.00	0.00	1,679.04
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	204.74	30.91	272.86	2,851.38
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	233.77	55.60	371.17	1,588.54
Nutrient balance	-29.04	-24.69	-98.31	1,262.84
Applied to removed ratio	0.88	0.56	0.74	1.79

**Fresh water applied**

24,513,600.00 gallons  
902.75 acre-inches  
11.72 inches/acre

**Process wastewater applied**

6,912,000.00 gallons  
254.55 acre-inches  
3.31 inches/acre

**Total harvests for the crop**

1 harvests

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

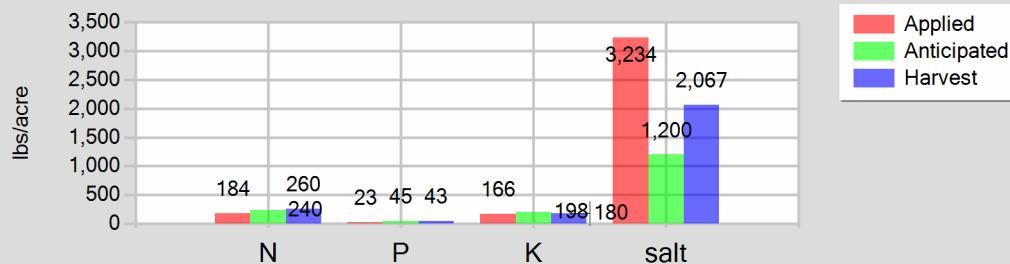
10 - 06/28/2023: Corn, silage

Field name: 10

Crop: Corn, silage

Plant date: 06/28/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	158.43	22.92	165.55	1,063.72
Fresh water	18.35	0.00	0.00	2,170.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	183.78	22.92	165.55	3,233.94
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	260.47	42.56	179.76	2,066.62
Nutrient balance	-76.69	-19.63	-14.21	1,167.32
Applied to removed ratio	0.71	0.54	0.92	1.56

**Fresh water applied**

34,996,800.00 gallons  
1,288.81 acre-inches  
16.74 inches/acre

**Process wastewater applied**

3,456,000.00 gallons  
127.27 acre-inches  
1.65 inches/acre

**Total harvests for the crop**

1 harvests

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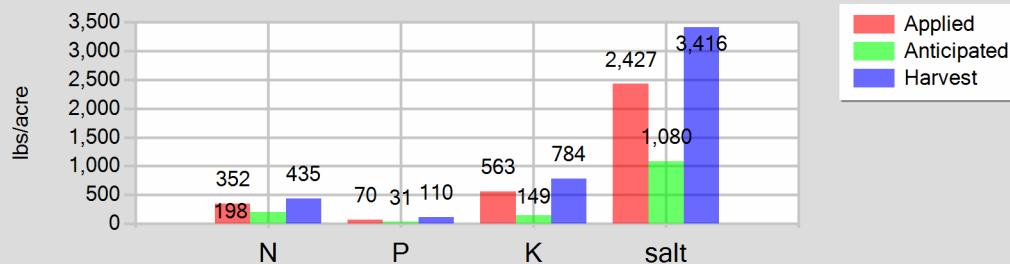
11 - 10/25/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 10/25/2022

**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	137.16	42.88	281.85	0.00
Process wastewater	195.60	26.68	280.92	1,074.12
Fresh water	11.80	0.00	0.00	1,353.10
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	351.55	69.56	562.76	2,427.21
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	434.79	110.11	784.04	3,416.36
Nutrient balance	-83.23	-40.55	-221.28	-989.15
Applied to removed ratio	0.81	0.63	0.72	0.71

**Fresh water applied**

21,909,600.00 gallons  
806.86 acre-inches  
10.34 inches/acre

**Process wastewater applied**

6,048,000.00 gallons  
222.73 acre-inches  
2.86 inches/acre

**Total harvests for the crop**

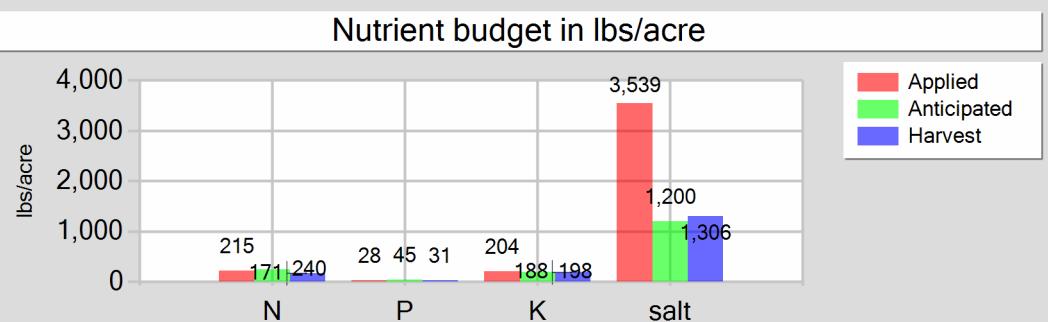
1 harvests

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

11 - 07/14/2023: Corn, silage

Field name: 11      Crop: Corn, silage      Plant date: 07/14/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	195.50	28.29	204.29	1,312.60
Fresh water	12.32	0.00	0.00	2,225.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	214.82	28.29	204.29	3,538.59
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	171.45	31.34	188.20	1,305.88
Nutrient balance	43.37	-3.06	16.09	2,232.72
Applied to removed ratio	1.25	0.90	1.09	2.71

**Fresh water applied**  
39,816,000.00 gallons  
1,466.29 acre-inches  
18.80 inches/acre

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

**Total harvests for the crop**  
1 harvests

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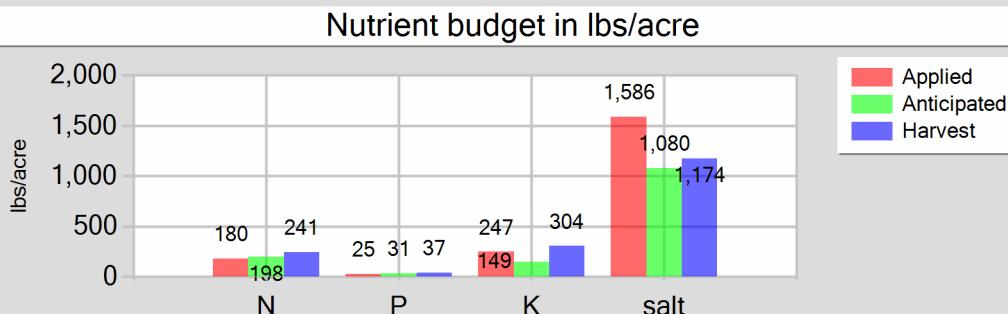
Reporting period 01/01/2023 to 12/31/2023.

2 - 09/29/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 09/29/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	168.72	24.78	246.70	978.17
Fresh water	4.06	0.00	0.00	607.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	179.78	24.78	246.70	1,585.78
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	240.93	36.85	304.11	1,173.52
Nutrient balance	-61.15	-12.07	-57.41	412.26
Applied to removed ratio	0.75	0.67	0.81	1.35

**Fresh water applied**

11,180,400.00 gallons  
411.74 acre-inches  
6.86 inches/acre

**Process wastewater applied**

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

**Total harvests for the crop**

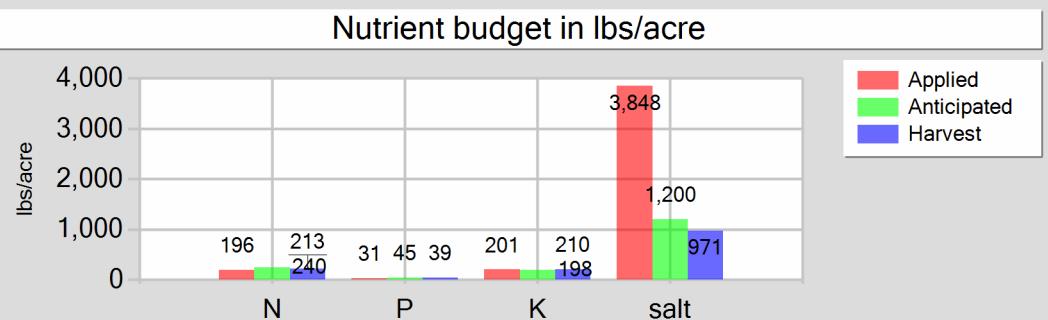
1 harvests

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

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

2 - 05/31/2023: Corn, silage

Field name: 2      Crop: Corn, silage      Plant date: 05/31/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	171.84	31.20	200.92	1,134.39
Fresh water	16.78	0.00	0.00	2,714.10
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	195.62	31.20	200.92	3,848.49
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	213.29	39.44	209.81	971.14
Nutrient balance	-17.67	-8.25	-8.89	2,877.35
Applied to removed ratio	0.92	0.79	0.96	3.96

**Fresh water applied**  
51,395,400.00 gallons  
1,892.72 acre-inches  
31.55 inches/acre

**Process wastewater applied**  
5,184,000.00 gallons  
190.91 acre-inches  
3.18 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.

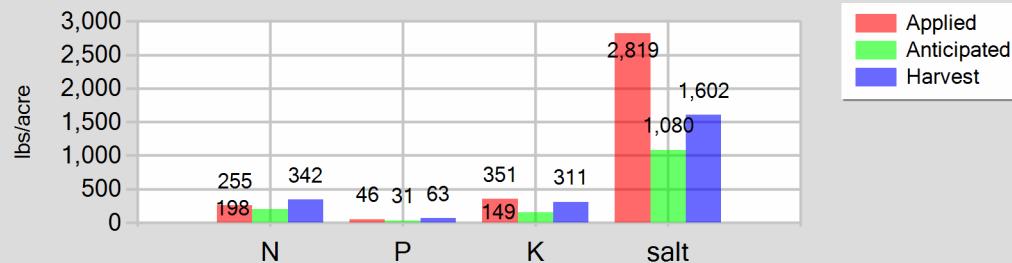
3 - 11/03/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022

**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	236.49	46.24	351.13	1,571.80
Fresh water	11.68	0.00	0.00	1,246.81
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	255.17	46.24	351.13	2,818.61
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	341.93	63.34	311.05	1,602.40
Nutrient balance	-86.77	-17.10	40.08	1,216.20
Applied to removed ratio	0.75	0.73	1.13	1.76

**Fresh water applied**

19,344,000.00 gallons  
712.37 acre-inches  
11.87 inches/acre

**Process wastewater applied**

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

**Total harvests for the crop**

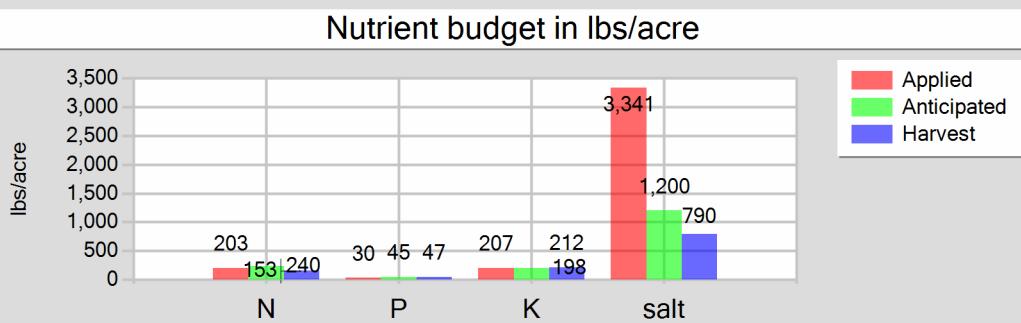
1 harvests

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

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

3 - 05/30/2023: Corn, silage

Field name: 3      Crop: Corn, silage      Plant date: 05/30/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	187.58	30.31	206.69	1,249.75
Fresh water	8.19	0.00	0.00	2,090.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	202.77	30.31	206.69	3,340.74
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	152.73	47.29	211.91	790.19
Nutrient balance	50.04	-16.99	-5.22	2,550.55
Applied to removed ratio	1.33	0.64	0.98	4.23

**Fresh water applied**

44,690,100.00 gallons
1,645.78 acre-inches
27.43 inches/acre

**Process wastewater applied**

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

**Total harvests for the crop**

1 harvests
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**Annual Report - General Order No. R5-2007-0035**

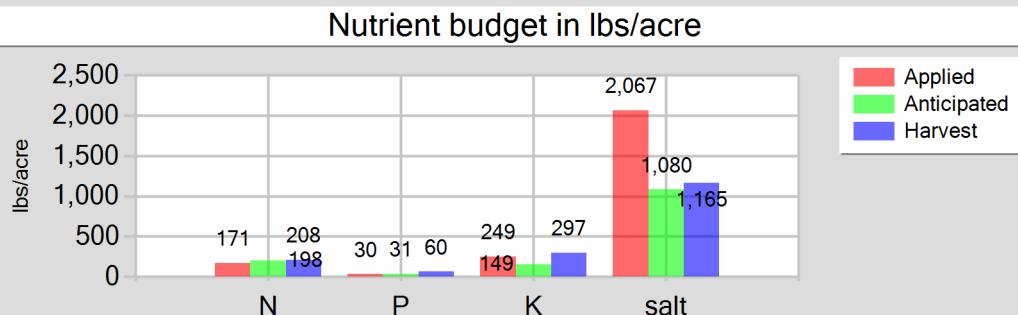
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/15/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	159.86	29.76	249.37	1,110.35
Fresh water	4.16	0.00	0.00	956.34
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	171.02	29.76	249.37	2,066.69
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	207.76	60.40	296.60	1,164.82
Nutrient balance	-36.74	-30.64	-47.23	901.87
Applied to removed ratio	0.82	0.49	0.84	1.77

**Fresh water applied**

23,331,000.00 gallons  
859.20 acre-inches  
12.27 inches/acre

**Process wastewater applied**

6,048,000.00 gallons  
222.73 acre-inches  
3.18 inches/acre

**Total harvests for the crop**

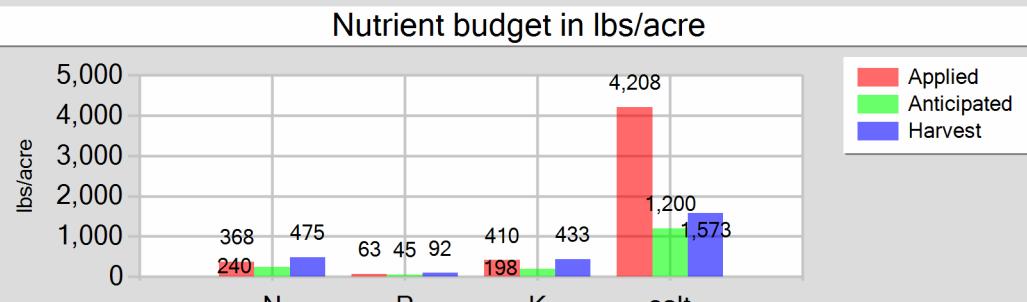
1 harvests

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

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

4 - 05/20/2023: Corn, silage

Field name: 4      Crop: Corn, silage      Plant date: 05/20/2023



	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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	353.19	63.31	410.25	2,334.01
Fresh water	8.16	0.00	0.00	1,873.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	368.35	63.31	410.25	4,207.92
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	475.19	91.56	433.31	1,573.31
Nutrient balance	-106.85	-28.25	-23.05	2,634.61
Applied to removed ratio	0.78	0.69	0.95	2.67

**Fresh water applied**  
45,705,000.00 gallons  
1,683.16 acre-inches  
24.05 inches/acre

**Process wastewater applied**  
12,096,000.00 gallons  
445.45 acre-inches  
6.36 inches/acre

**Total harvests for the crop**  
1 harvests

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

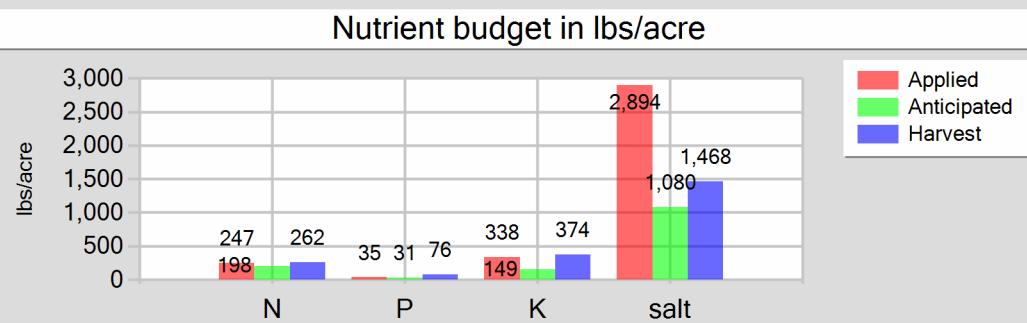
Reporting period 01/01/2023 to 12/31/2023.

5 - 11/04/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022



	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	229.60	34.76	338.31	1,361.49
Fresh water	10.71	0.00	0.00	1,532.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	247.31	34.76	338.31	2,894.06
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	261.86	76.12	373.80	1,468.00
Nutrient balance	-14.55	-41.36	-35.48	1,426.06
Applied to removed ratio	0.94	0.46	0.91	1.97

**Fresh water applied**

35,534,400.00 gallons  
1,308.61 acre-inches  
16.99 inches/acre

**Process wastewater applied**

7,776,000.00 gallons  
286.36 acre-inches  
3.72 inches/acre

**Total harvests for the crop**

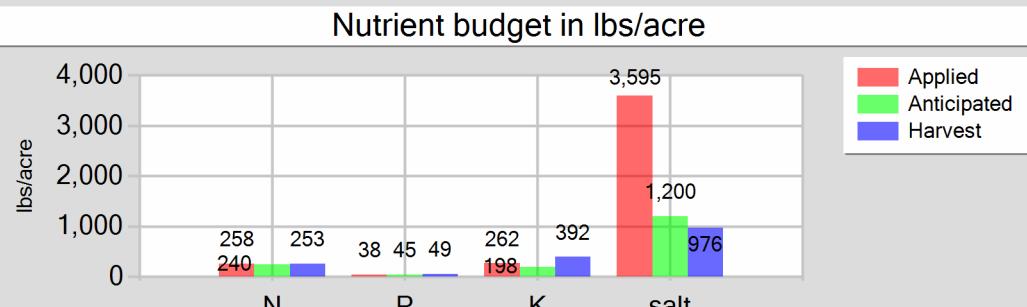
1 harvests

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

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

5 - 06/07/2023: Corn, silage

Field name: 5      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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	239.06	38.29	262.28	1,593.71
Fresh water	11.46	0.00	0.00	2,001.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	257.51	38.29	262.28	3,595.02
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	252.84	49.06	391.62	975.52
Nutrient balance	4.67	-10.77	-129.34	2,619.50
Applied to removed ratio	1.02	0.78	0.67	3.69

**Fresh water applied**  
49,902,600.00 gallons  
1,837.74 acre-inches  
23.87 inches/acre

**Process wastewater applied**  
6,912,000.00 gallons  
254.55 acre-inches  
3.31 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.

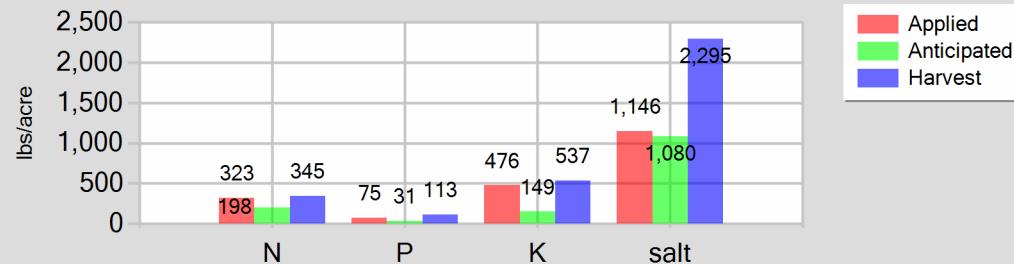
6 - 10/29/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022

**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	209.53	58.56	328.91	0.00
Process wastewater	102.91	16.40	146.87	594.60
Fresh water	3.52	0.00	0.00	551.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	322.96	74.96	475.78	1,146.36
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	345.26	113.40	536.83	2,295.13
Nutrient balance	-22.30	-38.44	-61.05	-1,148.78
Applied to removed ratio	0.94	0.66	0.89	0.50

**Fresh water applied**

12,470,700.00 gallons  
459.25 acre-inches  
5.96 inches/acre

**Process wastewater applied**

3,888,000.00 gallons  
143.18 acre-inches  
1.86 inches/acre

**Total harvests for the crop**

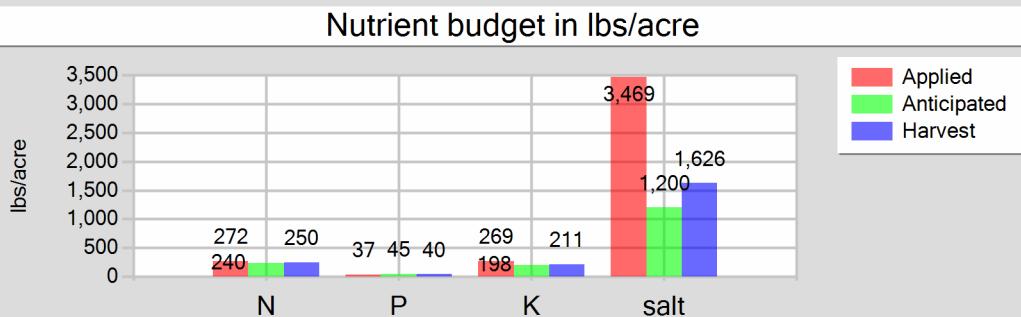
1 harvests

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

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

6 - 06/23/2023: Corn, silage

Field name: 6      Crop: Corn, silage      Plant date: 06/23/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	257.46	37.25	269.02	1,728.55
Fresh water	7.97	0.00	0.00	1,740.49
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.42	37.25	269.02	3,469.04
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	250.30	40.27	211.37	1,625.93
Nutrient balance	22.12	-3.02	57.65	1,843.11
Applied to removed ratio	1.09	0.93	1.27	2.13

**Fresh water applied**  
44,365,200.00 gallons  
1,633.82 acre-inches  
21.22 inches/acre

**Process wastewater applied**  
5,616,000.00 gallons  
206.82 acre-inches  
2.69 inches/acre

**Total harvests for the crop**  
1 harvests

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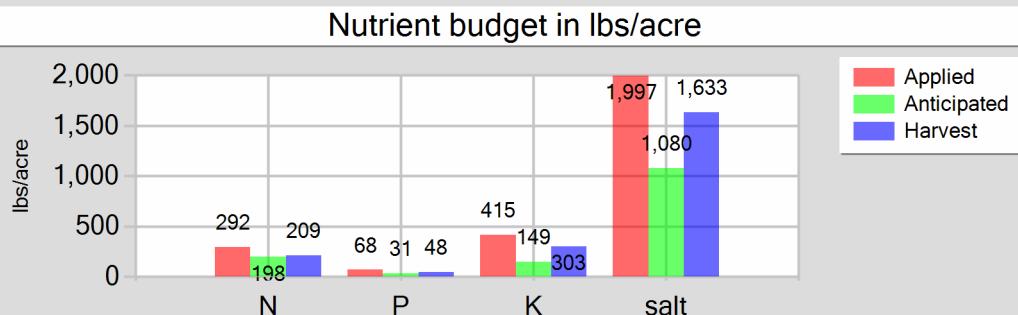
Reporting period 01/01/2023 to 12/31/2023.

7 - 11/16/2022: Wheat, silage, soft dough

Field name: 7

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	209.53	58.56	328.91	0.00
Process wastewater	56.93	9.66	86.47	367.99
Fresh water	18.51	0.00	0.00	1,629.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	291.97	68.22	415.39	1,997.14
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	208.90	47.73	302.62	1,632.98
Nutrient balance	83.08	20.48	112.77	364.16
Applied to removed ratio	1.40	1.43	1.37	1.22

**Fresh water applied**

23,785,200.00 gallons  
875.93 acre-inches  
11.38 inches/acre

**Process wastewater applied**

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

**Total harvests for the crop**

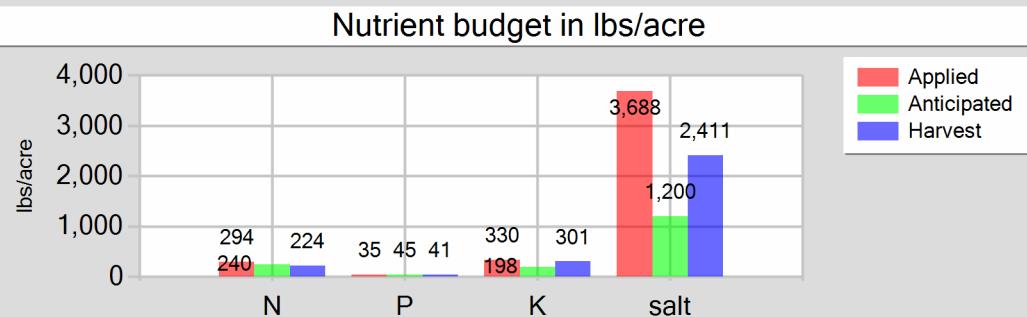
1 harvests

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

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

7 - 06/30/2023: Corn, silage

Field name: 7      Crop: Corn, silage      Plant date: 06/30/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	271.97	35.49	329.51	1,582.47
Fresh water	15.17	0.00	0.00	2,105.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	294.14	35.49	329.51	3,688.44
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	223.63	41.12	300.63	2,410.70
Nutrient balance	70.51	-5.64	28.88	1,277.74
Applied to removed ratio	1.32	0.86	1.10	1.53

**Fresh water applied**  
35,341,200.00 gallons  
1,301.50 acre-inches  
16.90 inches/acre

**Process wastewater applied**  
6,480,000.00 gallons  
238.64 acre-inches  
3.10 inches/acre

**Total harvests for the crop**  
1 harvests

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

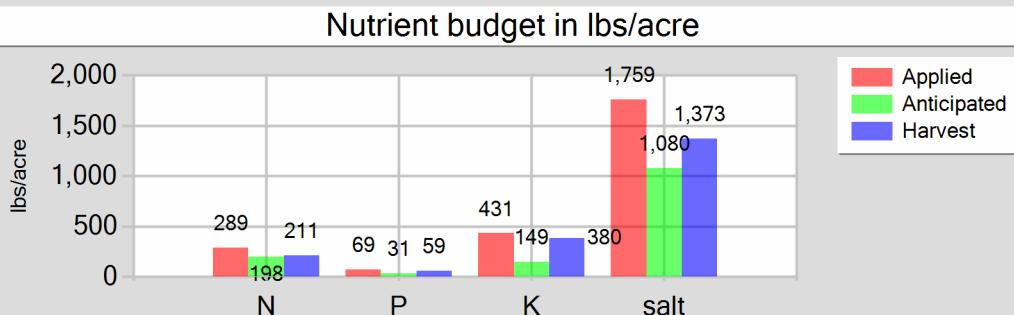
Reporting period 01/01/2023 to 12/31/2023.

8 - 10/27/2022: Wheat, silage, soft dough

Field name: 8

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	212.29	59.33	333.24	0.00
Process wastewater	66.60	9.78	97.38	386.12
Fresh water	2.87	0.00	0.00	1,372.70
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	288.75	69.11	430.62	1,758.82
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	211.42	58.55	380.12	1,372.67
Nutrient balance	77.33	10.55	50.50	386.15
Applied to removed ratio	1.37	1.18	1.13	1.28

**Fresh water applied**

26,374,500.00 gallons
971.28 acre-inches
12.78 inches/acre

**Process wastewater applied**

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

**Total harvests for the crop**

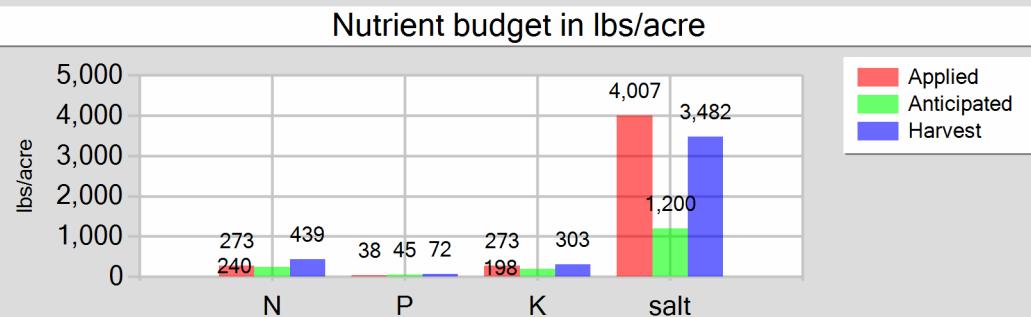
1 harvests
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**Annual Report - General Order No. R5-2007-0035**

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

8 - 05/17/2023: Corn, silage

Field name: 8      Crop: Corn, silage      Plant date: 05/17/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	260.84	37.74	272.56	1,751.29
Fresh water	4.71	0.00	0.00	2,256.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.56	37.74	272.56	4,007.43
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	438.90	71.71	302.91	3,482.38
Nutrient balance	-166.35	-33.97	-30.35	525.05
Applied to removed ratio	0.62	0.53	0.90	1.15

**Fresh water applied**  
43,348,500.00 gallons  
1,596.38 acre-inches  
21.00 inches/acre

**Process wastewater applied**  
5,616,000.00 gallons  
206.82 acre-inches  
2.72 inches/acre

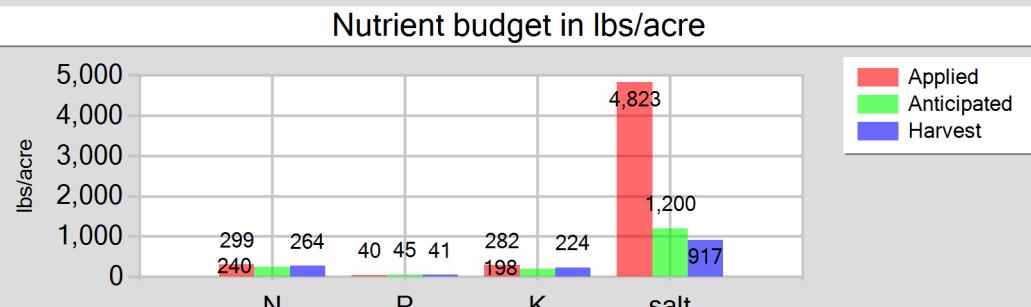
**Total harvests for the crop**  
1 harvests

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

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

9 - 07/10/2023: Corn, silage

Field name: 9      Crop: Corn, silage      Plant date: 07/10/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	261.60	40.28	281.56	1,748.91
Fresh water	23.12	0.00	0.00	3,074.13
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	298.72	40.28	281.56	4,823.04
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	263.97	41.40	224.39	916.52
Nutrient balance	34.74	-1.12	57.17	3,906.52
Applied to removed ratio	1.13	0.97	1.25	5.26

**Fresh water applied**  
51,741,000.00 gallons  
1,905.45 acre-inches  
24.43 inches/acre

**Process wastewater applied**  
6,912,000.00 gallons  
254.55 acre-inches  
3.26 inches/acre

**Total harvests for the crop**  
1 harvests

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

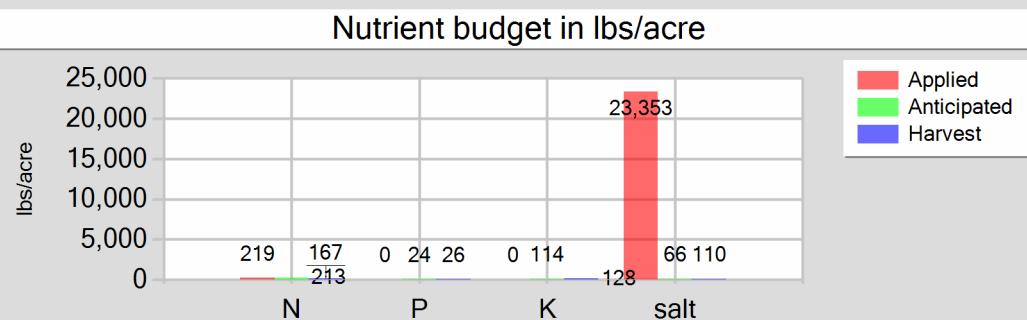
Reporting period 01/01/2023 to 12/31/2023.

A-1 - 01/10/2015: Almond, in shell

Field name: A-1

Crop: Almond, in shell

Plant date: 01/10/2015



	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	59,616,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,195.45 acre-inches
Commercial fertilizer / Other	150.00	0.00	0.00	0.00	39.20 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	54.96	0.00	0.00	23,352.68	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	218.96	0.00	0.00	23,352.68	
Anticipated crop nutrient removal	213.00	24.00	114.00	66.00	Process wastewater applied
Actual crop nutrient removal	167.09	25.65	128.49	109.93	0.00 gallons
Nutrient balance	51.87	-25.65	-128.49	23,242.75	0.00 acre-inches
Applied to removed ratio	1.31	0.00	0.00	212.44	0.00 inches/acre
					Total harvests for the crop
					1 harvests

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

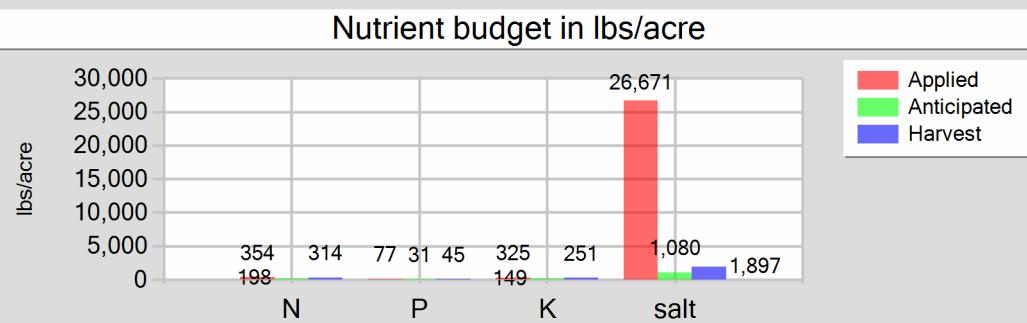
Reporting period 01/01/2023 to 12/31/2023.

A-2 - 11/11/2022: Wheat, silage, soft dough

Field name: A-2

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022



	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	318.39	77.01	324.66	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	28.96	0.00	0.00	26,671.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	354.35	77.01	324.66	26,671.19
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	313.57	45.18	251.48	1,897.43
Nutrient balance	40.78	31.83	73.18	24,773.77
Applied to removed ratio	1.13	1.70	1.29	14.06

**Fresh water applied**

26,517,600.00 gallons
976.55 acre-inches
17.13 inches/acre

**Process wastewater applied**

0.00 gallons
0.00 acre-inches
0.00 inches/acre

**Total harvests for the crop**

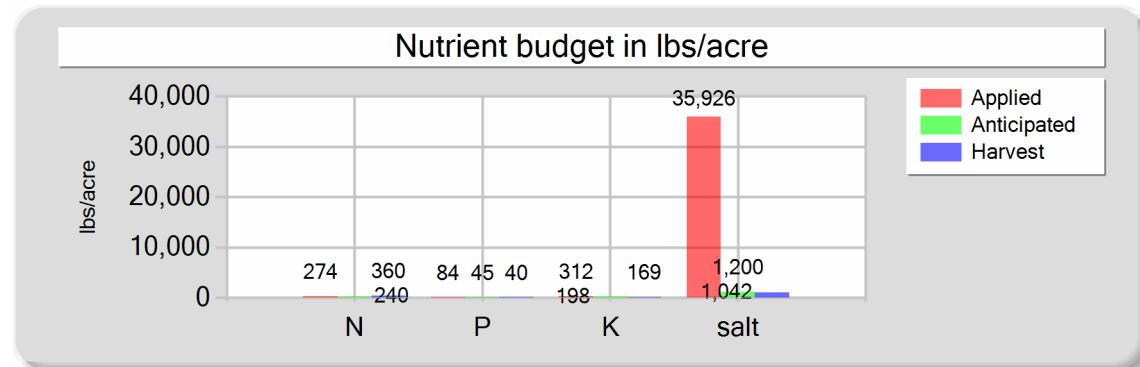
1 harvests
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Reporting period 01/01/2023 to 12/31/2023.

A-2 - 05/25/2023: Corn, silage

Field name: A-2      Crop: Corn, silage      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	0.00	0.00	0.00	0.00
Dry manure	227.73	83.91	311.80	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	39.01	0.00	0.00	35,926.09
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	273.75	83.91	311.80	35,926.09
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	360.34	39.89	169.37	1,042.27
Nutrient balance	-86.60	44.02	142.43	34,883.82
Applied to removed ratio	0.76	2.10	1.84	34.47

**Fresh water applied**  
35,719,200.00 gallons  
1,315.42 acre-inches  
23.08 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**

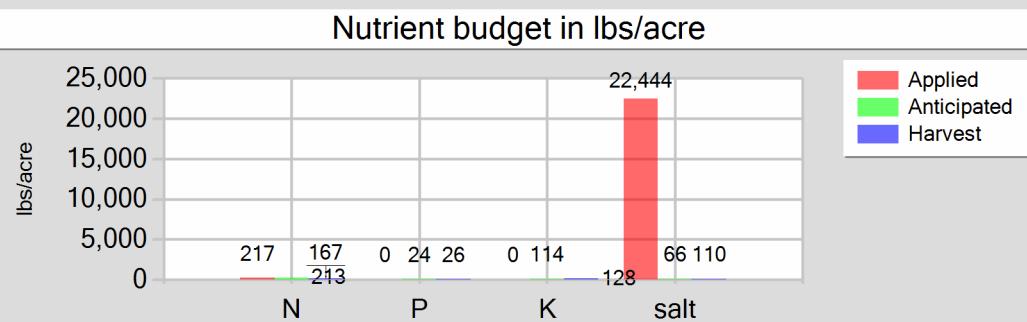
Reporting period 01/01/2023 to 12/31/2023.

A-3 - 01/12/2015: Almond, in shell

Field name: A-3

Crop: Almond, in shell

Plant date: 01/12/2015



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	52.82	0.00	0.00	22,444.22
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	216.82	0.00	0.00	22,444.22
Anticipated crop nutrient removal	213.00	24.00	114.00	66.00
Actual crop nutrient removal	166.90	25.62	128.34	109.80
Nutrient balance	49.93	-25.62	-128.34	22,334.42
Applied to removed ratio	1.30	0.00	0.00	204.41

**Fresh water applied**

38,880,000.00 *gallons*  
1,431.82 *acre-inches*  
37.68 *inches/acre*

**Process wastewater applied**

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

**Total harvests for the crop**

1 *harvests*

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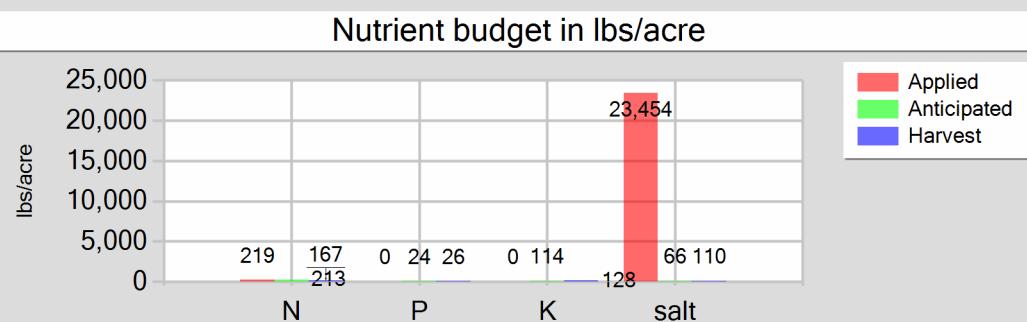
Reporting period 01/01/2023 to 12/31/2023.

A-4 - 01/01/2017: Almond, in shell

Field name: A-4

Crop: Almond, in shell

Plant date: 01/01/2017



	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	85,536,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,150.00 acre-inches
Commercial fertilizer / Other	150.00	0.00	0.00	0.00	39.38 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	55.20	0.00	0.00	23,454.21	Process wastewater applied
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 gallons
Total nutrients applied	219.20	0.00	0.00	23,454.21	0.00 acre-inches
Anticipated crop nutrient removal	213.00	24.00	114.00	66.00	0.00 inches/acre
Actual crop nutrient removal	167.00	25.64	128.42	109.87	
Nutrient balance	52.20	-25.64	-128.42	23,344.34	Total harvests for the crop
Applied to removed ratio	1.31	0.00	0.00	213.48	1 harvests

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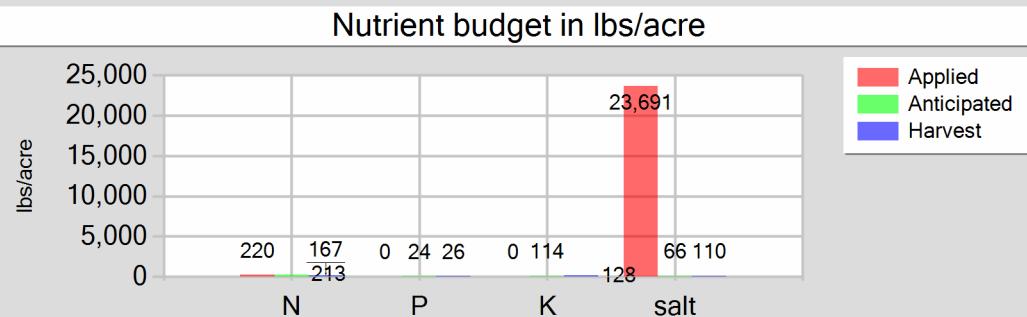
Reporting period 01/01/2023 to 12/31/2023.

A-5 - 01/01/2018: Almond, in shell

Field name: A-5

Crop: Almond, in shell

Plant date: 01/01/2018



	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	64,800,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,386.36 acre-inches
Commercial fertilizer / Other	150.00	0.00	0.00	0.00	39.77 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	55.76	0.00	0.00	23,691.12	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	219.76	0.00	0.00	23,691.12	
Anticipated crop nutrient removal	213.00	24.00	114.00	66.00	
Actual crop nutrient removal	167.00	25.64	128.42	109.87	
Nutrient balance	52.76	-25.64	-128.42	23,581.25	
Applied to removed ratio	1.32	0.00	0.00	215.63	
Total harvests for the crop					1 harvests

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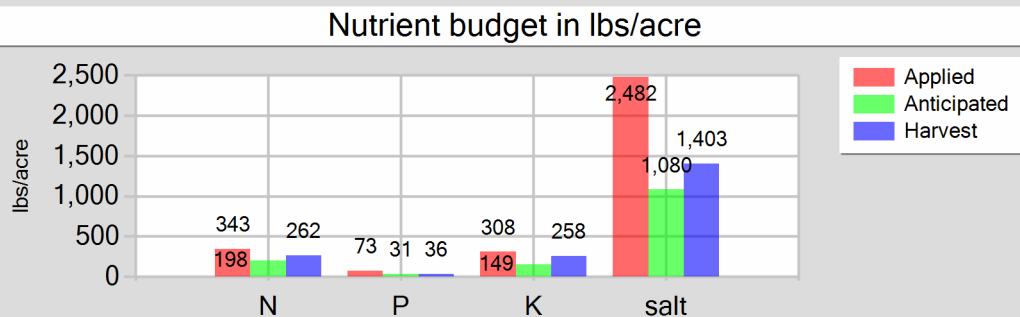
Reporting period 01/01/2023 to 12/31/2023.

A-6 - 11/19/2022: Wheat, silage, soft dough

Field name: A-6

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022



	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	29,115,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,072.21 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.87 inches/acre
Dry manure	302.47	73.16	308.43	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	33.14	0.00	0.00	2,481.92	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	342.61	73.16	308.43	2,481.92	Process wastewater applied
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	0.00 gallons
Actual crop nutrient removal	261.80	35.71	258.13	1,403.41	0.00 acre-inches
Nutrient balance	80.81	37.45	50.30	1,078.51	0.00 inches/acre
Applied to removed ratio	1.31	2.05	1.19	1.77	Total harvests for the crop
					1 harvests

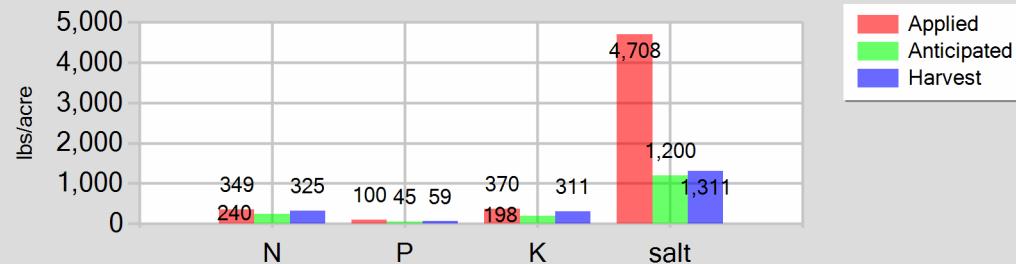
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Reporting period 01/01/2023 to 12/31/2023.

A-6 - 06/16/2023: Corn, silage

Field name: A-6      Crop: Corn, silage      Plant date: 06/16/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	46,434,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,710.01 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	28.50 inches/acre
Dry manure	270.44	99.64	370.26	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	71.69	0.00	0.00	4,708.02	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	349.12	99.64	370.26	4,708.02	
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00	
Actual crop nutrient removal	325.00	58.63	311.17	1,310.95	
Nutrient balance	24.12	41.01	59.09	3,397.08	
Applied to removed ratio	1.07	1.70	1.19	3.59	
Total harvests for the crop					1 harvests

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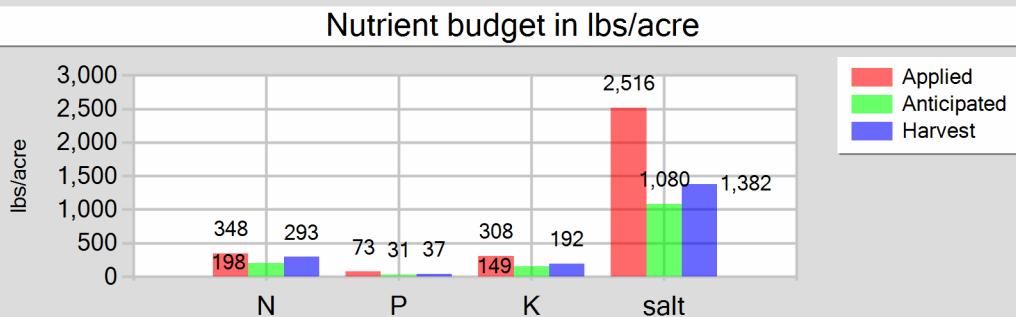
Reporting period 01/01/2023 to 12/31/2023.

A-7 - 11/18/2022: Wheat, silage, soft dough

Field name: A-7

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022



	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	302.47	73.16	308.43	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	38.32	0.00	0.00	2,516.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	347.79	73.16	308.43	2,516.38
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	293.26	36.59	191.58	1,381.89
Nutrient balance	54.53	36.57	116.85	1,134.49
Applied to removed ratio	1.19	2.00	1.61	1.82

**Fresh water applied**

31,023,000.00 gallons  
1,142.47 acre-inches  
15.23 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

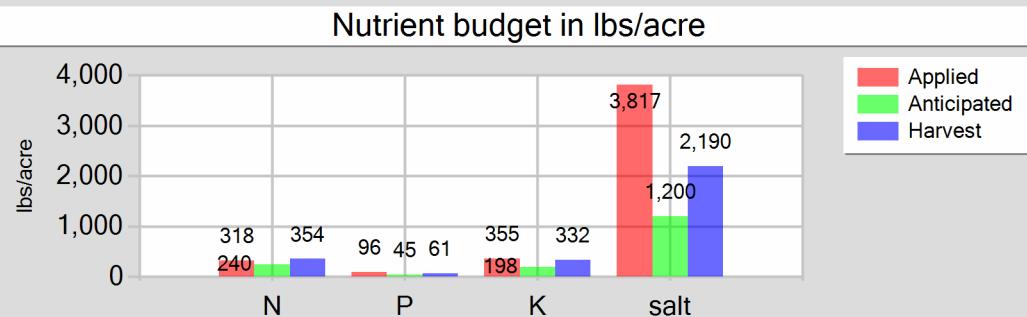
1 harvests

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

A-7 - 06/17/2023: Corn, silage

Field name: A-7      Crop: Corn, silage      Plant date: 06/17/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	259.62	95.66	355.45	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	51.59	0.00	0.00	3,817.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	318.21	95.66	355.45	3,817.46
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	353.62	61.32	332.36	2,189.98
Nutrient balance	-35.41	34.34	23.09	1,627.47
Applied to removed ratio	0.90	1.56	1.07	1.74

**Fresh water applied**

55,212,000.00 gallons
2,033.27 acre-inches
27.11 inches/acre

**Process wastewater applied**

0.00 gallons
0.00 acre-inches
0.00 inches/acre

**Total harvests for the crop**

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

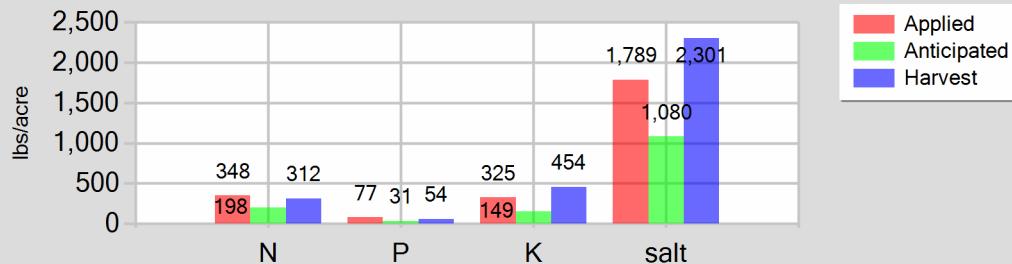
B-1 - 06/10/2022: Wheat, silage, soft dough

Field name: B-1

Crop: Wheat, silage, soft dough

Plant date: 06/10/2022

**Nutrient budget in lbs/acre**



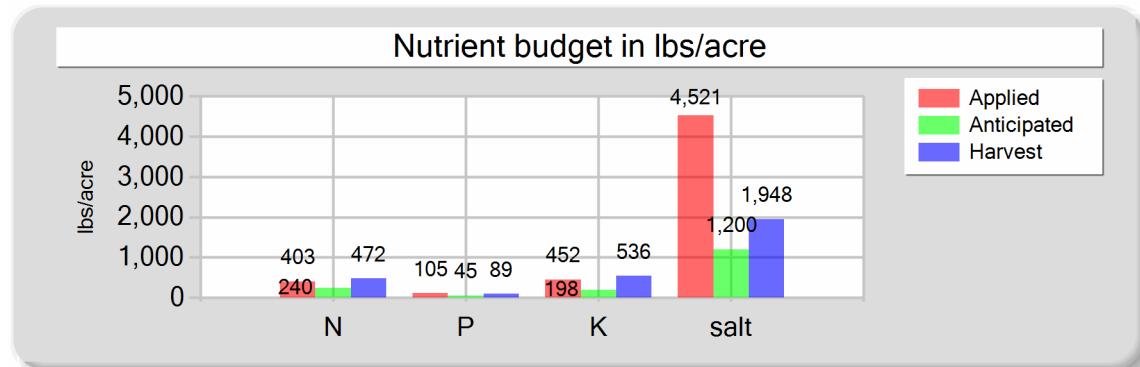
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	37,344,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,375.25 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	18.10 inches/acre
Dry manure	318.39	77.01	324.66	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	22.33	0.00	0.00	1,789.01	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	347.72	77.01	324.66	1,789.01	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	312.39	54.39	453.55	2,300.61	
Nutrient balance	35.33	22.62	-128.89	-511.61	
Applied to removed ratio	1.11	1.42	0.72	0.78	
Total harvests for the crop					1 harvests

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

B-1 - 04/28/2023: Corn, silage

Field name: B-1      Crop: Corn, silage      Plant date: 04/28/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	227.73	83.91	311.80	0.00
Process wastewater	121.81	21.37	139.93	806.39
Fresh water	46.43	0.00	0.00	3,714.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	402.98	105.28	451.73	4,521.27
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	471.68	89.22	536.30	1,948.01
Nutrient balance	-68.70	16.06	-84.57	2,573.26
Applied to removed ratio	0.85	1.18	0.84	2.32

**Fresh water applied**  
77,371,200.00 gallons  
2,849.32 acre-inches  
37.49 inches/acre

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

**Total harvests for the crop**  
1 harvests

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

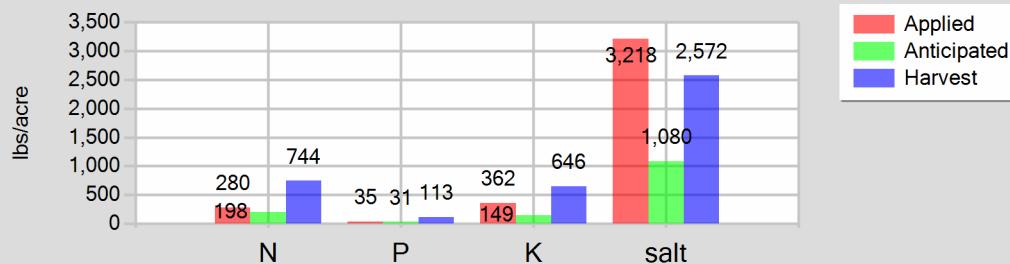
B-2 - 10/18/2022: Wheat, silage, soft dough

Field name: B-2

Crop: Wheat, silage, soft dough

Plant date: 10/18/2022

**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	250.46	35.21	362.31	1,405.97
Fresh water	22.16	0.00	0.00	1,812.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	279.61	35.21	362.31	3,217.99
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	744.36	112.66	645.60	2,572.09
Nutrient balance	-464.75	-77.45	-283.29	645.90
Applied to removed ratio	0.38	0.31	0.56	1.25

**Fresh water applied**

39,105,600.00 gallons  
1,440.13 acre-inches  
18.95 inches/acre

**Process wastewater applied**

7,776,000.00 gallons  
286.36 acre-inches  
3.77 inches/acre

**Total harvests for the crop**

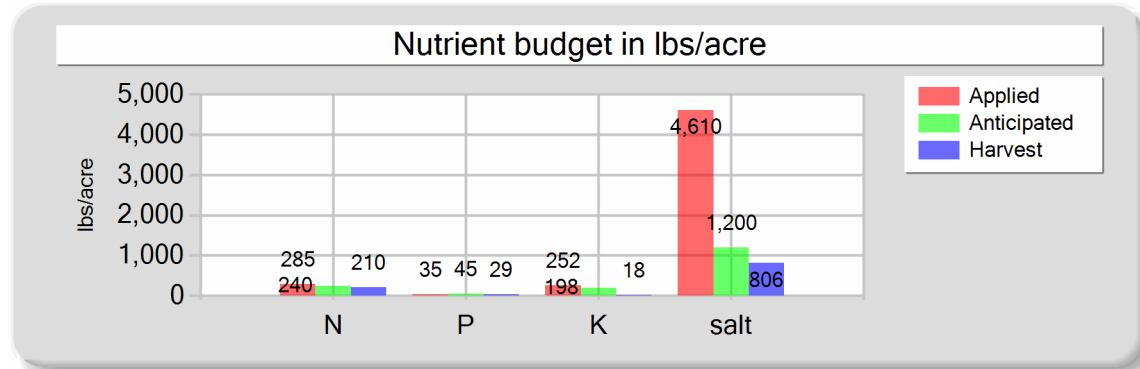
1 harvests

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

B-2 - 06/20/2023: Corn, silage

Field name: B-2      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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	240.78	34.84	251.59	1,616.58
Fresh water	37.54	0.00	0.00	2,993.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	285.32	34.84	251.59	4,610.31
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	209.53	29.04	17.66	806.04
Nutrient balance	75.79	5.80	233.93	3,804.28
Applied to removed ratio	1.36	1.20	14.25	5.72

**Fresh water applied**  
62,001,600.00 gallons  
2,283.31 acre-inches  
30.04 inches/acre

**Process wastewater applied**  
5,184,000.00 gallons  
190.91 acre-inches  
2.51 inches/acre

**Total harvests for the crop**  
1 harvests

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

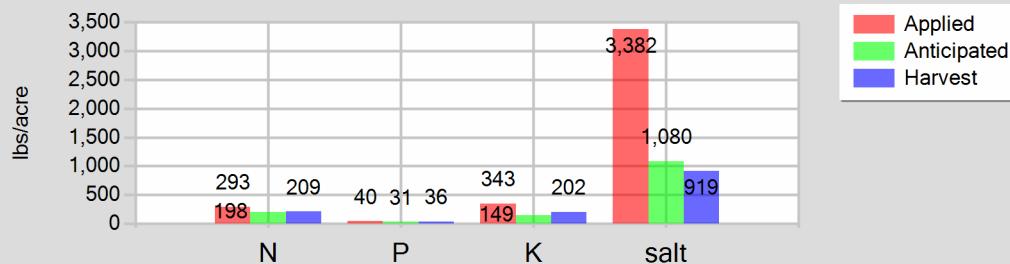
B-3 - 10/22/2022: Wheat, silage, soft dough

Field name: B-3

Crop: Wheat, silage, soft dough

Plant date: 10/22/2022

**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	266.02	40.37	343.27	1,696.71
Fresh water	20.16	0.00	0.00	1,685.27
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	293.19	40.37	343.27	3,381.98
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	209.25	35.83	201.59	918.90
Nutrient balance	83.94	4.54	141.69	2,463.08
Applied to removed ratio	1.40	1.13	1.70	3.68

**Fresh water applied**

33,844,800.00 gallons  
1,246.39 acre-inches  
16.19 inches/acre

**Process wastewater applied**

7,776,000.00 gallons  
286.36 acre-inches  
3.72 inches/acre

**Total harvests for the crop**

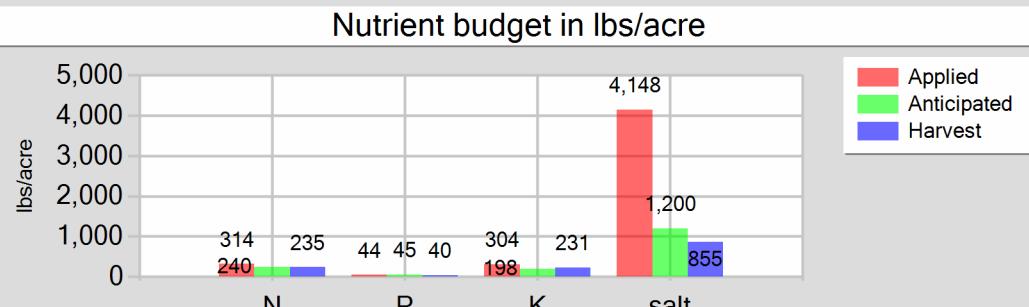
1 harvests

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

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

B-3 - 05/12/2023: Corn, silage

Field name: B-3      Crop: Corn, silage      Plant date: 05/12/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	278.66	44.02	303.67	1,859.64
Fresh water	28.64	0.00	0.00	2,287.95
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	314.31	44.02	303.67	4,147.59
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	235.19	39.63	231.27	855.21
Nutrient balance	79.11	4.39	72.40	3,292.38
Applied to removed ratio	1.34	1.11	1.31	4.85

**Fresh water applied**  
48,148,800.00 gallons  
1,773.16 acre-inches  
23.03 inches/acre

**Process wastewater applied**  
7,776,000.00 gallons  
286.36 acre-inches  
3.72 inches/acre

**Total harvests for the crop**  
1 harvests

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

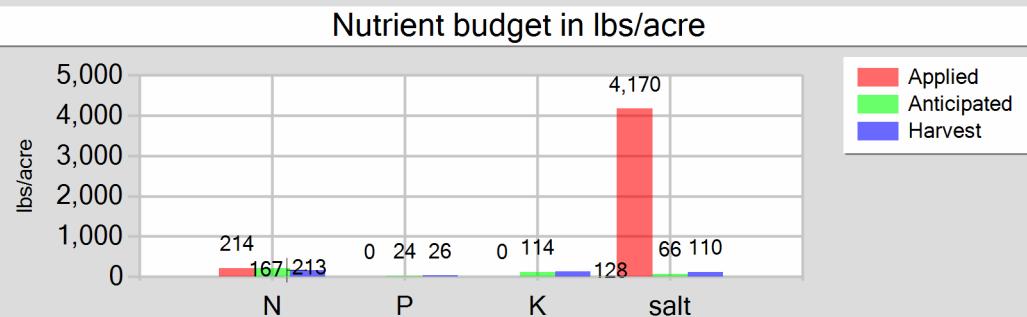
Reporting period 01/01/2023 to 12/31/2023.

B-4 - 01/10/2019: Almond, in shell

Field name: B-4

Crop: Almond, in shell

Plant date: 01/10/2019



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	49.65	0.00	0.00	4,169.52
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	213.65	0.00	0.00	4,169.52
Anticipated crop nutrient removal	213.00	24.00	114.00	66.00
Actual crop nutrient removal	166.92	25.62	128.36	109.82
Nutrient balance	46.73	-25.62	-128.36	4,059.70
Applied to removed ratio	1.28	0.00	0.00	37.97

**Fresh water applied**  
82,500,000.00 gallons  
3,038.19 acre-inches  
39.46 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.

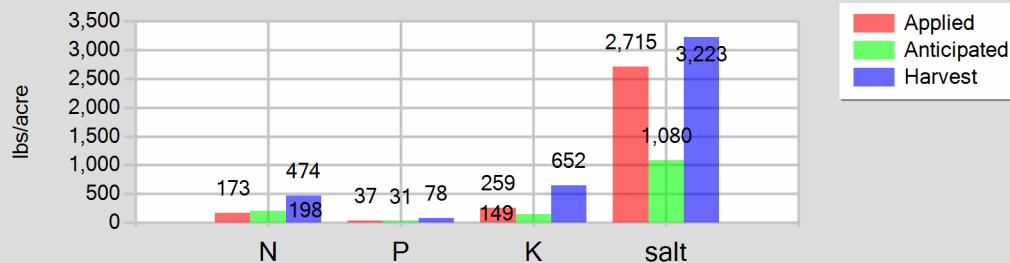
N / S TURF - 10/04/2022: Wheat, silage, soft dough

Field name: N / S TURF

Crop: Wheat, silage, soft dough

Plant date: 10/04/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	6,602,400.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	243.14 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.16 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	151.41	37.22	258.66	1,315.84	Process wastewater applied
Fresh water	14.88	0.00	0.00	1,399.46	2,160,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	79.55 acre-inches
Total nutrients applied	173.29	37.22	258.66	2,715.30	3.98 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	474.13	77.57	652.50	3,223.00	Total harvests for the crop
Nutrient balance	-300.84	-40.35	-393.84	-507.69	1 harvests
Applied to removed ratio	0.37	0.48	0.40	0.84	

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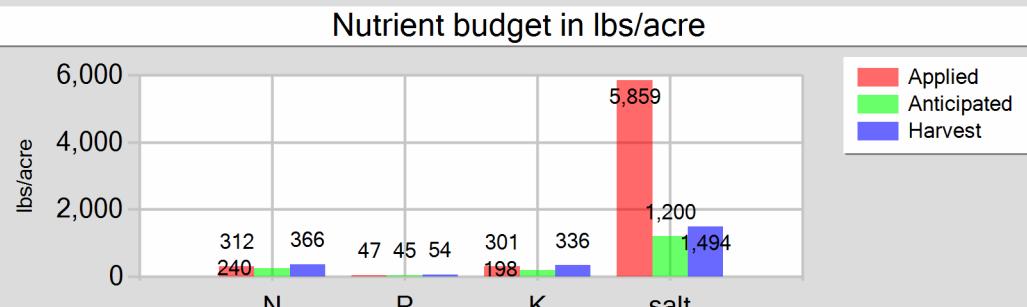
Reporting period 01/01/2023 to 12/31/2023.

N / S TURF - 05/04/2023: Corn, silage

Field name: N / S TURF

Crop: Corn, silage

Plant date: 05/04/2023



	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	20,169,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	742.76 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	37.14 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	257.76	46.79	301.38	1,701.58	Process wastewater applied
Fresh water	47.56	0.00	0.00	4,157.33	2,592,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	95.45 acre-inches
Total nutrients applied	312.32	46.79	301.38	5,858.91	4.77 inches/acre
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00	
Actual crop nutrient removal	366.32	53.86	335.70	1,494.05	Total harvests for the crop
Nutrient balance	-54.00	-7.07	-34.32	4,364.87	1 harvests
Applied to removed ratio	0.85	0.87	0.90	3.92	

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

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

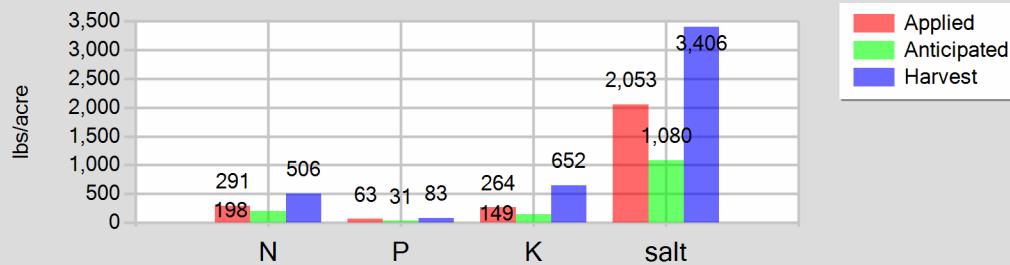
W-1N - 11/03/2022: Wheat, silage, soft dough

Field name: W-1N

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022

**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	259.26	62.71	264.37	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	24.78	0.00	0.00	2,053.17
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	291.04	62.71	264.37	2,053.17
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	506.36	82.71	651.63	3,405.85
Nutrient balance	-215.32	-20.01	-387.26	-1,352.69
Applied to removed ratio	0.57	0.76	0.41	0.60

**Fresh water applied**

17,937,000.00 *gallons*  
660.56 *acre-inches*  
18.87 *inches/acre*

**Process wastewater applied**

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

**Total harvests for the crop**

1 *harvests*

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

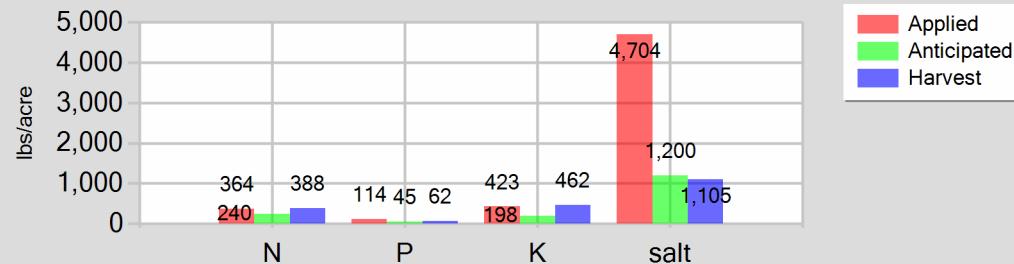
W-1N - 05/24/2023: Corn, silage

Field name: W-1N

Crop: Corn, silage

Plant date: 05/24/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	309.07	113.88	423.15	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	47.83	0.00	0.00	4,704.26
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	363.90	113.88	423.15	4,704.26
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	387.73	61.79	462.43	1,104.93
Nutrient balance	-23.83	52.08	-39.28	3,599.32
Applied to removed ratio	0.94	1.84	0.92	4.26

**Fresh water applied**

46,305,000.00 gallons  
1,705.26 acre-inches  
48.72 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

1 harvests

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

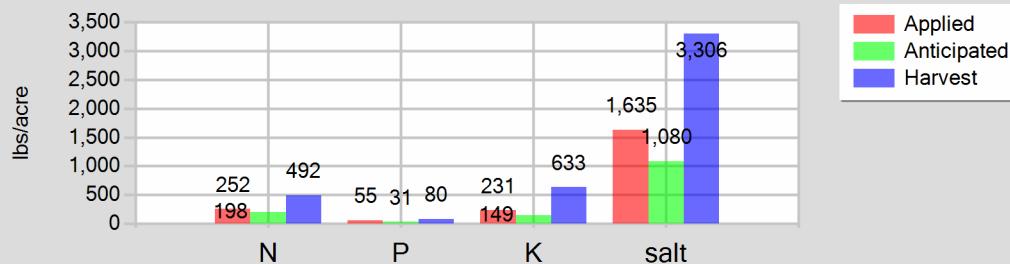
W-1S - 11/04/2022: Wheat, silage, soft dough

Field name: W-1S

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

**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	226.85	54.87	231.32	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	17.91	0.00	0.00	1,634.65
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	251.76	54.87	231.32	1,634.65
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	491.57	80.30	632.60	3,306.38
Nutrient balance	-239.81	-25.43	-401.28	-1,671.73
Applied to removed ratio	0.51	0.68	0.37	0.49

**Fresh water applied**

17,532,000.00 *gallons*  
645.64 *acre-inches*  
16.14 *inches/acre*

**Process wastewater applied**

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

**Total harvests for the crop**

1 *harvests*

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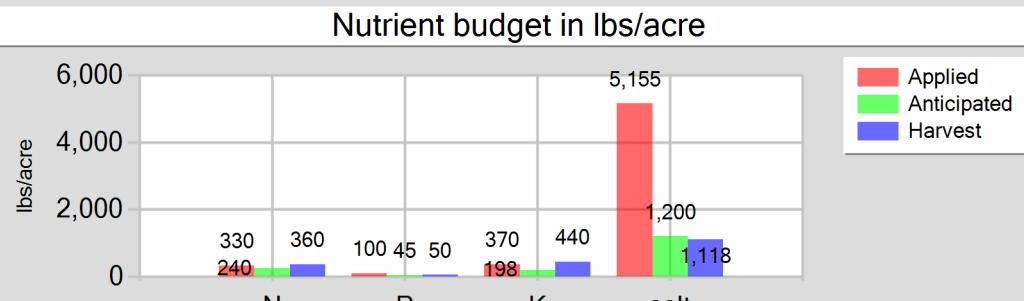
Reporting period 01/01/2023 to 12/31/2023.

W-1S - 05/23/2023: Corn, silage

Field name: W-1S

Crop: Corn, silage

Plant date: 05/23/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	270.44	99.64	370.26	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	52.24	0.00	0.00	5,155.27
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	329.68	99.64	370.26	5,155.27
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	359.86	50.39	440.48	1,117.90
Nutrient balance	-30.18	49.25	-70.22	4,037.37
Applied to removed ratio	0.92	1.98	0.84	4.61

**Fresh water applied**

58,110,000.00 gallons  
2,139.99 acre-inches  
53.50 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

1 harvests

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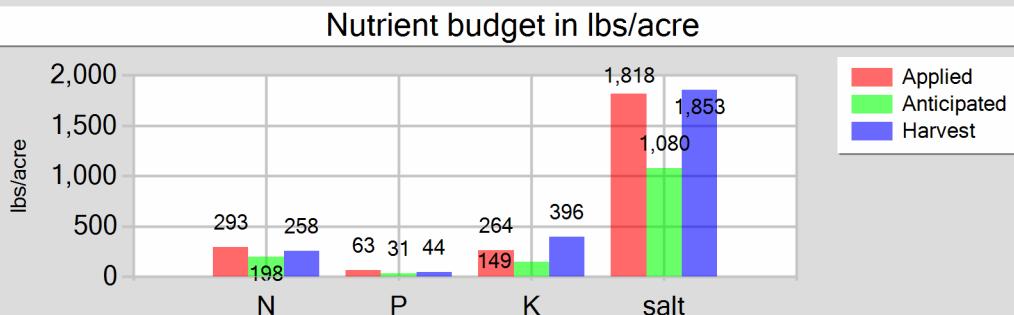
Reporting period 01/01/2023 to 12/31/2023.

W-2 - 10/15/2022: Wheat, silage, boot stage

Field name: W-2

Crop: Wheat, silage, boot stage

Plant date: 10/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	259.26	62.71	264.37	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	26.86	0.00	0.00	1,817.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	293.12	62.71	264.37	1,817.55
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	257.84	44.32	396.17	1,853.25
Nutrient balance	35.28	18.39	-131.80	-35.70
Applied to removed ratio	1.14	1.41	0.67	0.98

**Fresh water applied**

13,008,600.00 gallons  
479.06 acre-inches  
13.69 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.

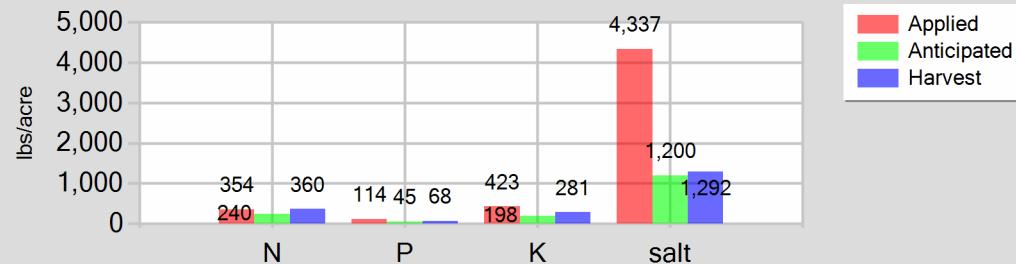
W-2 - 05/20/2023: Corn, silage

Field name: W-2

Crop: Corn, silage

Plant date: 05/20/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	309.07	113.88	423.15	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	37.94	0.00	0.00	4,336.75
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	354.01	113.88	423.15	4,336.75
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	360.01	67.51	280.73	1,292.26
Nutrient balance	-5.99	46.37	142.42	3,044.49
Applied to removed ratio	0.98	1.69	1.51	3.36

**Fresh water applied**

46,272,600.00 gallons  
1,704.06 acre-inches  
48.69 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**

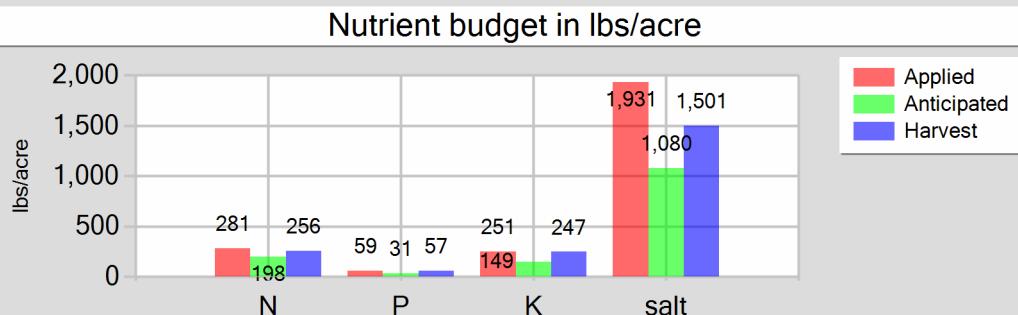
Reporting period 01/01/2023 to 12/31/2023.

W-5 - 10/19/2022: Wheat, silage, soft dough

Field name: W-5

Crop: Wheat, silage, soft dough

Plant date: 10/19/2022



	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	245.76	59.44	250.60	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	28.53	0.00	0.00	1,930.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	281.29	59.44	250.60	1,930.68
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	256.39	57.31	246.73	1,501.27
Nutrient balance	24.90	2.13	3.87	429.40
Applied to removed ratio	1.10	1.04	1.02	1.29

**Fresh water applied**

31,584,600.00 gallons  
1,163.15 acre-inches  
14.54 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.

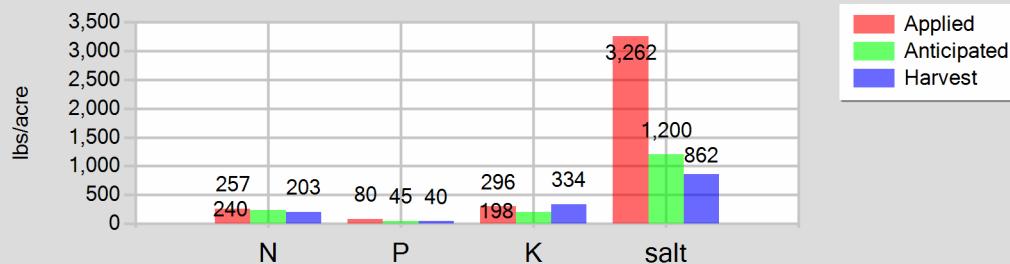
W-5 - 05/26/2023: Corn, silage

Field name: W-5

Crop: Corn, silage

Plant date: 05/26/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	216.35	79.71	296.21	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	33.22	0.00	0.00	3,261.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	256.57	79.71	296.21	3,261.85
Anticipated crop nutrient removal	240.00	45.00	198.00	1,200.00
Actual crop nutrient removal	202.59	40.39	333.89	861.65
Nutrient balance	53.98	39.33	-37.68	2,400.20
Applied to removed ratio	1.27	1.97	0.89	3.79

**Fresh water applied**

73,310,400.00 gallons  
2,699.77 acre-inches  
33.75 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****Compost**

Sample and source description: Compost

Sample date: 09/15/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 5.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,200.00	5,690.00	37,400.00							0.00
<b>DL</b>	1,000.00	1,000.00	1,000.00							0.10

**Corral Solids**

Sample and source description: Corral Solids

Sample date: 09/15/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 25.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	20,300.00	4,910.00	20,700.00							0.00
<b>DL</b>	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: 27.4 %

	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 (%)
<b>Value</b>	14,900.00	5,490.00	20,400.00							0.00
<b>DL</b>	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.

**Compost West of Seperator**

Sample and source description: Compost West of Seperator

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

Moisture: 15.3 %

	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	17,800.00	8,030.00	30,000.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

**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: 34.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,400.00	3,520.00	41,900.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

**B. PROCESS WASTEWATER ANALYSES****LG-East-4 2022**

Sample and source description: LG-East-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	168.00	127.00	0.00	0.00	41.30	287.00								2,540.00	1,460
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

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**LG-West-1**

Sample and source description: LG-West-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)
<b>Value</b>	356.00	171.00	0.00	0.00	41.20	493.00								3,040.00	1,740
<b>DL</b>	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)
<b>Value</b>	146.00	64.40	0.00	0.00	34.30	197.00								1,650.00	940
<b>DL</b>	0.50	5.00	0.50	0.50	0.50	2.00								1.00	10

**LG-East-3**

Sample and source description: LG-East-3

Sample date: 08/17/2023 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)
<b>Value</b>	423.00	214.00	0.00	0.00	61.20	442.00								4,910.00	2,840
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

**WWS-East-4**

Sample and source description: WWS-East-4

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	546.00	347.00	0.00	0.00	88.00	527.00								5,350.00	3,400
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

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**C. FRESH WATER ANALYSES**

#001

#001

Sample description: #001

Sample date: 08/17/2023    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	6.10	0.00	6.10								732.00	469
DL	0.50	0.50	0.50								1.00	10

#1

#1

Sample description: #1

Sample date: 09/27/2023    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	5.40	0.00	5.40								794.00	508
DL	0.50	0.50	0.50								1.00	10

#3

#3

Sample description: #3

Sample date: 08/17/2023    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								439.00	281
DL	0.50	0.50	0.50								1.00	10

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#7

#7

Sample description: #7

Sample date: 08/17/2023    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	7.18	0.00	7.18								988.00	632
DL	0.50	0.50	0.50								1.00	10

#9

#9

Sample description: #9

Sample date: 08/17/2023    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	0.99	0.00	0.99								741.00	474
DL	0.50	0.50	0.50								1.00	10

A-1

A-1

Sample description: A-1

Sample date: 08/17/2023    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	7.46	0.00	7.46								1,070.00	6,870
DL	0.50	0.50	0.50								1.00	10

A-1-DOM

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**A-1-DOM**

**A-1-DOM**

Sample description: A-1-DOM

Sample date: 08/17/2023 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	2.86	0.00	2.86								465.00	298
DL	0.50	0.50	0.50								1.00	10

**A-2**

**A-2**

Sample description: A-2

Sample date: 08/17/2023 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	7.32	0.00	7.32								1,110.00	710
DL	0.50	0.50	0.50								1.00	10

**A-3**

**A-3**

Sample description: A-3

Sample date: 08/17/2023 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								448.00	287
DL	0.50	0.50	0.50								1.00	10

**A-5**

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A-5

A-5

Sample description: A-5

Sample date: 08/17/2023 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	11.10	0.00	11.10								1,140.00	729
DL	0.50	0.50	0.50								1.00	10

B-2

B-2

Sample description: B-2

Sample date: 08/17/2023 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	5.16	0.00	5.16								660.00	422
DL	0.50	0.50	0.50								1.00	10

S-1

S-1

Sample description: S-1

Sample date: 08/17/2023 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	7.58	0.00	7.58								768.00	491
DL	0.50	0.50	0.50								1.00	10

S-DOM

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**S-DOM**

**S-DOM**

Sample description: S-DOM

Sample date: 08/17/2023 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	12.30	0.00	12.30								1,120.00	716
DL	0.50	0.50	0.50								1.00	10

**W1**

**W1**

Sample description: W1

Sample date: 08/17/2023 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	8.66	0.00	8.66								915.00	586
DL	0.50	0.50	0.50								1.00	10

**W2**

**W2**

Sample description: W2

Sample date: 08/17/2023 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								415.00	266
DL	0.50	0.50	0.50								1.00	10

**W2-DOM**

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**W2-DOM**

**W2-DOM**

Sample description: W2-DOM

Sample date: 08/17/2023 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	8.15	0.00	8.15								1,240.00	793
DL	0.50	0.50	0.50								1.00	10

**W3**

**W3**

Sample description: W3

Sample date: 08/17/2023 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	5.79	0.00	5.79								928.00	594
DL	0.50	0.50	0.50								1.00	10

**W3-DOM**

**W3-DOM**

Sample description: W3-DOM

Sample date: 08/17/2023 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	14.70	0.00	14.70								1,570.00	1,000
DL	0.50	0.50	0.50								1.00	10

**W5-DOM**

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**W5-DOM**

**W5-DOM**

Sample description: W5-DOM

Sample date: 08/17/2023 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	5.62	0.00	5.62								667.00	427
DL	0.50	0.50	0.50								1.00	10

**D. SOIL ANALYSES**

*No soil analyses entered.*

**E. PLANT TISSUE ANALYSES**

1 - 09/28/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 04/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,140.00	4,760.00	37,500.00		19.60
DL	1,000.00	10.00	1,000.00		0.10

1 - 05/04/2023: Corn, silage

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1 - 05/04/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	24,286.00	3,450.00	17,100.00		6.10
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

10 - 11/01/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 65.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,305.00	3,640.00	24,300.00		10.40
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

10 - 06/28/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

Sample date: 03/21/2024 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	3,480.00	14,700.00		16.90
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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11 - 10/25/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 54.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,690.00	4,480.00	31,900.00		13.90
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

11 - 07/14/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

Sample date: 03/21/2024 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	22,320.00	4,080.00	24,500.00		17.00
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

2 - 09/29/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 04/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	33,670.00	5,150.00	42,500.00		16.40
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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2 - 05/31/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 74.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,790.00	3,290.00	17,500.00		8.10
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 58.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,138.00	3,360.00	16,500.00		8.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

3 - 05/30/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 67.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,757.00	3,950.00	17,700.00		6.60
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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4 - 11/15/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 70.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,263.00	5,600.00	27,500.00		10.80
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

4 - 05/20/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 58.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,424.00	3,550.00	16,800.00		6.10
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

5 - 11/04/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 70.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,265.00	5,600.00	27,500.00		10.80
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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5 - 06/07/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,884.00	3,470.00	27,700.00		6.90
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

6 - 10/29/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,751.00	5,830.00	27,600.00		11.80
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

6 - 06/23/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

Sample date: 03/21/2024 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	26,170.00	4,210.00	22,100.00		17.00
<b>DL</b>	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.*

7 - 11/16/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,293.00	4,180.00	26,500.00		14.30
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

7 - 06/30/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

Sample date: 03/21/2024 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,770.00	2,900.00	21,200.00		17.00
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

8 - 10/27/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 72.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	22,025.00	6,100.00	39,600.00		14.30
<b>DL</b>	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.*

9 - 07/10/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 56.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,705.00	2,620.00	14,200.00		5.80
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

**Corn Silage**

Sample and source description: Corn Silage

Sample date: 03/21/2024 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,800.00	4,200.00	27,900.00		17.10
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

A-2 - 11/11/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	20,823.00	3,000.00	16,700.00		12.60
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

A-2 - 05/25/2023: Corn, silage

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

A-2 - 05/25/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 59.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,978.00	1,990.00	8,450.00		5.20
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

A-6 - 11/19/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 68.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	20,893.00	2,850.00	20,600.00		11.20
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

A-6 - 06/16/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

Sample date: 03/21/2024 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	22,560.00	4,070.00	21,600.00		9.10
<b>DL</b>	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.*

A-7 - 11/18/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 62.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	8,675.00	2,330.00	12,200.00		8.80
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

A-7 - 06/17/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

Sample date: 03/21/2024 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	27,450.00	4,760.00	25,800.00		17.00
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

B-1 - 06/10/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 04/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 57.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,010.00	3,310.00	27,600.00		14.00
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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B-1 - 04/28/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 66.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,613.00	3,710.00	22,300.00		8.10
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

B-2 - 10/18/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 53.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	28,940.00	4,380.00	25,100.00		10.00
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

B-2 - 06/20/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 71.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,677.00	2,450.00	1,490.00		6.80
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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B-3 - 10/22/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 76.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	29,375.00	5,030.00	28,300.00		12.90
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

B-3 - 05/12/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,526.00	3,290.00	19,200.00		7.10
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

N / S TURF - 10/04/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 04/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	30,010.00	4,910.00	41,300.00		20.40
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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N / S TURF - 05/04/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,860.00	2,920.00	18,200.00		8.10
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

W-1N - 11/03/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 04/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	29,140.00	4,760.00	37,500.00		19.60
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

W-1N - 05/24/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

Sample date: 10/02/2023 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 (%)
<b>Value</b>	18,949.00	3,020.00	22,600.00		5.40
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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W-1S - 11/04/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 04/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	29,140.00	4,760.00	37,500.00		19.60
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

W-1S - 05/23/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,568.00	3,020.00	26,400.00		6.70
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

W-2 - 10/15/2022: Wheat, silage, boot stage

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 04/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,200.00	3,300.00	29,500.00		13.80
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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W-2 - 05/20/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 59.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,158.00	3,030.00	12,600.00		5.80
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

W-5 - 10/19/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 68.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,640.00	4,390.00	18,900.00		11.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

W-5 - 05/26/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,048.00	3,000.00	24,800.00		6.40
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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**F. SUBSURFACE (TILE) DRAINAGE ANALYSES**

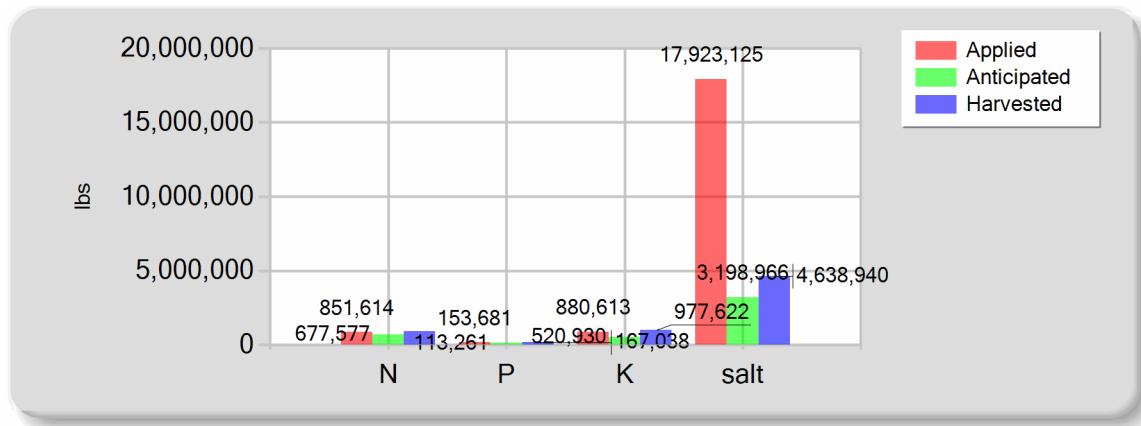
*No subsurface (tile) drainage analyses entered.*

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

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	46,650.00	0.00	0.00	0.00
Dry manure	304,908.24	90,977.31	389,058.65	0.00
Process wastewater	395,180.88	62,703.54	491,554.41	2,552,945.13
Fresh water	80,487.02	0.00	0.00	15,370,179.37
Atmospheric deposition	24,388.00	0.00	0.00	0.00
Total nutrients applied	851,614.13	153,680.85	880,613.06	17,923,124.50
Anticipated crop nutrient removal	677,577.00	113,260.80	520,930.20	3,198,966.00
Actual crop nutrient removal	907,290.50	167,037.92	977,621.81	4,638,940.08
Nutrient balance	-55,676.37	-13,357.07	-97,008.74	13,284,184.42
Applied to removed ratio	0.94	0.92	0.90	3.86

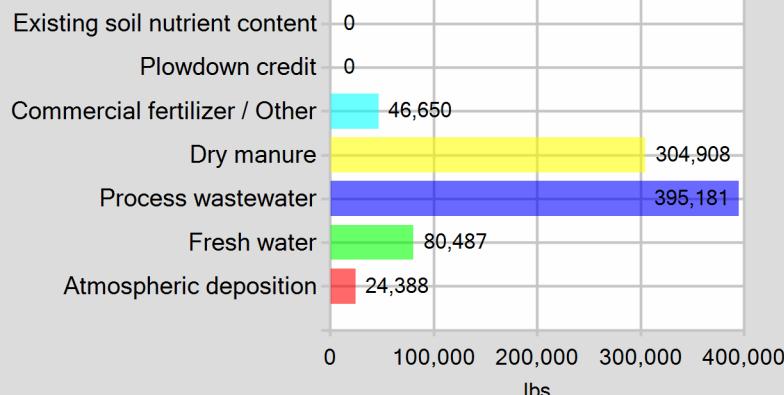
**B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL**

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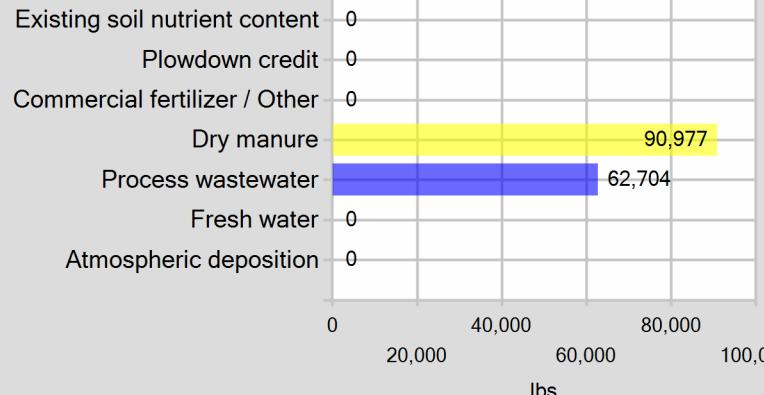
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

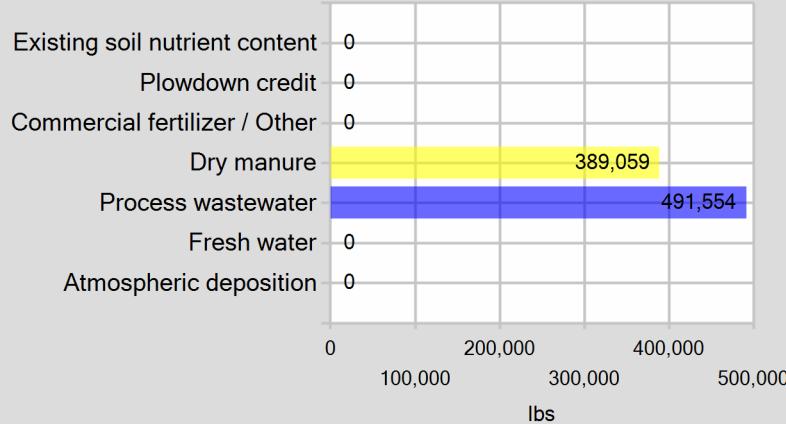
Pounds of nitrogen applied



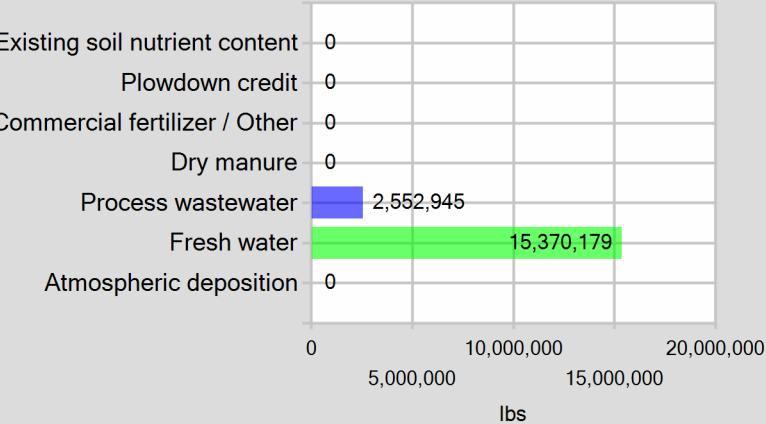
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

**EXCEPTION REPORTING**

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

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

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

**B. STORM WATER DISCHARGES**

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

*No stormwater discharges occurred during the reporting period.*

**C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES**

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

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

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

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

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

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

**B. EXPORT AGREEMENT STATEMENT**

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

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

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

**ADDITIONAL NOTES**

**A. NOTES**

Johann Dairy:

Farming added over 80 Million gallons of fresh water to lagoons before and during irrigations using Waste waters .

**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.*



John Verwey (Jun 28, 2024 11:55 PDT)

SIGNATURE OF OWNER OF FACILITY

John Bastian Verwey

PRINT OR TYPE NAME

Jun 28, 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.

**Manure / Process Wastewater Tracking Manifest  
For  
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

**INSTRUCTIONS**

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure/process wastewater hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

**OPERATOR INFORMATION**

Name of Operator: John Verwey

Name of Dairy Facility: JOHANN DAIRY

Facility Address:

11511 W Floral AVE Number and Street	Fresno City	Fresno County	93706 Zip Code
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Contact Person Name and Phone Number:	<u>John Verwey</u> Name	(559) 779-9863 Phone Number
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**MANURE HAULER INFORMATION**

Name of Hauling Company/Person: Silver Diamond Transport

Address of Hauling Company/Person:

6398 16th Avenue Number and Street	Hanford City	CA State	93230 Zip Code
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Contact Person:	<u>Manuel Dutra</u> Name	(559) 582-1943 Phone Number
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**DESTINATION INFORMATION**

Composting Facility / Broker / Farmer / Other (identify): Broker

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Silver Diamond Transport Name	(559) 582-1943 Phone Number
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6398 16th Avenue Address	Hanford City	CA State	93230 Zip Code
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Destination Address or Assessor's Parcel Number:

Address	Hanford City	93230 Zip Code
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16th & Flint Avenues Street and nearest cross street (if no address)	Fresno County
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Assessor's Parcel Number      Assessor's Parcel Number County

Last date hauled: 03/15/2023

**Manure / Process Wastewater Tracking Manifest**

**For**

**Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

**MANURE AMOUNT HAULED**

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 2,650.00 tons

Manure Solids Content: 94.2 %

Method used to determine amount of manure:

An average of scale weighed trucks multiplied by the total number of trucks hauled.

**CERTIFICATION**

I declare under penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.



John Verwey (Jun 28, 2024 11:55 PDT)  
Operator Signature

Jun 28, 2024

Date



Manuel Dutra  
Hauler Signature

06-28-2024

Date

**Manure / Process Wastewater Tracking Manifest  
For  
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

**INSTRUCTIONS**

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure/process wastewater hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

**OPERATOR INFORMATION**

Name of Operator: John Verwey

Name of Dairy Facility: JOHANN DAIRY

Facility Address:

11511 W Floral AVE Number and Street	Fresno City	Fresno County	93706 Zip Code
---	----------------	------------------	-------------------

Contact Person Name and Phone Number:	<u>John Verwey</u> Name	(559) 779-9863 Phone Number
---------------------------------------	----------------------------	--------------------------------

**MANURE HAULER INFORMATION**

Name of Hauling Company/Person: Ray Moles Farms

Address of Hauling Company/Person:

9685 S. Brawley Avenue Number and Street	Fresno City	CA State	93725 Zip Code
---	----------------	-------------	-------------------

Contact Person:	<u>Ray Moles</u> Name	(559) 259-1505 Phone Number
-----------------	--------------------------	--------------------------------

**DESTINATION INFORMATION**

Composting Facility / Broker / Farmer / Other (identify): Farmer

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Ray Moles Farms Name	(559) 259-1505 Phone Number
-------------------------	--------------------------------

9685 S. Brawley Avenue Address	Fresno City	CA State	93725 Zip Code
-----------------------------------	----------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

9685 S. Brawley Avenue Address	Fresno City	93725 Zip Code
-----------------------------------	----------------	-------------------

S. Brawley Avenue Street and nearest cross street (if no address)	Fresno County
--	------------------

Assessor's Parcel Number      Assessor's Parcel Number County

Last date hauled: 06/10/2023

**Manure / Process Wastewater Tracking Manifest**

**For**

**Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

**MANURE AMOUNT HAULED**

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 1,500.00 tons

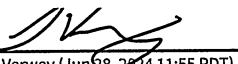
Manure Solids Content: 72.6 %

Method used to determine amount of manure:

An average of scale weighed trucks multiplied by the total number of trucks hauled.

**CERTIFICATION**

I declare under penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.

  
John Verwey (Jun 28, 2024 11:55 PDT)  
Operator Signature

Jun 28, 2024  
Date

  
Ray Moles  
Hauler Signature

06-28-2024  
Date

**Manure / Process Wastewater Tracking Manifest  
For  
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

**INSTRUCTIONS**

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure/process wastewater hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

**OPERATOR INFORMATION**

Name of Operator: John Verwey

Name of Dairy Facility: JOHANN DAIRY

Facility Address:

11511 W Floral AVE Number and Street	Fresno City	Fresno County	93706 Zip Code
---	----------------	------------------	-------------------

Contact Person Name and Phone Number:	<u>John Verwey</u> Name	(559) 779-9863 Phone Number
---------------------------------------	----------------------------	--------------------------------

**MANURE HAULER INFORMATION**

Name of Hauling Company/Person: Thomas Brothers Trucking

Address of Hauling Company/Person:

P.O. Box 992 Number and Street	Riverdale City	CA State	93656 Zip Code
-----------------------------------	-------------------	-------------	-------------------

Contact Person:	<u>Manuel Thomas</u> Name	(559) 906-1406 Phone Number
-----------------	------------------------------	--------------------------------

**DESTINATION INFORMATION**

Composting Facility / Broker / Farmer / Other (identify): Broker

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Thomas Brothers Trucking Name	(559) 906-1406 Phone Number
----------------------------------	--------------------------------

P.O. Box 992 Address	Riverdale City	CA State	93656 Zip Code
-------------------------	-------------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

Address	Riverdale City	93656 Zip Code
---------	-------------------	-------------------

23rd. & Elder Avenues Street and nearest cross street (if no address)	Fresno County
--	------------------

Assessor's Parcel Number      Assessor's Parcel Number County

Last date hauled: 09/18/2023

**Manure / Process Wastewater Tracking Manifest**

**For**

**Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

**MANURE AMOUNT HAULED**

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 1,000.00 tons

Manure Solids Content: 74.5 %

Method used to determine amount of manure:

An average of scale weighed trucks multiplied by the total number of trucks hauled.

**CERTIFICATION**

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John Verwey (Jun 28, 2024 11:55 PDT)  
Operator Signature

**Jun 28, 2024**  
Date

  
Manuel Thomas  
Hauler Signature

**06-28-2024**  
Date

**Manure / Process Wastewater Tracking Manifest  
For  
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

**INSTRUCTIONS**

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure/process wastewater hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

**OPERATOR INFORMATION**

Name of Operator: John Verwey

Name of Dairy Facility: JOHANN DAIRY

Facility Address:

11511 W Floral AVE Number and Street	Fresno City	Fresno County	93706 Zip Code
---	----------------	------------------	-------------------

Contact Person Name and Phone Number:	<u>John Verwey</u> Name	(559) 779-9863 Phone Number
---------------------------------------	----------------------------	--------------------------------

**MANURE HAULER INFORMATION**

Name of Hauling Company/Person: Ray Moles Farms

Address of Hauling Company/Person:

9685 S. Brawley Avenue Number and Street	Fresno City	CA State	93725 Zip Code
---	----------------	-------------	-------------------

Contact Person:	<u>Ray Moles</u> Name	(559) 259-1505 Phone Number
-----------------	--------------------------	--------------------------------

**DESTINATION INFORMATION**

Composting Facility / Broker / Farmer / Other (identify): Farmer

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Ray Moles Farms Name	(559) 259-1505 Phone Number
-------------------------	--------------------------------

9685 S. Brawley Avenue Address	Fresno City	CA State	93725 Zip Code
-----------------------------------	----------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

9685 S. Brawley Avenue Address	Fresno City	93725 Zip Code
-----------------------------------	----------------	-------------------

S. Brawley Avenue Street and nearest cross street (if no address)	Fresno County
--	------------------

Assessor's Parcel Number      Assessor's Parcel Number County

Last date hauled: 11/10/2023

**Manure / Process Wastewater Tracking Manifest**

**For**

**Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

**MANURE AMOUNT HAULED**

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 1,178.00 tons

Manure Solids Content: 84.7 %

Method used to determine amount of manure:

An average of scale weighed trucks multiplied by the total number of trucks hauled.

**CERTIFICATION**

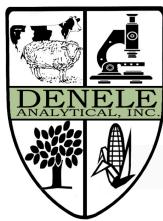
I declare under penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

  
John Verwey (Jun 28, 2024 11:55 PDT)  
Operator Signature

**Jun 28, 2024**  
Date

  
Ray Moles  
Hauler Signature

**06-28-2024**  
Date



## Denele Analytical, Inc.

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

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

## Compliance Analysis Report

**Customer**

Johann Dairy  
11511 W. Floral Ave.  
Fresno, CA 93706

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 19.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
A-2	T3229018A	Electrical Conductivity (EC)	EPA 120.1 and	1.11	mmhos/cm
		Nitrate Nitrogen (NO <sub>3</sub> -N)	EPA 353.2	7.32	mg/L
		Ammonia Nitrogen (NH <sub>3</sub> -N)	SM 4500-NH <sub>3</sub> D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	710	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH <sub>3</sub> -N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO <sub>3</sub> -N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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



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## Compliance Analysis Report

**Customer**

Johann Dairy  
11511 W. Floral Ave.  
Fresno, CA 93706

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

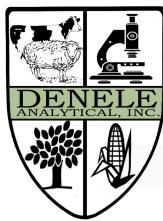
SOURCE: Well Water

NOTES: Temperature was above qualifying at 19.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
A-1	T3229018B	Electrical Conductivity (EC)	EPA 120.1 and	1.07	mmhos/cm
		Nitrate Nitrogen (NO <sub>3</sub> -N)	EPA 353.2	7.46	mg/L
		Ammonia Nitrogen (NH <sub>3</sub> -N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	687	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH <sub>3</sub> -N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO <sub>3</sub> -N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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## Compliance Analysis Report

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Merced, CA 95344

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 18.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
A-1-DOM	T3229018C	Electrical Conductivity (EC)	EPA 120.1 and	0.465	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	2.86	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	298	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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## Compliance Analysis Report

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P.O. Box 3679  
Merced, CA 95344

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

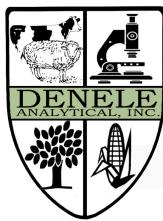
SOURCE: Well Water

NOTES: Temperature was above qualifying at 18.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W1	T3229018D	Electrical Conductivity (EC) Nitrate Nitrogen (NO <sub>3</sub> -N) Ammonia Nitrogen (NH <sub>3</sub> -N) Soluble Salts (SALT-SOL)	EPA 120.1 and EPA 353.2 SM 4500-NH3 D,C Calculation	0.915 8.66 < 0.500 586	mmhos/cm mg/L mg/L mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH <sub>3</sub> -N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO <sub>3</sub> -N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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## Compliance Analysis Report

**Customer**

Johann Dairy  
11511 W. Floral Ave.  
Fresno, CA 93706

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

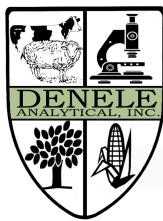
SOURCE: Well Water

NOTES: Temperature was above qualifying at 18.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W5-DOM	T3229018E	Electrical Conductivity (EC)	EPA 120.1 and	0.667	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	5.62	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	427	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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## Compliance Analysis Report

**Customer**

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**Grower****Consultant:**

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P.O. Box 3679  
Merced, CA 95344

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

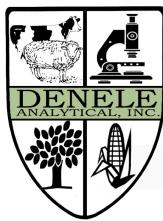
SOURCE: Well Water

NOTES: Temperature was above qualifying at 18.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W2	T3229018F	Electrical Conductivity (EC)	EPA 120.1 and	0.415	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	0.327	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	266	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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## Compliance Analysis Report

**Customer**

Johann Dairy  
11511 W. Floral Ave.  
Fresno, CA 93706

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 18.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W2-DOM	T3229018G	Electrical Conductivity (EC)	EPA 120.1 and	1.24	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	8.15	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	793	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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Phone (530) 666-9056 - Fax (530) 666-9058

## Compliance Analysis Report

**Customer**

Johann Dairy  
11511 W. Floral Ave.  
Fresno, CA 93706

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

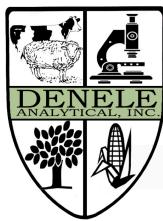
SOURCE: Well Water

NOTES: Temperature was above qualifying at 18.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W3	T3229018H	Electrical Conductivity (EC)	EPA 120.1 and	0.928	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	5.79	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	594	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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## Denele Analytical, Inc.

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

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

## Compliance Analysis Report

**Customer**

Johann Dairy  
11511 W. Floral Ave.  
Fresno, CA 93706

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

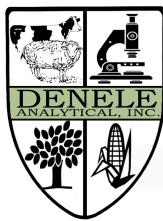
SOURCE: Well Water

NOTES: Temperature was above qualifying at 18.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W3-DOM	T3229018I	Electrical Conductivity (EC)	EPA 120.1 and	1.57	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	14.7	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	1000	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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## Compliance Analysis Report

**Customer**

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Merced, CA 95344

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 18.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
B-2	T3229018J	Electrical Conductivity (EC)	EPA 120.1 and	0.660	mmhos/cm
		Nitrate Nitrogen (NO <sub>3</sub> -N)	EPA 353.2	5.16	mg/L
		Ammonia Nitrogen (NH <sub>3</sub> -N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	422	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH <sub>3</sub> -N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO <sub>3</sub> -N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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

Client: JOHANN DAIRY  
Mailing address: 11511 W. Floral Ave. Fresno CA 93706  
(not facility address)  
Phone#: 559-779-9863

**IRRIGATION/GROUND WATER**

H1 EC<sup>+</sup>, NO3-N, NH4-N<sup>+</sup>  
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<sup>+</sup>, NH4-N, TKN, TP, K, TDS  
H4 EC<sup>+</sup>, 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<sup>+</sup>, NO3-N, TP, NH4-N<sup>+</sup>, TDS

**Required Field Measurement**

(Check here if performed)

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis		
1	8-16-23	1100	A-2		19.8	X			
2		1110	A-1		19.0	X			
3		1120	A1-DOM		18.0	X			
4		1130	W1		18.6	X			
5		1140	W5-DOM		18.6	X			
6		1145	W2		18.6	X			
7		1150	W2-DOM		18.6	X			
8		1155	W3		18.8	X			
9	8-16-23	1200	W3-DOM		18.8	X			
10	8-16-23	1210	B-2		18.8	X			

**CHAIN OF CUSTODY RECORDING**

Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)
1st 	HeartLand Consulting		8-17-23 1440	Logged In By:
2nd 	DENELE ANALYTICAL, INC.	8/17/23 1440		LABORATORY NUMBER T3229018

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

**DAIRY COMPLIANCE**

Authorized Copy Released To:

hlcdn@yahoo.com

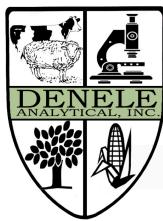
Sampled By: Daniel Roos

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



## Denele Analytical, Inc.

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## Compliance Analysis Report

**Customer**

Johann Dairy  
11511 W. Floral Ave.  
Fresno, CA 93706

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

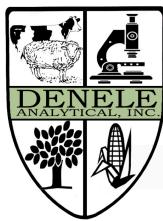
SOURCE: Well Water

NOTES: Temperature was above qualifying at 16.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
S-DOM	T3229017A	Electrical Conductivity (EC)	EPA 120.1 and	1.12	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	12.3	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	716	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 16.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
S-1	T3229017B	Electrical Conductivity (EC)	EPA 120.1 and	0.768	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	7.58	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	491	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 16.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#001	T3229017C	Electrical Conductivity (EC) Nitrate Nitrogen (NO3-N) Ammonia Nitrogen (NH3-N) Soluble Salts (SALT-SOL)	EPA 120.1 and EPA 353.2 SM 4500-NH3 D,C Calculation	0.732 6.10 < 0.500 469	mmhos/cm mg/L mg/L mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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**PURCHASE ORDER:**

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ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

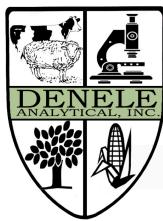
SOURCE: Well Water

NOTES: Temperature was above qualifying at 16.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#A-9	T3229017D	Electrical Conductivity (EC)	EPA 120.1 and	0.741	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	0.989	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	474	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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Irrigation/ Ground Water (H1)

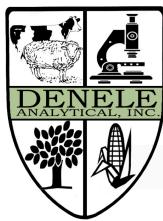
SOURCE: Well Water

NOTES: Temperature was above qualifying at 16.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#A-7	T3229017E	Electrical Conductivity (EC)	EPA 120.1 and	0.988	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	7.18	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	632	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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Merced, CA 95344

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Irrigation/ Ground Water (H1)

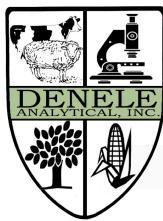
SOURCE: Well Water

NOTES: Temperature was above qualifying at 16.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#A-5	T3229017F	Electrical Conductivity (EC)	EPA 120.1 and	1.14	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	11.1	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)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO3-N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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## Compliance Analysis Report

**Customer**

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Fresno, CA 93706

**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 8/17/23 2:40 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 18.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#A-3	T3229017H	Electrical Conductivity (EC)	EPA 120.1 and	0.448	mmhos/cm
		Nitrate Nitrogen (NO <sub>3</sub> -N)	EPA 353.2	< 0.140	mg/L
		Ammonia Nitrogen (NH <sub>3</sub> -N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	287	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH <sub>3</sub> -N)	99.0	97.6 (T3229017A)	101 (T3229017A)	3.61
Electrical Conductivity (EC)	100			0.492
Nitrate Nitrogen (NO <sub>3</sub> -N)	104	100 (T3229017A)	97.7 (T3229017A)	2.75

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

Client: JOHANN DAIRY  
Mailing address: 11511 W. Floral Ave. Fresno CA 93706  
(not facility address)  
Phone#: 559-779-9863

**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	8-16-23	1220	S-DOM		16.6°		X		
2		1225	S-1		16.0°		X		
3		1230	#001		16.0°		X		
4		1240	# A-9		16.2°		X		
5		1245	# A-7		16.6°		X		
6		1255	# A-5		16.6°		X		
7	8-16-23	1310	LG-EAST -3		16.8°			X	
8			*A-3		18.0°		X		
9									
10									

**CHAIN OF CUSTODY RECORDING**

Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)
1st 	HeartLand Consulting		8-17-23 1440	Logged In By: LABORATORY NUMBER
2nd 	DENELE ANALYTICAL, INC.	8/17/23 1440		T3229017

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

**DAIRY COMPLIANCE**

Authorized Copy Released To:

hlcdan@yahoo.com

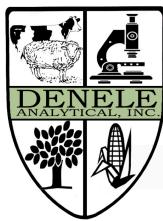
Sampled By: Daniel Roos

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



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## Compliance Analysis Report

**Customer**

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**Grower****Consultant:**

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

**PURCHASE ORDER:**

RECEIVED DATE: 9/27/23 2:45 PM  
SUBMITTED BY: Dan  
ANALYZED DATE: 9/27/23

Irrigation/ Ground Water (H1)

SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 18.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#1	T3270070A	Electrical Conductivity (EC)	EPA 120.1 and	0.794	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	5.40	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	508	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	94.4	93.4 (T3269010A)	95.8 (T3269010A)	2.53
Electrical Conductivity (EC)	97.9			0.208
Nitrate Nitrogen (NO3-N)	98.2	98.9 (T3269039A)	91.9 (T3269039A)	7.42

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# pages from 2023 AR JOHANN DAIRY

Final Audit Report

2024-06-28

Created:	2024-06-28
By:	Daniel Roos (hlcdn@yahoo.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAcq7pYisGfQVkwC22HvZ1C-XPIJICKyn5

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2024-06-28 - 5:40:32 PM GMT- IP address: 54.241.188.154
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2024-06-28 - 5:41:27 PM GMT
-  Email viewed by John Verwey (johnverwey@hotmail.com)  
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