

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 StreetMadera
CityMadera
County93637
Zip Code

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

Date facility was originally placed in operation: 05/01/2000Regional 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**B. OPERATORS**

Verwey, Philip

Operator name: Verwey, PhilipTelephone no.: (559) 908-0836

Landline Cellular

19765 13th AvenueHanford
CityCA
State 93230
Zip Code

Mailing Address Number and Street

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

Verwey, Philip

Legal owner name: Verwey, PhilipTelephone no.: (559) 908-0836

Landline Cellular

19765 13th AvenueHanford
CityCA
State 93230
Zip Code

Mailing Address Number and Street

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

Total phosphorus generated: 13,176.28 lbs

Total potassium generated: 265,080.99 lbs

Total salt generated: 1,374,449.54 lbs

	30,984,000 gallons applied
+	0 gallons exported
-	0 gallons imported
=	30,984,000 gallons generated

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 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	Dry-weight		62.2	29,900.00	3,790.00	38,300.00		11.90
05/24/2023	96.00 <i>ton</i>	Dry-weight		5.6	33,500.00	3,400.00	36,200.00		10.20
06/26/2023	88.00 <i>ton</i>	Dry-weight		5.6	33,500.00	3,400.00	36,200.00		10.20
07/12/2023	82.00 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	Dry-weight		69.2	20,200.00	3,010.00	29,300.00		14.20
04/25/2023	1,630.00 <i>ton</i>	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 <i>ton</i>	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

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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 <i>ton</i>	Dry-weight		59.4	25,200.00	2,420.00	30,300.00		11.80
05/25/2023	93.00 <i>ton</i>	Dry-weight		5.6	33,500.00	3,400.00	36,200.00		10.20
06/28/2023	82.00 <i>ton</i>	Dry-weight		5.6	33,500.00	3,400.00	36,200.00		10.20
07/12/2023	56.00 <i>ton</i>	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 <i>ton</i>	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

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

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 <i>ton</i>	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 <i>ton</i>	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 <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	1.41	182.60	28.03	140.42	120.13

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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 <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	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 <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	181.94	27.93	139.92	119.70

PVE-32

Field name: PVE-32

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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 ton	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 ton	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 ton	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 ton	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 ton	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 ton	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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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
Uan-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)	Amount
Lagoon Water Application	Process wastewater	218.84	9.07	459.57	2,125.90	1,536,000.00 <i>gal</i>
2	Ground water	27.28	0.00	0.00	737.44	4,512,000.00 <i>gal</i>
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)	Amount
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	16,128,000.00 <i>gal</i>
2		Ground water	97.49	0.00	0.00	2,635.96	16,128,000.00 <i>gal</i>
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)	Amount
1	Ground water	6.45	0.00	0.00	674.67	11,232,000.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
10		Ground water	1.13	0.00	0.00	270.53	7,959,600.00 <i>gal</i>
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 <i>gal</i>
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)	Amount
1	Ground water	6.10	0.00	0.00	637.69	10,616,400.00 <i>gal</i>
Application event totals		6.10	0.00	0.00	637.69	

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)	Amount
Lagoon Water Application	Process wastewater	164.94	6.83	346.37	1,602.24	480,000.00 <i>gal</i>
2	Ground water	19.24	0.00	0.00	520.32	1,320,000.00 <i>gal</i>
Application event totals		184.18	6.83	346.37	2,122.56	

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)	Amount
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	5,544,000.00 <i>gal</i>
1		Ground water	17.99	0.00	0.00	1,880.52	5,544,000.00 <i>gal</i>
Application event totals			148.82	0.00	0.00	4,065.85	

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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 <i>gal</i>
2	Ground water	188.95	0.00	0.00	5,108.55	12,960,000.00 <i>gal</i>
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 <i>gal</i>
10	Ground water	5.22	0.00	0.00	1,243.74	6,480,000.00 <i>gal</i>
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 <i>gal</i>
1	Ground water	4.48	0.00	0.00	468.68	7,884,000.00 <i>gal</i>
Application event totals		111.44	4.43	224.60	1,507.66	
01/16/2023	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	122.84	10.92	46.75	574.49	1,776,000.00 <i>gal</i>
2	Ground water	20.14	0.00	0.00	544.65	7,884,000.00 <i>gal</i>
Application event totals		142.99	10.92	46.75	1,119.14	
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
1	Ground water	6.02	0.00	0.00	629.19	10,584,000.00 <i>gal</i>
Application event totals		6.02	0.00	0.00	629.19	

PV-2 - 05/22/2023: Tomato

Field name: PV-2

Crop: Tomato

Plant date: 05/22/2023

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)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations		Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
1		Ground water	22.11	0.00	0.00	2,311.31	38,880,000.00 <i>gal</i>
2		Ground water	99.34	0.00	0.00	2,685.94	38,880,000.00 <i>gal</i>
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 <i>gal</i>
3B		Ground water	17.13	0.00	0.00	488.85	10,476,000.00 <i>gal</i>
Application event totals			125.85	4.50	228.32	1,545.02	
02/24/2023	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	121.59	10.81	46.28	568.63	1,776,000.00 <i>gal</i>
3B		Ground water	17.60	0.00	0.00	502.46	10,767,600.00 <i>gal</i>
Application event totals			139.19	10.81	46.28	1,071.09	
04/12/2023	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	5.68	0.00	0.00	468.80	10,368,000.00 <i>gal</i>
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 <i>gal</i>
6		Ground water	21.29	0.00	0.00	1,758.01	38,880,000.00 <i>gal</i>
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 <i>gal</i>
6	Ground water	5.80	0.00	0.00	478.57	10,476,000.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
6	Ground water	5.84	0.00	0.00	482.02	10,551,600.00 <i>gal</i>
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)	Amount
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	38,880,000.00 <i>gal</i>
3B		Ground water	64.22	0.00	0.00	1,833.00	38,880,000.00 <i>gal</i>
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)	Amount
Lagoon Water Application	Process wastewater	73.02	3.03	153.34	709.33	1,200,000.00 <i>gal</i>
3B	Ground water	17.30	0.00	0.00	493.89	10,368,000.00 <i>gal</i>
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)	Amount
6	Ground water	5.75	0.00	0.00	475.08	10,292,400.00 <i>gal</i>
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)	Amount
Lagoon Water Application	Process wastewater	61.39	2.11	118.17	504.71	1,152,000.00 <i>gal</i>
10	Ground water	1.42	0.00	0.00	337.71	9,936,000.00 <i>gal</i>
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)	Amount
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	40,176,000.00 gal
6	Ground water	22.46	0.00	0.00	1,854.46	40,176,000.00 gal
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)	Amount
Lagoon Water Application	Process wastewater	107.38	4.45	225.51	1,043.16	1,728,000.00 gal
6	Ground water	5.70	0.00	0.00	470.65	9,984,000.00 gal
Application event totals		113.08	4.45	225.51	1,513.81	

04/13/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	95.34	3.28	183.53	783.90	1,752,000.00 gal
3B	Ground water	16.69	0.00	0.00	476.38	9,792,000.00 gal
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)	Amount
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	40,320,000.00 <i>gal</i>
10	Ground water	5.87	0.00	0.00	1,399.57	40,320,000.00 <i>gal</i>
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)	Amount
Lagoon Water Application	Process wastewater	107.29	4.44	225.32	1,042.27	1,800,000.00 <i>gal</i>
10	Ground water	1.35	0.00	0.00	322.83	9,696,000.00 <i>gal</i>
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	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 <i>gal</i>
1	Ground water	5.57	0.00	0.00	581.82	9,888,000.00 <i>gal</i>
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 <i>gal</i>
10		Ground water	5.79	0.00	0.00	1,380.80	41,472,000.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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)	Amount
8	Ground water	35.27	0.00	0.00	823.01	10,080,000.00 <i>gal</i>
Application event totals		35.27	0.00	0.00	823.01	

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)	Amount
8	Ground water	34.70	0.00	0.00	809.69	9,916,800.00 <i>gal</i>
Application event totals		34.70	0.00	0.00	809.69	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Application	Process wastewater	150.35	31.11	165.29	1,091.80	3,216,000.00 <i>gal</i>
10	Ground water	1.58	0.00	0.00	377.31	10,176,000.00 <i>gal</i>
Application event totals		151.93	31.11	165.29	1,469.11	
09/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
8	Ground water	35.27	0.00	0.00	823.01	10,080,000.00 <i>gal</i>
Application event totals		35.27	0.00	0.00	823.01	

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 <i>ton</i>	
Application event totals			277.24	92.34	460.52	3,897.60		
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	
22		Ground water	4.56	0.00	0.00	570.55	9,600,000.00 <i>gal</i>	
Application event totals			4.56	0.00	0.00	570.55		
04/12/2023	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	
22		Ground water	4.43	0.00	0.00	554.15	9,324,000.00 <i>gal</i>	
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 <i>gal</i>
24		Ground water	18.72	0.00	0.00	1,524.08	36,000,000.00 <i>gal</i>
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-22

Crop: Almond, in shell

Plant 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)	Amount
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	24,960,000.00 gal
29A	Ground water	53.00	0.00	0.00	4,823.59	49,920,000.00 gal
Application event totals		150.80	0.00	0.00	6,424.14	

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

Field name: PVE-23

Crop: Almond, in shell

Plant 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)	Amount
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	49,920,000.00 gal
22	Ground water	12.63	0.00	0.00	1,579.77	24,960,000.00 gal
Application event totals		149.95	0.00	0.00	6,340.71	

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

Field name: PVE-24

Crop: Almond, in shell

Plant 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)	Amount
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	24,960,000.00 <i>gal</i>
29A	Ground water	52.32	0.00	0.00	4,760.94	49,920,000.00 <i>gal</i>
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)	Amount
Manure Application	Corral solids	207.93	69.25	345.39	2,923.20	456.00 <i>ton</i>
Application event totals		207.93	69.25	345.39	2,923.20	

11/08/2022	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
24	Ground water	4.98	0.00	0.00	405.62	8,880,000.00 <i>gal</i>
Application event totals		4.98	0.00	0.00	405.62	

04/20/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
26A	Ground water	3.67	0.00	0.00	314.44	9,120,000.00 <i>gal</i>
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)	Amount
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	33,120,000.00 <i>gal</i>
26A	Ground water	13.31	0.00	0.00	1,141.91	33,120,000.00 <i>gal</i>
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)	Amount
Manure Application	Corral solids	207.93	69.25	345.39	2,923.20	438.00 <i>ton</i>
Application event totals		207.93	69.25	345.39	2,923.20	

11/11/2022	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
26A	Ground water	3.61	0.00	0.00	310.13	8,640,000.00 <i>gal</i>
Application event totals		3.61	0.00	0.00	310.13	

04/20/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
26A	Ground water	3.63	0.00	0.00	311.42	8,676,000.00 <i>gal</i>
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)	Amount
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	21,120,000.00 <i>gal</i>
27A	Ground water	34.09	0.00	0.00	4,254.06	42,240,000.00 <i>gal</i>
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)	Amount
Manure Application	Corral solids	207.93	69.25	345.39	2,923.20	534.00 <i>ton</i>
Application event totals		207.93	69.25	345.39	2,923.20	

11/08/2022	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
26A	Ground water	3.46	0.00	0.00	296.77	10,080,000.00 <i>gal</i>
Application event totals		3.46	0.00	0.00	296.77	

04/20/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
27B	Ground water	6.58	0.00	0.00	688.15	10,236,000.00 <i>gal</i>
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)	Amount
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	77,760,000.00 <i>gal</i>
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)	Amount
Manure Application	Corral solids	207.93	69.25	345.39	2,923.20	510.00 <i>ton</i>
Application event totals		207.93	69.25	345.39	2,923.20	

11/09/2022	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
29A	Ground water	9.23	0.00	0.00	839.76	9,720,000.00 <i>gal</i>
Application event totals		9.23	0.00	0.00	839.76	

04/15/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
22	Ground water	4.36	0.00	0.00	545.60	9,516,000.00 <i>gal</i>
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)	Amount
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	24,000,000.00 <i>gal</i>
29A		Ground water	50.97	0.00	0.00	4,638.06	48,000,000.00 <i>gal</i>
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)	Amount
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	24,960,000.00 <i>gal</i>
29A		Ground water	51.65	0.00	0.00	4,699.90	49,920,000.00 <i>gal</i>
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)	Amount
Manure Application		Corral solids	207.93	69.25	345.39	2,923.20	468.00 <i>ton</i>
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 <i>gal</i>
Application event totals			3.34	0.00	0.00	286.22	
11/12/2023	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
31		Ground water	5.46	0.00	0.00	652.42	8,724,000.00 <i>gal</i>
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 <i>gal</i>
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 <i>ton</i>
Application event totals		190.60	63.48	316.61	2,679.60	
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)	Amount
35A	Ground water	2.15	0.00	0.00	351.07	8,880,000.00 <i>gal</i>
Application event totals		2.15	0.00	0.00	351.07	
04/20/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
27B	Ground water	6.24	0.00	0.00	652.49	8,724,000.00 <i>gal</i>
Application event totals		6.24	0.00	0.00	652.49	

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

Field name: PVE-33

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)	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 <i>gal</i>
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

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

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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 <i>ton</i>
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 <i>gal</i>
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 <i>gal</i>
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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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 <i>ton</i>
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)	Amount
35A	Ground water	2.26	0.00	0.00	368.99	8,400,000.00 <i>gal</i>
Application event totals		2.26	0.00	0.00	368.99	
04/21/2023	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	2.30	0.00	0.00	375.84	8,556,000.00 <i>gal</i>
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 <i>gal</i>
32	Ground water	41.86	0.00	0.00	3,534.72	42,240,000.00 <i>gal</i>
Application event totals		127.54	0.00	0.00	4,462.46	

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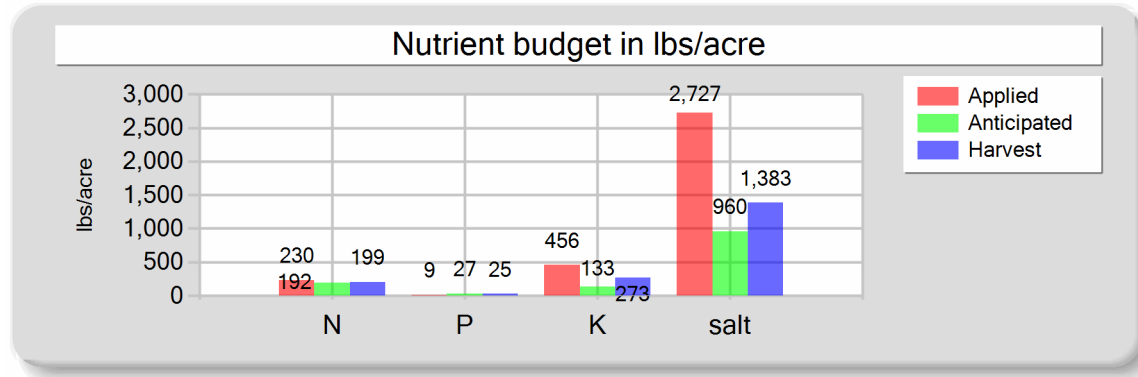
B. NUTRIENT BUDGET

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)	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	3.96 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	216.97	8.99	455.64	2,107.71	Process wastewater applied
Fresh water	5.93	0.00	0.00	619.48	1,560,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	57.45 acre-inches
Total nutrients applied	229.90	8.99	455.64	2,727.18	1.37 inches/acre
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	Total harvests for the crop
Nutrient balance	30.53	-15.76	183.13	1,344.63	1 harvests
Applied to removed ratio	1.15	0.36	1.67	1.97	

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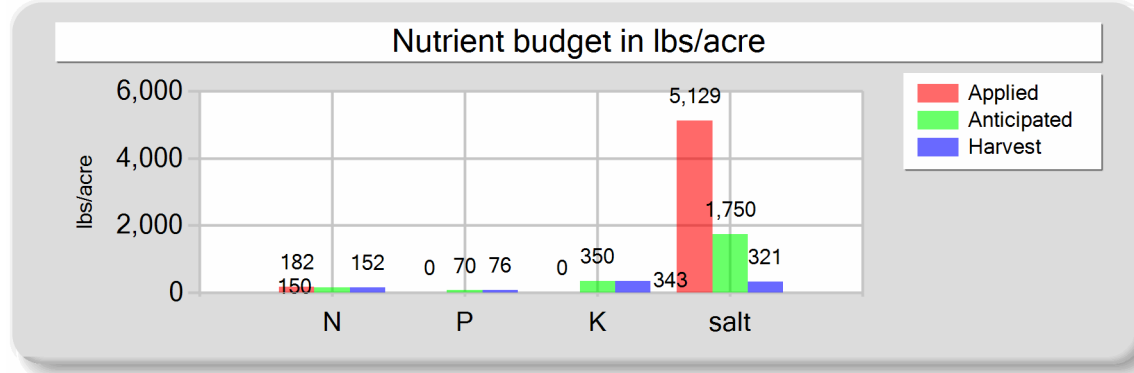
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,272.73 <i>acre-inches</i>
30.30 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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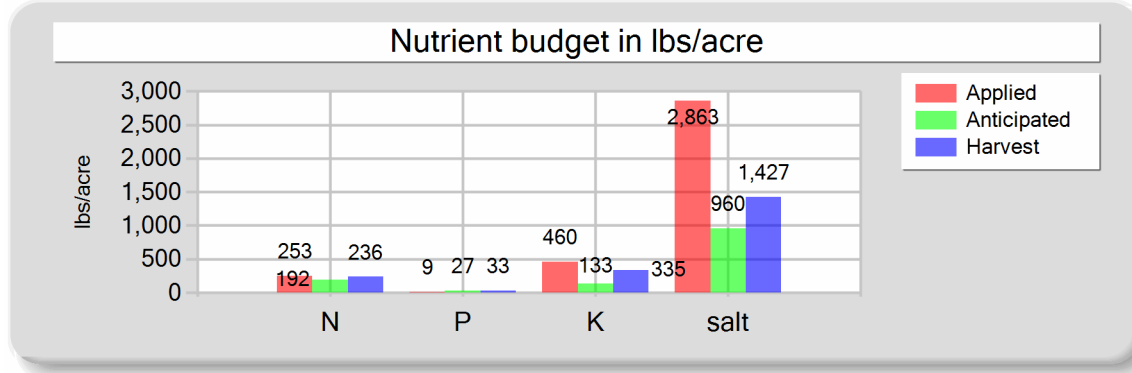
Reporting period 01/01/2023 to 12/31/2023.

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)
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	218.84	9.07	459.57	2,125.90
Fresh water	27.28	0.00	0.00	737.44
Atmospheric deposition	7.00	0.00	0.00	0.00
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

Fresh water applied
4,512,000.00 <i>gallons</i>
166.16 <i>acre-inches</i>
4.05 <i>inches/acre</i>

Process wastewater applied
1,536,000.00 <i>gallons</i>
56.57 <i>acre-inches</i>
1.38 <i>inches/acre</i>

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

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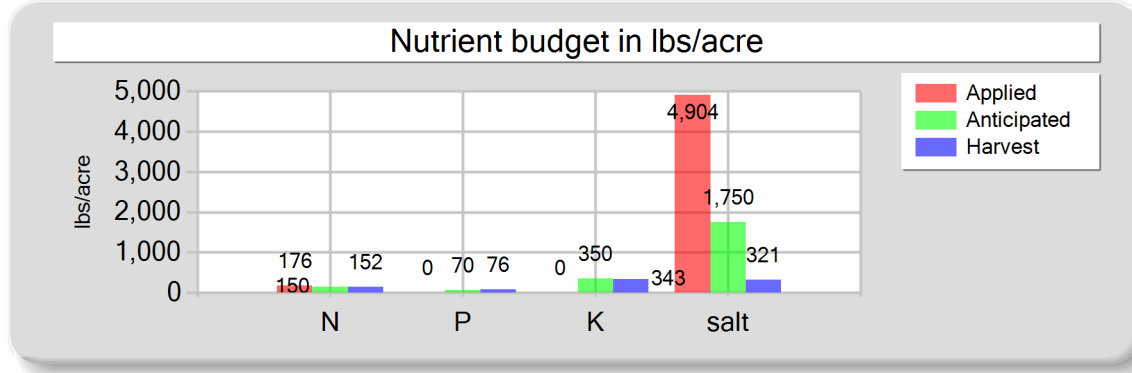
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,187.88 <i>acre-inches</i>
28.97 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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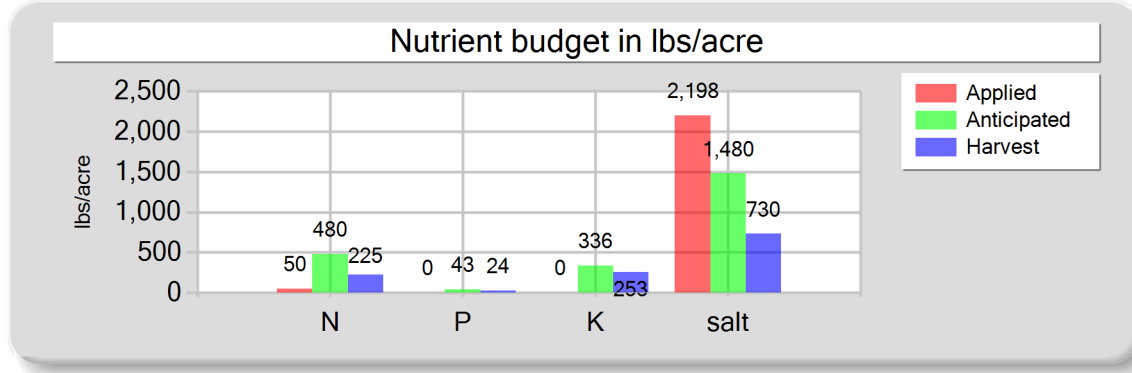
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: PV-10

Crop: Alfalfa, hay

Plant date: 11/20/2019



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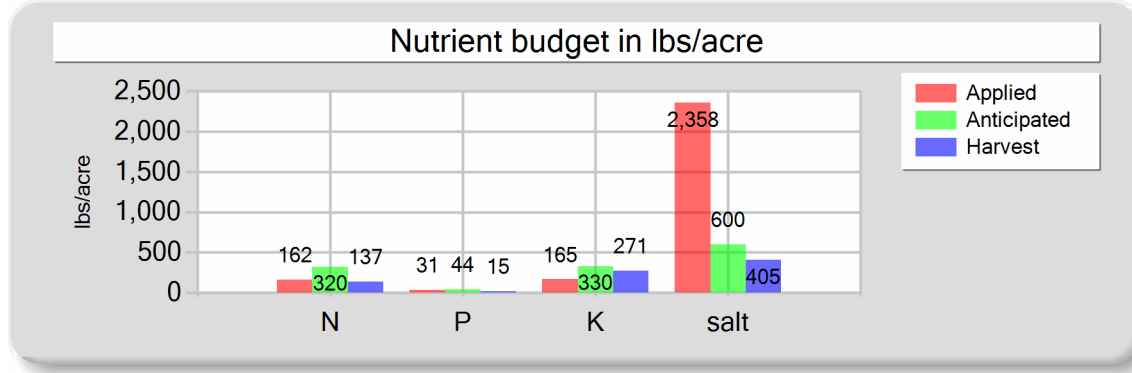
Reporting period 01/01/2023 to 12/31/2023.

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	29,160,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,073.86 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	11.19 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	150.16	31.07	165.09	1,090.44	Process wastewater applied
Fresh water	8.74	0.00	0.00	1,267.96	3,504,000.00 <i>gallons</i>
Atmospheric deposition	2.80	0.00	0.00	0.00	129.04 <i>acre-inches</i>
Total nutrients applied	161.71	31.07	165.09	2,358.40	1.34 <i>inches/acre</i>
Anticipated crop nutrient removal	320.00	44.00	330.00	600.00	
Actual crop nutrient removal	137.41	15.21	270.64	404.57	Total harvests for the crop
Nutrient balance	24.29	15.86	-105.56	1,953.83	1 <i>harvests</i>
Applied to removed ratio	1.18	2.04	0.61	5.83	

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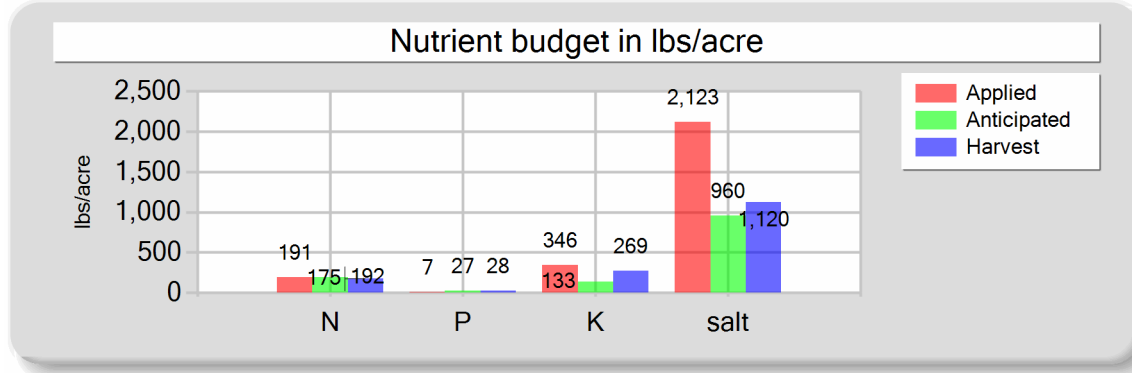
Reporting period 01/01/2023 to 12/31/2023.

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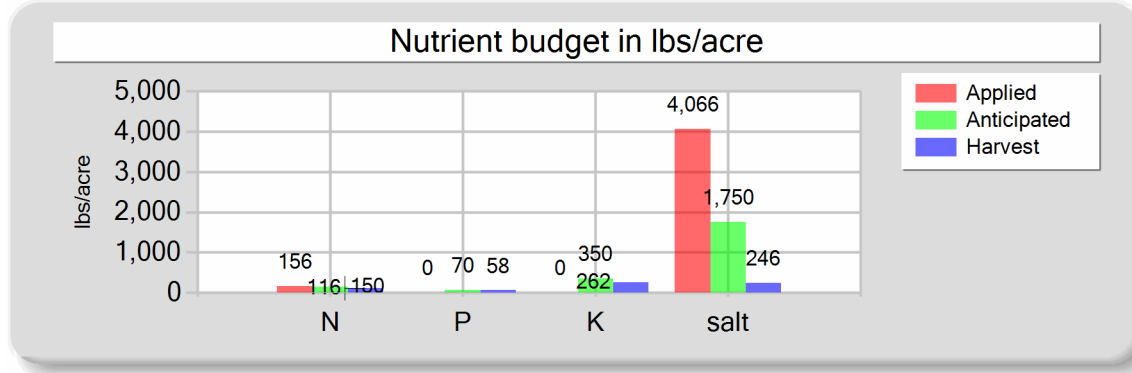
Reporting period 01/01/2023 to 12/31/2023.

PV-11 - 05/25/2023: Tomato

Field name: PV-11

Crop: Tomato

Plant date: 05/25/2023



	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 <i>gallons</i>
408.33 <i>acre-inches</i>
24.02 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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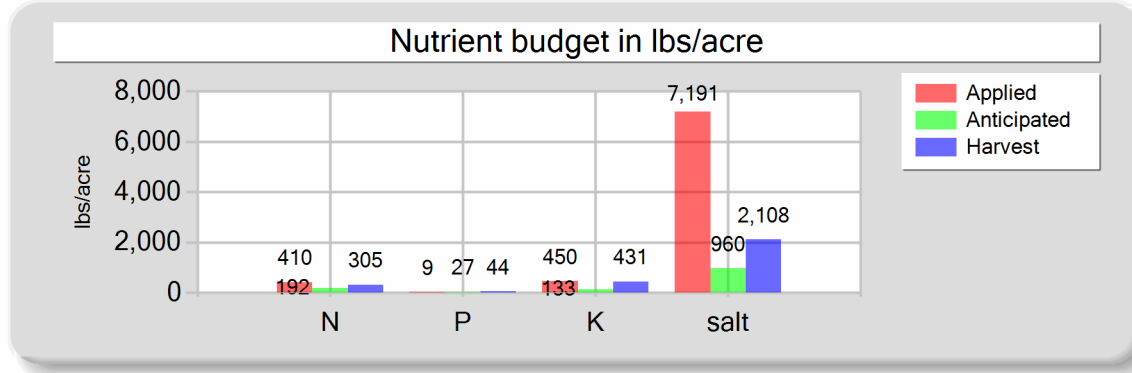
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
477.27 <i>acre-inches</i>
28.07 <i>inches/acre</i>

Process wastewater applied
624,000.00 <i>gallons</i>
22.98 <i>acre-inches</i>
1.35 <i>inches/acre</i>

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

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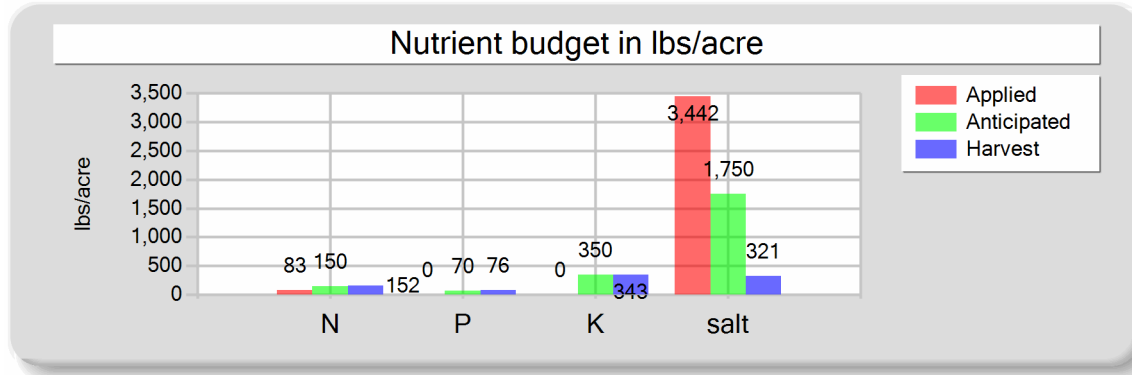
Reporting period 01/01/2023 to 12/31/2023.

PV-13 - 05/23/2023: Tomato

Field name: PV-13

Crop: Tomato

Plant date: 05/23/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	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 <i>gallons</i>
477.27 <i>acre-inches</i>
28.07 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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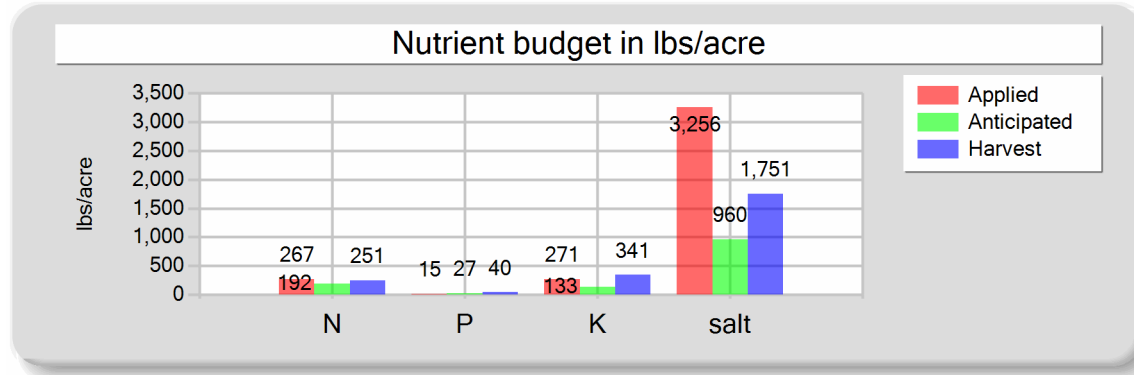
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: PV-2

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022



	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 <i>gallons</i>
970.45 <i>acre-inches</i>
10.00 <i>inches/acre</i>

Process wastewater applied
3,552,000.00 <i>gallons</i>
130.81 <i>acre-inches</i>
1.35 <i>inches/acre</i>

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

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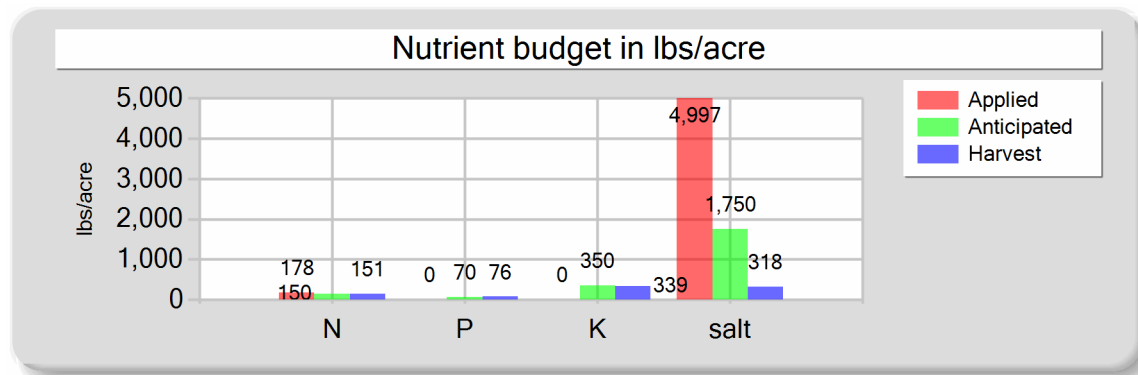
Reporting period 01/01/2023 to 12/31/2023.

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

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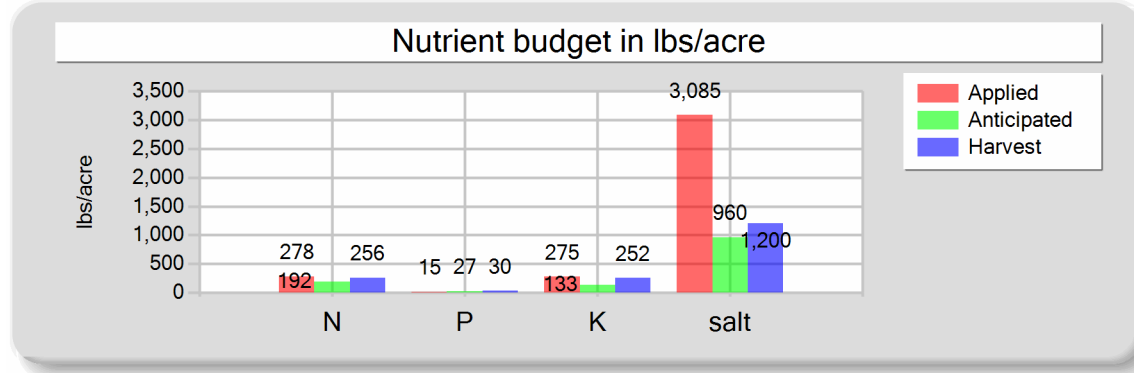
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: PV-3

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022



	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 <i>gallons</i>
1,164.15 <i>acre-inches</i>
11.88 <i>inches/acre</i>

Process wastewater applied
3,600,000.00 <i>gallons</i>
132.58 <i>acre-inches</i>
1.35 <i>inches/acre</i>

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

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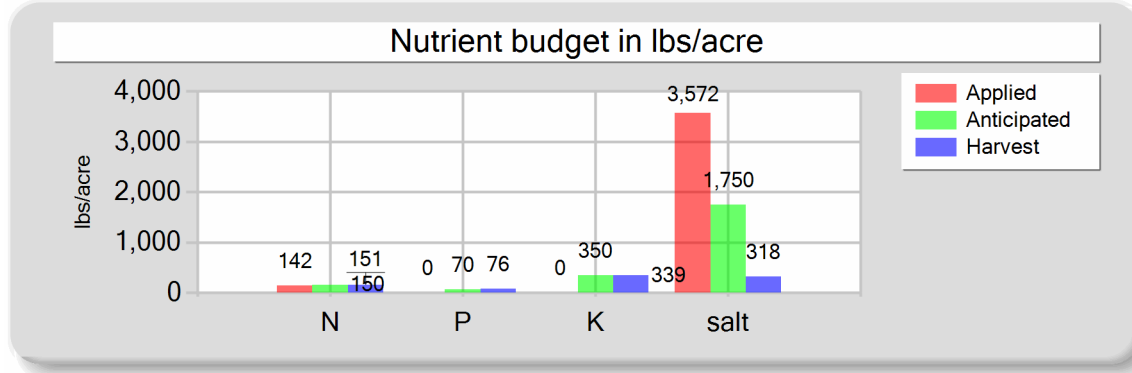
Reporting period 01/01/2023 to 12/31/2023.

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

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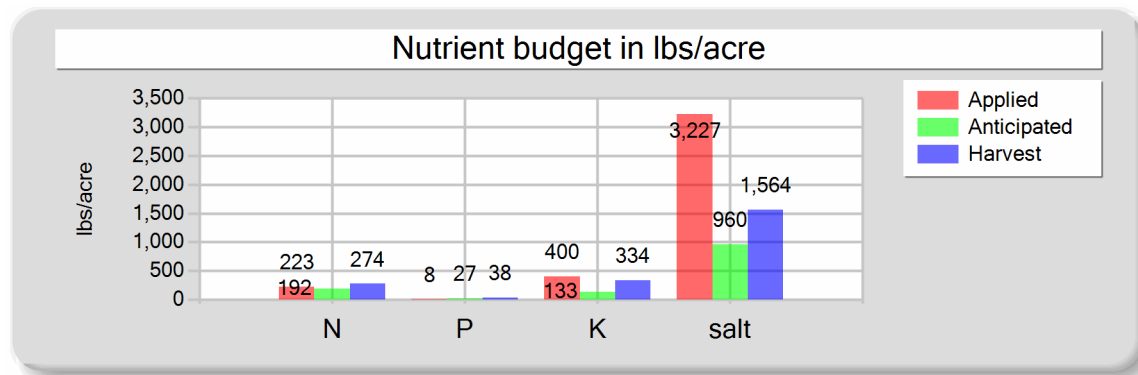
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: PV-4

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022



	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 <i>gallons</i>
1,160.17 <i>acre-inches</i>
11.96 <i>inches/acre</i>

Process wastewater applied
3,504,000.00 <i>gallons</i>
129.04 <i>acre-inches</i>
1.33 <i>inches/acre</i>

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

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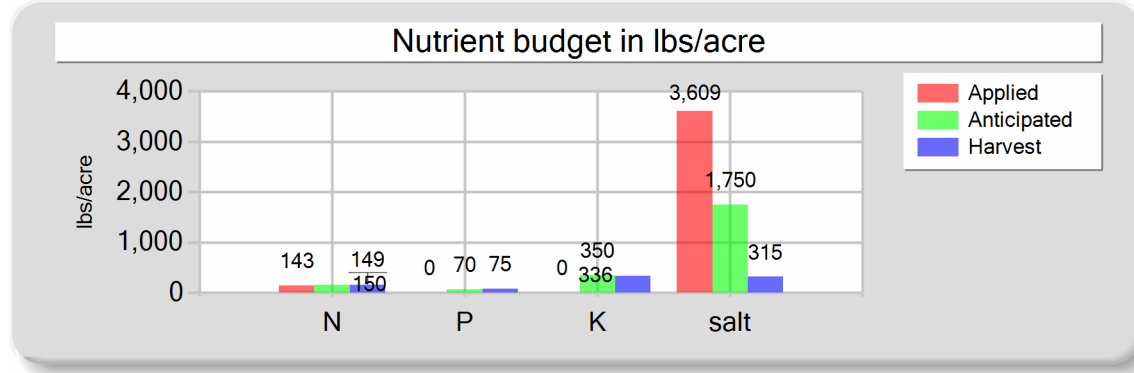
Reporting period 01/01/2023 to 12/31/2023.

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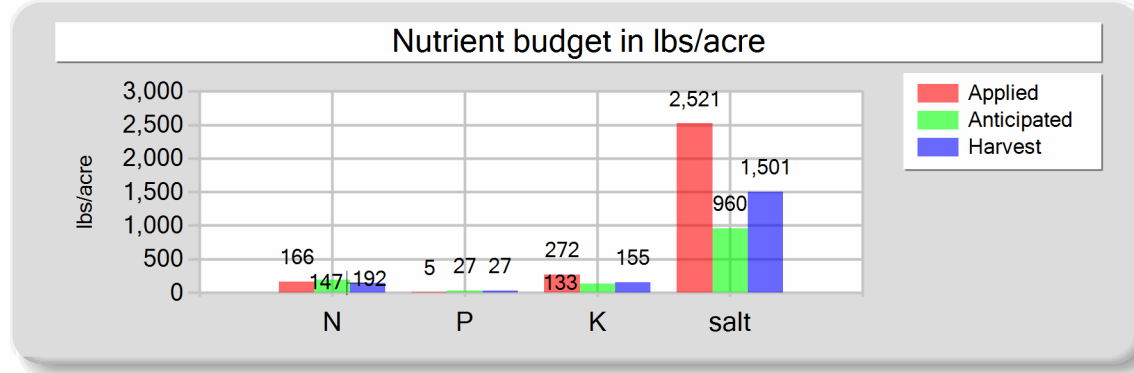
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,126.76 <i>acre-inches</i>
11.74 <i>inches/acre</i>

Process wastewater applied
2,352,000.00 <i>gallons</i>
86.62 <i>acre-inches</i>
0.90 <i>inches/acre</i>

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

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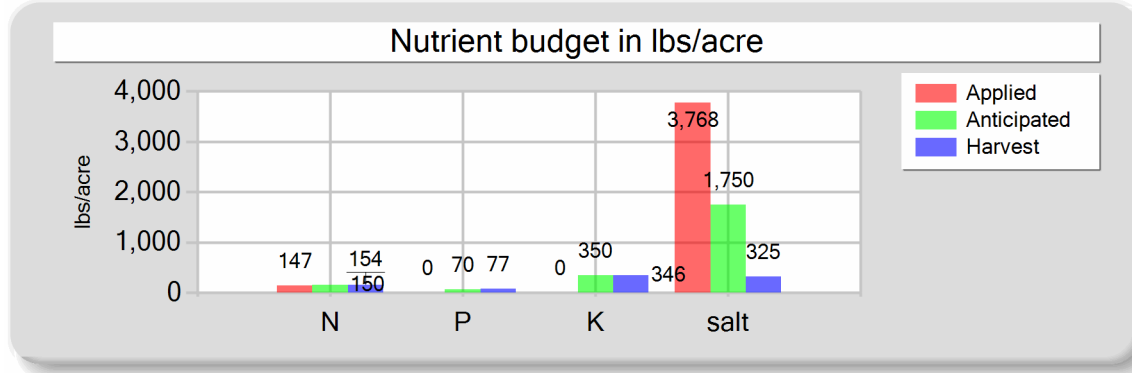
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,959.09 <i>acre-inches</i>
30.82 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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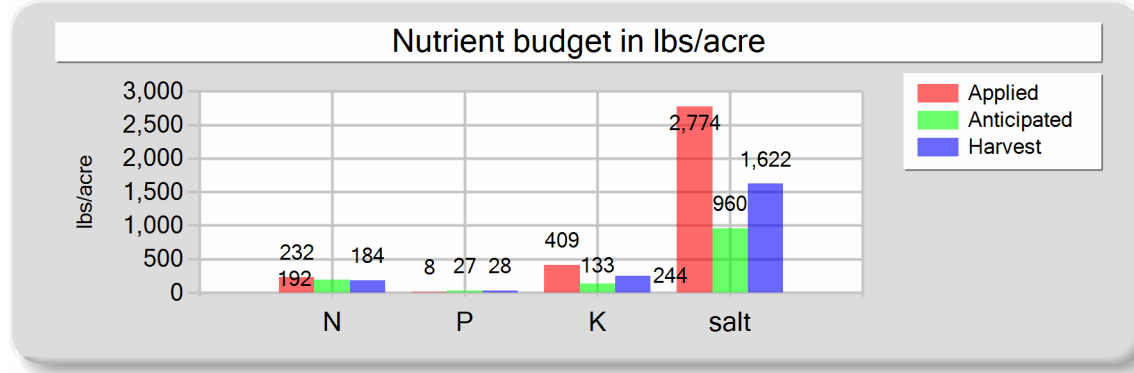
Reporting period 01/01/2023 to 12/31/2023.

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)
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	202.73	7.73	409.04	1,827.06
Fresh water	22.39	0.00	0.00	947.03
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	232.12	7.73	409.04	2,774.09
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
Nutrient balance	48.21	-20.25	164.60	1,152.09
Applied to removed ratio	1.26	0.28	1.67	1.71

Fresh water applied
19,776,000.00 <i>gallons</i>
728.28 <i>acre-inches</i>
7.75 <i>inches/acre</i>

Process wastewater applied
3,480,000.00 <i>gallons</i>
128.16 <i>acre-inches</i>
1.36 <i>inches/acre</i>

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

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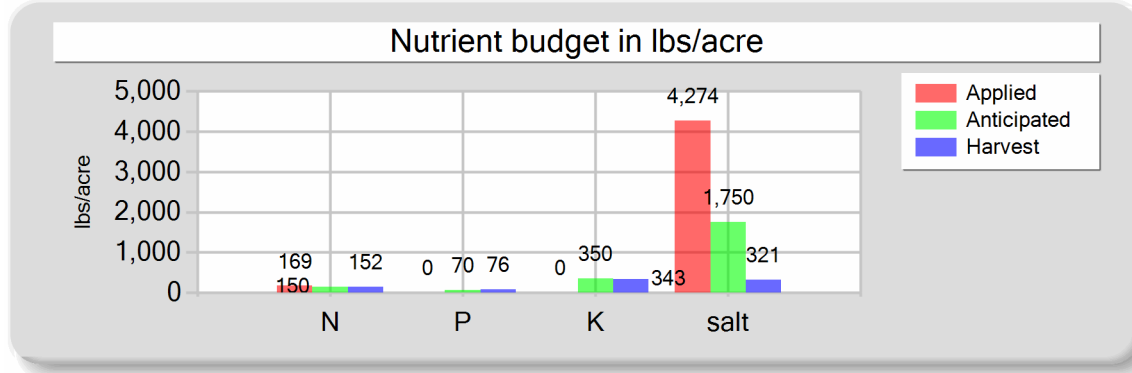
Reporting period 01/01/2023 to 12/31/2023.

PV-7 - 05/14/2023: Tomato

Field name: PV-7

Crop: Tomato

Plant date: 05/14/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	80,640,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,969.70 <i>acre-inches</i>
Commercial fertilizer / Other	50.00	0.00	0.00	0.00	31.59 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	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	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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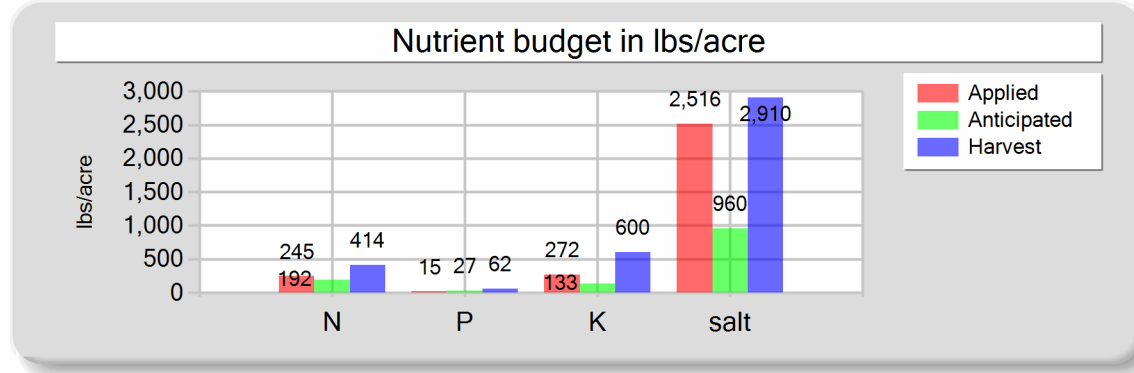
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
721.21 <i>acre-inches</i>
7.36 <i>inches/acre</i>

Process wastewater applied
3,576,000.00 <i>gallons</i>
131.69 <i>acre-inches</i>
1.34 <i>inches/acre</i>

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

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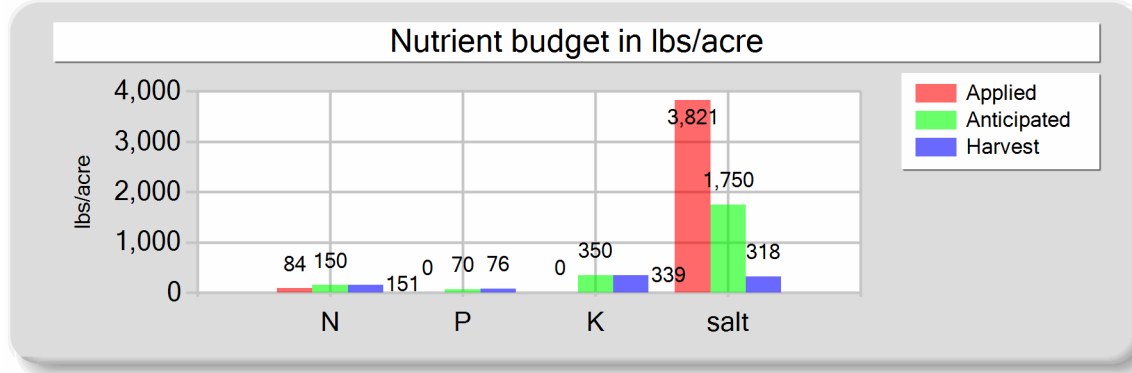
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
3,054.55 <i>acre-inches</i>
31.17 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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

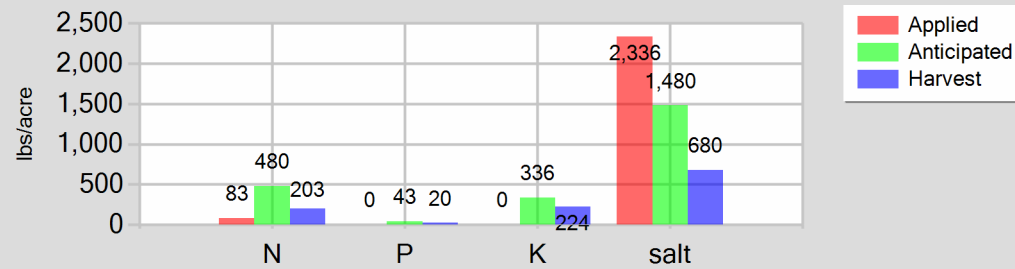
PV-9 - 11/22/2019: Alfalfa, hay

Field name: PV-9

Crop: Alfalfa, hay

Plant date: 11/22/2019

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	39,235,200.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,444.90 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.42 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	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	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					4 <i>harvests</i>

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

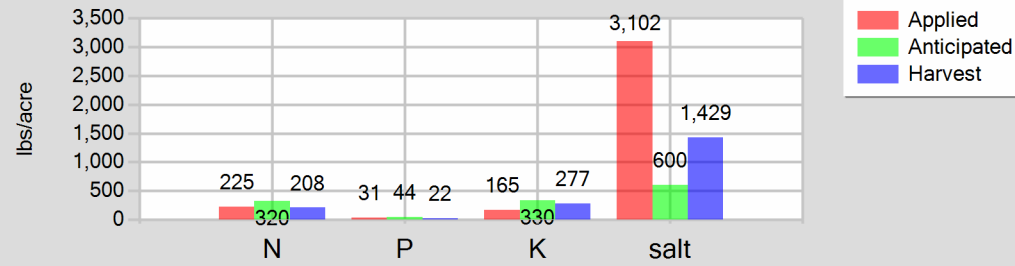
PV-9 - 07/14/2023: Sudangrass, silage

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 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,111.16 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.63 <i>inches/acre</i>
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 <i>gallons</i>
Atmospheric deposition	2.80	0.00	0.00	0.00	118.43 <i>acre-inches</i>
Total nutrients applied	224.71	31.11	165.29	3,101.81	1.35 <i>inches/acre</i>
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 <i>harvests</i>
Applied to removed ratio	1.08	1.42	0.60	2.17	

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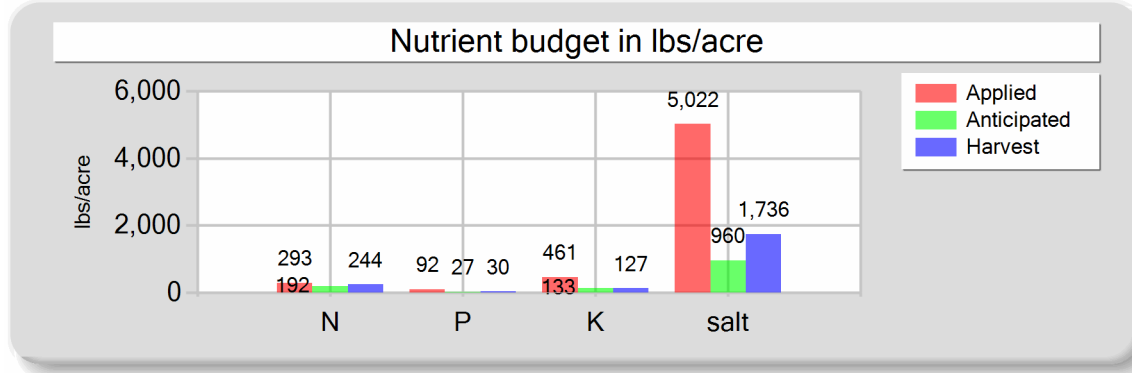
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	696.91 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	8.50 <i>inches/acre</i>
Dry manure	277.24	92.34	460.52	3,897.60	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	8.99	0.00	0.00	1,124.70	
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	
Applied to removed ratio	1.20	3.05	3.64	2.89	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

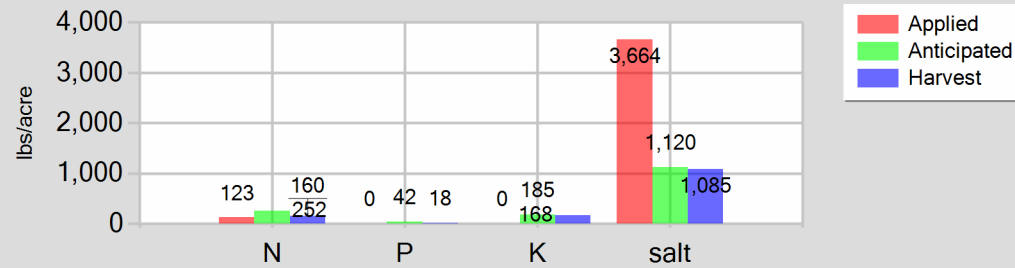
PVE-21 - 06/20/2023: Corn, silage

Field name: PVE-21

Crop: Corn, silage

Plant date: 06/20/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	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 <i>gallons</i>
2,651.52 <i>acre-inches</i>
32.34 <i>inches/acre</i>
Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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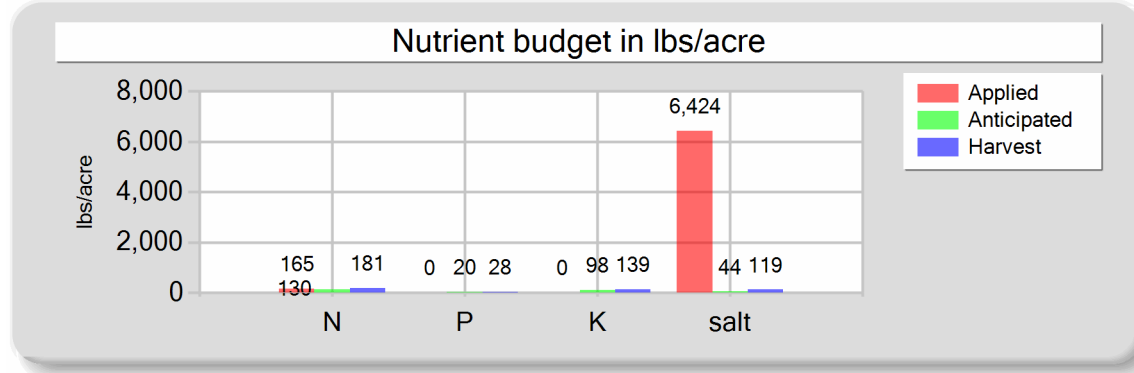
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,757.58 <i>acre-inches</i>
36.28 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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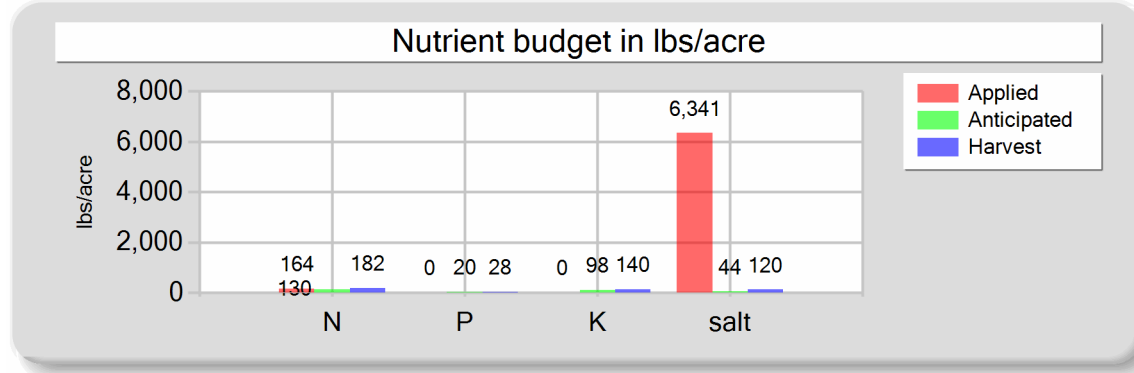
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,757.58 <i>acre-inches</i>
35.81 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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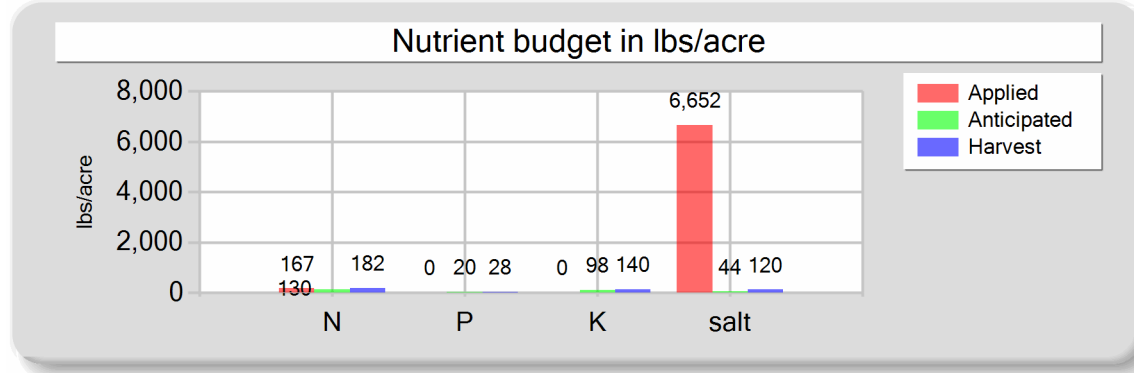
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,757.58 <i>acre-inches</i>
35.81 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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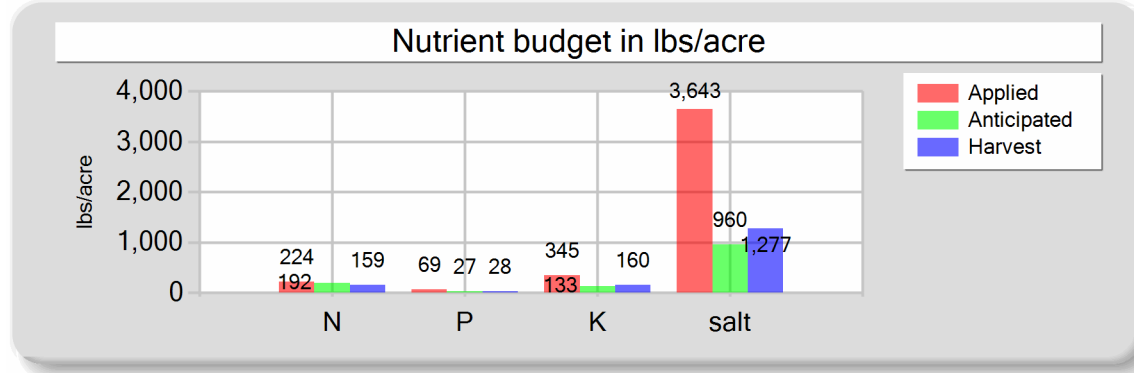
Reporting period 01/01/2023 to 12/31/2023.

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)
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	8.65	0.00	0.00	720.06
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	223.58	69.25	345.39	3,643.26
Anticipated crop nutrient removal	192.00	27.20	132.80	960.00
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

Fresh water applied
18,000,000.00 <i>gallons</i>
662.88 <i>acre-inches</i>
8.72 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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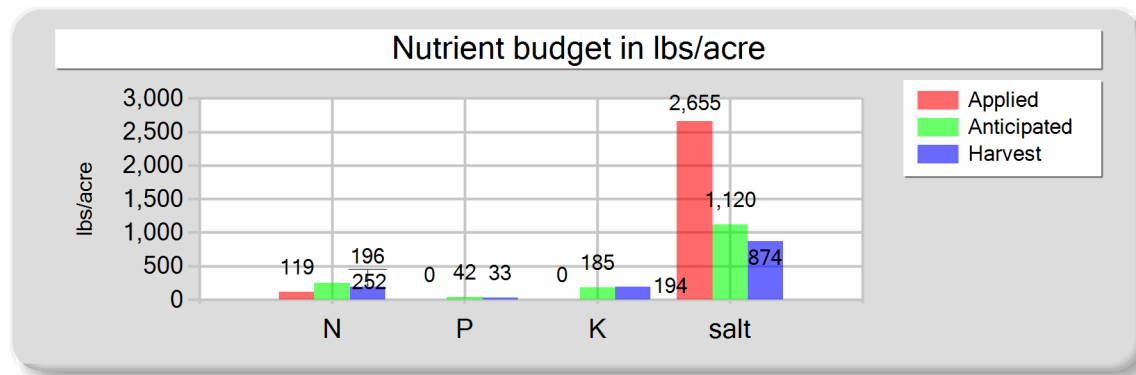
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,439.39 <i>acre-inches</i>
32.10 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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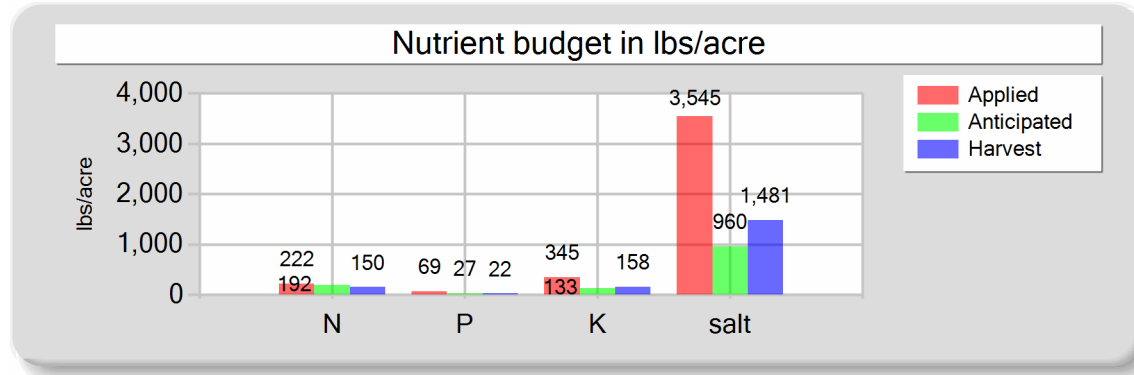
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
637.69 <i>acre-inches</i>
8.74 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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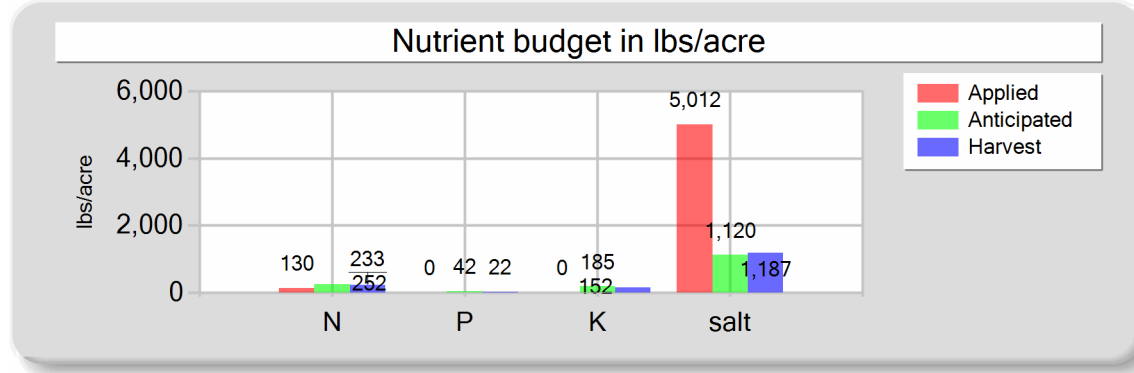
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,333.33 <i>acre-inches</i>
31.96 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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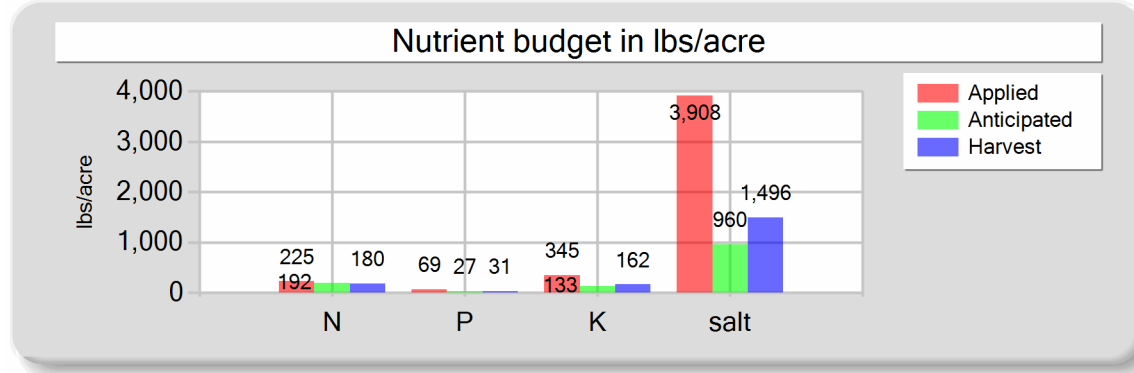
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
748.17 <i>acre-inches</i>
8.41 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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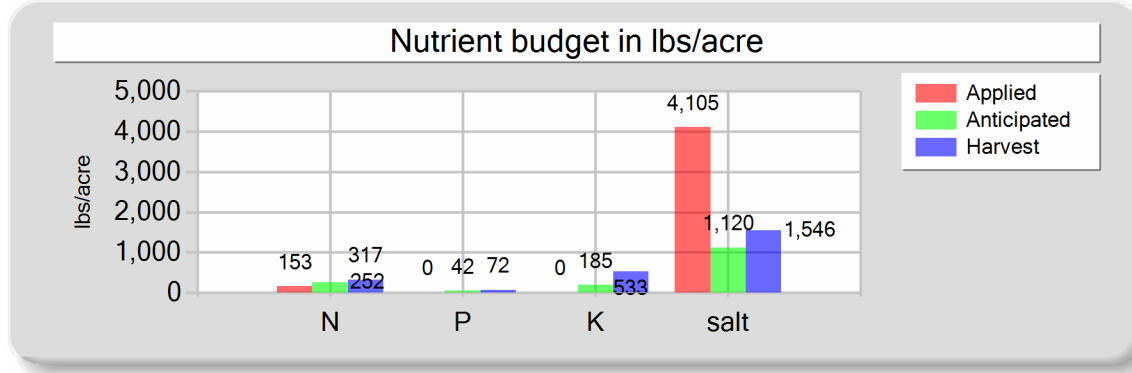
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: PVE-27

Crop: Corn, silage

Plant date: 07/11/2023



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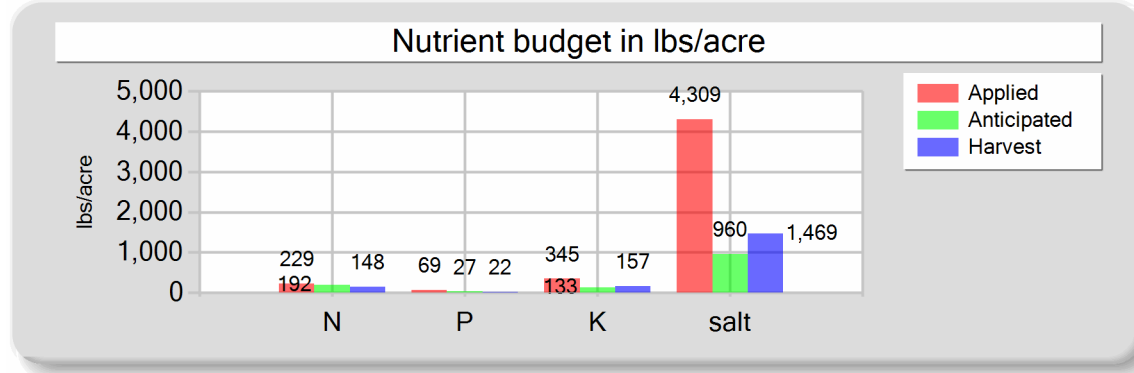
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
708.40 <i>acre-inches</i>
8.33 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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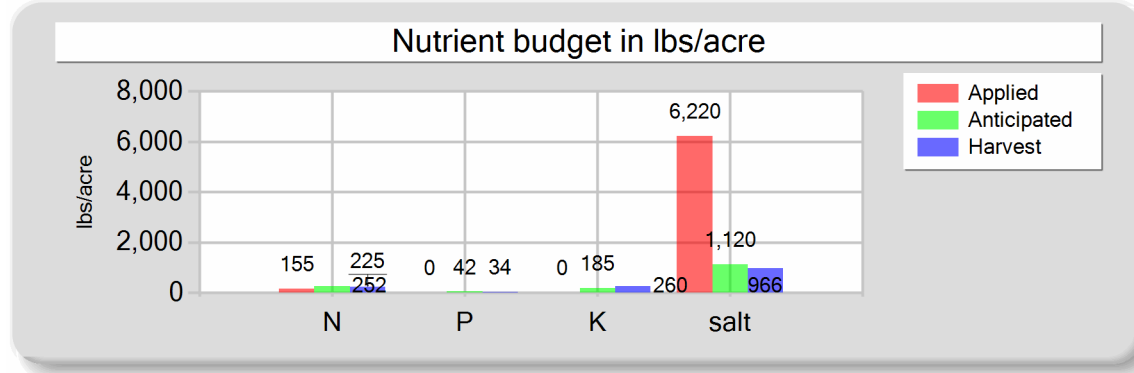
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,651.52 <i>acre-inches</i>
31.19 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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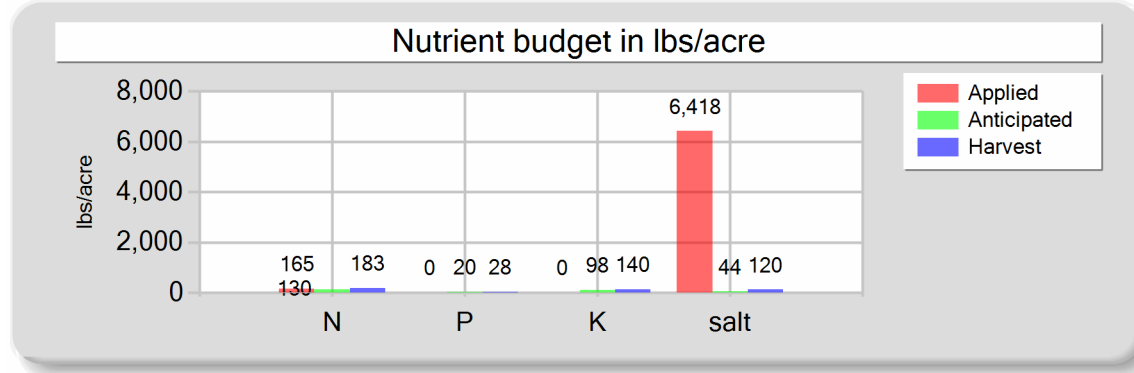
Reporting period 01/01/2023 to 12/31/2023.

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	77,760,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,863.64 <i>acre-inches</i>
Commercial fertilizer / Other	85.00	0.00	0.00	0.00	36.25 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	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	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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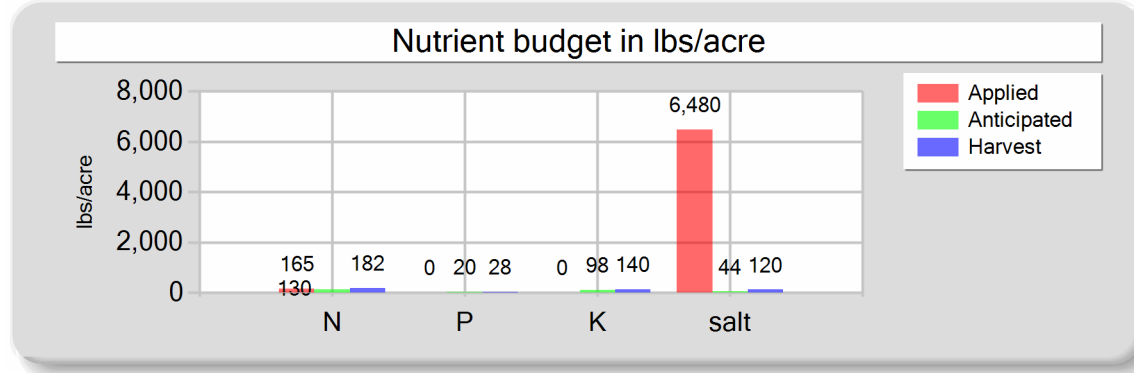
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,651.52 <i>acre-inches</i>
34.89 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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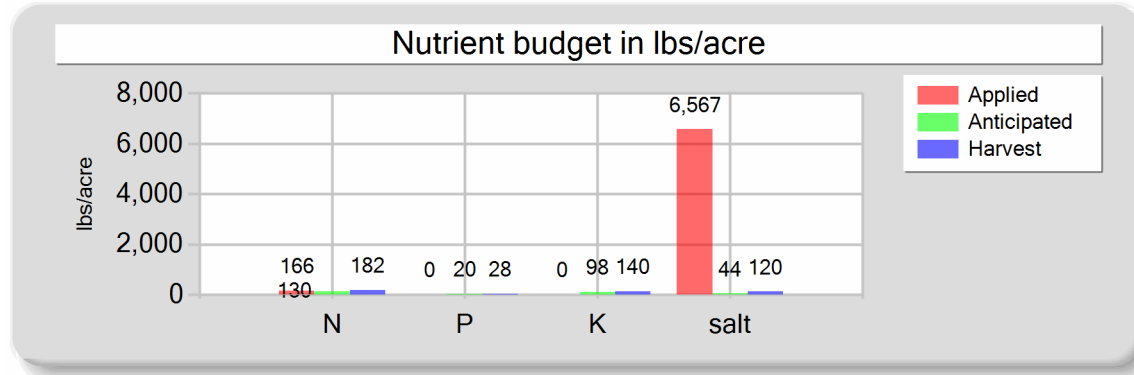
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,757.58 <i>acre-inches</i>
35.35 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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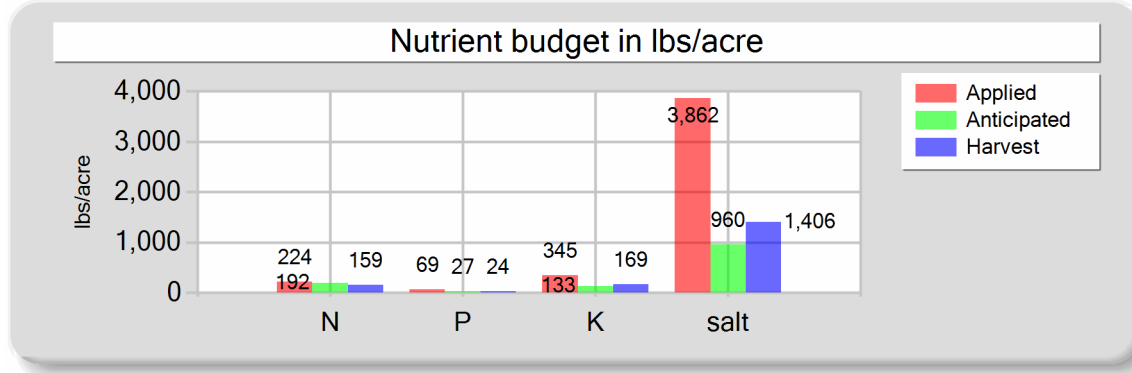
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
635.04 <i>acre-inches</i>
8.14 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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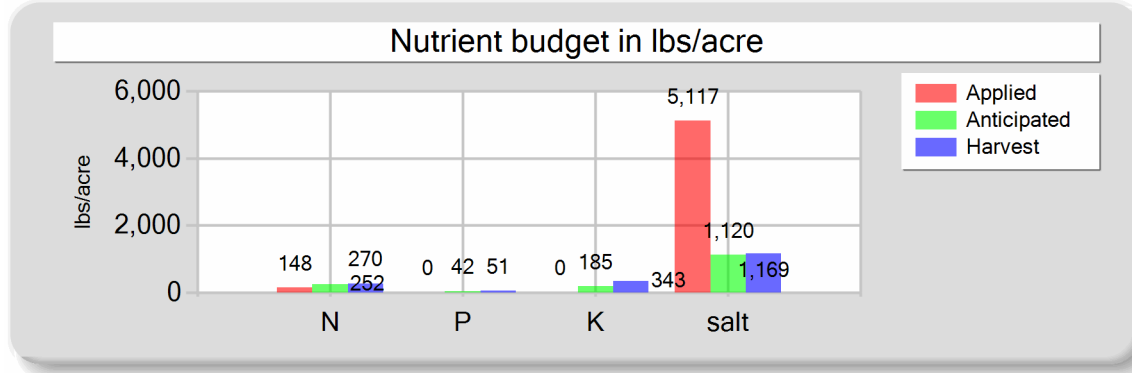
Reporting period 01/01/2023 to 12/31/2023.

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	66,240,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,439.39 <i>acre-inches</i>
Commercial fertilizer / Other	80.00	0.00	0.00	0.00	31.27 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	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	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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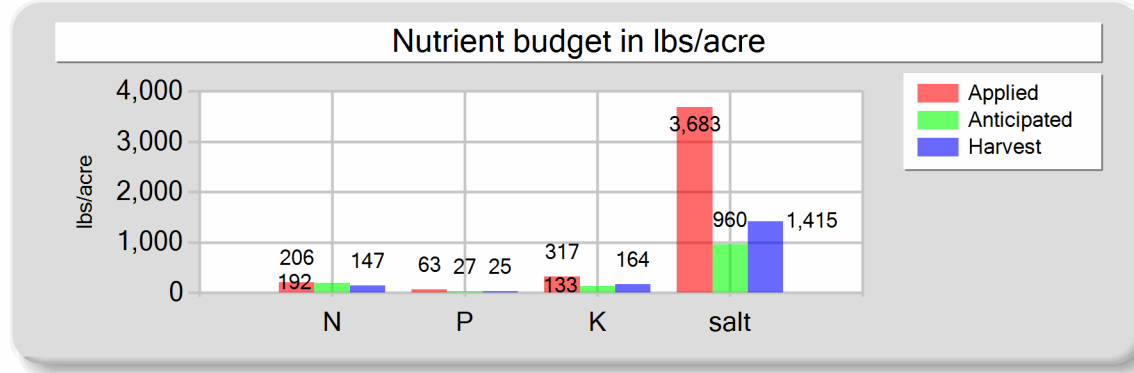
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
648.30 <i>acre-inches</i>
8.10 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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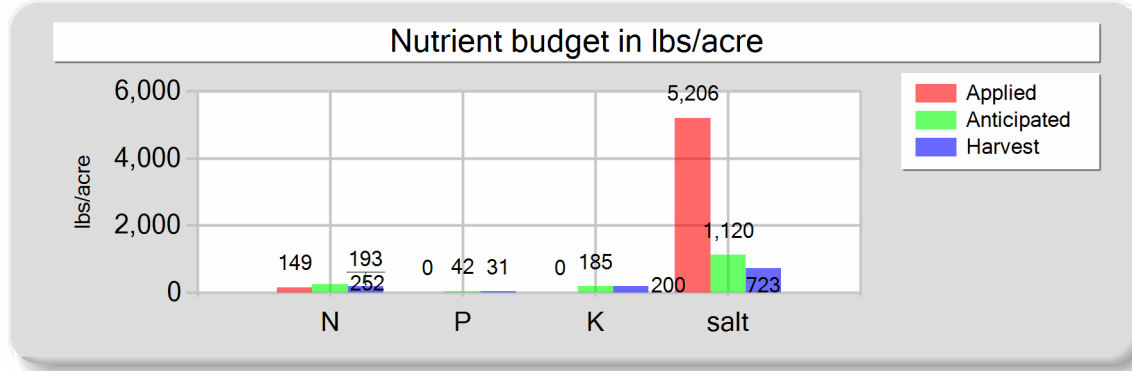
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: PVE-33

Crop: Corn, silage

Plant date: 07/02/2023



	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 <i>gallons</i>
2,545.45 <i>acre-inches</i>
31.82 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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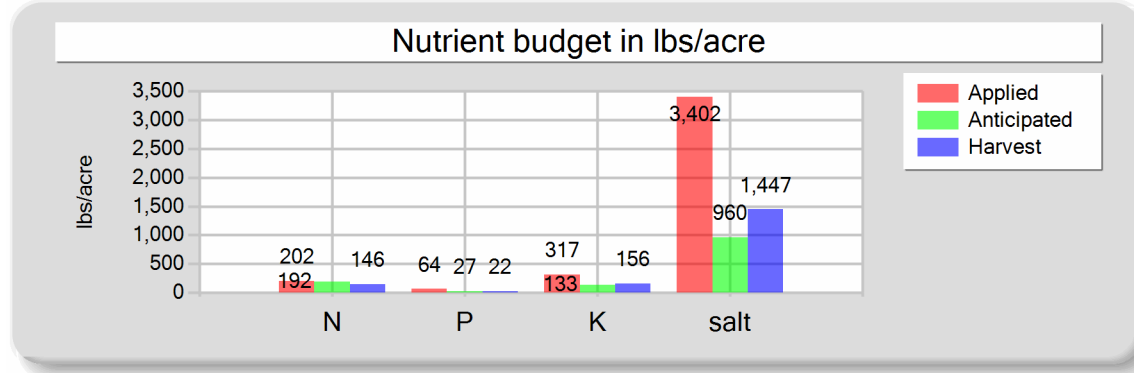
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: PVE-34

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022



	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	190.82	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 <i>gallons</i>
661.55 <i>acre-inches</i>
8.37 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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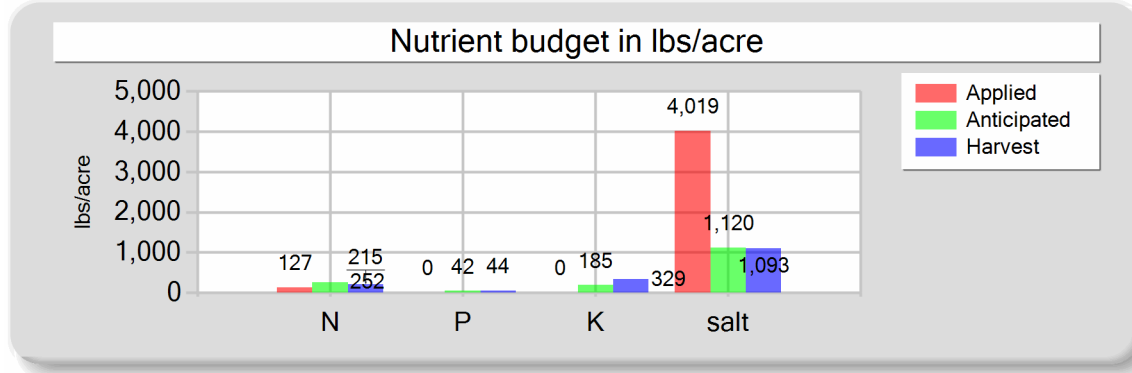
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: PVE-34

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	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
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	214.51	44.11	328.68	1,093.31
Nutrient balance	-87.83	-44.11	-328.68	2,926.09
Applied to removed ratio	0.59	0.00	0.00	3.68

Fresh water applied
69,120,000.00 <i>gallons</i>
2,545.45 <i>acre-inches</i>
32.22 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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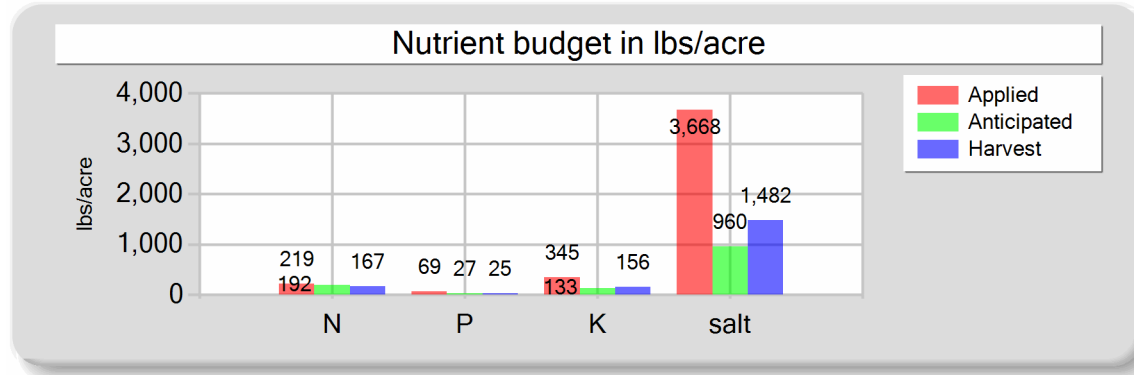
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
624.43 <i>acre-inches</i>
8.67 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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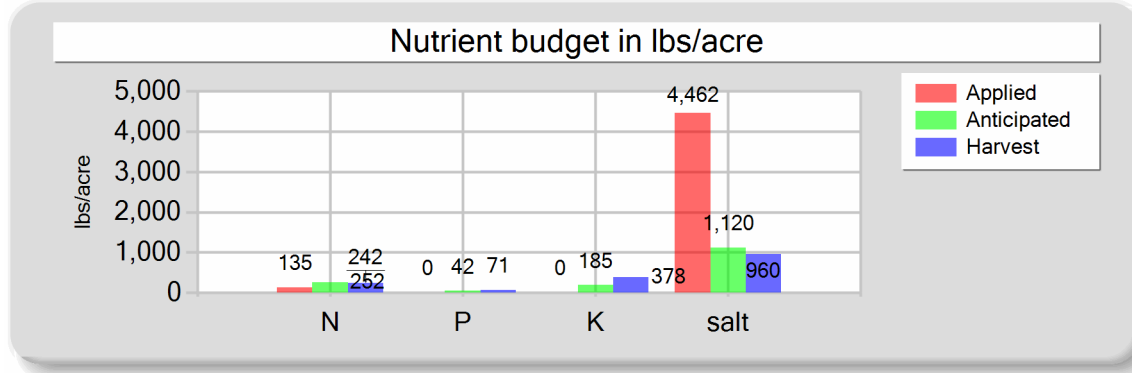
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,333.33 <i>acre-inches</i>
32.41 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

Corral solids - 2022

Sample and source description: Corral solids - 2022

Sample date: 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 (%)
Value	23,900.00	7,960.00	39,700.00							33.60
DL	1,000.00	1,000.00	1,000.00							0.10

Corral solids

Sample and source description: Corral solids

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

Moisture: 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 (%)
Value	20,900.00	4,710.00	26,900.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

Separator Solids

Sample and source description: Separator Solids

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

Moisture: 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 (%)
Value	17,400.00	1,790.00	4,340.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

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Corral solids

Sample and source description: Corral solids

Sample date: 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)
Value	804.00	367.00	0.00	0.00	71.50	306.00								6,450.00	3,760
DL	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)
Value	613.00	417.00	0.00	0.00	21.10	1,180.00								8,510.00	5,040
DL	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)
Value	493.00	227.00	0.00	0.00	102.00	542.00								4,470.00	3,580
DL	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)
Value	669.00	532.00	0.00	0.00	25.30	932.00								8,800.00	5,960
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

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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 (%)
Value	21,300.00	10,700.00	48,000.00		4.50
DL	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 (%)
Value	21,700.00	3,030.00	30,800.00		13.10
DL	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 (%)
Value	21,300.00	10,700.00	48,000.00		4.50
DL	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 (%)
Value	29,900.00	3,790.00	38,300.00		11.90
DL	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 (%)
Value	19,700.00	2,180.00	38,800.00		5.80
DL	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 (%)
Value	20,900.00	3,370.00	32,200.00		13.40
DL	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 (%)
Value	21,300.00	10,700.00	48,000.00		4.50
DL	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 (%)
Value	18,800.00	2,690.00	26,600.00		13.00
DL	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 (%)
Value	21,300.00	10,700.00	48,000.00		4.50
DL	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 (%)
Value	16,600.00	2,670.00	22,600.00		11.60
DL	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 (%)
Value	21,300.00	10,700.00	48,000.00		4.50
DL	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 (%)
Value	16,700.00	1,950.00	16,500.00		7.84
DL	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 (%)
Value	21,300.00	10,700.00	48,000.00		4.50
DL	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 (%)
Value	17,900.00	2,450.00	21,800.00		10.20
DL	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 (%)
Value	21,300.00	10,700.00	48,000.00		4.50
DL	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 (%)
Value	9,450.00	1,740.00	9,940.00		9.65
DL	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 (%)
Value	21,300.00	10,700.00	48,000.00		4.50
DL	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 (%)
Value	16,100.00	2,450.00	21,400.00		14.20
DL	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 (%)
Value	21,300.00	10,700.00	48,000.00		4.50
DL	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 (%)
Value	20,200.00	3,010.00	29,300.00		14.20
DL	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 (%)
Value	21,300.00	10,700.00	48,000.00		4.50
DL	1,000.00	1,000.00	1,000.00		0.10

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

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 (%)
Value	25,200.00	2,420.00	30,300.00		11.80
DL	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 (%)
Value	18,500.00	1,950.00	24,600.00		12.70
DL	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 (%)
Value	12,000.00	1,490.00	6,240.00		8.55
DL	1,000.00	1,000.00	1,000.00		0.10

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

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 (%)
Value	12,000.00	1,490.00	10,300.00		8.55
DL	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 (%)
Value	9,700.00	1,092.00	10,200.00		6.60
DL	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 (%)
Value	68,400.00	10,500.00	52,600.00		4.50
DL	1,000.00	1,000.00	1,000.00		0.10

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

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 (%)
Value	68,400.00	10,500.00	52,600.00		4.50
DL	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 (%)
Value	68,400.00	10,500.00	52,600.00		4.50
DL	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 (%)
Value	9,600.00	1,660.00	9,610.00		7.69
DL	1,000.00	1,000.00	1,000.00		0.10

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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 (%)
Value	10,300.00	1,730.00	10,200.00		4.60
DL	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 (%)
Value	8,730.00	1,610.00	9,820.00		8.92
DL	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 (%)
Value	11,200.00	1,075.00	7,310.00		5.70
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Winter ForageSample and source description: Winter ForageSample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 48.4 %

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

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

Corn SilagesSample and source description: Corn SilagesSample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 50.6 %

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

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

Winter ForageSample and source description: Winter ForageSample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 57.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,200.00	1,490.00	10,800.00		10.10
DL	1,000.00	1,000.00	1,000.00		0.10

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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 (%)
Value	10,500.00	1,590.00	12,100.00		4.50
DL	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 (%)
Value	68,400.00	10,500.00	52,600.00		4.50
DL	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 (%)
Value	68,400.00	10,500.00	52,600.00		4.50
DL	1,000.00	1,000.00	1,000.00		0.10

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

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

Almonds

Sample and source description: AlmondsSample date: 10/01/2023 Source of analysis: Other/estimated Method of reporting: Dry-weightMoisture: 5.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	68,400.00	10,500.00	52,600.00		4.50
DL	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 ForageSample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 55.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,500.00	1,600.00	11,200.00		9.30
DL	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 SilagesSample date: 11/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 62.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,300.00	2,510.00	16,900.00		5.76
DL	1,000.00	1,000.00	1,000.00		0.10

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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 (%)
Value	9,840.00	1,660.00	11,000.00		9.48
DL	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 (%)
Value	9,600.00	1,530.00	9,950.00		3.60
DL	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 (%)
Value	9,830.00	1,460.00	10,500.00		9.72
DL	1,000.00	1,000.00	1,000.00		0.10

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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 (%)
Value	12,400.00	2,550.00	19,000.00		6.32
DL	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 (%)
Value	10,300.00	1,550.00	9,640.00		9.15
DL	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 (%)
Value	12,900.00	3,760.00	20,100.00		5.11
DL	1,000.00	1,000.00	1,000.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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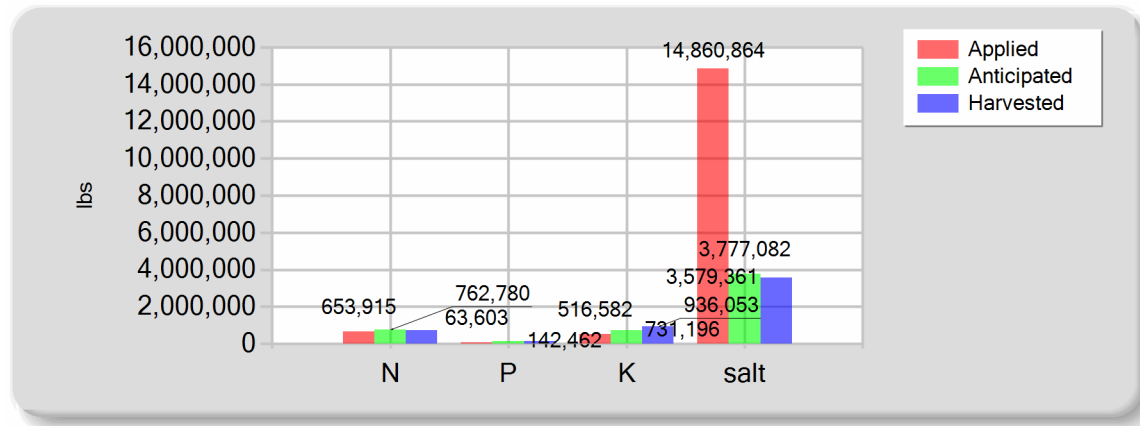
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

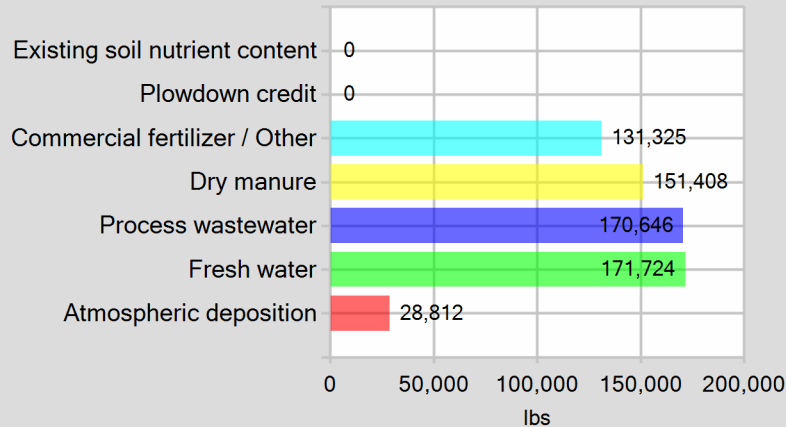
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	131,325.00	0.00	0.00	0.00
Dry manure	151,407.70	50,427.00	251,501.49	2,128,576.80
Process wastewater	170,645.97	13,176.28	265,080.99	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
Total nutrients applied	653,914.55	63,603.28	516,582.48	14,860,863.99
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
Nutrient balance	-62,844.72	-82,916.13	-419,470.22	11,281,502.86
Applied to removed ratio	0.91	0.43	0.55	4.15

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

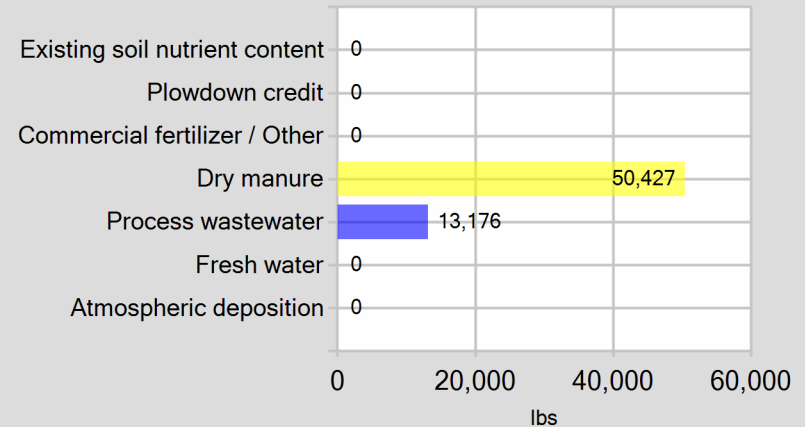


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

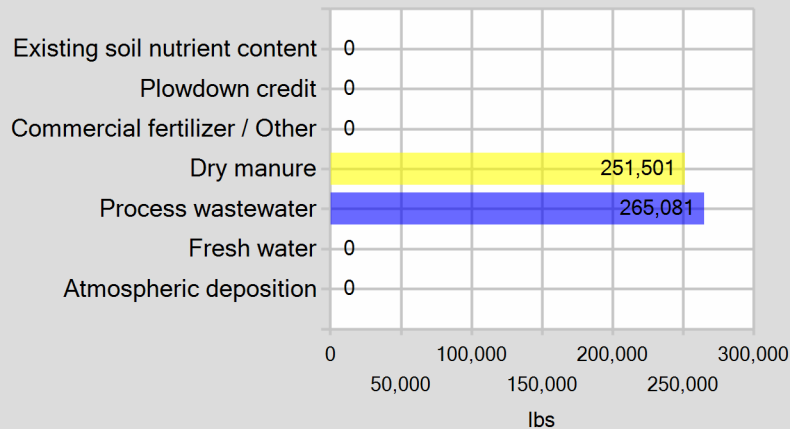
Pounds of nitrogen applied



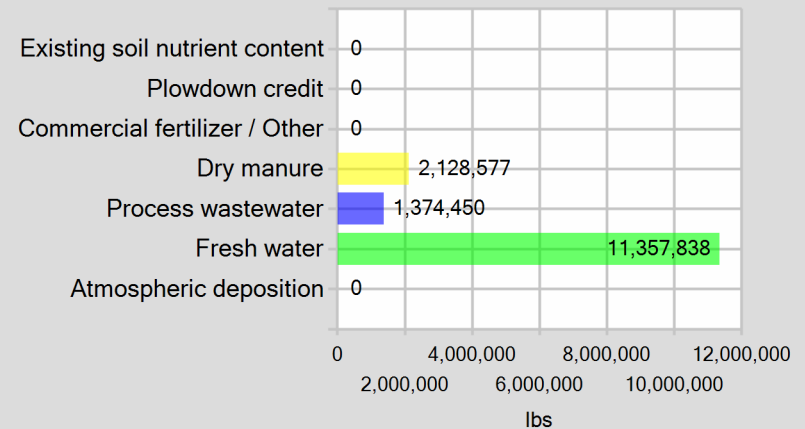
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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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

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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.

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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

Philip Verwey

PRINT OR TYPE NAME

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

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

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

INSTRUCTIONS

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

OPERATOR INFORMATION

Name of Operator: Philip Verwey

Name of Dairy Facility: Philip Verwey Dairy, Inc.

Facility Address:

12852 Road 9	Madera	Madera	93637
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number: <u>Philip Verwey</u>	(559) 318-6303
Name	Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Azevedo Brothers Trucking

Address of Hauling Company/Person:

6465 State Hwy 152	Dos Palos	CA	93620
Number and Street	City	State	Zip Code

Contact Person: <u>Frank Azevedo</u>	(209) 387-4290
Name	Phone Number

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	(209) 387-4290
Name	Phone Number

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

Destination Address or Assessor's Parcel Number:

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

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

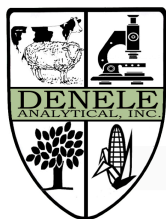
I declare under penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware 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

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

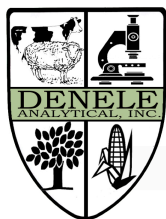
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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

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**Denele Analytical, Inc.**

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

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:

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

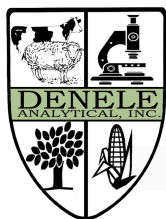
Irrigation/ Ground Water (H1)
SOURCE: Well Water

NOTES: Temperature was above qualifying at 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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Grower**Consultant:**

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P.O. Box 3679
Merced, CA 95344

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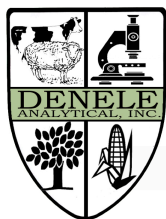
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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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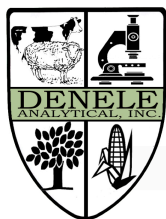
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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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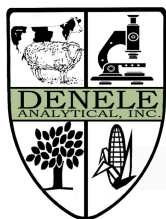
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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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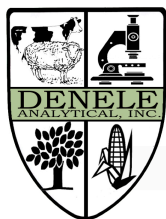
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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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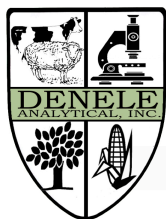
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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)

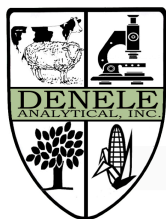
SOURCE: Well Water

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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Merced, CA 95344

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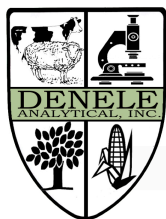
Irrigation/ Ground Water (H1)
SOURCE: Well Water

NOTES: Temperature was above qualifying at 24.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
#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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Merced, CA 95344

PURCHASE ORDER:

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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
#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

DAIRY COMPLIANCE

Authorized Copy Released To:

hlcdan@yahoo.com

Client: **PHILIP VERWEY DAIRY, INC.**
Mailing address: **19765 13th. Avenue, Hanford CA 93706**

(not facility address)

Phone#: **559-908-0836**

Sampled By: **Daniel Roos**

Project ID:

ANALYSIS TO BE COMPLETED:

IRRIGATION/GROUND WATER

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

H6 EC, TN, TDS

H7 Combination of H1 & H6

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

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, Bicar, Carb, SO4, Cl

H8 Combination of H3 & H5

H9 Combination of H4 & H5

TILE DRAIN

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

* Required Field Measurement

___ (Check here if performed)

DISCHARGE WATER

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

BOD 5, TSS, Total & Fecal Coliforms

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

Total & Fecal Coliforms

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

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

MANURE

M1 % Moisture

M3 TN TP, K, % Moisture

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

M7 Combination of M3 & M4

PLANT TISSUE

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

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

(Package also includes NIR DCAD)

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

SOIL

K3 Soluble Phosphorus

K4 1ft NO3, Organic Matter

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

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

K7 Combination of K3 & K4

K8 Combination of K3 & K5

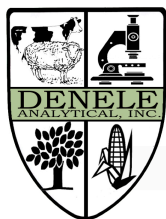
H1	H3	M3	F18	OTHER

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis			
1	8-17-23	1020	# 27 B		22.6		X			
2		1025	# 27 A		23.4		X			
3		1030	# 31		24.0		X			
4		1040	# 32		22.8		X			
5		1050	# 35 A		20.8		X			
6		1055	# 27		23.2		X			
7		1105	# 26 A		19.6		X			
8		1110	# 24		20.6		X			
9	8-17-23	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:	LABORATORY NUMBER
2nd		DENELE ANALYTICAL, INC.	8/17/23 1440			T3229026

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

**Denele Analytical, Inc.**

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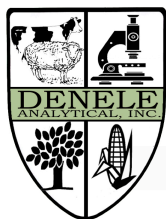
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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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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

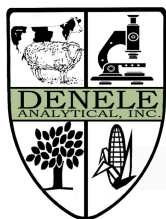
Irrigation/ Ground Water (H1)
SOURCE: Well Water

NOTES: Temperature was above qualifying at 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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865 South Kilroy Avenue Turlock, CA 95380
Phone (209) 634-9055 - Fax (209) 634-9057
www.denelelabs.com

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

Compliance Analysis Report

Customer

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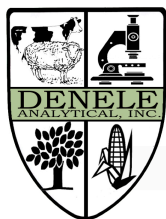
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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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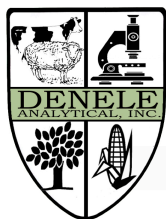
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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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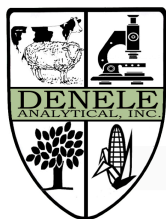
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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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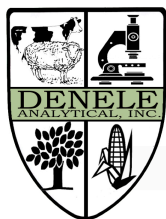
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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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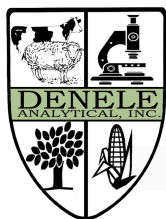
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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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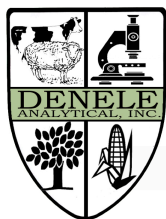
Irrigation/ Ground Water (H1)
SOURCE: Well Water

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

DAIRY COMPLIANCE

Authorized Copy Released To:

hlcdan@yahoo.com

Client: **PHILIP VERWEY DAIRY, INC.**
Mailing address: **19765 13th. Avenue, Hanford CA 93706**

(not facility address)

Phone#: **559-908-0836**Sampled By: **Daniel Roos**

Project ID:

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

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

H6 EC, TN, TDS

H7 Combination of H1 & H6

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

Carb, SO4, Cl, TDS

PROCESS WASTE WATER

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

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

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

H8 Combination of H3 & H5

H9 Combination of H4 & H5

TILE DRAIN

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

* Required Field Measurement

(Check here if performed)

DISCHARGE WATER

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

BOD 5, TSS, Total & Fecal Coliforms

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

Total & Fecal Coliforms

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

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

MANURE

M1 % Moisture

M3 TN TP, K, % Moisture

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

M7 Combination of M3 & M4

PLANT TISSUE

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

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

(Package also includes NIR DCAD)

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

SOIL

K3 Soluble Phosphorus

K4 1ft NO3, Organic Matter

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

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

K7 Combination of K3 & K4

K8 Combination of K3 & K5

H1	H3	M3	F18	OTHER

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis			
1	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	LG-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)

9