

**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:** Philip Verwey Dairy, Inc.

Physical address of dairy:

12852 Road 9 Number and Street	Madera City	Madera County	93637 Zip Code
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Street and nearest cross street (if no address): \_\_\_\_\_

Date facility was originally placed in operation: 05/01/2000

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0043-0075-0005-0000	0043-0076-0003-0000
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**B. OPERATORS**

Verwey, Philip

Operator name: <u>Verwey, Philip</u>	Telephone no.:	(559) 908-0836	
	Landline	Cellular	
19765 13th Avenue Mailing Address Number and Street	Hanford City	CA State	93230 Zip Code

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

**C. OWNERS**

Verwey, Philip

Legal owner name: <u>Verwey, Philip</u>	Telephone no.:	(559) 908-0836	
	Landline	Cellular	
19765 13th Avenue Mailing Address Number and Street	Hanford City	CA State	93230 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	157	1,200	800	400	0
Number under roof	2,600	0	0	0	0	0
Maximum number	2,700	300	1,205	1,000	500	0
Average number	2,600	157	1,200	800	400	0
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Holstein

Average milk production: 72 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 91,238.87 tons per reporting period

Total nitrogen from manure: 1,118,859.95 lbs per reporting period

After ammonia losses (30% loss applied): 783,201.97 lbs per reporting period

Total phosphorus from manure: 186,437.05 lbs per reporting period

Total potassium from manure: 501,340.39 lbs per reporting period

Total salt from manure: 1,260,312.15 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 30,984,000 gallons

Total nitrogen generated: 170,645.97 lbs

$$\begin{aligned}
 & 30,984,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 30,984,000 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 13,176.28 lbs

Total potassium generated: 265,080.99 lbs

Total salt generated: 1,374,449.54 lbs

**D. FRESH WATER SOURCES**

Source Description	Type
1	Ground water
10	Ground water
13	Ground water
2	Ground water
22	Ground water

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Source Description	Type
24	Ground water
26A	Ground water
27	Ground water
27A	Ground water
27B	Ground water
29A	Ground water
31	Ground water
32	Ground water
35A	Ground water
3B	Ground water
6	Ground water
8	Ground water
D-11	Ground water
D-12	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 (%)
12/01/2023	Corral solids	4,375.00 ton	Dry-weight	11.2		22,400.00	9,040.00	24,500.00		0.00

*No liquid nutrient exports entered.*

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	174,048.00	70,240.80	190,365.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	174,048.00	70,240.80	190,365.00	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
PV-1 A	42	42	2	process wastewater	0043-0075-0005-0000
PV-1 B	41	41	2	process wastewater	0043-0075-0005-0000
PV-10	96	96	5	process wastewater	0043-0075-0005-0000
PV-11	17	17	2	process wastewater	0043-0075-0005-0000
PV-12	38	38	0	none	0043-0076-0005-0000
PV-13	17	17	2	process wastewater	0043-0075-0005-0000
PV-2	100	97	2	process wastewater	0043-0075-0005-0000
PV-3	100	98	2	process wastewater	0043-0073-0006-0000
PV-4	100	97	2	process wastewater	0043-0074-0004-0000
PV-5	100	96	2	process wastewater	0043-0076-0005-0000
PV-6	59	58	0	none	0043-0076-0005-0000
PV-7	98	94	2	process wastewater	0043-0076-0003-0000
PV-8	98	98	3	process wastewater	0043-0075-0005-0000
PV-9	90	88	5	process wastewater	0043-0076-0003-0000
PVE-21	82	82	2	manure	0043-0081-0001-0000
PVE-22	76	76	1	none	0043-0081-0001-0000
PVE-23	77	77	1	none	0043-0081-0001-0000
PVE-24	77	77	1	none	0043-0081-0001-0000
PVE-25	76	76	2	manure	0043-0083-0001-0000
PVE-26	73	73	2	manure	0043-0083-0001-0000
PVE-27	89	89	2	manure	0043-0083-0001-0000 0043-0083-0002-0000
PVE-28	85	85	2	manure	0043-0081-0001-0000
PVE-29	79	79	1	none	0043-0081-0001-0000
PVE-30	76	76	1	none	0043-0081-0001-0000
PVE-31	78	78	1	none	0043-0081-0001-0000
PVE-32	78	78	2	manure	0043-0083-0001-0000
PVE-33	80	80	2	manure	0043-0083-0001-0000
PVE-34	79	79	2	manure	0043-0083-0001-0000
PVE-35	72	72	2	manure	0043-0083-0001-0000 0043-0091-0005-0000
Totals for areas that were used for application	1,613	1,595	49		
Totals for areas that were not used for application	560	559	6		
Land application area totals	2,173	2,154	55		

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**B. CROPS AND HARVESTS****PV-1 A**

Field name: PV-1 A

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

Crop: Wheat, silage, soft dough      Acres planted: 42      Plant date: 11/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/24/2023	706.00 ton	Dry-weight		70.2	19,900.00	2,470.00	27,200.00		13.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.81	199.37	24.75	272.50	1,382.55

05/25/2023: Tomato

Crop: Tomato      Acres planted: 42      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 (%)
10/01/2023	2,142.00 ton	Dry-weight		93.0	21,300.00	10,700.00	48,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	50.00	150.00	70.00	350.00	1,750.00
Total actual harvest content	51.00	152.08	76.40	342.72	321.30

**PV-1 B**

Field name: PV-1 B

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**PV-1 B**

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

Crop: Wheat, silage, soft dough      Acres planted: 41      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 (%)
04/25/2023	689.00 ton	Dry-weight		67.6	21,700.00	3,030.00	30,800.00		13.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.80	236.30	33.00	335.40	1,426.53

05/25/2023: Tomato

Crop: Tomato      Acres planted: 41      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	2,091.00 ton	Dry-weight		93.0	21,300.00	10,700.00	48,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	50.00	150.00	70.00	350.00	1,750.00
Total actual harvest content	51.00	152.08	76.40	342.72	321.30

**PV-10**Field name: PV-10

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PV-10

11/20/2019: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 96      Plant date: 11/20/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	210.00 ton	Dry-weight		62.2	29,900.00	3,790.00	38,300.00		11.90
05/24/2023	96.00 ton	Dry-weight		5.6	33,500.00	3,400.00	36,200.00		10.20
06/26/2023	88.00 ton	Dry-weight		5.6	33,500.00	3,400.00	36,200.00		10.20
07/12/2023	82.00 ton	Dry-weight		5.6	33,500.00	3,400.00	36,200.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,480.00
Total actual harvest content	4.96	224.70	24.05	252.71	730.39

07/15/2023: Sudangrass, silage

Crop: Sudangrass, silage      Acres planted: 96      Plant date: 07/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/27/2023	979.00 ton	Dry-weight		65.8	19,700.00	2,180.00	38,800.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	320.00	44.00	330.00	600.00
Total actual harvest content	10.20	137.41	15.21	270.64	404.57

PV-11

Field name: PV-11

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PV-11

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

Crop: Wheat, silage, soft dough      Acres planted: 17      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 (%)
04/25/2023	218.00 ton	Dry-weight		67.4	20,900.00	3,370.00	32,200.00		13.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	12.82	174.74	28.18	269.22	1,120.37

05/25/2023: Tomato

Crop: Tomato      Acres planted: 17      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 (%)
09/30/2023	663.00 ton	Dry-weight		93.0	21,300.00	10,700.00	48,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	50.00	150.00	70.00	350.00	1,750.00
Total actual harvest content	39.00	116.30	58.42	262.08	245.70

PV-13

Field name: PV-13

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

Crop: Wheat, silage, soft dough      Acres planted: 17      Plant date: 11/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/24/2023	286.00 ton	Dry-weight		51.8	18,800.00	2,690.00	26,600.00		13.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.82	304.90	43.63	431.40	2,108.32

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PV-13

05/23/2023: Tomato

Crop: Tomato      Acres planted: 17      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 (%)
09/29/2023	867.00 ton	Dry-weight		93.0	21,300.00	10,700.00	48,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	50.00	150.00	70.00	350.00	1,750.00
Total actual harvest content	51.00	152.08	76.40	342.72	321.30

PV-2

Field name: PV-2

11/24/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 97      Plant date: 11/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,613.00 ton	Dry-weight		54.6	16,600.00	2,670.00	22,600.00		11.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.63	250.64	40.31	341.24	1,751.49

05/22/2023: Tomato

Crop: Tomato      Acres planted: 97      Plant date: 05/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/28/2023	4,896.00 ton	Dry-weight		93.0	21,300.00	10,700.00	48,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	50.00	150.00	70.00	350.00	1,750.00
Total actual harvest content	50.47	150.51	75.61	339.19	317.99

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**PV-3**

Field name: PV-3

11/24/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 98      Plant date: 11/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,630.00 ton	Dry-weight		54.0	16,700.00	1,950.00	16,500.00		7.84

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.63	255.54	29.84	252.48	1,199.68

05/20/2023: Tomato

Crop: Tomato      Acres planted: 98      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 (%)
09/27/2023	4,947.00 ton	Dry-weight		93.0	21,300.00	10,700.00	48,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	50.00	150.00	70.00	350.00	1,750.00
Total actual harvest content	50.48	150.53	75.62	339.22	318.02

**PV-4**

Field name: PV-4

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

Crop: Wheat, silage, soft dough      Acres planted: 97      Plant date: 11/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,596.00 ton	Dry-weight		53.4	17,900.00	2,450.00	21,800.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.45	274.49	37.57	334.30	1,564.15

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**PV-4**

05/19/2023: Tomato

Crop: Tomato      Acres planted: 97      Plant date: 05/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	4,845.00 ton	Dry-weight		93.0	21,300.00	10,700.00	48,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	50.00	150.00	70.00	350.00	1,750.00
Total actual harvest content	49.95	148.95	74.82	335.65	314.68

**PV-5**

Field name: PV-5

12/07/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 96      Plant date: 12/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/21/2023	1,630.00 ton	Dry-weight		54.2	9,450.00	1,740.00	9,940.00		9.65

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.98	146.98	27.06	154.60	1,500.86

05/16/2023: Tomato

Crop: Tomato      Acres planted: 96      Plant date: 05/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/23/2023	4,947.00 ton	Dry-weight		93.0	21,300.00	10,700.00	48,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	50.00	150.00	70.00	350.00	1,750.00
Total actual harvest content	51.53	153.67	77.19	346.29	324.65

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PV-7

Field name: PV-7

11/20/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 94      Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,579.00 ton	Dry-weight		66.0	16,100.00	2,450.00	21,400.00		14.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.80	183.90	27.99	244.44	1,622.00

05/14/2023: Tomato

Crop: Tomato      Acres planted: 94      Plant date: 05/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	4,794.00 ton	Dry-weight		93.0	21,300.00	10,700.00	48,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	50.00	150.00	70.00	350.00	1,750.00
Total actual harvest content	51.00	152.08	76.40	342.72	321.30

PV-8

Field name: PV-8

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**PV-8**

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

Crop: Wheat, silage, soft dough      Acres planted: 98      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 (%)
04/25/2023	1,630.00 ton	Dry-weight		69.2	20,200.00	3,010.00	29,300.00		14.20
04/25/2023	1,630.00 ton	Dry-weight		69.2	20,200.00	3,010.00	29,300.00		14.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	33.27	413.93	61.68	600.40	2,909.78

05/12/2023: Tomato

Crop: Tomato      Acres planted: 98      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 (%)
09/18/2023	4,947.00 ton	Dry-weight		93.0	21,300.00	10,700.00	48,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	50.00	150.00	70.00	350.00	1,750.00
Total actual harvest content	50.48	150.53	75.62	339.22	318.02

**PV-9**Field name: PV-9

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

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

PV-9

11/22/2019: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 88      Plant date: 11/22/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	160.00 ton	Dry-weight		59.4	25,200.00	2,420.00	30,300.00		11.80
05/25/2023	93.00 ton	Dry-weight		5.6	33,500.00	3,400.00	36,200.00		10.20
06/28/2023	82.00 ton	Dry-weight		5.6	33,500.00	3,400.00	36,200.00		10.20
07/12/2023	56.00 ton	Dry-weight		5.6	33,500.00	3,400.00	36,200.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,480.00
Total actual harvest content	4.44	203.23	20.42	224.14	679.72

07/14/2023: Sudangrass, silage

Crop: Sudangrass, silage      Acres planted: 88      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 (%)
10/08/2023	941.00 ton	Dry-weight		47.4	18,500.00	1,950.00	24,600.00		12.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	320.00	44.00	330.00	600.00
Total actual harvest content	10.69	208.11	21.94	276.73	1,428.65

PVE-21

Field name: PVE-21

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

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

**PVE-21**

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 82      Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,378.00 ton	Dry-weight		39.6	12,000.00	1,490.00	6,240.00		8.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.80	243.60	30.25	126.67	1,735.68

06/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 82      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 (%)
10/13/2023	2,189.00 ton	Dry-weight		69.2	9,700.00	1,092.00	10,200.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	26.70	159.51	17.96	167.73	1,085.32

**PVE-22**Field name: PVE-22

01/12/2019: Almond, in shell

Crop: Almond, in shell      Acres planted: 76      Plant date: 01/12/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	106.00 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	1.00	130.00	20.00	98.00	44.00
Total actual harvest content	1.39	181.26	27.83	139.39	119.25

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

PVE-23

Field name: PVE-23

01/01/2018: Almond, in shell

Crop: Almond, in shell      Acres planted: 77      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 (%)
10/01/2023	108.00 <i>ton</i>	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	1.00	130.00	20.00	98.00	44.00
Total actual harvest content	1.40	182.28	27.98	140.18	119.92

PVE-24

Field name: PVE-24

01/02/2018: Almond, in shell

Crop: Almond, in shell      Acres planted: 77      Plant date: 01/02/2018

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	108.00 <i>ton</i>	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	1.00	130.00	20.00	98.00	44.00
Total actual harvest content	1.40	182.28	27.98	140.18	119.92

PVE-25

Field name: PVE-25

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

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

**PVE-25**

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

Crop: Wheat, silage, soft dough      Acres planted: 76      Plant date: 11/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,277.00 ton	Dry-weight		50.6	9,600.00	1,660.00	9,610.00		7.69

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.80	159.37	27.56	159.54	1,276.62

07/02/2023: Corn, silage

Crop: Corn, silage      Acres planted: 76      Plant date: 07/02/2023

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	2,029.00 ton	Dry-weight		64.4	10,300.00	1,730.00	10,200.00		4.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	26.70	195.79	32.88	193.89	874.39

**PVE-26**Field name: PVE-26

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

Crop: Wheat, silage, soft dough      Acres planted: 73      Plant date: 11/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	1,262.00 ton	Dry-weight		57.6	10,200.00	1,490.00	10,800.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	17.29	149.53	21.84	158.33	1,480.65

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**PVE-26**

06/21/2023: Corn, silage

Crop: Corn, silage      Acres planted: 73      Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/14/2023	1,949.00 ton	Dry-weight		61.0	11,200.00	1,075.00	7,310.00		5.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	26.70	233.24	22.39	152.23	1,187.02

**PVE-27**

Field name: PVE-27

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

Crop: Wheat, silage, soft dough      Acres planted: 89      Plant date: 11/25/2022

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	1,495.00 ton	Dry-weight		48.4	10,400.00	1,770.00	9,320.00		8.63

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.80	180.29	30.68	161.56	1,496.03

07/11/2023: Corn, silage

Crop: Corn, silage      Acres planted: 89      Plant date: 07/11/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/03/2023	2,376.00 ton	Dry-weight		50.6	12,000.00	2,740.00	20,200.00		5.86

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	26.70	316.52	72.27	532.80	1,545.65

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**PVE-28**Field name: PVE-28

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

Crop: Wheat, silage, soft dough Acres planted: 85 Plant date: 11/27/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,458.00 ton	Dry-weight		57.6	10,200.00	1,490.00	10,800.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	17.15	148.37	21.67	157.09	1,469.12

07/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 85 Plant date: 07/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/24/2023	2,270.00 ton	Dry-weight		59.8	10,500.00	1,590.00	12,100.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	26.71	225.45	34.14	259.81	966.22

**PVE-29**Field name: PVE-29

01/10/2019: Almond, in shell

Crop: Almond, in shell Acres planted: 79 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 (%)
09/15/2023	111.00 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	1.00	130.00	20.00	98.00	44.00
Total actual harvest content	1.41	182.60	28.03	140.42	120.13

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

PVE-30

Field name: PVE-30

01/03/2018: Almond, in shell

Crop: Almond, in shell

Acres planted: 76 Plant date: 01/03/2018

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	106.40 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	1.00	130.00	20.00	98.00	44.00
Total actual harvest content	1.40	181.94	27.93	139.92	119.70

PVE-31

Field name: PVE-31

01/04/2018: Almond, in shell

Crop: Almond, in shell

Acres planted: 78 Plant date: 01/04/2018

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	109.20 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	1.00	130.00	20.00	98.00	44.00
Total actual harvest content	1.40	181.94	27.93	139.92	119.70

PVE-32

Field name: PVE-32

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

**PVE-32**

11/02/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 78      Plant date: 11/02/2022

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	1,310.00 <i>ton</i>	Dry-weight		55.0	10,500.00	1,600.00	11,200.00		9.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.79	158.71	24.18	169.29	1,405.73

07/12/2023: Corn, silage

Crop: Corn, silage      Acres planted: 78      Plant date: 07/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/04/2023	2,083.00 <i>ton</i>	Dry-weight		62.0	13,300.00	2,510.00	16,900.00		5.76

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	26.71	269.94	50.94	343.00	1,169.04

**PVE-33**Field name: PVE-33

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

Crop: Wheat, silage, soft dough      Acres planted: 80      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 (%)
05/23/2023	1,376.00 <i>ton</i>	Dry-weight		56.6	9,840.00	1,660.00	11,000.00		9.48

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	17.20	146.91	24.78	164.23	1,415.33

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**PVE-33**

07/02/2023: Corn, silage

Crop: Corn, silage      Acres planted: 80      Plant date: 07/02/2023

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	2,136.00 <i>ton</i>	Dry-weight		62.4	9,600.00	1,530.00	9,950.00		3.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	26.70	192.75	30.72	199.78	722.82

**PVE-34**Field name: PVE-34

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

Crop: Wheat, silage, soft dough      Acres planted: 79      Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,355.00 <i>ton</i>	Dry-weight		56.6	9,830.00	1,460.00	10,500.00		9.72

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	17.15	146.35	21.74	156.32	1,447.10

07/12/2023: Corn, silage

Crop: Corn, silage      Acres planted: 79      Plant date: 07/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/04/2023	2,109.00 <i>ton</i>	Dry-weight		67.6	12,400.00	2,550.00	19,000.00		6.32

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	26.70	214.51	44.11	328.68	1,093.31

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

PVE-35

Field name: PVE-35

11/07/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 72      Plant date: 11/07/2022

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	1,210.00 <i>ton</i>	Dry-weight		51.8	10,300.00	1,550.00	9,640.00		9.15

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	192.00	27.20	132.80	960.00
Total actual harvest content	16.81	166.87	25.11	156.17	1,482.35

07/13/2023: Corn, silage

Crop: Corn, silage      Acres planted: 72      Plant date: 07/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/05/2023	1,922.00 <i>ton</i>	Dry-weight		64.8	12,900.00	3,760.00	20,100.00		5.11

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	26.69	242.43	70.66	377.74	960.32

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

PV-1 A - 11/10/2022: Wheat, silage, soft dough

Field name: PV-1 A

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/05/2022	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	216.97	8.99	455.64	2,107.71	1,560,000.00 gal
1	Ground water	5.93	0.00	0.00	619.48	4,512,000.00 gal
Application event totals		222.90	8.99	455.64	2,727.18	

PV-1 A - 05/25/2023: Tomato

Field name: PV-1 A

Crop: Tomato

Plant date: 05/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/16/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Jan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
1	Ground water	22.69	0.00	0.00	2,372.46	17,280,000.00 gal
2	Ground water	101.97	0.00	0.00	2,757.00	17,280,000.00 gal
Application event totals		174.67	0.00	0.00	5,129.46	

PV-1 B - 11/11/2022: Wheat, silage, soft dough

Field name: PV-1 B

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
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PV-1 B - 11/11/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
12/07/2022	Subsurface (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	218.84	9.07	459.57	2,125.90
2	Ground water	27.28	0.00	0.00	737.44
Application event totals		246.12	9.07	459.57	2,863.34

PV-1 B - 05/25/2023: Tomato

Field name: PV-1 B

Crop: Tomato

Plant date: 05/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/18/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	50.00	0.00	0.00	0.00
1	Ground water	21.70	0.00	0.00	2,268.30
2	Ground water	97.49	0.00	0.00	2,635.96
Application event totals		169.19	0.00	0.00	4,904.26

PV-10 - 11/20/2019: Alfalfa, hay

Field name: PV-10

Crop: Alfalfa, hay

Plant date: 11/20/2019

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)
1	Ground water	6.45	0.00	0.00	674.67
Application event totals		6.45	0.00	0.00	674.67

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PV-10 - 11/20/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
2	Ground water	29.56	0.00	0.00	799.10	11,448,000.00 gal
Application event totals		29.56	0.00	0.00	799.10	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
10	Ground water	1.53	0.00	0.00	364.51	10,724,400.00 gal
Application event totals		1.53	0.00	0.00	364.51	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
10	Ground water	1.51	0.00	0.00	359.73	10,584,000.00 gal
Application event totals		1.51	0.00	0.00	359.73	

PV-10 - 07/15/2023: Sudangrass, silage

Field name: PV-10

Crop: Sudangrass, silage Plant date: 07/15/2023

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
Lagoon Water Application	Process wastewater	150.16	31.07	165.09	1,090.44	3,504,000.00 gal
10	Ground water	1.13	0.00	0.00	270.53	7,959,600.00 gal
Application event totals		151.30	31.07	165.09	1,360.98	
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
10	Ground water	1.51	0.00	0.00	359.73	10,584,000.00 gal
Application event totals		1.51	0.00	0.00	359.73	

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PV-10 - 07/15/2023: Sudangrass, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
1	Ground water	6.10	0.00	0.00	637.69
Application event totals		6.10	0.00	0.00	637.69
					10,616,400.00 gal

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

Field name: PV-11

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
12/09/2022	Subsurface (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	164.94	6.83	346.37	1,602.24
2	Ground water	19.24	0.00	0.00	520.32
Application event totals		184.18	6.83	346.37	2,122.56
					480,000.00 gal
					1,320,000.00 gal

PV-11 - 05/25/2023: Tomato

Field name: PV-11

Crop: Tomato Plant date: 05/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/23/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	50.00	0.00	0.00	0.00
2	Ground water	80.83	0.00	0.00	2,185.33
1	Ground water	17.99	0.00	0.00	1,880.52
Application event totals		148.82	0.00	0.00	4,065.85
					5,544,000.00 gal
					5,544,000.00 gal

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PV-13 - 11/10/2022: Wheat, silage, soft dough

Field name: PV-13

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/10/2022	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	214.42	8.88	450.28	2,082.91	624,000.00 gal
2	Ground water	188.95	0.00	0.00	5,108.55	12,960,000.00 gal
Application event totals		403.36	8.88	450.28	7,191.47	

PV-13 - 05/23/2023: Tomato

Field name: PV-13

Crop: Tomato

Plant date: 05/23/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/23/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
1	Ground water	21.03	0.00	0.00	2,198.01	6,480,000.00 gal
10	Ground water	5.22	0.00	0.00	1,243.74	6,480,000.00 gal
Application event totals		76.24	0.00	0.00	3,441.75	

PV-2 - 11/24/2022: Wheat, silage, soft dough

Field name: PV-2

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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PV-2 - 11/24/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/02/2022	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	106.95	4.43	224.60	1,038.98	1,776,000.00 gal
1	Ground water	4.48	0.00	0.00	468.68	7,884,000.00 gal
Application event totals		111.44	4.43	224.60	1,507.66	
01/16/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	122.84	10.92	46.75	574.49	1,776,000.00 gal
2	Ground water	20.14	0.00	0.00	544.65	7,884,000.00 gal
Application event totals		142.99	10.92	46.75	1,119.14	
04/16/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
1	Ground water	6.02	0.00	0.00	629.19	10,584,000.00 gal
Application event totals		6.02	0.00	0.00	629.19	

PV-2 - 05/22/2023: Tomato

Field name:	PV-2	Plant date:	05/22/2023	
Crop:	Tomato			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/29/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	50.00	0.00	0.00
1	Ground water	22.11	0.00	0.00
2	Ground water	99.34	0.00	0.00
Application event totals		171.45	0.00	0.00
				4,997.25

PV-3 - 11/24/2022: Wheat, silage, soft dough

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PV-3 - 11/24/2022: Wheat, silage, soft dough

Field name: PV-3

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/06/2022	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	108.72	4.50	228.32	1,056.17	1,824,000.00 gal
3B	Ground water	17.13	0.00	0.00	488.85	10,476,000.00 gal
Application event totals		125.85	4.50	228.32	1,545.02	
02/24/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	121.59	10.81	46.28	568.63	1,776,000.00 gal
3B	Ground water	17.60	0.00	0.00	502.46	10,767,600.00 gal
Application event totals		139.19	10.81	46.28	1,071.09	
04/12/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
6	Ground water	5.68	0.00	0.00	468.80	10,368,000.00 gal
Application event totals		5.68	0.00	0.00	468.80	

PV-3 - 05/20/2023: Tomato

Field name: PV-3

Crop: Tomato

Plant date: 05/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/28/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
3B	Ground water	63.57	0.00	0.00	1,814.29	38,880,000.00 gal
6	Ground water	21.29	0.00	0.00	1,758.01	38,880,000.00 gal
Application event totals		134.85	0.00	0.00	3,572.30	

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PV-4 - 11/25/2022: Wheat, silage, soft dough

Field name: PV-4

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/10/2022	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	106.95	4.43	224.60	1,038.98	1,776,000.00 gal
6	Ground water	5.80	0.00	0.00	478.57	10,476,000.00 gal
Application event totals		112.75	4.43	224.60	1,517.55	
03/12/2023	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
6	Ground water	5.80	0.00	0.00	478.57	10,476,000.00 gal
Application event totals		5.80	0.00	0.00	478.57	
04/16/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	91.13	3.14	175.42	749.25	1,728,000.00 gal
6	Ground water	5.84	0.00	0.00	482.02	10,551,600.00 gal
Application event totals		96.97	3.14	175.42	1,231.28	

PV-4 - 05/19/2023: Tomato

Field name: PV-4

Crop: Tomato

Plant date: 05/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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PV-4 - 05/19/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/26/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	50.00	0.00	0.00	0.00
6	Ground water	21.51	0.00	0.00	1,776.13
3B	Ground water	64.22	0.00	0.00	1,833.00
Application event totals		135.73	0.00	0.00	3,609.13

PV-5 - 12/07/2022: Wheat, silage, soft dough

Field name: PV-5

Crop: Wheat, silage, soft dough Plant date: 12/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/14/2022	Subsurface (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	73.02	3.03	153.34	709.33
3B	Ground water	17.30	0.00	0.00	493.89
Application event totals		90.32	3.03	153.34	1,203.22
12/28/2022	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
6	Ground water	5.75	0.00	0.00	475.08
Application event totals		5.75	0.00	0.00	475.08
04/20/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon Water Application	Process wastewater	61.39	2.11	118.17	504.71
10	Ground water	1.42	0.00	0.00	337.71
Application event totals		62.80	2.11	118.17	842.42

PV-5 - 05/16/2023: Tomato

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PV-5 - 05/16/2023: Tomato

Field name: PV-5

Crop: Tomato

Plant date: 05/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/23/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	50.00	0.00	0.00	0.00
3B	Ground water	67.05	0.00	0.00	1,913.83
6	Ground water	22.46	0.00	0.00	1,854.46
Application event totals		139.51	0.00	0.00	3,768.28

PV-7 - 11/20/2022: Wheat, silage, soft dough

Field name: PV-7

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
12/05/2022	Subsurface (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	107.38	4.45	225.51	1,043.16
6	Ground water	5.70	0.00	0.00	470.65
Application event totals		113.08	4.45	225.51	1,513.81
04/13/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon Water Application	Process wastewater	95.34	3.28	183.53	783.90
3B	Ground water	16.69	0.00	0.00	476.38
Application event totals		112.03	3.28	183.53	1,260.28

PV-7 - 05/14/2023: Tomato

Field name: PV-7

Crop: Tomato

Plant date: 05/14/2023

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PV-7 - 05/14/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/16/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	50.00	0.00	0.00	0.00
2	Ground water	106.31	0.00	0.00	2,874.32
10	Ground water	5.87	0.00	0.00	1,399.57
Application event totals		162.18	0.00	0.00	4,273.89

PV-8 - 11/11/2022: Wheat, silage, soft dough

Field name: PV-8

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
10/28/2022	Subsurface (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	107.29	4.44	225.32	1,042.27
10	Ground water	1.35	0.00	0.00	322.83
Application event totals		108.65	4.44	225.32	1,365.10
03/20/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon Water Application	Process wastewater	121.59	10.81	46.28	568.63
1	Ground water	5.57	0.00	0.00	581.82
Application event totals		127.16	10.81	46.28	1,150.45

PV-8 - 05/12/2023: Tomato

Field name: PV-8

Crop: Tomato Plant date: 05/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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PV-8 - 05/12/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/13/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
1	Ground water	23.34	0.00	0.00	2,440.24	41,472,000.00 gal
10	Ground water	5.79	0.00	0.00	1,380.80	41,472,000.00 gal
Application event totals		79.13	0.00	0.00	3,821.05	

PV-9 - 11/22/2019: Alfalfa, hay

Field name: PV-9

Crop: Alfalfa, hay

Plant date: 11/22/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
10	Ground water	1.49	0.00	0.00	354.88	9,571,200.00 gal
Application event totals		1.49	0.00	0.00	354.88	
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
8	Ground water	33.93	0.00	0.00	791.66	9,696,000.00 gal
Application event totals		33.93	0.00	0.00	791.66	
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
10	Ground water	1.54	0.00	0.00	366.63	9,888,000.00 gal
Application event totals		1.54	0.00	0.00	366.63	

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PV-9 - 11/22/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
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)
8	Ground water	35.27	0.00	0.00	823.01
Application event totals		35.27	0.00	0.00	823.01
					10,080,000.00 gal

PV-9 - 07/14/2023: Sudangrass, silage

Field name: PV-9

Crop: Sudangrass, silage

Plant date: 07/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
8	Ground water	34.70	0.00	0.00	809.69
Application event totals		34.70	0.00	0.00	809.69
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)
Lagoon Water Application	Process wastewater	150.35	31.11	165.29	1,091.80
10	Ground water	1.58	0.00	0.00	377.31
Application event totals		151.93	31.11	165.29	1,469.11
09/07/2023	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)
8	Ground water	35.27	0.00	0.00	823.01
Application event totals		35.27	0.00	0.00	823.01
					10,080,000.00 gal

PVE-21 - 11/22/2022: Wheat, silage, soft dough

Field name: PVE-21

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

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PVE-21 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/03/2022	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	277.24	92.34	460.52	3,897.60	656.00 ton
Application event totals		277.24	92.34	460.52	3,897.60	
11/06/2022	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
22	Ground water	4.56	0.00	0.00	570.55	9,600,000.00 gal
Application event totals		4.56	0.00	0.00	570.55	
04/12/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
22	Ground water	4.43	0.00	0.00	554.15	9,324,000.00 gal
Application event totals		4.43	0.00	0.00	554.15	

PVE-21 - 06/20/2023: Corn, silage

Field name: PVE-21

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/15/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
22	Ground water	17.11	0.00	0.00	2,139.58	36,000,000.00 gal
24	Ground water	18.72	0.00	0.00	1,524.08	36,000,000.00 gal
Application event totals		115.83	0.00	0.00	3,663.66	

PVE-22 - 01/12/2019: Almond, in shell

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PVE-22 - 01/12/2019: Almond, in shell

Field name: PVE-22Crop: Almond, in shellPlant date: 01/12/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/15/2023	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	85.00	0.00	0.00	0.00
22	Ground water	12.80	0.00	0.00	1,600.55
29A	Ground water	53.00	0.00	0.00	4,823.59
Application event totals		150.80	0.00	0.00	6,424.14

PVE-23 - 01/01/2018: Almond, in shell

Field name: PVE-23Crop: Almond, in shellPlant date: 01/01/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/15/2023	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	85.00	0.00	0.00	0.00
29A	Ground water	52.32	0.00	0.00	4,760.94
22	Ground water	12.63	0.00	0.00	1,579.77
Application event totals		149.95	0.00	0.00	6,340.71

PVE-24 - 01/02/2018: Almond, in shell

Field name: PVE-24Crop: Almond, in shellPlant date: 01/02/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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PVE-24 - 01/02/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/15/2023	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	85.00	0.00	0.00	0.00
31	Ground water	15.82	0.00	0.00	1,890.85
29A	Ground water	52.32	0.00	0.00	4,760.94
Application event totals		153.14	0.00	0.00	6,651.79

PVE-25 - 11/23/2022: Wheat, silage, soft dough

Field name: PVE-25

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/03/2022	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	207.93	69.25	345.39	2,923.20
Application event totals		207.93	69.25	345.39	2,923.20
11/08/2022	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
24	Ground water	4.98	0.00	0.00	405.62
Application event totals		4.98	0.00	0.00	405.62
04/20/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
26A	Ground water	3.67	0.00	0.00	314.44
Application event totals		3.67	0.00	0.00	314.44

PVE-25 - 07/02/2023: Corn, silage

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PVE-25 - 07/02/2023: Corn, silage

Field name: PVE-25

Crop: Corn, silage

Plant date: 07/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/15/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	80.00	0.00	0.00	0.00
24	Ground water	18.58	0.00	0.00	1,512.85
26A	Ground water	13.31	0.00	0.00	1,141.91
Application event totals		111.89	0.00	0.00	2,654.76

PVE-26 - 11/23/2022: Wheat, silage, soft dough

Field name: PVE-26

Crop: Wheat, silage, soft dough

Plant date: 11/23/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/03/2022	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	207.93	69.25	345.39	2,923.20
Application event totals		207.93	69.25	345.39	2,923.20
11/11/2022	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
26A	Ground water	3.61	0.00	0.00	310.13
Application event totals		3.61	0.00	0.00	310.13
04/20/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
26A	Ground water	3.63	0.00	0.00	311.42
Application event totals		3.63	0.00	0.00	311.42

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PVE-26 - 06/21/2023: Corn, silage

Field name: PVE-26

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/15/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	80.00	0.00	0.00	0.00
26A	Ground water	8.84	0.00	0.00	758.10
27A	Ground water	34.09	0.00	0.00	4,254.06
Application event totals		122.93	0.00	0.00	5,012.16

PVE-27 - 11/25/2022: Wheat, silage, soft dough

Field name: PVE-27

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/04/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure Application	Corral solids	207.93	69.25	345.39	2,923.20
Application event totals		207.93	69.25	345.39	2,923.20
11/08/2022	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
26A	Ground water	3.46	0.00	0.00	296.77
Application event totals		3.46	0.00	0.00	296.77
04/20/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
27B	Ground water	6.58	0.00	0.00	688.15
Application event totals		6.58	0.00	0.00	688.15

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PVE-27 - 07/11/2023: Corn, silage

Field name: PVE-27

Crop: Corn, silage

Plant date: 07/11/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/15/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	80.00	0.00	0.00	0.00
27	Ground water	66.35	0.00	0.00	4,104.88
Application event totals		146.35	0.00	0.00	4,104.88

PVE-28 - 11/27/2022: Wheat, silage, soft dough

Field name: PVE-28

Crop: Wheat, silage, soft dough

Plant date: 11/27/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/03/2022	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	207.93	69.25	345.39	2,923.20
Application event totals		207.93	69.25	345.39	2,923.20
11/09/2022	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
29A	Ground water	9.23	0.00	0.00	839.76
Application event totals		9.23	0.00	0.00	839.76
04/15/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
22	Ground water	4.36	0.00	0.00	545.60
Application event totals		4.36	0.00	0.00	545.60

PVE-28 - 07/01/2023: Corn, silage

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PVE-28 - 07/01/2023: Corn, silage

Field name: PVE-28

Crop: Corn, silage

Plant date: 07/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/15/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
29A	Ground water	68.35	0.00	0.00	6,220.46	72,000,000.00 gal
Application event totals		148.35	0.00	0.00	6,220.46	

PVE-29 - 01/10/2019: Almond, in shell

Field name: PVE-29

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)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	85.00	0.00	0.00	0.00	
29A	Ground water	52.95	0.00	0.00	4,818.89	51,840,000.00 gal
22	Ground water	12.79	0.00	0.00	1,598.99	25,920,000.00 gal
Application event totals		150.74	0.00	0.00	6,417.88	

PVE-30 - 01/03/2018: Almond, in shell

Field name: PVE-30

Crop: Almond, in shell

Plant date: 01/03/2018

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

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PVE-30 - 01/03/2018: 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)
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	85.00	0.00	0.00	0.00
31	Ground water	15.42	0.00	0.00	1,842.05
29A	Ground water	50.97	0.00	0.00	4,638.06
Application event totals		151.38	0.00	0.00	6,480.11

PVE-31 - 01/04/2018: Almond, in shell

Field name: PVE-31

Crop: Almond, in shell

Plant date: 01/04/2018

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	85.00	0.00	0.00	0.00
31	Ground water	15.62	0.00	0.00	1,866.61
29A	Ground water	51.65	0.00	0.00	4,699.90
Application event totals		152.27	0.00	0.00	6,566.51

PVE-32 - 11/02/2022: Wheat, silage, soft dough

Field name: PVE-32

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/04/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure Application	Corral solids	207.93	69.25	345.39	2,923.20
Application event totals		207.93	69.25	345.39	2,923.20

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PVE-32 - 11/02/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/18/2023	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
26A	Ground water	3.34	0.00	0.00	286.22	8,520,000.00 gal
Application event totals		3.34	0.00	0.00	286.22	
11/12/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
31	Ground water	5.46	0.00	0.00	652.42	8,724,000.00 gal
Application event totals		5.46	0.00	0.00	652.42	

PVE-32 - 07/12/2023: Corn, silage

Field name: PVE-32

Crop: Corn, silage

Plant date: 07/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/15/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
32	Ground water	60.59	0.00	0.00	5,116.69	66,240,000.00 gal
Application event totals		140.59	0.00	0.00	5,116.69	

PVE-33 - 11/04/2022: Wheat, silage, soft dough

Field name: PVE-33

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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PVE-33 - 11/04/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/04/2022	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	190.60	63.48	316.61	2,679.60	440.00 ton
Application event totals		190.60	63.48	316.61	2,679.60	
11/08/2022	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
35A	Ground water	2.15	0.00	0.00	351.07	8,880,000.00 gal
Application event totals		2.15	0.00	0.00	351.07	
04/20/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
27B	Ground water	6.24	0.00	0.00	652.49	8,724,000.00 gal
Application event totals		6.24	0.00	0.00	652.49	

PVE-33 - 07/02/2023: Corn, silage

Field name:	PVE-33	Plant date:	07/02/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/15/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
32	Ground water	61.65	0.00	0.00	5,205.68	69,120,000.00 gal
Application event totals		141.65	0.00	0.00	5,205.68	

PVE-34 - 11/05/2022: Wheat, silage, soft dough

Field name:	PVE-34	Plant date:	11/05/2022
Crop:	Wheat, silage, soft dough		

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PVE-34 - 11/05/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/05/2022	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
Manure Application	Corral solids	190.82	63.55	316.97	2,682.68	435.00 ton
Application event totals		190.82	63.55	316.97	2,682.68	
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
35A	Ground water	2.17	0.00	0.00	354.07	8,844,000.00 gal
Application event totals		2.17	0.00	0.00	354.07	
04/18/2023	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
35A	Ground water	2.24	0.00	0.00	365.12	9,120,000.00 gal
Application event totals		2.24	0.00	0.00	365.12	

PVE-34 - 07/12/2023: Corn, silage

Field name: PVE-34

Crop: Corn, silage

Plant date: 07/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/15/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
32	Ground water	31.21	0.00	0.00	2,635.79	34,560,000.00 gal
35A	Ground water	8.47	0.00	0.00	1,383.61	34,560,000.00 gal
Application event totals		119.68	0.00	0.00	4,019.39	

PVE-35 - 11/07/2022: Wheat, silage, soft dough

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

PVE-35 - 11/07/2022: Wheat, silage, soft dough

Field name: PVE-35

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Application	Corral solids	207.93	69.25	345.39	2,923.20	432.00 ton
Application event totals		207.93	69.25	345.39	2,923.20	
11/08/2022	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
35A	Ground water	2.26	0.00	0.00	368.99	8,400,000.00 gal
Application event totals		2.26	0.00	0.00	368.99	
04/21/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
35A	Ground water	2.30	0.00	0.00	375.84	8,556,000.00 gal
Application event totals		2.30	0.00	0.00	375.84	

PVE-35 - 07/13/2023: Corn, silage

Field name: PVE-35

Crop: Corn, silage

Plant date: 07/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/15/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
35A	Ground water	5.68	0.00	0.00	927.74	21,120,000.00 gal
32	Ground water	41.86	0.00	0.00	3,534.72	42,240,000.00 gal
Application event totals		127.54	0.00	0.00	4,462.46	

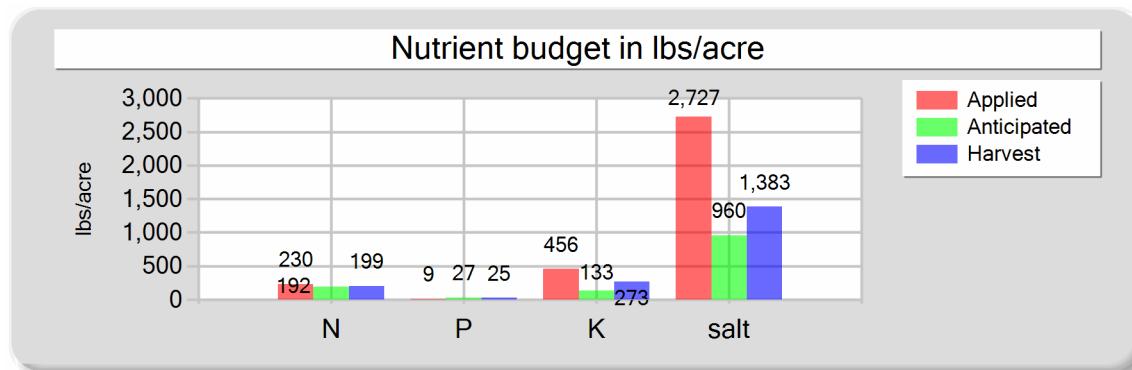
**Annual Report - General Order No. R5-2007-0035**

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

**B. NUTRIENT BUDGET**

PV-1 A - 11/10/2022: Wheat, silage, soft dough

Field name: PV-1 A      Crop: Wheat, silage, soft dough      Plant date: 11/10/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	216.97	8.99	455.64	2,107.71
Fresh water	5.93	0.00	0.00	619.48
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>229.90</b>	<b>8.99</b>	<b>455.64</b>	<b>2,727.18</b>
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	199.37	24.75	272.50	1,382.55
Nutrient balance	30.53	-15.76	183.13	1,344.63
Applied to removed ratio	1.15	0.36	1.67	1.97

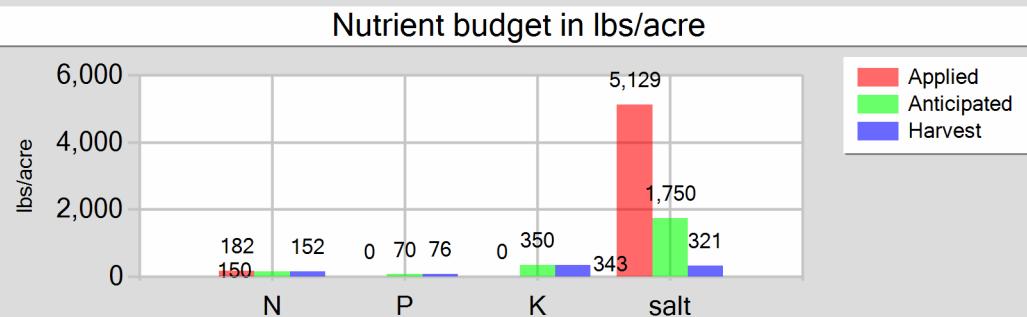
<b>Fresh water applied</b>
4,512,000.00 gallons
166.16 acre-inches
3.96 inches/acre
<b>Process wastewater applied</b>
1,560,000.00 gallons
57.45 acre-inches
1.37 inches/acre
<b>Total harvests for the crop</b>
1 harvests

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

PV-1 A - 05/25/2023: Tomato

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



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	50.00	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	124.67	0.00	0.00	5,129.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	181.67	0.00	0.00	5,129.46
Anticipated crop nutrient removal	150.00	70.00	350.00	1,750.00
Actual crop nutrient removal	152.08	76.40	342.72	321.30
Nutrient balance	29.58	-76.40	-342.72	4,808.16
Applied to removed ratio	1.19	0.00	0.00	15.96

**Fresh water applied**  
34,560,000.00 gallons  
1,272.73 acre-inches  
30.30 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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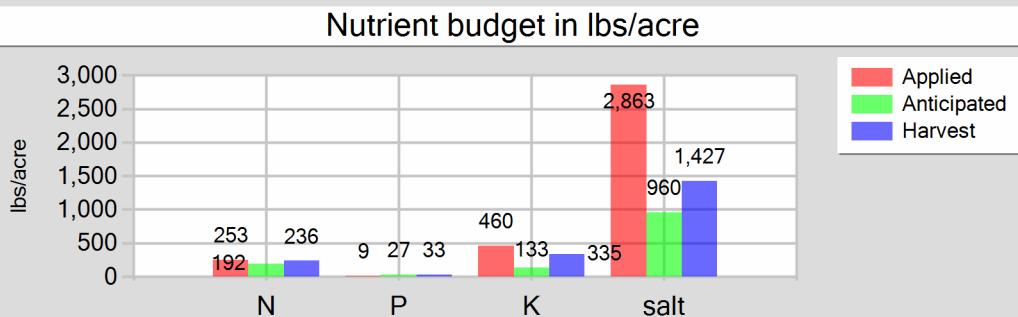
Reporting period 01/01/2023 to 12/31/2023.

PV-1 B - 11/11/2022: Wheat, silage, soft dough

Field name: PV-1 B

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022



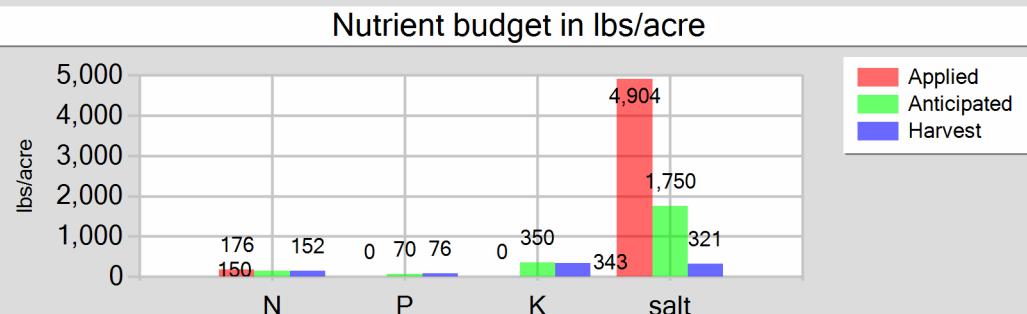
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	4,512,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	166.16 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.05 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	218.84	9.07	459.57	2,125.90	1,536,000.00 gallons
Fresh water	27.28	0.00	0.00	737.44	56.57 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.38 inches/acre
Total nutrients applied	253.12	9.07	459.57	2,863.34	
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00	
Actual crop nutrient removal	236.30	33.00	335.40	1,426.53	
Nutrient balance	16.81	-23.93	124.17	1,436.81	
Applied to removed ratio	1.07	0.27	1.37	2.01	
Total harvests for the crop					1 harvests

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

PV-1 B - 05/25/2023: Tomato

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



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	50.00	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	119.19	0.00	0.00	4,904.26
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	176.19	0.00	0.00	4,904.26
Anticipated crop nutrient removal	150.00	70.00	350.00	1,750.00
Actual crop nutrient removal	152.08	76.40	342.72	321.30
Nutrient balance	24.11	-76.40	-342.72	4,582.96
Applied to removed ratio	1.16	0.00	0.00	15.26

**Fresh water applied**  
32,256,000.00 gallons  
1,187.88 acre-inches  
28.97 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.

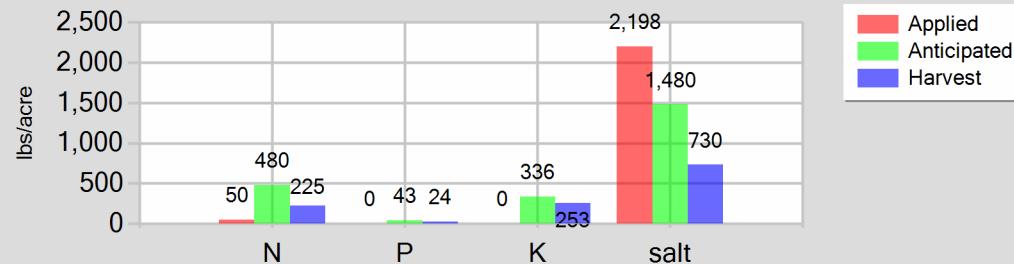
PV-10 - 11/20/2019: Alfalfa, hay

Field name: PV-10

Crop: Alfalfa, hay

Plant date: 11/20/2019

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	39.05	0.00	0.00	2,198.01
Atmospheric deposition	11.20	0.00	0.00	0.00
Total nutrients applied	50.25	0.00	0.00	2,198.01
Anticipated crop nutrient removal	480.00	43.20	336.00	1,480.00
Actual crop nutrient removal	224.70	24.05	252.71	730.39
Nutrient balance	-174.45	-24.05	-252.71	1,467.61
Applied to removed ratio	0.22	0.00	0.00	3.01

**Fresh water applied**

43,988,400.00 gallons  
1,619.94 acre-inches  
16.87 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

4 harvests

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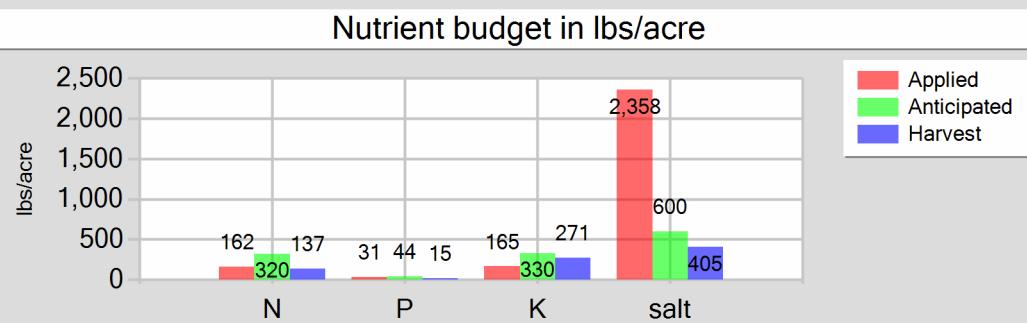
Reporting period 01/01/2023 to 12/31/2023.

PV-10 - 07/15/2023: Sudangrass, silage

Field name: PV-10

Crop: Sudangrass, silage

Plant date: 07/15/2023



	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	150.16	31.07	165.09	1,090.44
Fresh water	8.74	0.00	0.00	1,267.96
Atmospheric deposition	2.80	0.00	0.00	0.00
Total nutrients applied	161.71	31.07	165.09	2,358.40
Anticipated crop nutrient removal	320.00	44.00	330.00	600.00
Actual crop nutrient removal	137.41	15.21	270.64	404.57
Nutrient balance	24.29	15.86	-105.56	1,953.83
Applied to removed ratio	1.18	2.04	0.61	5.83

**Fresh water applied**  
29,160,000.00 gallons  
1,073.86 acre-inches  
11.19 inches/acre

**Process wastewater applied**  
3,504,000.00 gallons  
129.04 acre-inches  
1.34 inches/acre

**Total harvests for the crop**  
1 harvests

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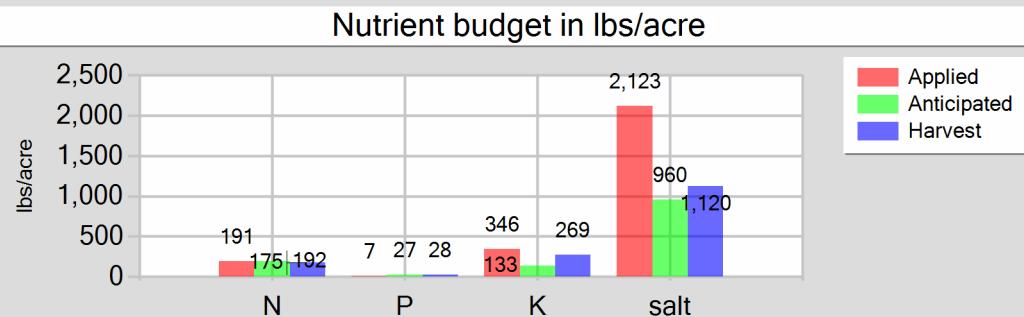
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: PV-11

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	0.00	0.00	0.00	0.00
Process wastewater	164.94	6.83	346.37	1,602.24
Fresh water	19.24	0.00	0.00	520.32
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	191.18	6.83	346.37	2,122.56
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	174.74	28.18	269.22	1,120.37
Nutrient balance	16.44	-21.34	77.14	1,002.19
Applied to removed ratio	1.09	0.24	1.29	1.89

**Fresh water applied**

1,320,000.00 gallons
48.61 acre-inches
2.86 inches/acre

**Process wastewater applied**

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

**Total harvests for the crop**

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

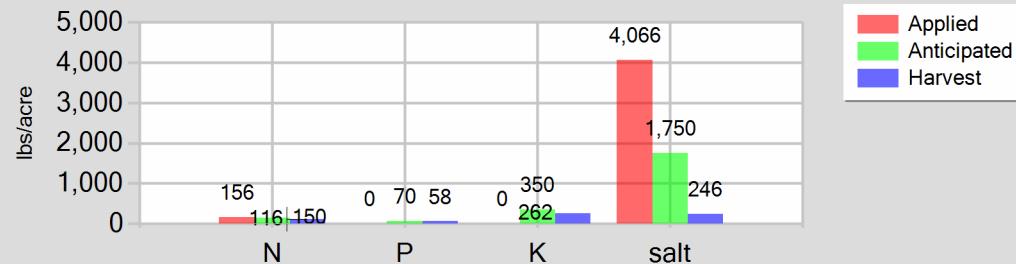
PV-11 - 05/25/2023: Tomato

Field name: PV-11

Crop: Tomato

Plant date: 05/25/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	50.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	98.82	0.00	0.00	4,065.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	155.82	0.00	0.00	4,065.85
Anticipated crop nutrient removal	150.00	70.00	350.00	1,750.00
Actual crop nutrient removal	116.30	58.42	262.08	245.70
Nutrient balance	39.52	-58.42	-262.08	3,820.15
Applied to removed ratio	1.34	0.00	0.00	16.55

**Fresh water applied**

11,088,000.00 gallons  
408.33 acre-inches  
24.02 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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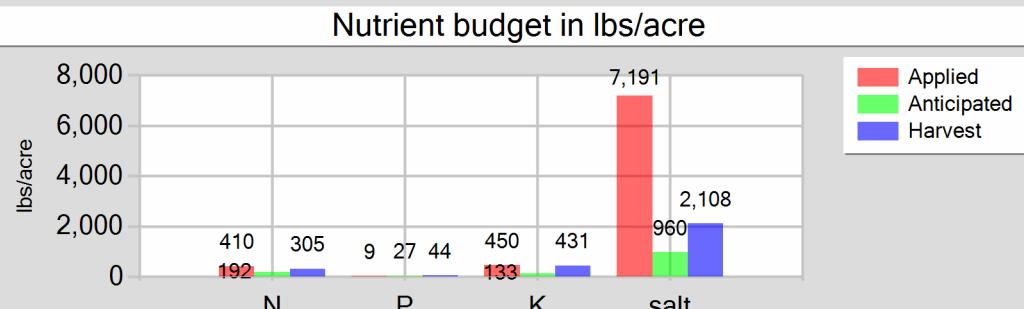
Reporting period 01/01/2023 to 12/31/2023.

PV-13 - 11/10/2022: Wheat, silage, soft dough

Field name: PV-13

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	214.42	8.88	450.28	2,082.91
Fresh water	188.95	0.00	0.00	5,108.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	410.36	8.88	450.28	7,191.47
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	304.90	43.63	431.40	2,108.32
Nutrient balance	105.47	-34.74	18.88	5,083.14
Applied to removed ratio	1.35	0.20	1.04	3.41

**Fresh water applied**

12,960,000.00 gallons  
477.27 acre-inches  
28.07 inches/acre

**Process wastewater applied**

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

**Total harvests for the crop**

1 harvests

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

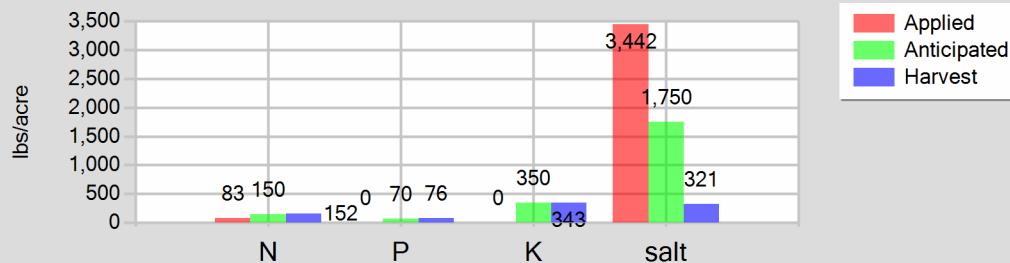
PV-13 - 05/23/2023: Tomato

Field name: PV-13

Crop: Tomato

Plant date: 05/23/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	50.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	26.24	0.00	0.00	3,441.75
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	83.24	0.00	0.00	3,441.75
Anticipated crop nutrient removal	150.00	70.00	350.00	1,750.00
Actual crop nutrient removal	152.08	76.40	342.72	321.30
Nutrient balance	-68.84	-76.40	-342.72	3,120.45
Applied to removed ratio	0.55	0.00	0.00	10.71

**Fresh water applied**

12,960,000.00 *gallons*  
477.27 *acre-inches*  
28.07 *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.

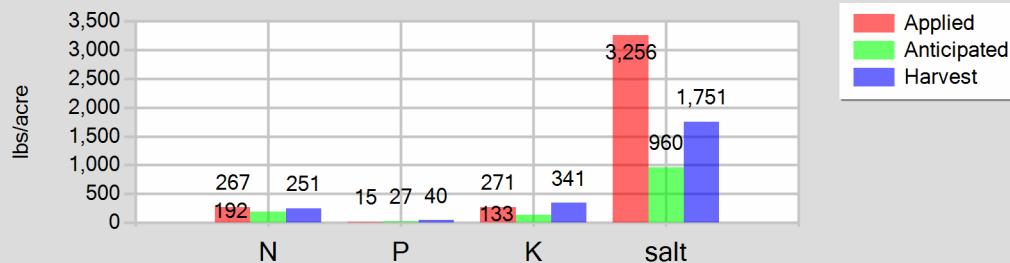
PV-2 - 11/24/2022: Wheat, silage, soft dough

Field name: PV-2

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

**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	229.80	15.36	271.36	1,613.47
Fresh water	30.65	0.00	0.00	1,642.52
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	267.44	15.36	271.36	3,256.00
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	250.64	40.31	341.24	1,751.49
Nutrient balance	16.80	-24.96	-69.88	1,504.51
Applied to removed ratio	1.07	0.38	0.80	1.86

**Fresh water applied**

26,352,000.00 gallons  
970.45 acre-inches  
10.00 inches/acre

**Process wastewater applied**

3,552,000.00 gallons  
130.81 acre-inches  
1.35 inches/acre

**Total harvests for the crop**

1 harvests

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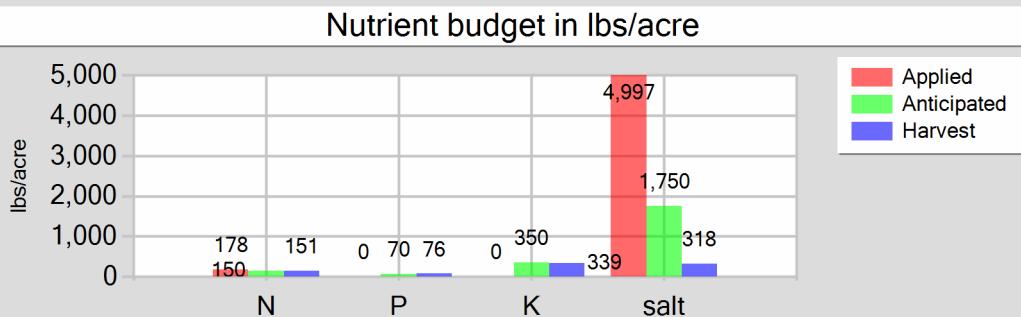
Reporting period 01/01/2023 to 12/31/2023.

PV-2 - 05/22/2023: Tomato

Field name: PV-2

Crop: Tomato

Plant date: 05/22/2023



	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	50.00	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	121.45	0.00	0.00	4,997.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	178.45	0.00	0.00	4,997.25
Anticipated crop nutrient removal	150.00	70.00	350.00	1,750.00
Actual crop nutrient removal	150.51	75.61	339.19	317.99
Nutrient balance	27.94	-75.61	-339.19	4,679.27
Applied to removed ratio	1.19	0.00	0.00	15.72

**Fresh water applied**

77,760,000.00 gallons  
2,863.64 acre-inches  
29.52 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.

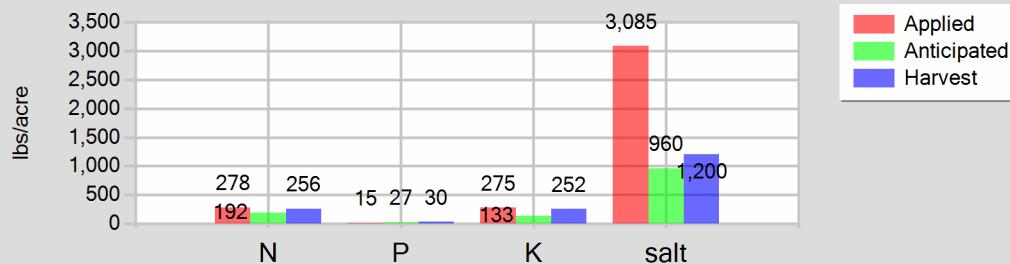
PV-3 - 11/24/2022: Wheat, silage, soft dough

Field name: PV-3

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

**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	230.31	15.32	274.60	1,624.80
Fresh water	40.41	0.00	0.00	1,460.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	277.72	15.32	274.60	3,084.91
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	255.54	29.84	252.48	1,199.68
Nutrient balance	22.18	-14.52	22.11	1,885.23
Applied to removed ratio	1.09	0.51	1.09	2.57

**Fresh water applied**

31,611,600.00 gallons  
1,164.15 acre-inches  
11.88 inches/acre

**Process wastewater applied**

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

**Total harvests for the crop**

1 harvests

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

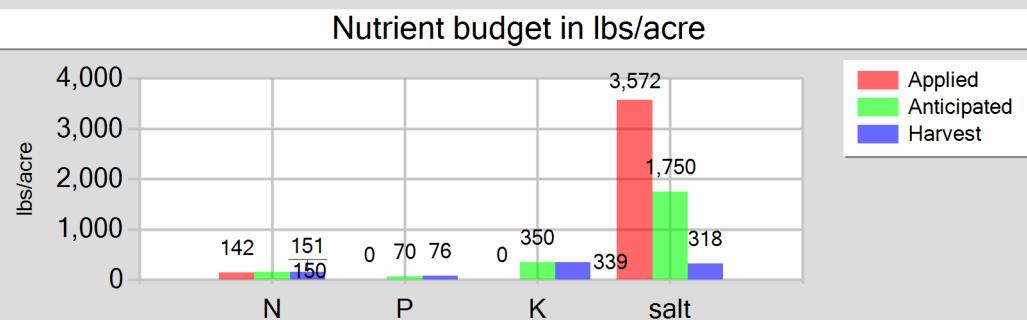
Reporting period 01/01/2023 to 12/31/2023.

PV-3 - 05/20/2023: Tomato

Field name: PV-3

Crop: Tomato

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	50.00	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	84.85	0.00	0.00	3,572.30
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	141.85	0.00	0.00	3,572.30
Anticipated crop nutrient removal	150.00	70.00	350.00	1,750.00
Actual crop nutrient removal	150.53	75.62	339.22	318.02
Nutrient balance	-8.68	-75.62	-339.22	3,254.28
Applied to removed ratio	0.94	0.00	0.00	11.23

**Fresh water applied**

77,760,000.00 gallons
2,863.64 acre-inches
29.22 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.

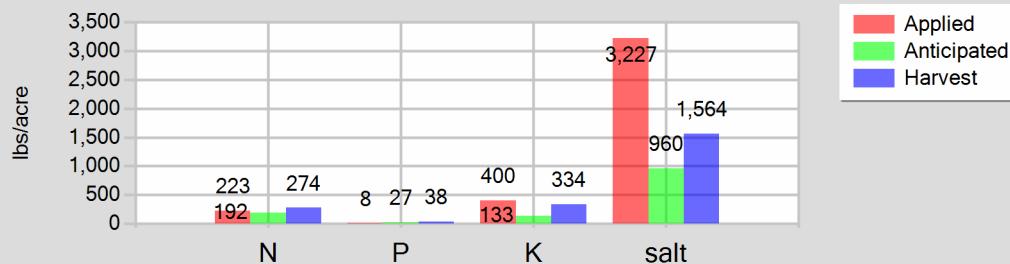
PV-4 - 11/25/2022: Wheat, silage, soft dough

Field name: PV-4

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022

**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	0.00	0.00	0.00	0.00
Process wastewater	198.08	7.57	400.02	1,788.23
Fresh water	17.43	0.00	0.00	1,439.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	222.51	7.57	400.02	3,227.39
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	274.49	37.57	334.30	1,564.15
Nutrient balance	-51.98	-30.00	65.73	1,663.25
Applied to removed ratio	0.81	0.20	1.20	2.06

**Fresh water applied**

31,503,600.00 gallons  
1,160.17 acre-inches  
11.96 inches/acre

**Process wastewater applied**

3,504,000.00 gallons  
129.04 acre-inches  
1.33 inches/acre

**Total harvests for the crop**

1 harvests

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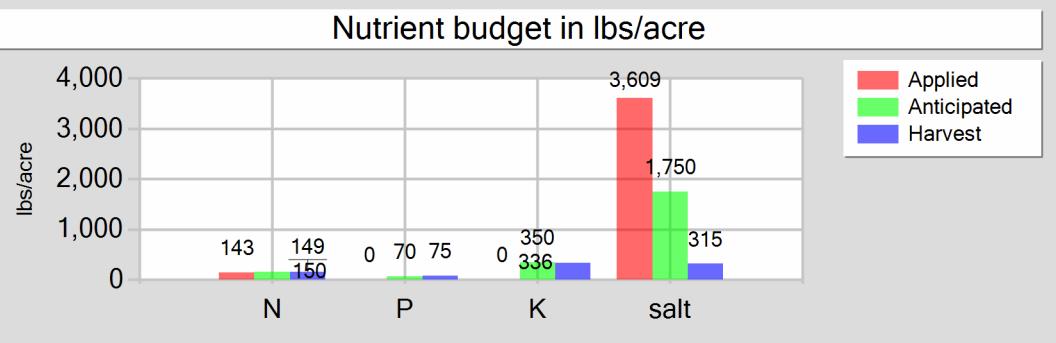
Reporting period 01/01/2023 to 12/31/2023.

PV-4 - 05/19/2023: Tomato

Field name: PV-4

Crop: Tomato

Plant date: 05/19/2023



	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	50.00	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	85.73	0.00	0.00	3,609.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	142.73	0.00	0.00	3,609.13
Anticipated crop nutrient removal	150.00	70.00	350.00	1,750.00
Actual crop nutrient removal	148.95	74.82	335.65	314.68
Nutrient balance	-6.22	-74.82	-335.65	3,294.45
Applied to removed ratio	0.96	0.00	0.00	11.47

**Fresh water applied**

77,760,000.00 gallons
2,863.64 acre-inches
29.52 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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**Annual Report - General Order No. R5-2007-0035**

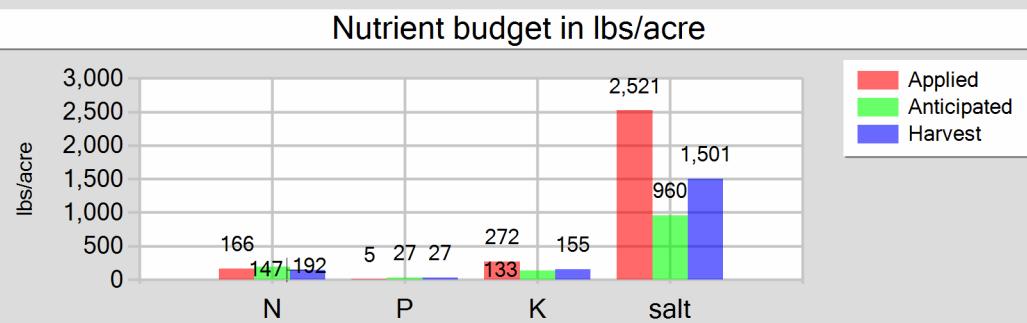
Reporting period 01/01/2023 to 12/31/2023.

PV-5 - 12/07/2022: Wheat, silage, soft dough

Field name: PV-5

Crop: Wheat, silage, soft dough

Plant date: 12/07/2022



	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	134.40	5.14	271.50	1,214.03
Fresh water	24.47	0.00	0.00	1,306.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	165.88	5.14	271.50	2,520.71
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	146.98	27.06	154.60	1,500.86
Nutrient balance	18.90	-21.92	116.91	1,019.85
Applied to removed ratio	1.13	0.19	1.76	1.68

**Fresh water applied**

30,596,400.00 gallons  
1,126.76 acre-inches  
11.74 inches/acre

**Process wastewater applied**

2,352,000.00 gallons  
86.62 acre-inches  
0.90 inches/acre

**Total harvests for the crop**

1 harvests

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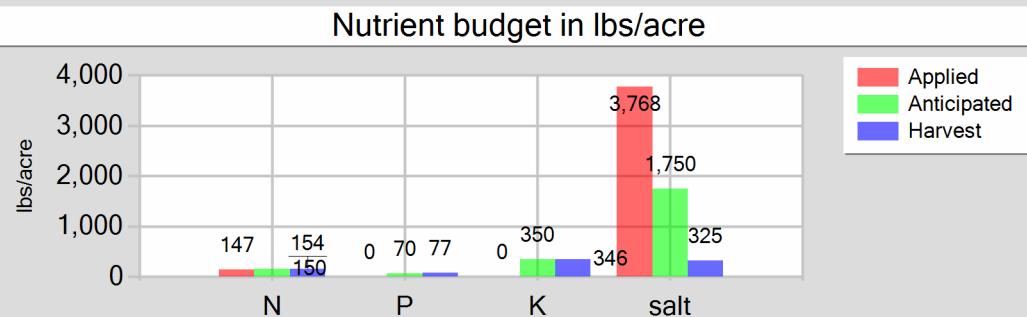
Reporting period 01/01/2023 to 12/31/2023.

PV-5 - 05/16/2023: Tomato

Field name: PV-5

Crop: Tomato

Plant date: 05/16/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	50.00	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	89.51	0.00	0.00	3,768.28
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	146.51	0.00	0.00	3,768.28
Anticipated crop nutrient removal	150.00	70.00	350.00	1,750.00
Actual crop nutrient removal	153.67	77.19	346.29	324.65
Nutrient balance	-7.16	-77.19	-346.29	3,443.63
Applied to removed ratio	0.95	0.00	0.00	11.61

**Fresh water applied**

80,352,000.00 gallons  
2,959.09 acre-inches  
30.82 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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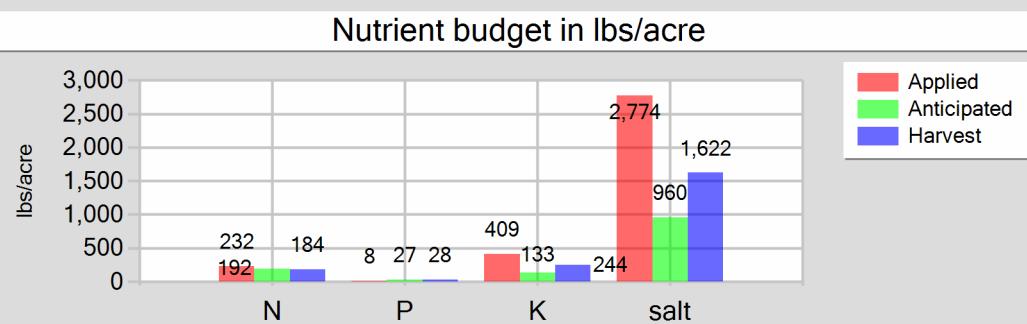
Reporting period 01/01/2023 to 12/31/2023.

PV-7 - 11/20/2022: Wheat, silage, soft dough

Field name: PV-7

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022



	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	19,776,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	728.28 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	7.75 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	202.73	7.73	409.04	1,827.06	Process wastewater applied
Fresh water	22.39	0.00	0.00	947.03	3,480,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	128.16 acre-inches
Total nutrients applied	232.12	7.73	409.04	2,774.09	1.36 inches/acre
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00	
Actual crop nutrient removal	183.90	27.99	244.44	1,622.00	Total harvests for the crop
Nutrient balance	48.21	-20.25	164.60	1,152.09	1 harvests
Applied to removed ratio	1.26	0.28	1.67	1.71	

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

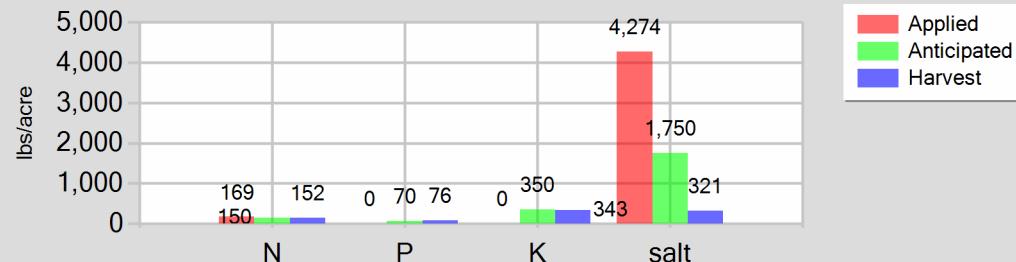
PV-7 - 05/14/2023: Tomato

Field name: PV-7

Crop: Tomato

Plant date: 05/14/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	50.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	112.18	0.00	0.00	4,273.89
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	169.18	0.00	0.00	4,273.89
Anticipated crop nutrient removal	150.00	70.00	350.00	1,750.00
Actual crop nutrient removal	152.08	76.40	342.72	321.30
Nutrient balance	17.10	-76.40	-342.72	3,952.59
Applied to removed ratio	1.11	0.00	0.00	13.30

**Fresh water applied**

80,640,000.00 gallons  
2,969.70 acre-inches  
31.59 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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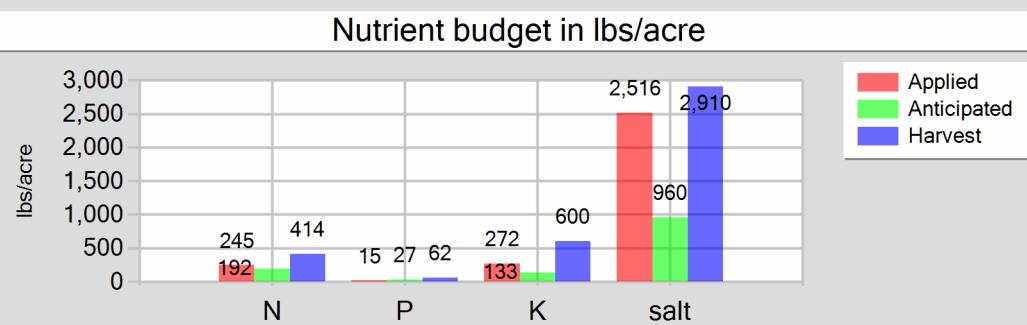
Reporting period 01/01/2023 to 12/31/2023.

PV-8 - 11/11/2022: Wheat, silage, soft dough

Field name: PV-8

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	0.00	0.00	0.00	0.00
Process wastewater	228.88	15.26	271.59	1,610.91
Fresh water	6.92	0.00	0.00	904.64
Atmospheric deposition	9.33	0.00	0.00	0.00
Total nutrients applied	245.14	15.26	271.59	2,515.55
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	413.93	61.68	600.40	2,909.78
Nutrient balance	-168.79	-46.42	-328.81	-394.23
Applied to removed ratio	0.59	0.25	0.45	0.86

**Fresh water applied**

19,584,000.00 gallons  
721.21 acre-inches  
7.36 inches/acre

**Process wastewater applied**

3,576,000.00 gallons  
131.69 acre-inches  
1.34 inches/acre

**Total harvests for the crop**

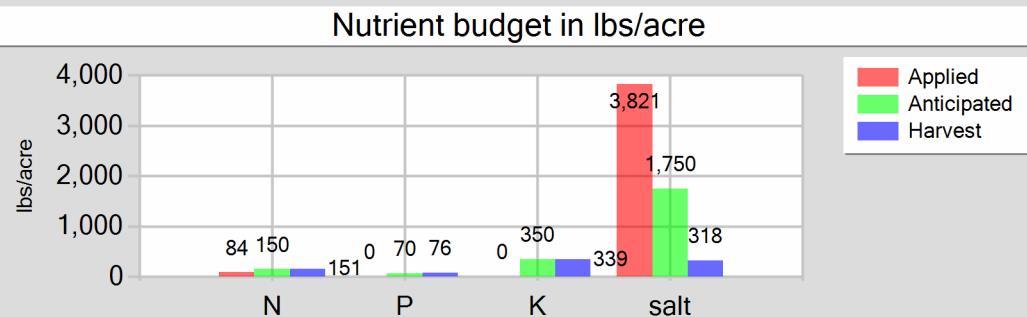
2 harvests

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

PV-8 - 05/12/2023: Tomato

Field name: PV-8      Crop: Tomato      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	50.00	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	29.13	0.00	0.00	3,821.05
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	83.80	0.00	0.00	3,821.05
Anticipated crop nutrient removal	150.00	70.00	350.00	1,750.00
Actual crop nutrient removal	150.53	75.62	339.22	318.02
Nutrient balance	-66.73	-75.62	-339.22	3,503.03
Applied to removed ratio	0.56	0.00	0.00	12.02

**Fresh water applied**  
82,944,000.00 gallons  
3,054.55 acre-inches  
31.17 inches/acre

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

**Total harvests for the crop**  
1 harvests

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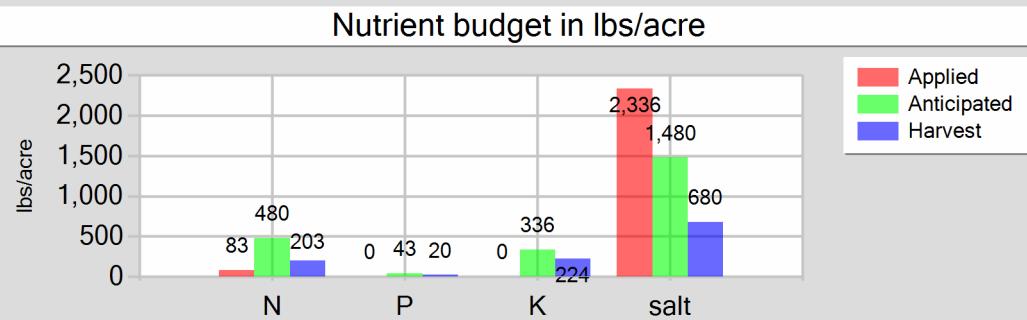
Reporting period 01/01/2023 to 12/31/2023.

PV-9 - 11/22/2019: Alfalfa, hay

Field name: PV-9

Crop: Alfalfa, hay

Plant date: 11/22/2019



	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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	72.23	0.00	0.00	2,336.19
Atmospheric deposition	11.20	0.00	0.00	0.00
Total nutrients applied	83.43	0.00	0.00	2,336.19
Anticipated crop nutrient removal	480.00	43.20	336.00	1,480.00
Actual crop nutrient removal	203.23	20.42	224.14	679.72
Nutrient balance	-119.80	-20.42	-224.14	1,656.47
Applied to removed ratio	0.41	0.00	0.00	3.44

**Fresh water applied**

39,235,200.00 gallons  
1,444.90 acre-inches  
16.42 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

4 harvests

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

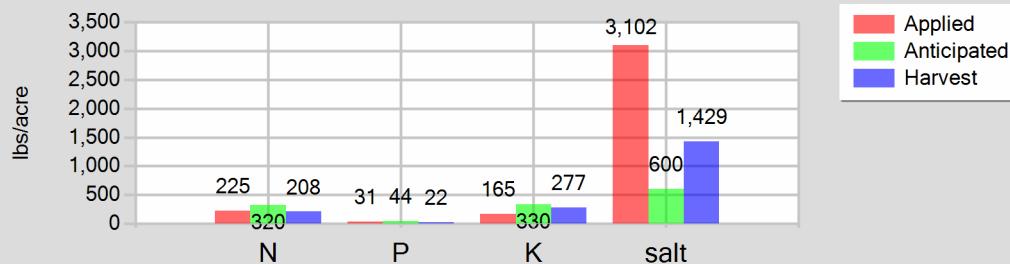
PV-9 - 07/14/2023: Sudangrass, silage

Field name: PV-9

Crop: Sudangrass, silage

Plant date: 07/14/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	30,172,800.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,111.16 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.63 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	150.35	31.11	165.29	1,091.80	Process wastewater applied
Fresh water	71.56	0.00	0.00	2,010.01	3,216,000.00 gallons
Atmospheric deposition	2.80	0.00	0.00	0.00	118.43 acre-inches
Total nutrients applied	224.71	31.11	165.29	3,101.81	1.35 inches/acre
Anticipated crop nutrient removal	320.00	44.00	330.00	600.00	
Actual crop nutrient removal	208.11	21.94	276.73	1,428.65	Total harvests for the crop
Nutrient balance	16.60	9.17	-111.44	1,673.16	1 harvests
Applied to removed ratio	1.08	1.42	0.60	2.17	

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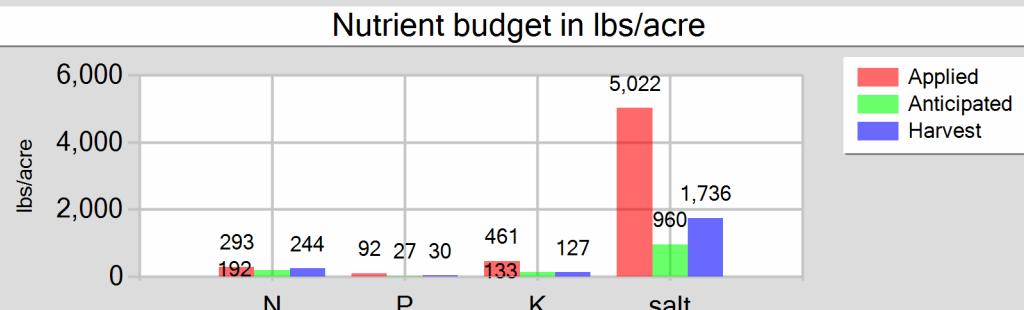
Reporting period 01/01/2023 to 12/31/2023.

PVE-21 - 11/22/2022: Wheat, silage, soft dough

Field name: PVE-21

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022



	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	18,924,000.00 gallons 696.91 acre-inches 8.50 inches/acre
Plowdown credit	0.00	0.00	0.00	0.00	
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	
Dry manure	277.24	92.34	460.52	3,897.60	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	8.99	0.00	0.00	1,124.70	0.00 gallons 0.00 acre-inches 0.00 inches/acre
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	293.23	92.34	460.52	5,022.30	
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00	
Actual crop nutrient removal	243.60	30.25	126.67	1,735.68	
Nutrient balance	49.63	62.09	333.85	3,286.63	Total harvests for the crop
Applied to removed ratio	1.20	3.05	3.64	2.89	1 harvests

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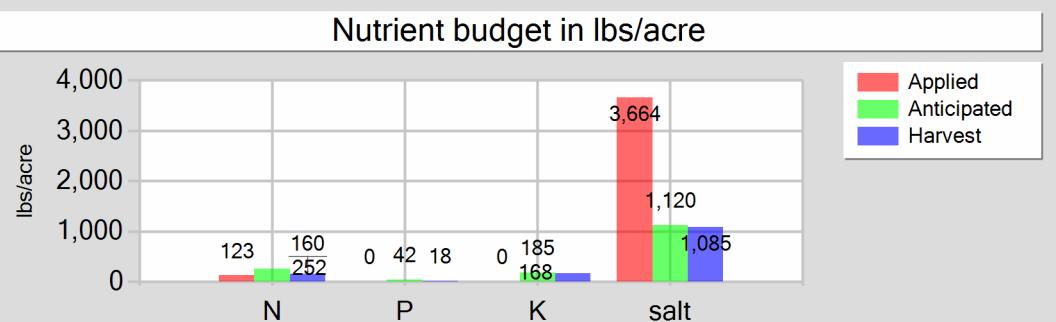
Reporting period 01/01/2023 to 12/31/2023.

PVE-21 - 06/20/2023: Corn, silage

Field name: PVE-21

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	80.00	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	35.83	0.00	0.00	3,663.66
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	122.83	0.00	0.00	3,663.66
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	159.51	17.96	167.73	1,085.32
Nutrient balance	-36.68	-17.96	-167.73	2,578.34
Applied to removed ratio	0.77	0.00	0.00	3.38

**Fresh water applied**

72,000,000.00 gallons
2,651.52 acre-inches
32.34 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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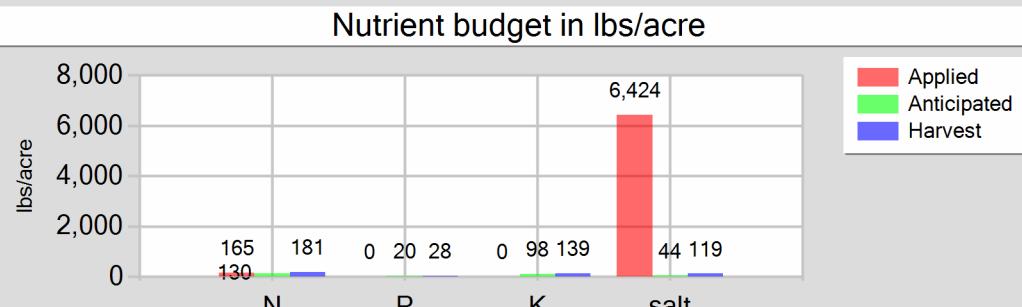
Reporting period 01/01/2023 to 12/31/2023.

PVE-22 - 01/12/2019: Almond, in shell

Field name: PVE-22

Crop: Almond, in shell

Plant date: 01/12/2019



	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	85.00	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	65.80	0.00	0.00	6,424.14
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	164.80	0.00	0.00	6,424.14
Anticipated crop nutrient removal	130.00	20.00	98.00	44.00
Actual crop nutrient removal	181.26	27.83	139.39	119.25
Nutrient balance	-16.46	-27.83	-139.39	6,304.89
Applied to removed ratio	0.91	0.00	0.00	53.87

**Fresh water applied**

74,880,000.00 gallons
2,757.58 acre-inches
36.28 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**

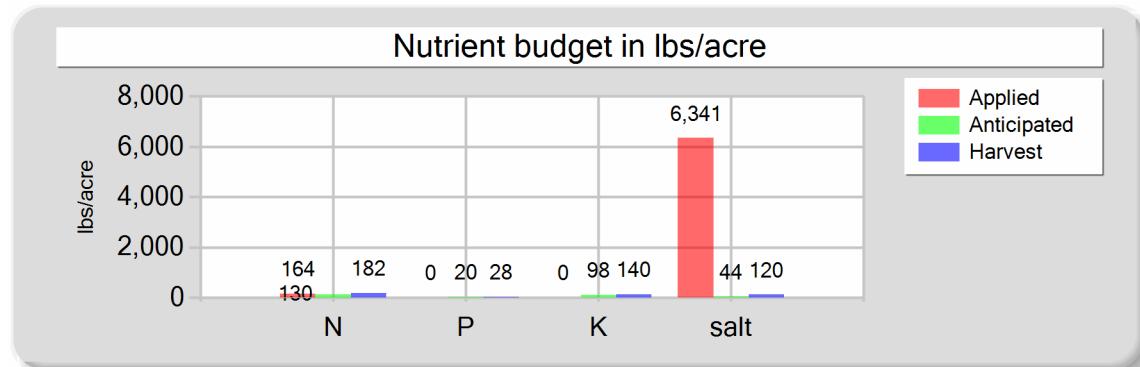
Reporting period 01/01/2023 to 12/31/2023.

PVE-23 - 01/01/2018: Almond, in shell

Field name: PVE-23

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)
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	85.00	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	64.95	0.00	0.00	6,340.71
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	163.95	0.00	0.00	6,340.71
Anticipated crop nutrient removal	130.00	20.00	98.00	44.00
Actual crop nutrient removal	182.28	27.98	140.18	119.92
Nutrient balance	-18.33	-27.98	-140.18	6,220.79
Applied to removed ratio	0.90	0.00	0.00	52.87

**Fresh water applied**

74,880,000.00 gallons
2,757.58 acre-inches
35.81 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**

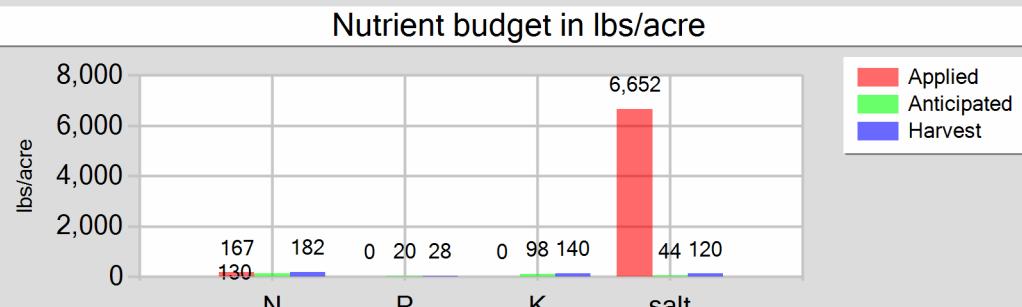
Reporting period 01/01/2023 to 12/31/2023.

PVE-24 - 01/02/2018: Almond, in shell

Field name: PVE-24

Crop: Almond, in shell

Plant date: 01/02/2018



	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	85.00	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	68.14	0.00	0.00	6,651.79
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	167.14	0.00	0.00	6,651.79
Anticipated crop nutrient removal	130.00	20.00	98.00	44.00
Actual crop nutrient removal	182.28	27.98	140.18	119.92
Nutrient balance	-15.14	-27.98	-140.18	6,531.87
Applied to removed ratio	0.92	0.00	0.00	55.47

**Fresh water applied**

74,880,000.00 gallons  
2,757.58 acre-inches  
35.81 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**

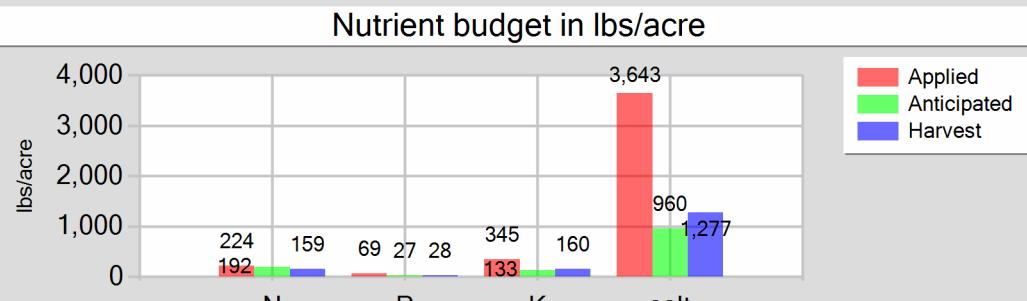
Reporting period 01/01/2023 to 12/31/2023.

PVE-25 - 11/23/2022: Wheat, silage, soft dough

Field name: PVE-25

Crop: Wheat, silage, soft dough

Plant date: 11/23/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	18,000,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	662.88 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	8.72 inches/acre
Dry manure	207.93	69.25	345.39	2,923.20	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	8.65	0.00	0.00	720.06	0.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 acre-inches
					0.00 inches/acre
Total nutrients applied	223.58	69.25	345.39	3,643.26	Total harvests for the crop
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00	1 harvests
Actual crop nutrient removal	159.37	27.56	159.54	1,276.62	
Nutrient balance	64.21	41.69	185.85	2,366.64	
Applied to removed ratio	1.40	2.51	2.16	2.85	

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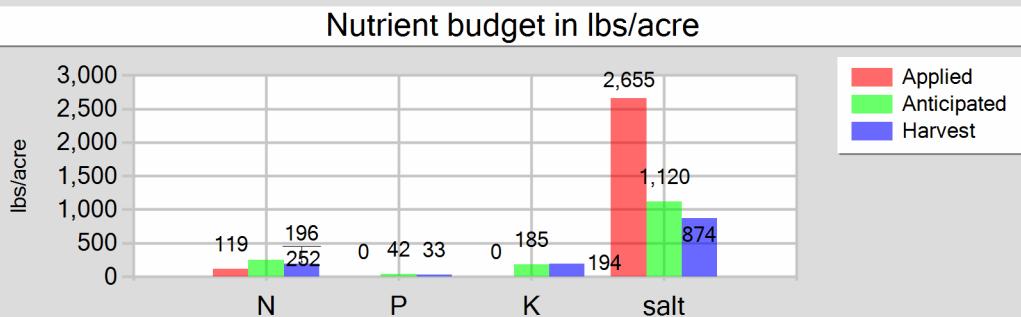
Reporting period 01/01/2023 to 12/31/2023.

PVE-25 - 07/02/2023: Corn, silage

Field name: PVE-25

Crop: Corn, silage

Plant date: 07/02/2023



	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	80.00	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	31.89	0.00	0.00	2,654.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	118.89	0.00	0.00	2,654.76
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	195.79	32.88	193.89	874.39
Nutrient balance	-76.89	-32.88	-193.89	1,780.37
Applied to removed ratio	0.61	0.00	0.00	3.04

**Fresh water applied**

66,240,000.00 gallons
2,439.39 acre-inches
32.10 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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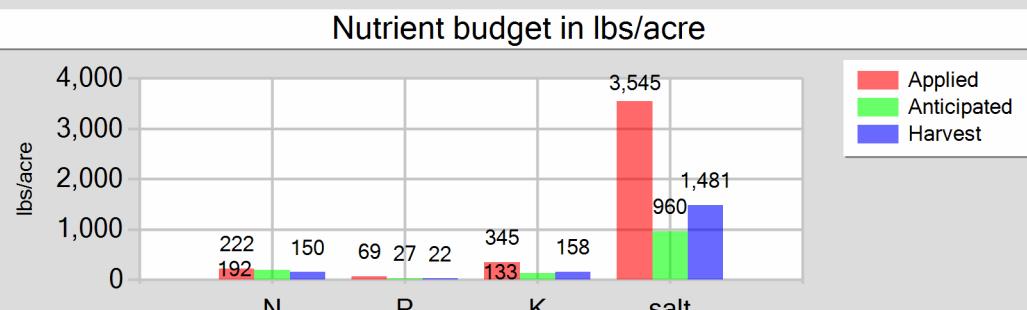
Reporting period 01/01/2023 to 12/31/2023.

PVE-26 - 11/23/2022: Wheat, silage, soft dough

Field name: PVE-26

Crop: Wheat, silage, soft dough

Plant date: 11/23/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	207.93	69.25	345.39	2,923.20
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	7.24	0.00	0.00	621.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	222.17	69.25	345.39	3,544.76
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	149.53	21.84	158.33	1,480.65
Nutrient balance	72.64	47.41	187.06	2,064.10
Applied to removed ratio	1.49	3.17	2.18	2.39

**Fresh water applied**

17,316,000.00 gallons
637.69 acre-inches
8.74 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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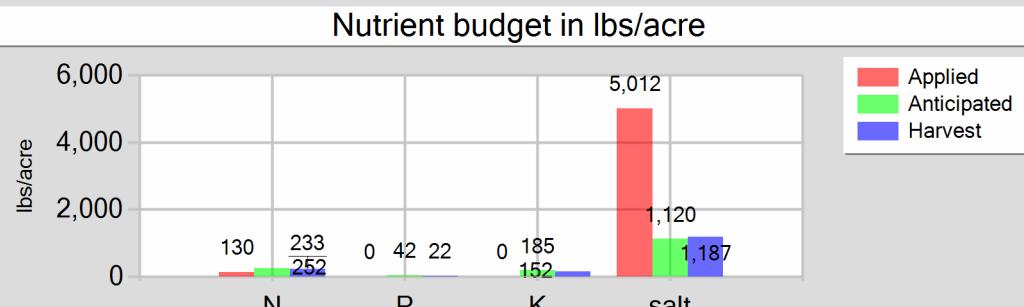
Reporting period 01/01/2023 to 12/31/2023.

PVE-26 - 06/21/2023: Corn, silage

Field name: PVE-26

Crop: Corn, silage

Plant date: 06/21/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	80.00	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	42.93	0.00	0.00	5,012.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	129.93	0.00	0.00	5,012.16
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	233.24	22.39	152.23	1,187.02
Nutrient balance	-103.31	-22.39	-152.23	3,825.14
Applied to removed ratio	0.56	0.00	0.00	4.22

**Fresh water applied**

63,360,000.00 gallons
2,333.33 acre-inches
31.96 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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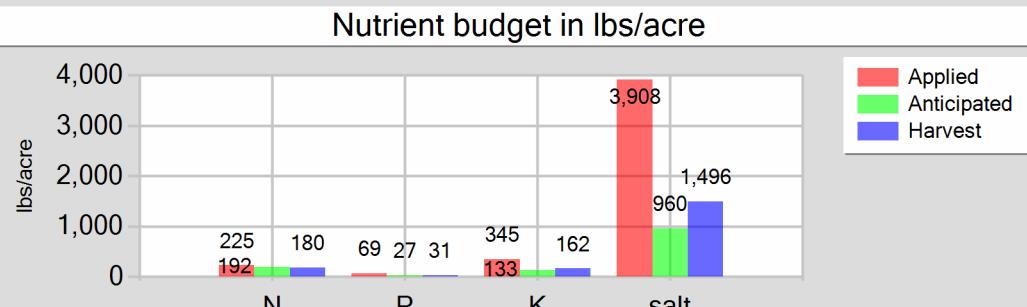
Reporting period 01/01/2023 to 12/31/2023.

PVE-27 - 11/25/2022: Wheat, silage, soft dough

Field name: PVE-27

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022



	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	207.93	69.25	345.39	2,923.20
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	10.04	0.00	0.00	984.93
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	224.97	69.25	345.39	3,908.13
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	180.29	30.68	161.56	1,496.03
Nutrient balance	44.69	38.57	183.83	2,412.09
Applied to removed ratio	1.25	2.26	2.14	2.61

**Fresh water applied**

20,316,000.00 gallons
748.17 acre-inches
8.41 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.

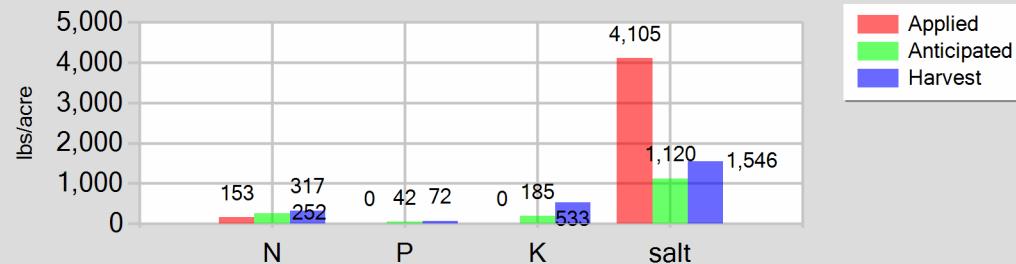
PVE-27 - 07/11/2023: Corn, silage

Field name: PVE-27

Crop: Corn, silage

Plant date: 07/11/2023

**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	80.00	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	66.35	0.00	0.00	4,104.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	153.35	0.00	0.00	4,104.88
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	316.52	72.27	532.80	1,545.65
Nutrient balance	-163.17	-72.27	-532.80	2,559.24
Applied to removed ratio	0.48	0.00	0.00	2.66

**Fresh water applied**

77,760,000.00 gallons  
2,863.64 acre-inches  
32.18 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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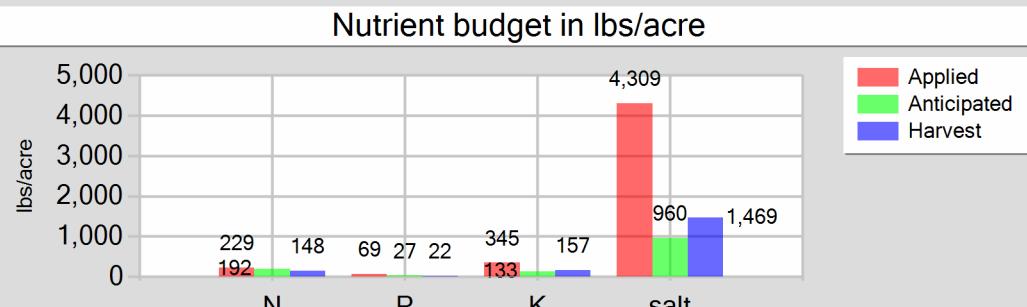
Reporting period 01/01/2023 to 12/31/2023.

PVE-28 - 11/27/2022: Wheat, silage, soft dough

Field name: PVE-28

Crop: Wheat, silage, soft dough

Plant date: 11/27/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	207.93	69.25	345.39	2,923.20
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	13.59	0.00	0.00	1,385.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	228.52	69.25	345.39	4,308.56
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	148.37	21.67	157.09	1,469.12
Nutrient balance	80.15	47.58	188.30	2,839.45
Applied to removed ratio	1.54	3.20	2.20	2.93

**Fresh water applied**

19,236,000.00 gallons  
708.40 acre-inches  
8.33 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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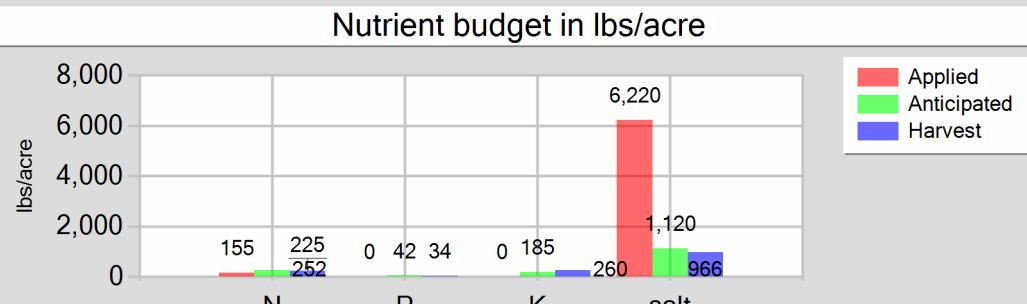
Reporting period 01/01/2023 to 12/31/2023.

PVE-28 - 07/01/2023: Corn, silage

Field name: PVE-28

Crop: Corn, silage

Plant date: 07/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	80.00	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	68.35	0.00	0.00	6,220.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	155.35	0.00	0.00	6,220.46
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	225.45	34.14	259.81	966.22
Nutrient balance	-70.10	-34.14	-259.81	5,254.24
Applied to removed ratio	0.69	0.00	0.00	6.44

**Fresh water applied**

72,000,000.00 gallons
2,651.52 acre-inches
31.19 inches/acre

**Process wastewater applied**

0.00 gallons
0.00 acre-inches
0.00 inches/acre

**Total harvests for the crop**

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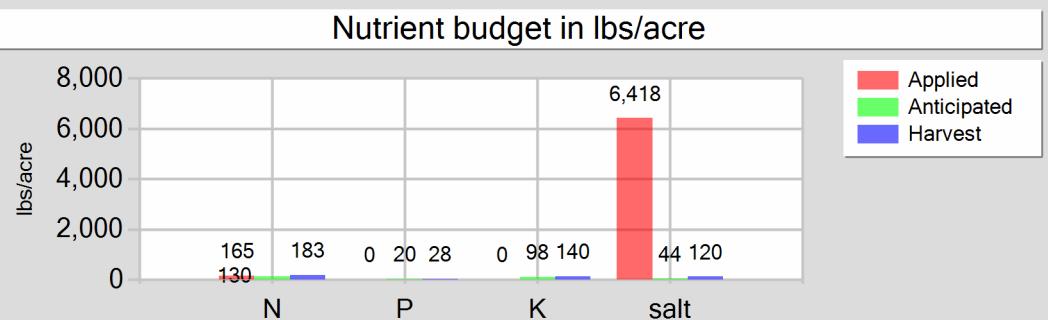
Reporting period 01/01/2023 to 12/31/2023.

PVE-29 - 01/10/2019: Almond, in shell

Field name: PVE-29

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	85.00	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	65.74	0.00	0.00	6,417.88
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	164.74	0.00	0.00	6,417.88
Anticipated crop nutrient removal	130.00	20.00	98.00	44.00
Actual crop nutrient removal	182.60	28.03	140.42	120.13
Nutrient balance	-17.86	-28.03	-140.42	6,297.75
Applied to removed ratio	0.90	0.00	0.00	53.42

**Fresh water applied**

77,760,000.00 gallons
2,863.64 acre-inches
36.25 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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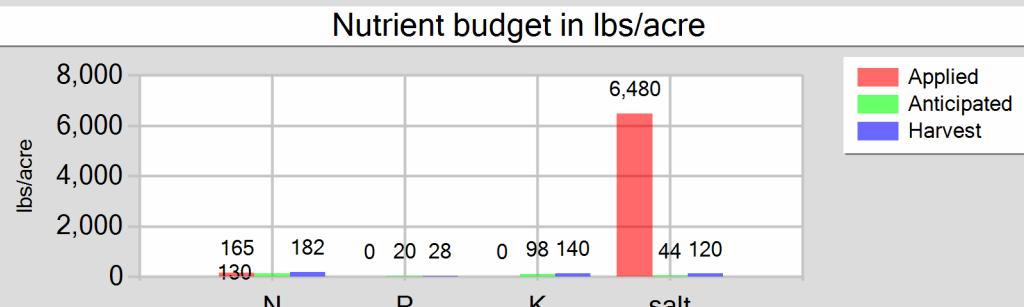
Reporting period 01/01/2023 to 12/31/2023.

PVE-30 - 01/03/2018: Almond, in shell

Field name: PVE-30

Crop: Almond, in shell

Plant date: 01/03/2018



	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	85.00	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	66.38	0.00	0.00	6,480.11
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	165.38	0.00	0.00	6,480.11
Anticipated crop nutrient removal	130.00	20.00	98.00	44.00
Actual crop nutrient removal	181.94	27.93	139.92	119.70
Nutrient balance	-16.56	-27.93	-139.92	6,360.41
Applied to removed ratio	0.91	0.00	0.00	54.14

**Fresh water applied**

72,000,000.00 gallons  
2,651.52 acre-inches  
34.89 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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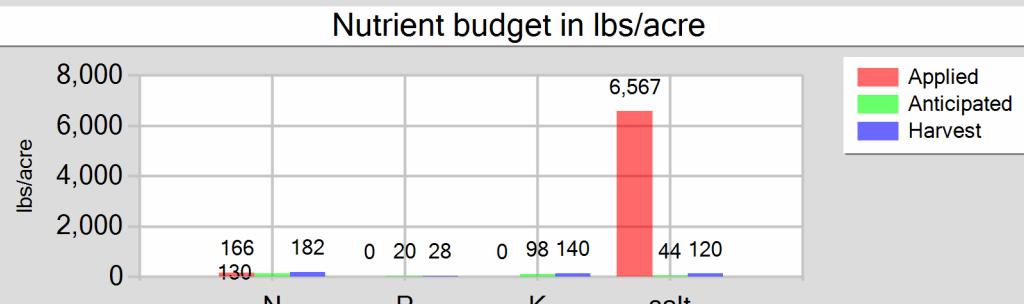
Reporting period 01/01/2023 to 12/31/2023.

PVE-31 - 01/04/2018: Almond, in shell

Field name: PVE-31

Crop: Almond, in shell

Plant date: 01/04/2018



	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	85.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	67.27	0.00	0.00	6,566.51
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	166.27	0.00	0.00	6,566.51
Anticipated crop nutrient removal	130.00	20.00	98.00	44.00
Actual crop nutrient removal	181.94	27.93	139.92	119.70
Nutrient balance	-15.68	-27.93	-139.92	6,446.81
Applied to removed ratio	0.91	0.00	0.00	54.86

**Fresh water applied**

74,880,000.00 gallons  
2,757.58 acre-inches  
35.35 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**

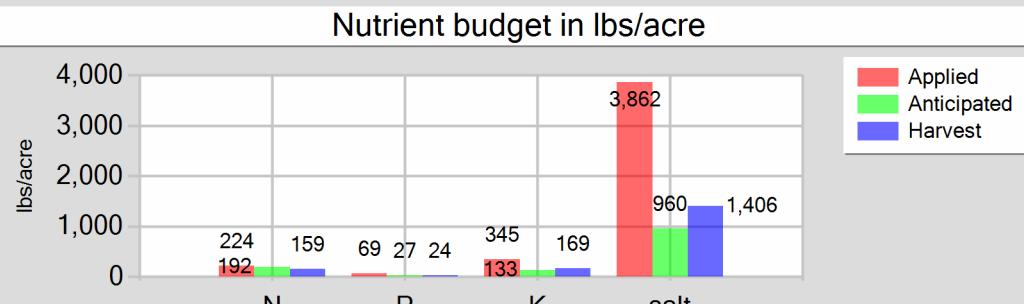
Reporting period 01/01/2023 to 12/31/2023.

PVE-32 - 11/02/2022: Wheat, silage, soft dough

Field name: PVE-32

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022



	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	207.93	69.25	345.39	2,923.20
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	8.80	0.00	0.00	938.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	223.73	69.25	345.39	3,861.84
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	158.71	24.18	169.29	1,405.73
Nutrient balance	65.01	45.07	176.10	2,456.11
Applied to removed ratio	1.41	2.86	2.04	2.75

**Fresh water applied**

17,244,000.00 gallons
635.04 acre-inches
8.14 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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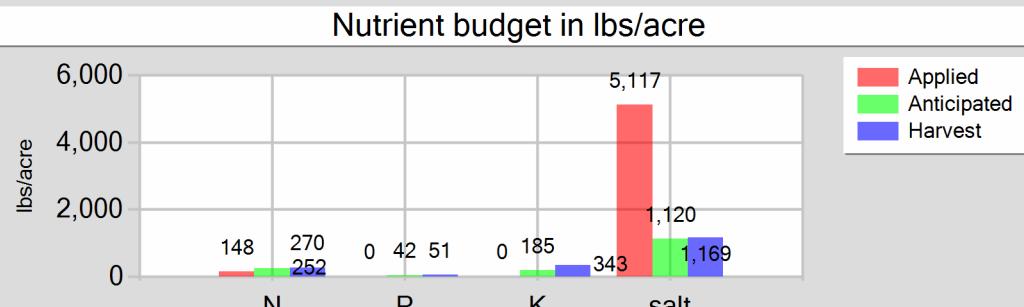
Reporting period 01/01/2023 to 12/31/2023.

PVE-32 - 07/12/2023: Corn, silage

Field name: PVE-32

Crop: Corn, silage

Plant date: 07/12/2023



	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	80.00	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	60.59	0.00	0.00	5,116.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	147.59	0.00	0.00	5,116.69
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	269.94	50.94	343.00	1,169.04
Nutrient balance	-122.34	-50.94	-343.00	3,947.65
Applied to removed ratio	0.55	0.00	0.00	4.38

**Fresh water applied**

66,240,000.00 gallons  
2,439.39 acre-inches  
31.27 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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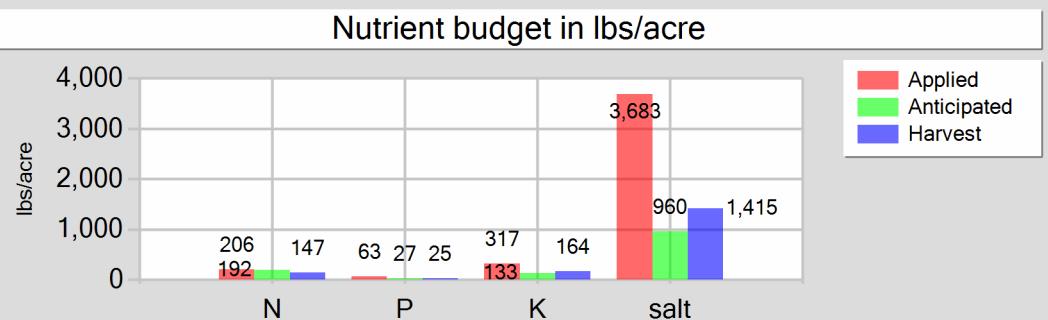
Reporting period 01/01/2023 to 12/31/2023.

PVE-33 - 11/04/2022: Wheat, silage, soft dough

Field name: PVE-33

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	190.60	63.48	316.61	2,679.60
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	8.39	0.00	0.00	1,003.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	205.99	63.48	316.61	3,683.15
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	146.91	24.78	164.23	1,415.33
Nutrient balance	59.09	38.70	152.38	2,267.83
Applied to removed ratio	1.40	2.56	1.93	2.60

**Fresh water applied**

17,604,000.00 gallons
648.30 acre-inches
8.10 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.

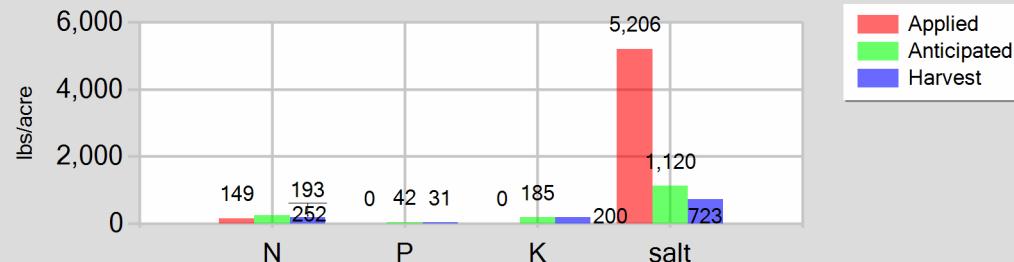
PVE-33 - 07/02/2023: Corn, silage

Field name: PVE-33

Crop: Corn, silage

Plant date: 07/02/2023

**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	80.00	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	61.65	0.00	0.00	5,205.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	148.65	0.00	0.00	5,205.68
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	192.75	30.72	199.78	722.82
Nutrient balance	-44.11	-30.72	-199.78	4,482.86
Applied to removed ratio	0.77	0.00	0.00	7.20

**Fresh water applied**

69,120,000.00 gallons  
2,545.45 acre-inches  
31.82 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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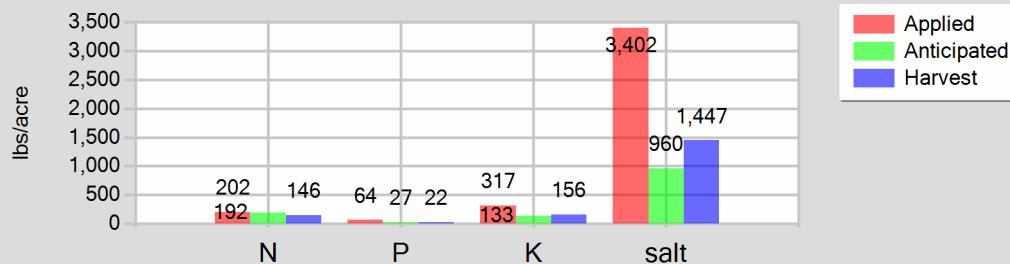
PVE-34 - 11/05/2022: Wheat, silage, soft dough

Field name: PVE-34

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	190.82	63.55	316.97	2,682.68
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	4.40	0.00	0.00	719.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	202.22	63.55	316.97	3,401.87
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	146.35	21.74	156.32	1,447.10
Nutrient balance	55.88	41.82	160.65	1,954.77
Applied to removed ratio	1.38	2.92	2.03	2.35

**Fresh water applied**

17,964,000.00 gallons  
661.55 acre-inches  
8.37 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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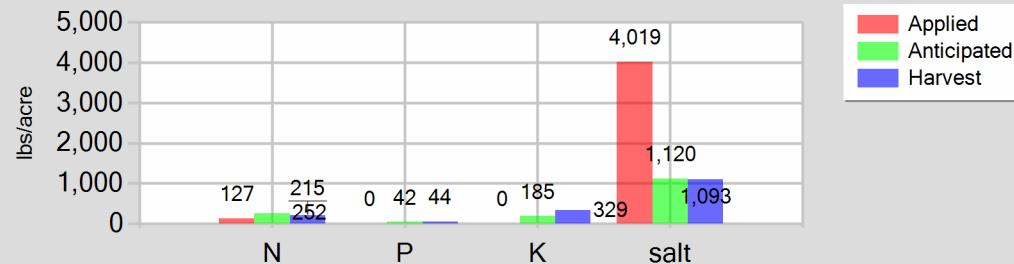
PVE-34 - 07/12/2023: Corn, silage

Field name: PVE-34

Crop: Corn, silage

Plant date: 07/12/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	69,120,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,545.45 acre-inches
Commercial fertilizer / Other	80.00	0.00	0.00	0.00	32.22 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	39.68	0.00	0.00	4,019.39	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	126.68	0.00	0.00	4,019.39	Process wastewater applied
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00	0.00 gallons
Actual crop nutrient removal	214.51	44.11	328.68	1,093.31	0.00 acre-inches
Nutrient balance	-87.83	-44.11	-328.68	2,926.09	0.00 inches/acre
Applied to removed ratio	0.59	0.00	0.00	3.68	Total harvests for the crop
					1 harvests

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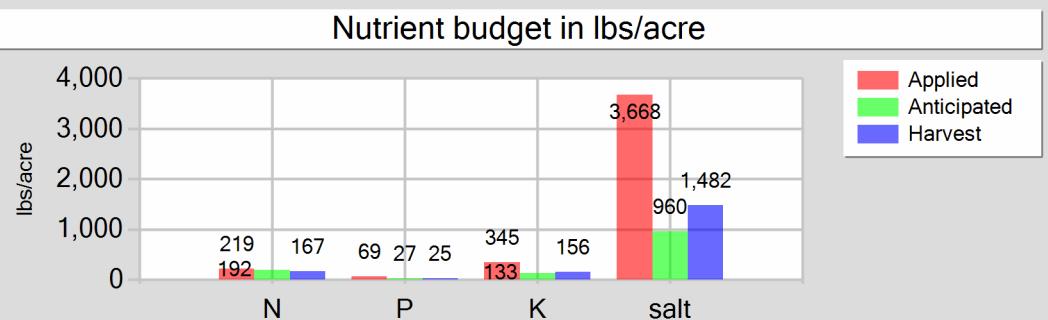
Reporting period 01/01/2023 to 12/31/2023.

PVE-35 - 11/07/2022: Wheat, silage, soft dough

Field name: PVE-35

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022



	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	207.93	69.25	345.39	2,923.20
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	4.56	0.00	0.00	744.83
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	219.49	69.25	345.39	3,668.03
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
Actual crop nutrient removal	166.87	25.11	156.17	1,482.35
Nutrient balance	52.62	44.14	189.22	2,185.68
Applied to removed ratio	1.32	2.76	2.21	2.47

**Fresh water applied**

16,956,000.00 gallons
624.43 acre-inches
8.67 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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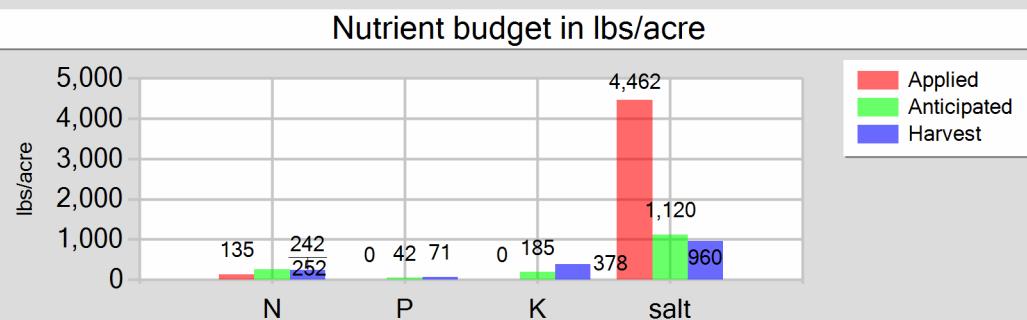
Reporting period 01/01/2023 to 12/31/2023.

PVE-35 - 07/13/2023: Corn, silage

Field name: PVE-35

Crop: Corn, silage

Plant date: 07/13/2023



	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	80.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	47.54	0.00	0.00	4,462.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	134.54	0.00	0.00	4,462.46
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	242.43	70.66	377.74	960.32
Nutrient balance	-107.89	-70.66	-377.74	3,502.14
Applied to removed ratio	0.55	0.00	0.00	4.65

**Fresh water applied**

63,360,000.00 gallons
2,333.33 acre-inches
32.41 inches/acre

**Process wastewater applied**

0.00 gallons
0.00 acre-inches
0.00 inches/acre

**Total harvests for the crop**

1 harvests
------------

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

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

**NUTRIENT ANALYSES****A. MANURE ANALYSES****Corral solids - 2022**

Sample and source description: Corral solids - 2022

Sample date: 11/03/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 27.5 %

	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>	23,900.00	7,960.00	39,700.00							33.60
<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: 13.1 %

	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 (%)
<b>Value</b>	20,900.00	4,710.00	26,900.00							0.00
<b>DL</b>	1,000.00	1,000.00	1,000.00							0.10

**Separator Solids**

Sample and source description: Separator Solids

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

Moisture: 59.4 %

	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>	17,400.00	1,790.00	4,340.00							0.00
<b>DL</b>	1,000.00	1,000.00	1,000.00							0.10

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**Corral solids**

Sample and source description: Corral solids

Sample date: 10/26/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight  
Moisture: 11.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,400.00	9,040.00	24,500.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

**Separator Solids**

Sample and source description: Separator Solids

Sample date: 10/26/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight  
Moisture: 32.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,300.00	1,880.00	5,260.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

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

Sample and source description: LG-North-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	700.00	482.00	0.00	0.00	29.00	1,470.00								9,320.00	6,800
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

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**LG-North-1**

Sample and source description: LG-North-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>	804.00	367.00	0.00	0.00	71.50	306.00								6,450.00	3,760
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

**LG-North-2**

Sample and source description: LG-North-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>	613.00	417.00	0.00	0.00	21.10	1,180.00								8,510.00	5,040
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

**LG-North-3**

Sample and source description: LG-North-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>	493.00	227.00	0.00	0.00	102.00	542.00								4,470.00	3,580
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

**LG-North-4**

Sample and source description: LG-North-4

Sample date: 10/26/2023 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>	669.00	532.00	0.00	0.00	25.30	932.00								8,800.00	5,960
<b>DL</b>	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

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

**C. FRESH WATER ANALYSES**

1

1

Sample description: 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	6.61	0.00	6.61								1,080.00	691
DL	0.50	0.50	0.50								1.00	10

10

10

Sample description: 10

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	1.64	0.00	1.64								611.00	391
DL	0.50	0.50	0.50								1.00	10

13

13

Sample description: 13

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	13.60	0.00	13.60								926.00	593
DL	0.50	0.50	0.50								1.00	10

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2

2

Sample description: 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	29.70	0.00	29.70								1,260.00	803
DL	0.50	0.50	0.50								1.00	10

22

22

Sample description: 22

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	4.67	0.00	4.67								912.00	584
DL	0.50	0.50	0.50								1.00	10

24

24

Sample description: 24

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	5.11	0.00	5.11								650.00	416
DL	0.50	0.50	0.50								1.00	10

26A

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26A

26A

Sample description: 26A

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	3.66	0.00	3.66								491.00	314
DL	0.50	0.50	0.50								1.00	10

27

27

Sample description: 27

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	9.10	0.00	9.10								879.00	563
DL	0.50	0.50	0.50								1.00	10

27A

27A

Sample description: 27A

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	7.06	0.00	7.06								1,380.00	881
DL	0.50	0.50	0.50								1.00	10

27B

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27B

27B

Sample description: 27B

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	6.86	0.00	6.86								1,120.00	717
DL	0.50	0.50	0.50								1.00	10

29A

29A

Sample description: 29A

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	9.67	0.00	9.67								1,365.00	880
DL	0.50	0.50	0.50								1.00	10

31

31

Sample description: 31

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	5.85	0.00	5.85								1,090.00	699
DL	0.50	0.50	0.50								1.00	10

32

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32

32

Sample description: 32

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	8.55	0.00	8.55								1,130.00	722
DL	0.50	0.50	0.50								1.00	10

35A

35A

Sample description: 35A

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	2.32	0.00	2.32								592.00	379
DL	0.50	0.50	0.50								1.00	10

3B

3B

Sample description: 3B

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	19.20	0.00	19.20								857.00	548
DL	0.50	0.50	0.50								1.00	10

6

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6

6

Sample description: 6

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	6.43	0.00	6.43								830.00	531
DL	0.50	0.50	0.50								1.00	10

8

8

Sample description: 8

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	36.90	0.00	36.90								1,350.00	861
DL	0.50	0.50	0.50								1.00	10

D-11

Domestic Well 11

Sample description: Domestic Well 11

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	20.80	0.00	20.80								1,400.00	897
DL	0.50	0.50	0.50								1.00	10

D-12

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D-12

Domestic Well 12

Sample description: Domestic Well 12

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	75.80	0.00	75.80								2,210.00	1,410
DL	0.50	0.50	0.50								1.00	10

**D. SOIL ANALYSES**

No soil analyses entered.

**E. PLANT TISSUE ANALYSES**

PV-1 A - 11/10/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 04/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,900.00	2,470.00	27,200.00		13.80
DL	1,000.00	1,000.00	1,000.00		0.10

PV-1 A - 05/25/2023: Tomato

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PV-1 A - 05/25/2023: Tomato

**Tomatoes-Processing**

Sample and source description: Tomatoes-Processing

Sample date: 10/01/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	10,700.00	48,000.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-1 B - 11/11/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,700.00	3,030.00	30,800.00		13.10
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-1 B - 05/25/2023: Tomato

**Tomatoes-Processing**

Sample and source description: Tomatoes-Processing

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

Moisture: 93.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	10,700.00	48,000.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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PV-10 - 11/20/2019: Alfalfa, hay

**Alfalfa Haylage**

Sample and source description: Alfalfa Haylage

Sample date: 04/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	29,900.00	3,790.00	38,300.00		11.90
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-10 - 07/15/2023: Sudangrass, silage

**Sudan Silage**

Sample and source description: Sudan Silage

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

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,700.00	2,180.00	38,800.00		5.80
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 67.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	20,900.00	3,370.00	32,200.00		13.40
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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PV-11 - 05/25/2023: Tomato

**Tomatoes-Processing**

Sample and source description: Tomatoes-Processing

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

Moisture: 93.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	10,700.00	48,000.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-13 - 11/10/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 04/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 51.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,800.00	2,690.00	26,600.00		13.00
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-13 - 05/23/2023: Tomato

**Tomatoes-Processing**

Sample and source description: Tomatoes-Processing

Sample date: 09/29/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	10,700.00	48,000.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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PV-2 - 11/24/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 54.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,600.00	2,670.00	22,600.00		11.60
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-2 - 05/22/2023: Tomato

**Tomatoes-Processing**

Sample and source description: Tomatoes-Processing

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

Moisture: 93.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	10,700.00	48,000.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-3 - 11/24/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 54.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,700.00	1,950.00	16,500.00		7.84
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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PV-3 - 05/20/2023: Tomato

**Tomatoes-Processing**

Sample and source description: Tomatoes-Processing

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

Moisture: 93.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	10,700.00	48,000.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-4 - 11/25/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 53.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,900.00	2,450.00	21,800.00		10.20
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-4 - 05/19/2023: Tomato

**Tomatoes-Processing**

Sample and source description: Tomatoes-Processing

Sample date: 09/25/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	10,700.00	48,000.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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PV-5 - 12/07/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 05/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 54.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	9,450.00	1,740.00	9,940.00		9.65
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-5 - 05/16/2023: Tomato

**Tomatoes-Processing**

Sample and source description: Tomatoes-Processing

Sample date: 09/23/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	10,700.00	48,000.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-7 - 11/20/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

Sample date: 05/09/2023 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>	16,100.00	2,450.00	21,400.00		14.20
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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PV-7 - 05/14/2023: Tomato

**Tomatoes-Processing**

Sample and source description: Tomatoes-Processing

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

Moisture: 93.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	10,700.00	48,000.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-8 - 11/11/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 69.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	20,200.00	3,010.00	29,300.00		14.20
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-8 - 05/12/2023: Tomato

**Tomatoes-Processing**

Sample and source description: Tomatoes-Processing

Sample date: 09/18/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 93.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,300.00	10,700.00	48,000.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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PV-9 - 11/22/2019: Alfalfa, hay

**Alfalfa Haylage**

Sample and source description: Alfalfa Haylage

Sample date: 04/26/2023 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>	25,200.00	2,420.00	30,300.00		11.80
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PV-9 - 07/14/2023: Sudangrass, silage

**Sudan Silage**

Sample and source description: Sudan Silage

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

Moisture: 47.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,500.00	1,950.00	24,600.00		12.70
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-21 - 11/22/2022: 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: 39.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,000.00	1,490.00	6,240.00		8.55
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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PVE-21 - 11/22/2022: 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: 39.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,000.00	1,490.00	10,300.00		8.55
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-21 - 06/20/2023: Corn, silage

**Corn Silages**

Sample and source description: Corn Silages

Sample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	9,700.00	1,092.00	10,200.00		6.60
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-22 - 01/12/2019: Almond, in shell

**Almonds**

Sample and source description: Almonds

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

Moisture: 5.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	68,400.00	10,500.00	52,600.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

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PVE-23 - 01/01/2018: Almond, in shell

**Almonds**

Sample and source description: Almonds

Sample date: 10/01/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 5.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	68,400.00	10,500.00	52,600.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-24 - 01/02/2018: Almond, in shell

**Almonds**

Sample and source description: Almonds

Sample date: 10/01/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 5.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	68,400.00	10,500.00	52,600.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-25 - 11/23/2022: 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: 50.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	9,600.00	1,660.00	9,610.00		7.69
<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.

PVE-25 - 07/02/2023: Corn, silage

Corn Silages

Sample and source description: Corn Silages

Sample date: 10/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,300.00	1,730.00	10,200.00		4.60
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-26 - 11/23/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 51.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	8,730.00	1,610.00	9,820.00		8.92
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-26 - 06/21/2023: Corn, silage

Corn Silages

Sample and source description: Corn Silages

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

Moisture: 61.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,200.00	1,075.00	7,310.00		5.70
<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.*

PVE-27 - 11/25/2022: 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: 48.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,400.00	1,770.00	9,320.00		8.63
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-27 - 07/11/2023: Corn, silage

**Corn Silages**

Sample and source description: Corn Silages

Sample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 50.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,000.00	2,740.00	20,200.00		5.86
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-28 - 11/27/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 57.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,200.00	1,490.00	10,800.00		10.10
<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.*

PVE-28 - 07/01/2023: Corn, silage

**Corn Silages**

Sample and source description: Corn Silages

Sample date: 10/24/2023 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>	10,500.00	1,590.00	12,100.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-29 - 01/10/2019: Almond, in shell

**Almonds**

Sample and source description: Almonds

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

Moisture: 5.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	68,400.00	10,500.00	52,600.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-30 - 01/03/2018: Almond, in shell

**Almonds**

Sample and source description: Almonds

Sample date: 10/01/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 5.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	68,400.00	10,500.00	52,600.00		4.50
<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.*

PVE-31 - 01/04/2018: Almond, in shell

**Almonds**

Sample and source description: Almonds

Sample date: 10/01/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 5.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	68,400.00	10,500.00	52,600.00		4.50
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-32 - 11/02/2022: 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: 55.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,500.00	1,600.00	11,200.00		9.30
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-32 - 07/12/2023: Corn, silage

**Corn Silages**

Sample and source description: Corn Silages

Sample date: 11/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,300.00	2,510.00	16,900.00		5.76
<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.*

PVE-33 - 11/04/2022: 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: 56.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	9,840.00	1,660.00	11,000.00		9.48
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-33 - 07/02/2023: Corn, silage

**Corn Silages**

Sample and source description: Corn Silages

Sample date: 10/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	9,600.00	1,530.00	9,950.00		3.60
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-34 - 11/05/2022: Wheat, silage, soft dough

**Winter Forage**

Sample and source description: Winter Forage

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

Moisture: 56.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	9,830.00	1,460.00	10,500.00		9.72
<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.*

PVE-34 - 07/12/2023: Corn, silage

**Corn Silages**

Sample and source description: Corn Silages

Sample date: 11/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,400.00	2,550.00	19,000.00		6.32
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-35 - 11/07/2022: 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: 51.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,300.00	1,550.00	9,640.00		9.15
<b>DL</b>	1,000.00	1,000.00	1,000.00		0.10

PVE-35 - 07/13/2023: Corn, silage

**Corn Silages**

Sample and source description: Corn Silages

Sample date: 11/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,900.00	3,760.00	20,100.00		5.11
<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.*

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

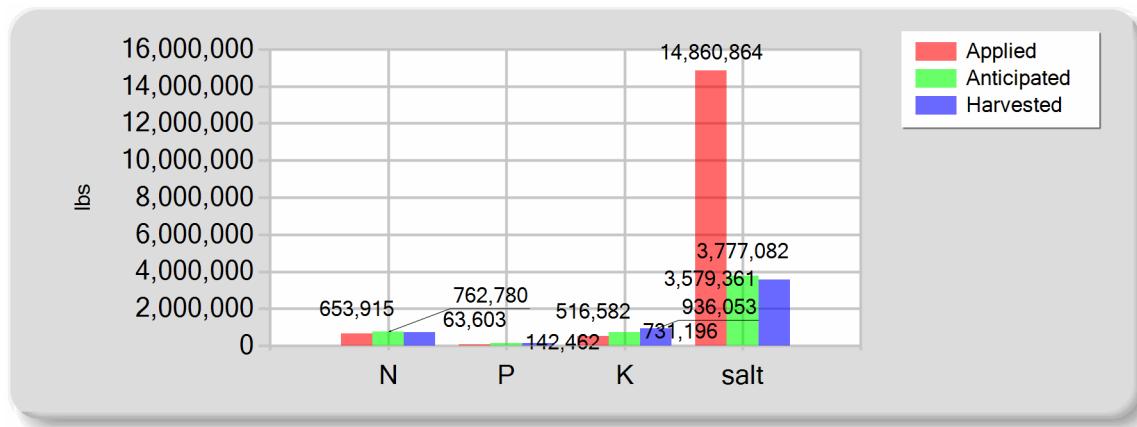
*No subsurface (tile) drainage analyses entered.*

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

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

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	131,325.00	0.00	0.00	0.00
Dry manure	151,407.70	50,427.00	251,501.49	2,128,576.80
Process wastewater	170,645.97	13,176.28	265,080.99	1,374,449.54
Fresh water	171,723.88	0.00	0.00	11,357,837.65
Atmospheric deposition	28,812.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>653,914.55</b>	<b>63,603.28</b>	<b>516,582.48</b>	<b>14,860,863.99</b>
Anticipated crop nutrient removal	762,780.00	142,462.00	731,196.00	3,777,082.00
Actual crop nutrient removal	716,759.27	146,519.41	936,052.70	3,579,361.13
<b>Nutrient balance</b>	<b>-62,844.72</b>	<b>-82,916.13</b>	<b>-419,470.22</b>	<b>11,281,502.86</b>
Applied to removed ratio	0.91	0.43	0.55	4.15

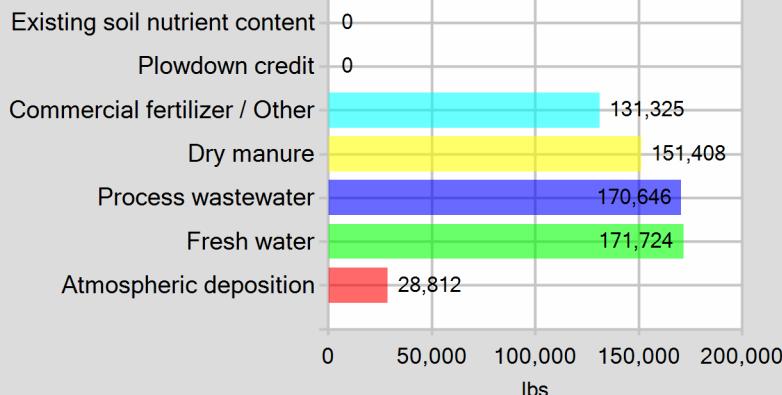
**B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL**

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

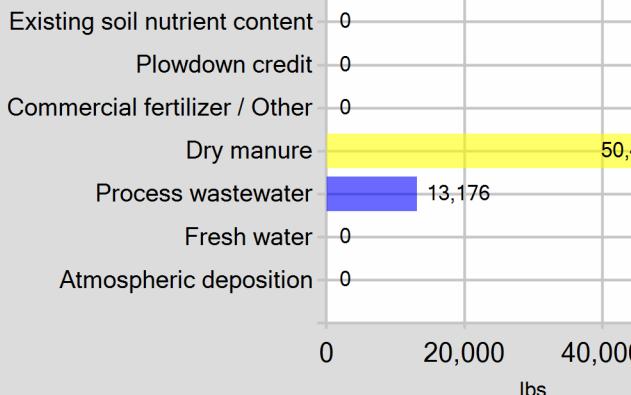
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

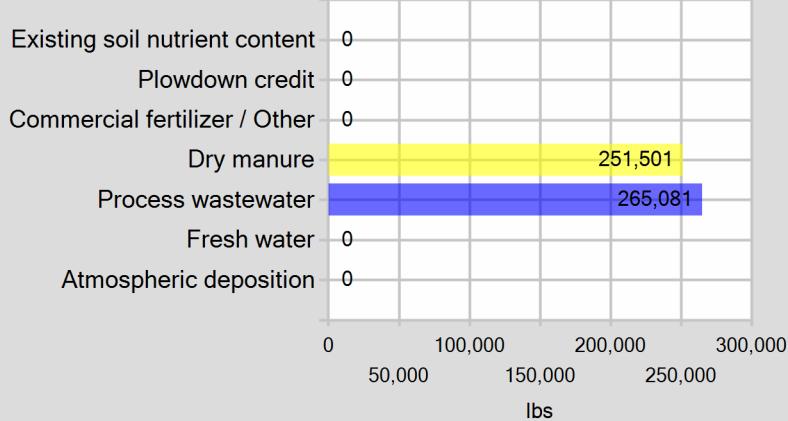
Pounds of nitrogen applied



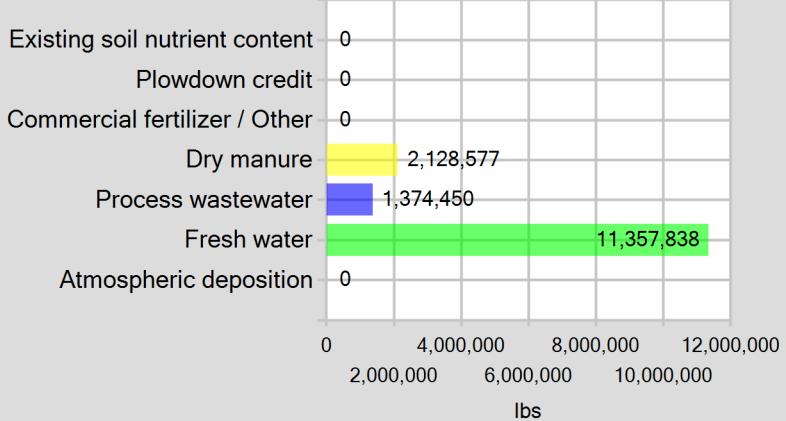
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

**EXCEPTION REPORTING**

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

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

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

**B. STORM WATER DISCHARGES**

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

*No stormwater discharges occurred during the reporting period.*

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

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

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

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

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

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

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

**B. EXPORT AGREEMENT STATEMENT**

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

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

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

**ADDITIONAL NOTES**

**A. NOTES**

Philip Verwey Dairy #1 Inc.

Almonds are irrigated with Micro Sprinklers. Applications are weekly at the same rate each irrigation. Fertigation is also utilized and Uan-32 was applied at 25 lbs per acre the first application and 3 additional times at 20 pounds during the growing season.

Winter Forage, Corn Silage, and Tomatoes are Sub-Surface drip tape irrigated. Winter Forage applications are applied dependent on weather and CS and tomatoes are weekly at the same rate each irrigation with a total of 50 units of Uan-32 applied to the Tomatoes and 80 units of uan-32 to the Corn silages through Fertigation.

Fields 9 and 10 are still flood or furrow irrigated.

Additional manures are held as bedding and used throughout the following year.

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

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

**CERTIFICATION**

**A. OWNER AND/OR OPERATOR CERTIFICATION**

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

---

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

---

Philip Verwey

---

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

---

DATE

---

DATE

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

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

**ATTACHMENTS**

**A. REQUIRED ATTACHMENTS**

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

**Annual Dairy Facility Assessment**

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

**Manure/Process Wastewater Tracking Manifests**

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

**Corrective Actions Documents**

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

**Groundwater Monitoring**

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

**Storm Water Monitoring**

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

**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: Philip Verwey

Name of Dairy Facility: Philip Verwey Dairy, Inc.

Facility Address:

12852 Road 9 Number and Street	Madera City	Madera County	93637 Zip Code
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Contact Person Name and Phone Number:	<u>Philip Verwey</u> Name	(559) 318-6303 Phone Number
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**MANURE HAULER INFORMATION**

Name of Hauling Company/Person: Azevedo Brothers Trucking

Address of Hauling Company/Person:

6465 State Hwy 152 Number and Street	Dos Palos City	CA State	93620 Zip Code
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Contact Person:	<u>Frank Azevedo</u> Name	(209) 387-4290 Phone Number
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**DESTINATION INFORMATION**

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

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

Azevedo Brothers Trucking Name	(209) 387-4290 Phone Number
-----------------------------------	--------------------------------

6465 W. Hyway 152 Address	Dos Palos City	CA State	93620 Zip Code
------------------------------	-------------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

6465 W. Hyway 152 Address	Dos Palos City	93620 Zip Code
------------------------------	-------------------	-------------------

State Hwy 152 Street and nearest cross street (if no address)	Merced County
--	------------------

Assessor's Parcel Number      Assessor's Parcel Number County

Last date hauled: 12/01/2023

**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: 4,375.00 tons

Manure Solids Content: 88.8 %

Method used to determine amount of manure:

Averaged scale weighed trucks multiplied by the number of trucks hauled.

**CERTIFICATION**

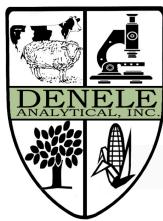
I declare under penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Operator Signature

Date

*Frank Azevedo*  
Hauler Signature

*06-20-2024*  
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**

PHILIP VERWEY DAIRY  
19765 13th Ave  
Hanford, CA 95230

**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)

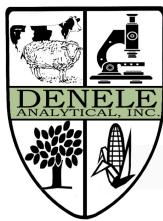
SOURCE: Well Water

NOTES: Temperature was above qualifying at 22.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#27B	T3229026A	Electrical Conductivity (EC)	EPA 120.1 and	1.12	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	6.86	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	717	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	97.8	91.0 (T3229026A)	94.6 (T3229026A)	3.87
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	103	99.7 (T3229026A)	97.3 (T3229026A)	2.46

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

## Compliance Analysis Report

**Customer**

PHILIP VERWEY DAIRY  
19765 13th Ave  
Hanford, CA 95230

**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)

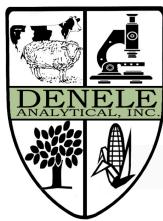
SOURCE: Well Water

NOTES: Temperature was above qualifying at 23.4c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#27A	T3229026B	Electrical Conductivity (EC)	EPA 120.1 and	1.38	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	7.06	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	881	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	97.8	91.0 (T3229026A)	94.6 (T3229026A)	3.87
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	103	99.7 (T3229026A)	97.3 (T3229026A)	2.46

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## Denele Analytical, Inc.

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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**

PHILIP VERWEY DAIRY  
19765 13th Ave  
Hanford, CA 95230

**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)

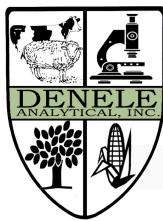
SOURCE: Well Water

NOTES: Temperature was above qualifying at 24.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#31	T3229026C	Electrical Conductivity (EC)	EPA 120.1 and	1.09	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	5.85	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	699	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	97.8	91.0 (T3229026A)	94.6 (T3229026A)	3.87
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	103	99.7 (T3229026A)	97.3 (T3229026A)	2.46

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Irrigation/ Ground Water (H1)

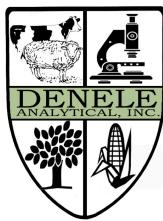
SOURCE: Well Water

NOTES: Temperature was above qualifying at 22.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#32	T3229026D	Electrical Conductivity (EC)	EPA 120.1 and	1.13	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	8.55	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	722	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	97.8	91.0 (T3229026A)	94.6 (T3229026A)	3.87
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	103	99.7 (T3229026A)	97.3 (T3229026A)	2.46

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Irrigation/ Ground Water (H1)

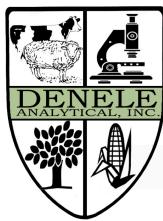
SOURCE: Well Water

NOTES: Temperature was above qualifying at 20.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#35 A	T3229026E	Electrical Conductivity (EC)	EPA 120.1 and	0.592	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	2.32	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	379	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	97.8	91.0 (T3229026A)	94.6 (T3229026A)	3.87
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	103	99.7 (T3229026A)	97.3 (T3229026A)	2.46

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Irrigation/ Ground Water (H1)

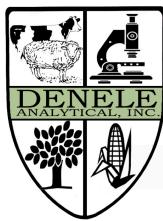
SOURCE: Well Water

NOTES: Temperature was above qualifying at 23.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#27	T3229026F	Electrical Conductivity (EC)	EPA 120.1 and	0.879	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	9.10	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	563	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	97.8	91.0 (T3229026A)	94.6 (T3229026A)	3.87
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	103	99.7 (T3229026A)	97.3 (T3229026A)	2.46

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Irrigation/ Ground Water (H1)

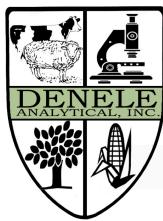
SOURCE: Well Water

NOTES: Temperature was above qualifying at 19.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#26A	T3229026G	Electrical Conductivity (EC)	EPA 120.1 and	0.491	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	3.66	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	314	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	97.8	91.0 (T3229026A)	94.6 (T3229026A)	3.87
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	103	99.7 (T3229026A)	97.3 (T3229026A)	2.46

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Irrigation/ Ground Water (H1)

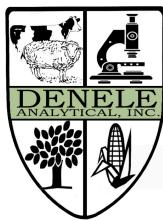
SOURCE: Well Water

NOTES: Temperature was above qualifying at 20.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#24	T3229026H	Electrical Conductivity (EC)	EPA 120.1 and	0.650	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	5.11	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	416	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	97.8	91.0 (T3229026A)	94.6 (T3229026A)	3.87
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	103	99.7 (T3229026A)	97.3 (T3229026A)	2.46

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ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 24.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#22	T3229026I	Electrical Conductivity (EC)	EPA 120.1 and	0.912	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	4.67	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	584	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	97.8	91.0 (T3229026A)	94.6 (T3229026A)	3.87
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	103	99.7 (T3229026A)	97.3 (T3229026A)	2.46

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Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 24.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#29A	T32290262	Electrical Conductivity (EC)	EPA 120.1 and	1.362	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	9.67	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	880	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	97.8	91.0 (T3229026A)	94.6 (T3229026A)	3.87
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	103	99.7 (T3229026A)	97.3 (T3229026A)	2.46

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**DENELE ANALYTICAL, INC.**  
865 S. KILROY  
TURLOCK, CA 95380

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

Client: PHILIP VERWEY DAIRY, INC.  
Mailing address: 19765 13th Avenue, Hanford CA 93706  
(not facility address)  
Phone#: 559-908-0836

**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
8-17-23	1020	# 27B		22.6	X	
1	1025	# 27A		23.4	X	
2	1030	# 31		24.0	X	
3	1040	# 32		22.8	X	
4	1050	# 35 A		20.8	X	
5	1055	# 27		23.2	X	
6	1105	# 26 A		19.6	X	
7	1110	# 24		20.6	X	
8						
9	1120	# 22		24.2	X	
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:
2nd	DENELE ANALYTICAL, INC.	8/17/23 1440		LABORATORY NUMBER T3229026

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

**DAIRY COMPLIANCE**

Authorized Copy Released To:

hlcdn@yahoo.com

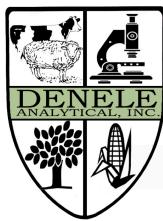
Sampled By: Daniel Roos

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



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Merced, CA 95344

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Irrigation/ Ground Water (H1)

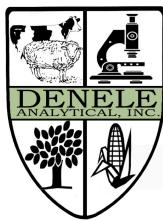
SOURCE: Well Water

NOTES: Temperature was above qualifying at 16.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#10	T3229025A	Electrical Conductivity (EC)	EPA 120.1 and	0.611	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	1.64	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	391	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.6	94.0 (T3229020B)	92.8 (T3229020B)	1.28
Electrical Conductivity (EC)	100			0.032
Nitrate Nitrogen (NO3-N)	110	93.9 (T3229020B)	92.7 (T3229020B)	1.29

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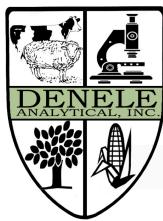
SOURCE: Well Water

NOTES: Temperature was above qualifying at 19.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#13	T3229025B	Electrical Conductivity (EC)	EPA 120.1 and	0.926	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	13.6	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	593	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.6	94.0 (T3229020B)	92.8 (T3229020B)	1.28
Electrical Conductivity (EC)	100			0.032
Nitrate Nitrogen (NO3-N)	110	93.9 (T3229020B)	92.7 (T3229020B)	1.29

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Irrigation/ Ground Water (H1)

SOURCE: Well Water

NOTES: Temperature was above qualifying at 19.4c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#8	T3229025C	Electrical Conductivity (EC)	EPA 120.1 and	1.35	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	36.9	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	861	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.6	94.0 (T3229020B)	92.8 (T3229020B)	1.28
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	110	93.9 (T3229020B)	92.7 (T3229020B)	1.29

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## Denele Analytical, Inc.

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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**

PHILIP VERWEY DAIRY  
19765 13th Ave  
Hanford, CA 95230

**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
D-12	T3229025D	Electrical Conductivity (EC)	EPA 120.1 and	2.21	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	75.8	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	1410	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.6	94.0 (T3229020B)	92.8 (T3229020B)	1.28
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	110	93.9 (T3229020B)	92.7 (T3229020B)	1.29

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Irrigation/ Ground Water (H1)

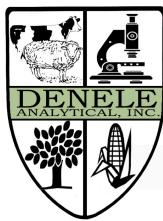
SOURCE: Well Water

NOTES: Temperature was above qualifying at 18.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#6	T3229025E	Electrical Conductivity (EC)	EPA 120.1 and	0.830	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	6.43	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	531	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.6	94.0 (T3229020B)	92.8 (T3229020B)	1.28
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	110	93.9 (T3229020B)	92.7 (T3229020B)	1.29

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Hanford, CA 95230

**Grower****Consultant:**

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Merced, CA 95344

**PURCHASE ORDER:**

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SUBMITTED BY: Dan  
ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

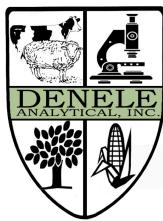
SOURCE: Well Water

NOTES: Temperature was above qualifying at 16.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#3B	T3229025F	Electrical Conductivity (EC)	EPA 120.1 and	0.857	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	19.2	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	548	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.6	94.0 (T3229020B)	92.8 (T3229020B)	1.28
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	110	93.9 (T3229020B)	92.7 (T3229020B)	1.29

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Irrigation/ Ground Water (H1)

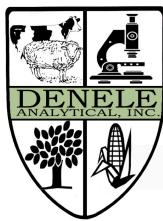
SOURCE: Well Water

NOTES: Temperature was above qualifying at 15.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#2	T3229025G	Electrical Conductivity (EC)	EPA 120.1 and	1.26	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	29.7	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	803	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.6	94.0 (T3229020B)	92.8 (T3229020B)	1.28
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	110	93.9 (T3229020B)	92.7 (T3229020B)	1.29

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ANALYZED DATE: 8/18/23

Irrigation/ Ground Water (H1)

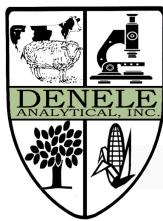
SOURCE: Well Water

NOTES: Temperature was above qualifying at 22.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
D-11	T3229025I	Electrical Conductivity (EC)	EPA 120.1 and	1.40	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	20.8	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	897	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.6	94.0 (T3229020B)	92.8 (T3229020B)	1.28
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	110	93.9 (T3229020B)	92.7 (T3229020B)	1.29

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Irrigation/ Ground Water (H1)

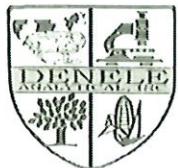
SOURCE: Well Water

NOTES: Temperature was above qualifying at 22.4c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#1	T3229025J	Electrical Conductivity (EC)	EPA 120.1 and	1.08	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	6.61	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	691	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.6	94.0 (T3229020B)	92.8 (T3229020B)	1.28
Electrical Conductivity (EC)	100			0.612
Nitrate Nitrogen (NO3-N)	110	93.9 (T3229020B)	92.7 (T3229020B)	1.29

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**DENELE ANALYTICAL, INC.**  
865 S. KILROY  
TURLOCK, CA 95380

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

Client: PHILIP VERWEY DAIRY, INC.  
Mailing address: 19765 13th Avenue, Hanford CA 93706  
(not facility address)  
Phone#: 559-908-0836

**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	8-17-23	0900	# 10		16.8	X				
2		0905	# 13		19.8	X				
3		0915	# 8		19.4	X				
4		0920	D-12		18.8	X				
5		0925	# 6		18.6	X				
6		0935	# 3B		16.2	X				
7		0940	# 2		15.6	X				
8		0950	16-NORTH-3		21.2			X		
9	N	1005	D-11		22.8	X				
10	8-17-23	1010	# 1		22.4	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: LABORATORY NUMBER
2nd 	DENELE ANALYTICAL, INC.	8/17/23 1440		T3229025

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

Q