

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:

H&P Dairy

Physical address of dairy:

5021 E Bear Mountain Blvd

Number and Street

Bakersfield

City

Kern

County

93307

Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation:

01-01-2000

Regional Water Quality Control Board Basin Plan designation:

Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0185-0350-0003-0000 0185-0350-0009-0000 0185-0350-0012-0000 0185-0350-0013-0000 0185-0350-0014-0000 0185-0350-0023-0000 0185-0350-0024-0000
0185-0350-0026-0000 0185-0350-0031-0000 0185-0350-0032-0000 0185-0350-0040-0000 0185-0350-0041-0000 0185-0350-0066-0000 0189-0330-0025-0000
0189-0330-0026-0000

B. OPERATORS

Lisa Haagsma

Operator Name:

Lisa Haagsma

Telephone no.:

(661) 845-1100

Landline

Cellular

5021 E Bear Mountain Blvd

Mailing Address Number and Street

Bakersfield

City

Kern

County

93307

Zip Code

C. OWNERS

Lisa Haagsma

Owner Name:

Lisa Haagsma

Telephone no.:

(661) 845-1100

Landline

Cellular

5021 E Bear Mountain Blvd

Mailing Address Number and Street

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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	2,388	381	758	691	349	345
Number under roof	0	0	0	0	0	0
Maxiumu number	2,392	386	780	712	356	356
Average number	2,388	381	758	691	349	345
Average live weight (lbs)	1400	1450	1000	750		

Predominant milk cow breed: Holsteins
Average Milk Production: 70 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 83,808.56 tons per reporting period
Total nitrogen from manure: 1,043,393.68 lbs per reporting period After ammonia losses (30% loss applied): 730,375.57 lbs per reporting period
Total phosphorus from manure: 170,542.47 lbs per reporting period
Total potassium from manure: 457,324.03 lbs per reporting period
Total salt from manure: 1,212,000.75 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 18,559,988.78 gallons
Total nitrogen generated: 21,009.08 lbs
Total phosphorus generated: 34,945,324.54 lbs
Total potassium generated: 43,671.11 lbs
Total salt generated: 207,459.01 lbs

	18,559,988.78 gallons applied
+	0 gallons exported
-	0 gallons imported
=	18,559,988.78 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Canal - Kern Delta	Surface Water
D1	Ground Water
HP-4	Ground Water
HP-5	Ground Water
HP-6	Ground Water
HP7	Ground Water
WR1	Ground Water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No fresh water 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 (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	TFS (%)
03/28/2023	Separator solids	9,745 tons	as-is	69.8	12,370.00	3,660.00	18,150.00	65.00
05/31/2023	Separator solids	8,856 tons	as-is	68.4	12,370.00	3,660.00	18,150.00	65.00
06/20/2023	Separator solids	6,358 tons	as-is	68.2	17,910.00	4,430.00	21,400.00	44.00
07/31/2023	Separator solids	6,532 tons	as-is	63.8	17,910.00	4,430.00	21,400.00	44.00
08/19/2023	Separator solids	7,854 tons	as-is	68.2	17,910.00	4,430.00	21,400.00	44.00
09/25/2023	Separator solids	4,512 tons	as-is	66.3	23,000.00	5,730.00	41,330.00	44.00
10/24/2023	Separator solids	2,378 tons	as-is	68.5	23,000.00	5,730.00	41,330.00	44.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	1,520,178.82	398,910.56	2,132,586.90	48,499,220.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	1,520,178.82	398,910.56	2,132,586.90	48,499,220.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
6	23.99	23.99	8	NONE	0185-0350-0066-0000
7	35.61	35.61	7	NONE	0185-0350-0066-0000
8	115.91	115.00	7	NONE	0185-0350-0032-0000
9	38.72	38.72	1	MANURE	0185-0350-0023-0000
10	97.83	97.83	2	BOTH	0185-0350-0023-0000
11	38.61	38.61	2	BOTH	0185-0350-0023-0000
12	21.64	21.64	8	NONE	0185-0350-0023-0000
13	77.78	73.00	8	NONE	0185-0350-0023-0000
14	78.50	78.50	2	BOTH	0185-0350-0023-0000
15	78.76	73.00	2	BOTH	0185-0350-0023-0000
16	78.50	78.50	2	BOTH	0185-0350-0023-0000
17	73.69	71.48	9	PROCESS WASTEWATER	0185-0350-0023-0000
18W	110.41	110.41	7	NONE	0189-0330-0025-0000, 0189-0330-0026-0000
18E	148.71	148.71	7	NONE	0189-0330-0025-0000, 0189-0330-0026-0000
25	74.71	72.47	7	NONE	0185-0350-0003-0000
26	78.77	78.00	7	NONE	0185-0350-0003-0000
27	38.70	37.00	1	MANURE	0185-0350-0009-0000
28	19.93	19.93	1	MANURE	0185-0350-0012-0000
29	38.20	38.20	1	MANURE	0185-0350-0012-0000
30	32.69	32.69	1	MANURE	0185-0350-0013-0000, 0185-0350-0014-0000
31	14.08	14.08	7	NONE	0185-0350-0003-0000
32	20.18	20.18	7	NONE	0185-0350-0003-0000
Totals for areas that were used for application	1,335.92	1,317.55	104.00		
Totals for areas that were not used for application	18.37	18.37			
Land application area totals	1,335.92	1,335.92	104.00		

B. CROPS AND HARVESTS

6

Field Name: 6

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 23.99 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/06/2023	31.91 ton	As-is		0.00	30,084.00	2,463.30	20,141.10	593.40	0.00
04/05/2023	28.79 ton	As-is		0.00	30,084.00	2,463.30	20,141.10	593.40	0.00
04/30/2023	33.11 ton	As-is		0.00	30,084.00	2,463.30	20,141.10	593.40	0.00
06/04/2023	33.11 ton	As-is		0.00	30,084.00	2,463.30	20,141.10	593.40	0.00
07/15/2023	37.18 ton	As-is		0.00	30,084.00	2,463.30	20,141.10	593.40	0.00
08/11/2023	31.19 ton	As-is		0.00	30,084.00	2,463.30	20,141.10	593.40	0.00
08/26/2023	39.34 ton	As-is		0.00	30,084.00	2,463.30	20,141.10	593.40	0.00
10/03/2023	32.15 ton	As-is		0.00	30,084.00	2,463.30	20,141.10	593.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	11.12	669.07	54.78	447.94	0.00

Field Name: 7

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 35.61 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/15/2023	48.43 ton	As-is		0.00	29,780.40	2,780.70	23,591.10	503.70	0.00
04/21/2023	49.85 ton	As-is		0.00	29,780.40	2,780.70	23,591.10	503.70	0.00
05/30/2023	50.21 ton	As-is		0.00	29,780.40	2,780.70	23,591.10	503.70	0.00
07/04/2023	49.14 ton	As-is		0.00	29,780.40	2,780.70	23,591.10	503.70	0.00
08/16/2023	52.70 ton	As-is		0.00	29,780.40	2,780.70	23,591.10	503.70	0.00
09/25/2023	54.13 ton	As-is		0.00	29,780.40	2,780.70	23,591.10	503.70	0.00
11/02/2023	43.44 ton	As-is		0.00	29,780.40	2,780.70	23,591.10	503.70	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	9.77	581.91	54.33	460.97	0.00

Field Name: 8

01/05/2023: Alfalfa

Crop: Alfalfa Acres planted: 115 Plant date: 01/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/02/2023	148.35 ton	As-is		0.00	28,179.60	2,463.30	19,809.90	703.80	0.00
04/12/2023	159.85 ton	As-is		0.00	28,179.60	2,463.30	19,809.90	703.80	0.00
05/20/2023	181.70 ton	As-is		0.00	28,179.60	2,463.30	19,809.90	703.80	0.00
06/28/2023	177.10 ton	As-is		0.00	28,179.60	2,463.30	19,809.90	703.80	0.00
08/03/2023	174.80 ton	As-is		0.00	28,179.60	2,463.30	19,809.90	703.80	0.00
09/09/2023	164.45 ton	As-is		0.00	28,179.60	2,463.30	19,809.90	703.80	0.00
10/20/2023	154.10 ton	As-is		0.00	28,179.60	2,463.30	19,809.90	703.80	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	10.09	568.66	49.71	399.76	0.00

Field Name: 9

02/06/2023: Oat

Crop: Oat Acres planted: 38.72 Plant date: 02/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/25/2023	815.83 ton	As-is		0.00	4,102.00	1,018.50	5,064.50	38.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	80.00
Total actual harvest content	21.07	172.86	42.92	213.42	0.00

Field Name: 10

10/22/2022: Triticale

Crop: Triticale Acres planted: 97.83 Plant date: 10/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/09/2023	2,030.95 ton	As-is		0.00	6,818.40	1,152.00	8,431.20	90.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	20.76	283.10	47.83	350.06	0.00

05/10/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 97.83 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	2,166.93 ton	As-is		0.00	4,410.00	430.50	8,540.00	0.02	2.56

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	1,020.00	180.00	1,200.00	600.00
Total actual harvest content	22.15	195.36	19.07	378.32	1,133.42

Field Name: 11

10/22/2022: Triticale

Crop: Triticale Acres planted: 38.61 Plant date: 10/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/09/2023	845.17 ton	As-is		0.00	7,117.20	1,292.40	9,644.40	93.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	21.89	311.59	56.58	422.23	0.00

04/10/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 38.61 Plant date: 04/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/22/2023	903.47 ton	As-is		0.00	5,215.00	1,015.00	10,150.00	0.01	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	1,020.00	180.00	1,200.00	600.00
Total actual harvest content	23.40	244.06	47.50	475.02	0.00

Field Name: 12

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 21.64 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/06/2023	28.78 ton	As-is		0.00	31,905.60	3,049.80	22,280.10	213.90	0.00
04/05/2023	25.97 ton	As-is		0.00	31,905.60	3,049.80	22,280.10	213.90	0.00
05/07/2023	25.97 ton	As-is		0.00	31,905.60	3,049.80	22,280.10	213.90	0.00
06/08/2023	25.97 ton	As-is		0.00	31,905.60	3,049.80	22,280.10	213.90	0.00
07/10/2023	30.30 ton	As-is		0.00	31,905.60	3,049.80	22,280.10	213.90	0.00
08/11/2023	25.97 ton	As-is		0.00	31,905.60	3,049.80	22,280.10	213.90	0.00
09/12/2023	23.80 ton	As-is		0.00	31,905.60	3,049.80	22,280.10	213.90	0.00
10/14/2023	25.97 ton	As-is		0.00	31,905.60	3,049.80	22,280.10	213.90	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	9.83	627.26	59.96	438.03	0.00

Field Name: 13

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 73 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/06/2023	100.74 ton	As-is		0.00	27,275.70	1,883.70	17,532.90	807.30	0.00
04/08/2023	102.20 ton	As-is		0.00	27,275.70	1,883.70	17,532.90	807.30	0.00
05/10/2023	100.74 ton	As-is		0.00	27,275.70	1,883.70	17,532.90	807.30	0.00
06/12/2023	97.82 ton	As-is		0.00	27,275.70	1,883.70	17,532.90	807.30	0.00
07/15/2023	112.42 ton	As-is		0.00	27,275.70	1,883.70	17,532.90	807.30	0.00
08/15/2023	108.04 ton	As-is		0.00	27,275.70	1,883.70	17,532.90	807.30	0.00
09/18/2023	116.80 ton	As-is		0.00	27,275.70	1,883.70	17,532.90	807.30	0.00
10/20/2023	91.25 ton	As-is		0.00	27,275.70	1,883.70	17,532.90	807.30	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	11.37	620.25	42.84	398.70	0.00

Field Name: 14

10/22/2022: Triticale

Crop: Triticale Acres planted: 78.5 Plant date: 10/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/09/2023	1,745.05 ton	As-is		0.00	5,353.20	878.40	4,100.40	64.80	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	22.23	238.00	39.05	182.30	0.00

05/05/2023: Corn, Late Silage

Crop: Corn, Late Silage Acres planted: 78.5 Plant date: 05/05/2023

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	1,818.06 ton	As-is		0.00	3,952.00	984.20	7,942.00	0.00	3.17

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	23.16	183.06	45.59	367.87	1,466.21

Field Name: 15

10/22/2022: Triticale

Crop: Triticale Acres planted: 73 Plant date: 10/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/09/2023	1,635.93 ton	As-is		0.00	6,444.00	1,126.80	8,208.00	72.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	22.41	288.82	50.50	367.88	0.00

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 73 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,617.68 ton	As-is		0.00	4,165.00	689.50	8,435.00	0.03	2.71

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	22.16	184.59	30.56	373.84	1,200.63

Field Name: 16

10/22/2022: Triticale

Crop: Triticale Acres planted: 78.5 Plant date: 10/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/09/2023	1,740.35 ton	As-is		0.00	5,058.00	950.40	6,606.00	50.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	22.17	224.27	42.14	292.91	0.00

05/09/2023: Corn Silage

Crop: Corn Silage Acres planted: 78.5 Plant date: 05/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/17/2023	1,782.73 ton	As-is		0.00	4,760.00	1,015.00	6,545.00	0.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	22.71	216.20	46.10	297.27	0.00

Field Name: 17

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 71.48 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/05/2023	100.07 ton	As-is		0.00	34,879.50	3,146.40	21,500.40	1,469.70	0.00
04/04/2023	87.92 ton	As-is		0.00	34,879.50	3,146.40	21,500.40	1,469.70	0.00
05/06/2023	91.49 ton	As-is		0.00	34,879.50	3,146.40	21,500.40	1,469.70	0.00
06/07/2023	92.92 ton	As-is		0.00	34,879.50	3,146.40	21,500.40	1,469.70	0.00
07/09/2023	92.92 ton	As-is		0.00	34,879.50	3,146.40	21,500.40	1,469.70	0.00
08/10/2023	96.50 ton	As-is		0.00	34,879.50	3,146.40	21,500.40	1,469.70	0.00
09/11/2023	85.78 ton	As-is		0.00	34,879.50	3,146.40	21,500.40	1,469.70	0.00
10/13/2023	71.48 ton	As-is		0.00	34,879.50	3,146.40	21,500.40	1,469.70	0.00
11/21/2023	96.50 ton	As-is		0.00	34,879.50	3,146.40	21,500.40	1,469.70	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	11.41	795.95	71.80	490.64	0.00

Field Name: 18W

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 110.41 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/01/2023	132.49 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
05/03/2023	154.57 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
06/08/2023	156.78 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
07/15/2023	150.16 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
08/15/2023	157.89 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
09/18/2023	158.99 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
10/20/2023	167.82 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	9.77	526.63	38.43	271.81	0.00

Field Name: 18E

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 148.71 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/01/2023	178.45 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
05/03/2023	208.19 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
06/08/2023	211.17 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
07/15/2023	202.25 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
08/15/2023	212.66 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
09/18/2023	214.14 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00
10/20/2023	226.04 ton	As-is		0.00	26,951.40	1,966.50	13,910.40	1,248.90	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	9.77	526.63	38.43	271.81	0.00

Field Name: 25

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 72.47 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/18/2023	90.59 ton	As-is		0.00	33,720.30	2,352.90	20,396.40	510.60	0.00
04/20/2023	100.01 ton	As-is		0.00	33,720.30	2,352.90	20,396.40	510.60	0.00
05/28/2023	102.91 ton	As-is		0.00	33,720.30	2,352.90	20,396.40	510.60	0.00
06/30/2023	104.36 ton	As-is		0.00	33,720.30	2,352.90	20,396.40	510.60	0.00
08/01/2023	105.08 ton	As-is		0.00	33,720.30	2,352.90	20,396.40	510.60	0.00
09/07/2023	107.26 ton	As-is		0.00	33,720.30	2,352.90	20,396.40	510.60	0.00
10/15/2023	100.01 ton	As-is		0.00	33,720.30	2,352.90	20,396.40	510.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	9.80	660.92	46.12	399.77	0.00

Field Name: 26

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 78 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/22/2023	99.84 ton	As-is		0.00	25,930.20	1,704.30	17,091.30	752.10	0.00
04/23/2023	99.06 ton	As-is		0.00	25,930.20	1,704.30	17,091.30	752.10	0.00
05/30/2023	105.30 ton	As-is		0.00	25,930.20	1,704.30	17,091.30	752.10	0.00
07/01/2023	108.42 ton	As-is		0.00	25,930.20	1,704.30	17,091.30	752.10	0.00
08/08/2023	111.54 ton	As-is		0.00	25,930.20	1,704.30	17,091.30	752.10	0.00
09/12/2023	110.76 ton	As-is		0.00	25,930.20	1,704.30	17,091.30	752.10	0.00
10/18/2023	109.20 ton	As-is		0.00	25,930.20	1,704.30	17,091.30	752.10	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	9.54	494.75	32.52	326.10	0.00

Field Name: 27**01/25/2023: Oat**Crop: Oat Acres planted: 37 Plant date: 01/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/28/2023	851.74 ton	As-is		0.00	4,301.50	1,242.50	6,412.00	45.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	80.00
Total actual harvest content	23.02	198.04	57.20	295.21	0.00

Field Name: 28

02/15/2023: Oat

Crop: Oat Acres planted: 19.93 Plant date: 02/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/30/2023	423.11 ton	As-is		0.00	3,087.00	1,120.00	5,754.00	52.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	80.00
Total actual harvest content	21.23	131.07	47.56	244.31	0.00

Field Name: 29

02/20/2023: Oat

Crop: Oat Acres planted: 38.2 Plant date: 02/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/09/2023	836.58 ton	As-is		0.00	4,007.50	1,022.00	4,952.50	45.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	80.00
Total actual harvest content	21.90	175.53	44.76	216.92	0.00

Field Name: 30

02/17/2023: Oat

Crop: Oat Acres planted: 32.69 Plant date: 02/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/07/2023	647.26 ton	As-is		0.00	3,619.00	1,022.00	5,446.00	42.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	80.00
Total actual harvest content	19.80	143.31	40.47	215.66	0.00

Field Name: 31

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 14.08 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/15/2023	18.59 ton	As-is		0.00	25,564.50	1,690.50	17,063.70	607.20	0.00
04/20/2023	19.57 ton	As-is		0.00	25,564.50	1,690.50	17,063.70	607.20	0.00
05/25/2023	20.28 ton	As-is		0.00	25,564.50	1,690.50	17,063.70	607.20	0.00
06/30/2023	19.71 ton	As-is		0.00	25,564.50	1,690.50	17,063.70	607.20	0.00
08/09/2023	19.99 ton	As-is		0.00	25,564.50	1,690.50	17,063.70	607.20	0.00
09/15/2023	21.12 ton	As-is		0.00	25,564.50	1,690.50	17,063.70	607.20	0.00
10/25/2023	19.43 ton	As-is		0.00	25,564.50	1,690.50	17,063.70	607.20	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	9.85	503.62	33.30	336.15	0.00

Field Name: 32

01/02/2023: Alfalfa

Crop: Alfalfa Acres planted: 20.18 Plant date: 01/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/20/2023	26.03 ton	As-is		0.00	27,641.40	2,359.80	17,532.90	731.40	0.00
04/25/2023	27.65 ton	As-is		0.00	27,641.40	2,359.80	17,532.90	731.40	0.00
05/30/2023	28.05 ton	As-is		0.00	27,641.40	2,359.80	17,532.90	731.40	0.00
07/09/2023	30.67 ton	As-is		0.00	27,641.40	2,359.80	17,532.90	731.40	0.00
08/15/2023	30.67 ton	As-is		0.00	27,641.40	2,359.80	17,532.90	731.40	0.00
09/28/2023	30.88 ton	As-is		0.00	27,641.40	2,359.80	17,532.90	731.40	0.00
11/01/2023	25.63 ton	As-is		0.00	27,641.40	2,359.80	17,532.90	731.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	9.89	546.75	46.68	346.80	0.00

NUTRIENT BUDGET

A. LAND APPLICATIONS

10

Field name: 10 Crop: Corn, Early Silage Plant date: 05/10/2023

05/10/2023: Corn, Early Silage

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
Corral Solids	Corral Solids	128.90	38.14	189.12	6,773.00	978.30 <i>ton</i>
Application event totals		128.90	38.14	189.12	6,773.00	

04/25/2023	Surface (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
Canal Water	Ground water	0.00	935.19	24,558.05	88.84	10,963,390.84 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	782.64 <i>Gal.</i>
Application event totals		28.31	935.19	24,558.05	88.84	

05/23/2023	Surface (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 Effluent	Process wastewater	10.40	15,327.39	11.37	77.44	945,715.37 <i>gal</i>
Canal Water	Ground water	0.04	1,031.49	26,509.41	82.52	12,092,405.46 <i>gal</i>
Application event totals		10.44	16,358.88	26,520.78	159.96	

06/23/2023	Surface (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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	782.64 <i>Gal.</i>
Canal Water	Ground water	0.04	1,178.79	30,294.81	94.30	13,819,133.19 <i>gal</i>
Application event totals		28.35	1,178.79	30,294.81	94.30	

07/24/2023	Surface (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 Effluent	Process wastewater	5.84	8,610.90	6.39	43.51	531,300.77 <i>gal</i>
Well Water	Ground water	0.46	1,198.50	3.60	281.65	14,050,248.74 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	782.64 <i>Gal.</i>
Application event totals		34.61	9,809.40	9.99	325.16	

08/23/2023	Surface (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
Well Water	Ground water	0.35	917.51	2.76	215.62	10,756,183.36 <i>gal</i>
Lagoon Water Effluent	Process wastewater	14.02	27,518.61	136.87	195.44	916,493.81 <i>gal</i>
Application event totals		14.37	28,436.12	139.63	411.06	

09/05/2023	Surface (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
Well Water	Ground water	0.33	858.82	2.58	201.82	10,068,149.34 <i>gal</i>
Application event totals		0.33	858.82	2.58	201.82	

10/22/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	308.07	62.59	286.95	2,151.60	586.98 <i>ton</i>
Application event totals		308.07	62.59	286.95	2,151.60	

10/22/2022	Surface (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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	978.30 <i>Gal.</i>
Canal Water	Ground water	0.00	1,087.69	28,562.80	103.33	12,751,218.79 <i>gal</i>
Application event totals		35.39	1,087.69	28,562.80	103.33	

11/19/2022	Surface (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
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Well Water	Ground water	0.35	0.00	5.01	227.33	12,113,658.49 <i>gal</i>
Application event totals		0.35	0.00	5.01	227.33	

12/20/2022	Surface (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 Effluent	Process wastewater	17.73	34,707.80	30.10	240.67	1,484,985.67 <i>gal</i>
Canal Water	Ground water	0.00	917.74	24,099.86	87.19	10,758,840.94 <i>gal</i>
Application event totals		17.73	35,625.54	24,129.96	327.86	

01/20/2023	Surface (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
Well Water	Ground water	0.39	1,019.71	3.06	239.63	11,954,267.14 <i>gal</i>
Application event totals		0.39	1,019.71	3.06	239.63	

02/19/2023	Surface (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
Canal Water	Ground water	0.00	1,154.77	30,324.17	109.70	13,537,542.67 <i>gal</i>
Application event totals		0.00	1,154.77	30,324.17	109.70	

03/19/2023	Surface (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
Well Water	Ground water	0.41	1,065.03	3.20	250.28	12,485,567.40 <i>gal</i>
Application event totals		0.41	1,065.03	3.20	250.28	

Field name: 11

Crop: Corn, Early Silage

Plant date: 04/10/2023

04/10/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/05/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	193.34	57.21	283.68	10,159.50	579.15 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	540.54 <i>Lbs</i>
Application event totals		207.34	57.21	283.68	10,159.50	
04/08/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.41	1,076.36	3.23	252.95	4,980,028.17 <i>gal</i>
Application event totals		0.41	1,076.36	3.23	252.95	
04/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.43	1,121.68	3.37	263.60	5,189,713.37 <i>gal</i>
Application event totals		0.43	1,121.68	3.37	263.60	
05/03/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	386.10 <i>Gal.</i>
Well Water	Ground water	0.43	1,121.68	3.37	263.60	5,189,713.37 <i>gal</i>
Application event totals		35.82	1,121.68	3.37	263.60	
05/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	20.45	30,138.13	22.35	152.28	733,898.88 <i>gal</i>
Canal Water	Ground water	0.05	1,373.21	35,291.53	109.86	6,353,467.46 <i>gal</i>
Application event totals		20.50	31,511.34	35,313.88	262.14	
05/27/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	386.10 <i>Gal.</i>
Canal Water	Ground water	0.05	1,359.62	34,942.11	108.77	6,290,561.90 <i>gal</i>
Application event totals		35.44	1,359.62	34,942.11	108.77	

06/12/2023	Surface (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 Effluent	Process wastewater	21.82	32,161.69	23.85	162.50	783,174.93 <i>gal</i>
Canal Water	Ground water	0.05	1,386.81	35,640.95	110.94	6,416,373.02 <i>gal</i>
Application event totals		21.87	33,548.50	35,664.80	273.44	

06/30/2023	Surface (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
Well Water	Ground water	0.44	1,144.34	3.44	268.92	5,294,556.47 <i>gal</i>
Application event totals		0.44	1,144.34	3.44	268.92	

10/22/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	359.42	73.02	334.77	2,510.20	270.27 <i>ton</i>
Application event totals		359.42	73.02	334.77	2,510.20	

10/22/2022	Surface (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
Canal Water	Ground water	0.00	1,133.01	29,752.91	107.64	5,242,134.92 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	386.10 <i>Gal.</i>
Application event totals		35.39	1,133.01	29,752.91	107.64	

11/19/2022	Surface (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
Well Water	Ground water	0.32	0.00	4.64	210.58	4,428,555.55 <i>gal</i>

Application event totals		0.32	0.00	4.64	210.58	
12/20/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	917.74	24,099.86	87.19	4,246,129.48 <i>gal</i>
Lagoon Water Effluent	Process wastewater	16.81	32,907.22	28.53	228.19	555,666.27 <i>gal</i>
Application event totals		16.81	33,824.96	24,128.39	315.38	
01/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.38	997.05	3.00	234.31	4,613,078.83 <i>gal</i>
Application event totals		0.38	997.05	3.00	234.31	
02/19/2023	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
Canal Water	Ground water	0.00	1,013.37	26,611.00	96.27	4,688,565.10 <i>gal</i>
Application event totals		0.00	1,013.37	26,611.00	96.27	
03/19/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.39	1,008.38	3.03	236.97	4,665,499.88 <i>gal</i>
Application event totals		0.39	1,008.38	3.03	236.97	

Field name: 12

Crop: Alfalfa

Plant date: 01/02/2023

01/02/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	302.96 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.53	1,396.78	4.20	328.24	3,622,081.83 <i>gal</i>
Application event totals		0.53	1,396.78	4.20	328.24	
03/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.50	1,320.19	3.97	310.24	3,423,466.81 <i>gal</i>
Application event totals		0.50	1,320.19	3.97	310.24	
04/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.45	1,190.57	3.58	279.78	3,087,348.88 <i>gal</i>
Application event totals		0.45	1,190.57	3.58	279.78	
05/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.40	1,053.93	3.17	247.67	2,733,014.70 <i>gal</i>
Application event totals		0.40	1,053.93	3.17	247.67	
06/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.06	1,572.62	40,416.37	125.81	4,078,073.98 <i>gal</i>
Application event totals		0.06	1,572.62	40,416.37	125.81	
07/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Canal Water	Ground water	0.05	1,432.13	36,805.69	114.57	3,713,750.44 <i>gal</i>
Application event totals		0.05	1,432.13	36,805.69	114.57	
08/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,459.32	37,504.53	116.75	3,784,264.61 <i>gal</i>
Application event totals		0.05	1,459.32	37,504.53	116.75	
09/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.06	1,690.00	43,433.04	135.20	4,382,460.55 <i>gal</i>
Application event totals		0.06	1,690.00	43,433.04	135.20	

Field name: 13

Crop: Alfalfa

Plant date: 01/02/2023

01/02/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,022.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.50	1,301.15	3.91	305.77	11,382,153.48 <i>gal</i>
Application event totals		0.50	1,301.15	3.91	305.77	
03/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.56	1,455.01	4.37	341.93	12,728,109.76 <i>gal</i>
Application event totals		0.56	1,455.01	4.37	341.93	
04/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.49	1,289.37	3.87	303.00	11,279,075.72 <i>gal</i>
Application event totals		0.49	1,289.37	3.87	303.00	
05/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.49	1,282.57	3.85	301.40	11,219,607.42 <i>gal</i>
Application event totals		0.49	1,282.57	3.85	301.40	
06/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,296.85	33,328.95	103.75	11,344,490.38 <i>gal</i>
Application event totals		0.05	1,296.85	33,328.95	103.75	
07/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Canal Water	Ground water	0.06	1,538.18	39,531.17	123.05	13,455,600.43 <i>gal</i>
Application event totals		0.06	1,538.18	39,531.17	123.05	
08/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.06	1,723.31	44,289.12	137.86	15,075,109.00 <i>gal</i>
Application event totals		0.06	1,723.31	44,289.12	137.86	
09/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,229.32	31,593.49	98.35	10,753,776.33 <i>gal</i>
Application event totals		0.04	1,229.32	31,593.49	98.35	
09/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.60	1,577.38	4.74	370.68	13,798,531.62 <i>gal</i>
Application event totals		0.60	1,577.38	4.74	370.68	

Field name: 14

Crop: Corn, Late Silage

Plant date: 05/05/2023

05/05/2023: Corn, Late Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	167.82	41.51	200.52	4,122.80	392.50 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,099.00 <i>Lbs</i>
Application event totals		181.82	41.51	200.52	4,122.80	
05/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,233.17	31,692.49	98.65	11,600,229.16 <i>gal</i>
Application event totals		0.04	1,233.17	31,692.49	98.65	
05/07/2023	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
Lagoon Water Effluent	Process wastewater	21.56	31,774.20	23.56	160.54	1,573,129.18 <i>gal</i>
Well Water	Ground water	0.54	1,414.23	4.25	332.34	13,303,387.24 <i>gal</i>
Application event totals		22.10	33,188.43	27.81	492.88	
05/28/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.46	1,210.96	3.64	284.58	11,391,331.13 <i>gal</i>
Lagoon Water Effluent	Process wastewater	19.22	28,329.85	21.01	143.14	1,402,600.30 <i>gal</i>
Application event totals		19.68	29,540.81	24.65	427.72	
06/05/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	8.76	12,916.34	9.58	65.26	639,483.45 <i>gal</i>
Canal Water	Ground water	0.05	1,362.56	35,017.82	109.00	12,817,379.49 <i>gal</i>
Application event totals		8.81	14,278.90	35,027.40	174.26	
06/21/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	11.68	17,221.79	12.77	87.02	852,644.58 <i>gal</i>

Canal Water	Ground water	0.05	1,409.24	36,217.49	112.74	13,256,491.13 <i>gal</i>
Application event totals		11.73	18,631.03	36,230.26	199.76	

07/07/2023	Surface (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 Effluent	Process wastewater	6.72	9,902.53	7.34	50.03	490,270.64 <i>gal</i>
Well Water	Ground water	0.60	1,577.83	4.74	370.79	14,842,409.93 <i>gal</i>
Application event totals		7.32	11,480.36	12.08	420.82	

07/25/2023	Surface (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
Well Water	Ground water	0.40	1,035.35	3.11	243.31	9,739,332.08 <i>gal</i>
Application event totals		0.40	1,035.35	3.11	243.31	

10/22/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	256.73	52.16	239.12	1,793.00	392.50 <i>ton</i>
Application event totals		256.73	52.16	239.12	1,793.00	

10/22/2022	Surface (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
Canal Water	Ground water	0.00	1,144.34	30,050.44	108.71	10,764,638.08 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	785.00 <i>Gal.</i>
Application event totals		35.39	1,144.34	30,050.44	108.71	

11/19/2022	Surface (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
Well Water	Ground water	0.35	0.00	5.11	232.11	9,924,783.06 <i>gal</i>
Application event totals		0.35	0.00	5.11	232.11	

12/20/2022	Surface (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
Canal Water	Ground water	0.00	836.16	21,957.65	79.44	7,865,646.26 <i>gal</i>

Lagoon Water Effluent	Process wastewater	16.37	32,037.97	27.78	222.16	1,099,911.43 <i>gal</i>
Application event totals		16.37	32,874.13	21,985.43	301.60	
01/20/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.37	974.39	2.93	228.98	9,165,929.51 <i>gal</i>
Application event totals		0.37	974.39	2.93	228.98	
02/19/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	978.02	25,682.71	92.91	9,200,034.85 <i>gal</i>
Application event totals		0.00	978.02	25,682.71	92.91	
03/19/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.38	985.72	2.96	231.64	9,272,509.47 <i>gal</i>
Application event totals		0.38	985.72	2.96	231.64	

Field name: 15

Crop: Corn Silage

Plant date: 05/01/2023

05/01/2023: Corn Silage

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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,022.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

04/23/2023	Surface (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
Canal Water	Ground water	0.00	1,254.47	32,942.42	119.17	10,973,806.68 <i>gal</i>
Application event totals		0.00	1,254.47	32,942.42	119.17	

05/10/2023	Surface (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
Canal Water	Ground water	0.05	1,321.77	33,969.55	105.74	11,562,539.56 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	1,095.00 <i>Gal.</i>
Application event totals		53.14	1,321.77	33,969.55	105.74	

05/24/2023	Surface (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 Effluent	Process wastewater	11.68	17,221.79	12.77	87.02	792,905.15 <i>gal</i>
Well Water	Ground water	0.47	1,236.80	3.72	290.65	10,819,190.99 <i>gal</i>
Application event totals		12.15	18,458.59	16.49	377.67	

06/01/2023	Surface (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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	70.78	0.00	0.00	0.00	1,460.00 <i>Gal.</i>
Well Water	Ground water	0.48	1,261.04	3.79	296.35	11,031,292.87 <i>gal</i>
Application event totals		71.26	1,261.04	3.79	296.35	

06/17/2023		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	
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer		70.78	0.00	0.00	0.00	1,460.00 <i>Gal.</i>	
Canal Water		Ground water		0.05	1,426.24	36,654.27	114.10	12,476,362.67 <i>gal</i>	
Application event totals				70.83	1,426.24	36,654.27	114.10		
07/03/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description		Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lagoon Water Effluent		Process wastewater		22.43	33,065.84	24.52	167.07	1,522,377.88 <i>gal</i>	
Well Water		Ground water		0.56	1,472.01	4.42	345.92	12,876,779.10 <i>gal</i>	
Application event totals				22.99	34,537.85	28.94	512.99		
07/21/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description		Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well Water		Ground water		0.44	1,163.38	3.50	273.39	10,176,937.12 <i>gal</i>	
Application event totals				0.44	1,163.38	3.50	273.39		

10/22/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/15/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	359.42	73.02	334.77	2,510.20	511.00 <i>ton</i>
Application event totals		359.42	73.02	334.77	2,510.20	
10/22/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	930.88	24,444.99	88.43	8,143,135.39 <i>gal</i>
Application event totals		0.00	930.88	24,444.99	88.43	
11/19/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.38	0.00	5.57	253.00	10,059,983.58 <i>gal</i>
Application event totals		0.38	0.00	5.57	253.00	
12/20/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	994.56	26,117.10	94.48	8,700,151.52 <i>gal</i>
Lagoon Water Effluent	Process wastewater	16.37	32,037.97	27.78	222.16	1,022,847.58 <i>gal</i>
Application event totals		16.37	33,032.53	26,144.88	316.64	

01/20/2023	Surface (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
Well Water	Ground water	0.41	1,062.31	3.19	249.64	9,292,848.64 <i>gal</i>
Application event totals		0.41	1,062.31	3.19	249.64	

02/19/2023	Surface (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
Canal Water	Ground water	0.00	826.87	21,713.67	78.55	7,233,277.00 <i>gal</i>
Application event totals		0.00	826.87	21,713.67	78.55	

03/19/2023	Surface (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
Well Water	Ground water	0.32	834.58	2.51	196.13	7,300,674.25 <i>gal</i>
Application event totals		0.32	834.58	2.51	196.13	

Field name: 16

Crop: Corn Silage

Plant date: 05/09/2023

05/09/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	234.94	58.11	280.73	5,771.92	549.50 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,099.00 <i>Lbs</i>
Application event totals		248.94	58.11	280.73	5,771.92	
05/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.43	1,121.68	3.37	263.60	10,551,476.12 <i>gal</i>
Application event totals		0.43	1,121.68	3.37	263.60	
05/11/2023	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
Canal Water	Ground water	0.05	1,302.51	33,474.54	104.20	12,252,502.75 <i>gal</i>
Application event totals		0.05	1,302.51	33,474.54	104.20	
06/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.44	1,156.13	3.47	271.69	10,875,481.97 <i>gal</i>
Application event totals		0.44	1,156.13	3.47	271.69	
06/09/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,053.02	27,062.66	84.24	9,905,597.92 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	24.77	0.00	0.00	0.00	549.50 <i>Gal.</i>
Application event totals		24.81	1,053.02	27,062.66	84.24	
06/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	15.66	23,077.20	17.11	116.60	1,142,543.75 <i>gal</i>

Canal Water	Ground water	0.04	1,114.66	28,646.71	89.17	10,485,396.89 <i>gal</i>
Application event totals		15.70	24,191.86	28,663.82	205.77	

07/11/2023	Surface (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 Effluent	Process wastewater	6.72	9,902.53	7.34	50.03	490,270.64 <i>gal</i>
Well Water	Ground water	0.64	1,682.30	5.05	395.34	15,825,082.72 <i>gal</i>
Application event totals		7.36	11,584.83	12.39	445.37	

07/29/2023	Surface (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
Well Water	Ground water	0.53	1,384.77	4.16	325.42	13,026,277.52 <i>gal</i>
Application event totals		0.53	1,384.77	4.16	325.42	

10/22/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	256.73	52.16	239.12	1,793.00	392.50 <i>ton</i>
Application event totals		256.73	52.16	239.12	1,793.00	

10/22/2022	Surface (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
Well Water	Ground water	0.38	0.00	5.54	251.76	10,764,638.08 <i>gal</i>
Application event totals		0.38	0.00	5.54	251.76	

11/19/2022	Surface (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
Canal Water	Ground water	0.00	1,065.94	27,991.54	101.26	10,027,100.11 <i>gal</i>
Application event totals		0.00	1,065.94	27,991.54	101.26	

12/20/2022	Surface (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
Well Water	Ground water	0.29	0.00	4.15	188.44	8,057,491.11 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.73	34,707.80	30.10	240.67	1,191,570.82 <i>gal</i>
Application event totals		18.02	34,707.80	34.25	429.11	

01/20/2023	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		
Canal Water	Ground water	0.00	917.74	24,099.86	87.19	8,633,026.66 <i>gal</i>		
Application event totals		0.00	917.74	24,099.86	87.19			
02/19/2023	Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Well Water	Ground water	0.38	1,001.58	3.01	235.37	9,421,722.64 <i>gal</i>		
Application event totals		0.38	1,001.58	3.01	235.37			
03/19/2023	Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Canal Water	Ground water	0.00	974.39	25,587.50	92.57	9,165,929.51 <i>gal</i>		
Application event totals		0.00	974.39	25,587.50	92.57			

Field name: 17

Crop: Alfalfa

Plant date: 01/02/2023

01/02/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,000.72 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
01/31/2023	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
Well Water	Ground water	0.55	1,443.91	4.34	339.32	12,367,978.67 <i>gal</i>
Application event totals		0.55	1,443.91	4.34	339.32	
03/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,494.22	39,238.14	141.95	12,798,877.41 <i>gal</i>
Application event totals		0.00	1,494.22	39,238.14	141.95	
04/09/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,503.96	39,494.01	142.88	12,882,340.35 <i>gal</i>
Application event totals		0.00	1,503.96	39,494.01	142.88	
05/11/2023	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
Canal Water	Ground water	0.04	1,195.55	30,725.76	95.64	10,240,654.98 <i>gal</i>
Application event totals		0.04	1,195.55	30,725.76	95.64	
06/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.43	1,122.36	3.37	263.76	9,613,715.81 <i>gal</i>
Application event totals		0.43	1,122.36	3.37	263.76	
07/14/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Well Water	Ground water	0.67	1,747.11	5.25	410.57	14,965,020.84 <i>gal</i>
Application event totals		0.67	1,747.11	5.25	410.57	

08/15/2023	Surface (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
Well Water	Ground water	0.64	1,663.94	5.00	391.03	14,252,677.89 <i>gal</i>
Application event totals		0.64	1,663.94	5.00	391.03	

09/16/2023	Surface (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
Canal Water	Ground water	0.06	1,587.35	40,794.91	126.99	13,596,624.15 <i>gal</i>
Application event totals		0.06	1,587.35	40,794.91	126.99	

10/25/2023	Surface (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
Well Water	Ground water	0.46	1,213.46	3.65	285.16	10,393,993.06 <i>gal</i>
Lagoon Water Effluent	Process wastewater	8.13	15,952.82	79.34	113.30	388,197.69 <i>gal</i>
Application event totals		8.59	17,166.28	82.99	398.46	

Field name: 18E

Crop: Alfalfa

Plant date: 01/02/2023

01/02/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	2,081.94 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

02/04/2023	Surface (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
Canal Water	Ground water	0.00	1,410.15	37,030.47	133.96	25,129,183.58 <i>gal</i>
Application event totals		0.00	1,410.15	37,030.47	133.96	

03/11/2023	Surface (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
Canal Water	Ground water	0.00	1,396.78	36,679.39	132.69	24,890,934.80 <i>gal</i>
Application event totals		0.00	1,396.78	36,679.39	132.69	

04/10/2023	Surface (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
Canal Water	Ground water	0.00	1,016.54	26,694.31	96.57	18,114,979.62 <i>gal</i>
Application event totals		0.00	1,016.54	26,694.31	96.57	

05/12/2023	Surface (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
Well Water	Ground water	0.05	1,327.66	34,120.97	106.21	23,659,310.72 <i>gal</i>
Application event totals		0.05	1,327.66	34,120.97	106.21	

06/13/2023	Surface (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
Well Water	Ground water	0.05	1,489.91	38,290.73	119.19	26,550,598.74 <i>gal</i>
Application event totals		0.05	1,489.91	38,290.73	119.19	

07/15/2023	Surface (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
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Well Water	Ground water	0.05	1,332.65	34,249.09	106.61	23,748,148.57 <i>gal</i>
Application event totals		0.05	1,332.65	34,249.09	106.61	
08/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.05	1,278.72	32,863.05	102.30	22,787,077.78 <i>gal</i>
Application event totals		0.05	1,278.72	32,863.05	102.30	
09/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,517.56	39,001.22	121.40	27,043,249.52 <i>gal</i>
Application event totals		0.05	1,517.56	39,001.22	121.40	

Field name: 18W

Crop: Alfalfa

Plant date: 01/02/2023

01/02/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,545.74 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.05	1,339.45	34,423.80	107.16	17,721,796.64 <i>gal</i>
Application event totals		0.05	1,339.45	34,423.80	107.16	
03/11/2023	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
Canal Water	Ground water	0.00	1,144.12	30,044.49	108.69	15,137,430.36 <i>gal</i>
Application event totals		0.00	1,144.12	30,044.49	108.69	
04/10/2023	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
Canal Water	Ground water	0.00	1,592.79	41,826.64	151.31	21,073,677.86 <i>gal</i>
Application event totals		0.00	1,592.79	41,826.64	151.31	
05/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.05	1,478.58	37,999.54	118.29	19,562,633.93 <i>gal</i>
Application event totals		0.05	1,478.58	37,999.54	118.29	
06/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.06	1,602.08	41,173.45	128.17	21,196,601.26 <i>gal</i>
Application event totals		0.06	1,602.08	41,173.45	128.17	
07/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Well Water	Ground water	0.06	1,581.69	40,649.32	126.53	20,926,771.37 <i>gal</i>
Application event totals		0.06	1,581.69	40,649.32	126.53	
08/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.04	1,120.55	28,798.12	89.64	14,825,628.61 <i>gal</i>
Application event totals		0.04	1,120.55	28,798.12	89.64	
09/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,154.31	29,665.85	92.35	15,272,345.30 <i>gal</i>
Application event totals		0.04	1,154.31	29,665.85	92.35	
09/22/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	985.72	25,333.03	78.86	13,041,755.47 <i>gal</i>
Application event totals		0.04	985.72	25,333.03	78.86	

Field name: 25

Crop: Alfalfa

Plant date: 01/02/2023

01/02/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,014.58 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

02/04/2023	Surface (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
Canal Water	Ground water	0.00	1,581.46	41,529.11	150.24	13,733,772.66 <i>gal</i>
Application event totals		0.00	1,581.46	41,529.11	150.24	

03/11/2023	Surface (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
Canal Water	Ground water	0.00	1,358.71	35,679.69	129.08	11,799,354.81 <i>gal</i>
Application event totals		0.00	1,358.71	35,679.69	129.08	

04/10/2023	Surface (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
Canal Water	Ground water	0.00	1,178.33	30,943.03	111.94	10,232,929.40 <i>gal</i>
Application event totals		0.00	1,178.33	30,943.03	111.94	

05/12/2023	Surface (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
Canal Water	Ground water	0.06	1,554.72	39,956.30	124.38	13,501,563.81 <i>gal</i>
Application event totals		0.06	1,554.72	39,956.30	124.38	

06/13/2023	Surface (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
Well Water	Ground water	0.58	1,509.40	4.53	354.71	13,107,989.02 <i>gal</i>
Application event totals		0.58	1,509.40	4.53	354.71	

07/15/2023	Surface (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
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Well Water	Ground water	0.57	1,485.38	4.46	349.06	12,899,394.79 <i>gal</i>
Application event totals		0.57	1,485.38	4.46	349.06	
08/16/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.59	1,548.15	4.65	363.81	13,444,494.99 <i>gal</i>
Application event totals		0.59	1,548.15	4.65	363.81	
09/17/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.58	1,527.07	4.59	358.86	13,261,483.11 <i>gal</i>
Application event totals		0.58	1,527.07	4.59	358.86	

Field name: 26

Crop: Alfalfa

Plant date: 01/02/2023

01/02/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,092.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

02/04/2023	Surface (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
Canal Water	Ground water	0.00	1,188.53	31,210.80	112.91	11,109,089.54 <i>gal</i>
Application event totals		0.00	1,188.53	31,210.80	112.91	

03/11/2023	Surface (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
Canal Water	Ground water	0.00	1,324.94	34,793.05	125.87	12,384,146.67 <i>gal</i>
Application event totals		0.00	1,324.94	34,793.05	125.87	

04/10/2023	Surface (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
Canal Water	Ground water	0.00	1,389.07	36,477.07	131.96	12,983,550.36 <i>gal</i>
Application event totals		0.00	1,389.07	36,477.07	131.96	

05/12/2023	Surface (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
Canal Water	Ground water	0.04	1,038.75	26,695.77	83.10	9,709,069.36 <i>gal</i>
Application event totals		0.04	1,038.75	26,695.77	83.10	

06/13/2023	Surface (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
Well Water	Ground water	0.50	1,311.12	3.94	308.11	12,254,945.85 <i>gal</i>
Application event totals		0.50	1,311.12	3.94	308.11	

07/15/2023	Surface (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
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Well Water	Ground water	0.52	1,352.82	4.06	317.91	12,644,664.19 <i>gal</i>
Application event totals		0.52	1,352.82	4.06	317.91	
08/16/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.46	1,215.72	3.65	285.69	11,363,253.41 <i>gal</i>
Application event totals		0.46	1,215.72	3.65	285.69	
09/17/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.44	1,155.45	3.47	271.53	10,799,856.73 <i>gal</i>
Application event totals		0.44	1,155.45	3.47	271.53	

Field name: 27

Crop: Oat

Plant date: 01/25/2023

01/25/2023: Oat

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/22/2023	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
Corral Solids	Corral Solids	198.61	52.01	268.08	3,400.32	222.00 <i>ton</i>
Application event totals		198.61	52.01	268.08	3,400.32	
01/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.35	917.74	2.76	215.67	4,069,069.89 <i>gal</i>
Application event totals		0.35	917.74	2.76	215.67	
02/22/2023	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
Canal Water	Ground water	0.00	958.53	25,170.96	91.06	4,249,917.26 <i>gal</i>
Application event totals		0.00	958.53	25,170.96	91.06	
03/29/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.35	917.74	2.76	215.67	4,069,069.89 <i>gal</i>
Application event totals		0.35	917.74	2.76	215.67	
05/03/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.43	1,133.01	3.40	266.26	5,023,542.84 <i>gal</i>
Application event totals		0.43	1,133.01	3.40	266.26	
06/02/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,121.68	28,827.24	89.73	4,973,307.22 <i>gal</i>
Application event totals		0.04	1,121.68	28,827.24	89.73	

Field name: 28 Crop: Oat Plant date: 02/15/2023

02/15/2023: Oat

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
02/02/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	165.51	43.34	223.40	2,833.60	99.65 <i>ton</i>
Application event totals		165.51	43.34	223.40	2,833.60	
02/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	929.07	24,397.39	88.26	2,218,858.12 <i>gal</i>
Application event totals		0.00	929.07	24,397.39	88.26	
03/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.32	836.16	2.51	196.50	1,996,972.39 <i>gal</i>
Application event totals		0.32	836.16	2.51	196.50	
04/19/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	999.32	26,242.07	94.94	2,386,625.42 <i>gal</i>
Application event totals		0.00	999.32	26,242.07	94.94	
05/24/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.44	1,144.34	3.44	268.92	2,732,983.95 <i>gal</i>
Application event totals		0.44	1,144.34	3.44	268.92	
06/23/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.44	1,155.67	3.47	271.58	2,760,043.04 <i>gal</i>
Application event totals		0.44	1,155.67	3.47	271.58	

Field name: 29

Crop: Oat

Plant date: 02/20/2023

02/20/2023: Oat

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
02/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	231.71	60.68	312.77	3,967.04	267.40 <i>ton</i>
Application event totals		231.71	60.68	312.77	3,967.04	
02/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,019.71	26,777.62	96.87	4,667,821.79 <i>gal</i>
Application event totals		0.00	1,019.71	26,777.62	96.87	
03/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.37	958.53	2.88	225.25	4,387,752.50 <i>gal</i>
Application event totals		0.37	958.53	2.88	225.25	
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
Canal Water	Ground water	0.00	989.12	25,974.29	93.97	4,527,786.90 <i>gal</i>
Application event totals		0.00	989.12	25,974.29	93.97	
05/29/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.44	1,144.34	3.44	268.92	5,238,333.54 <i>gal</i>
Application event totals		0.44	1,144.34	3.44	268.92	
06/28/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.44	1,155.67	3.47	271.58	5,290,197.93 <i>gal</i>
Application event totals		0.44	1,155.67	3.47	271.58	

Field name: 30

Crop: Oat

Plant date: 02/17/2023

02/17/2023: Oat

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
02/14/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	165.51	43.34	223.40	2,833.60	163.45 <i>ton</i>
Application event totals		165.51	43.34	223.40	2,833.60	
02/17/2023	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
Canal Water	Ground water	0.00	1,076.36	28,265.27	102.25	4,216,449.41 <i>gal</i>
Application event totals		0.00	1,076.36	28,265.27	102.25	
03/17/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.34	887.15	2.67	208.48	3,475,241.95 <i>gal</i>
Application event totals		0.34	887.15	2.67	208.48	
04/21/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,009.51	26,509.84	95.90	3,954,585.64 <i>gal</i>
Application event totals		0.00	1,009.51	26,509.84	95.90	
05/26/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.42	1,110.35	3.34	260.93	4,349,600.52 <i>gal</i>
Application event totals		0.42	1,110.35	3.34	260.93	
06/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.44	1,155.67	3.47	271.58	4,527,135.07 <i>gal</i>
Application event totals		0.44	1,155.67	3.47	271.58	

Field name: 31

Crop: Alfalfa

Plant date: 01/02/2023

01/02/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	197.12 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.50	1,309.76	3.94	307.79	2,209,881.00 <i>gal</i>
Application event totals		0.50	1,309.76	3.94	307.79	
03/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.42	1,090.86	3.28	256.35	1,840,547.93 <i>gal</i>
Application event totals		0.42	1,090.86	3.28	256.35	
04/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.48	1,261.72	3.79	296.50	2,128,826.59 <i>gal</i>
Application event totals		0.48	1,261.72	3.79	296.50	
05/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.52	1,359.62	4.08	319.51	2,293,994.04 <i>gal</i>
Application event totals		0.52	1,359.62	4.08	319.51	
06/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,314.29	33,777.37	105.14	2,217,527.64 <i>gal</i>
Application event totals		0.05	1,314.29	33,777.37	105.14	
07/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Canal Water	Ground water	0.05	1,414.00	36,339.79	113.12	2,385,753.71 <i>gal</i>
Application event totals		0.05	1,414.00	36,339.79	113.12	

08/16/2023	Surface (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
Canal Water	Ground water	0.05	1,414.00	36,339.79	113.12	2,385,753.71 <i>gal</i>
Application event totals		0.05	1,414.00	36,339.79	113.12	

09/17/2023	Surface (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
Canal Water	Ground water	0.05	1,359.62	34,942.11	108.77	2,293,994.04 <i>gal</i>
Application event totals		0.05	1,359.62	34,942.11	108.77	

Field name: 32

Crop: Alfalfa

Plant date: 01/02/2023

01/02/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	282.52 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

02/04/2023	Surface (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
Well Water	Ground water	0.50	1,309.76	3.94	307.79	3,167,286.90 <i>gal</i>
Application event totals		0.50	1,309.76	3.94	307.79	

03/11/2023	Surface (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
Well Water	Ground water	0.42	1,090.86	3.28	256.35	2,637,944.46 <i>gal</i>
Application event totals		0.42	1,090.86	3.28	256.35	

04/10/2023	Surface (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
Well Water	Ground water	0.48	1,261.72	3.79	296.50	3,051,116.58 <i>gal</i>
Application event totals		0.48	1,261.72	3.79	296.50	

05/12/2023	Surface (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
Canal Water	Ground water	0.05	1,359.62	34,942.11	108.77	3,287,840.95 <i>gal</i>
Application event totals		0.05	1,359.62	34,942.11	108.77	

06/13/2023	Surface (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
Canal Water	Ground water	0.05	1,366.87	35,128.47	109.35	3,305,376.14 <i>gal</i>
Application event totals		0.05	1,366.87	35,128.47	109.35	

07/15/2023	Surface (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
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Canal Water	Ground water	0.05	1,441.19	37,038.64	115.30	3,485,111.48 <i>gal</i>
Application event totals		0.05	1,441.19	37,038.64	115.30	
08/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.55	1,427.60	4.29	335.49	3,452,233.10 <i>gal</i>
Application event totals		0.55	1,427.60	4.29	335.49	
09/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,346.02	34,592.69	107.68	3,254,962.57 <i>gal</i>
Application event totals		0.05	1,346.02	34,592.69	107.68	

Field name: 6

Crop: Alfalfa

Plant date: 01/02/2023

01/02/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	335.86 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.58	1,510.08	4.54	354.87	4,341,138.24 <i>gal</i>
Application event totals		0.58	1,510.08	4.54	354.87	
03/11/2023	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
Canal Water	Ground water	0.00	1,077.72	28,300.97	102.38	3,098,207.32 <i>gal</i>
Application event totals		0.00	1,077.72	28,300.97	102.38	
03/14/2023	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
Canal Water	Ground water	0.00	1,359.62	35,703.49	129.16	3,908,587.83 <i>gal</i>
Application event totals		0.00	1,359.62	35,703.49	129.16	
04/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.50	1,314.29	3.95	308.86	3,778,301.70 <i>gal</i>
Application event totals		0.50	1,314.29	3.95	308.86	
05/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.51	1,332.42	4.00	313.12	3,830,416.15 <i>gal</i>
Application event totals		0.51	1,332.42	4.00	313.12	
06/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Well Water	Ground water	0.52	1,353.72	4.07	318.13	3,891,650.60 <i>gal</i>
Application event totals		0.52	1,353.72	4.07	318.13	

07/15/2023	Surface (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
Canal Water	Ground water	0.05	1,441.19	37,038.64	115.30	4,143,103.19 <i>gal</i>
Application event totals		0.05	1,441.19	37,038.64	115.30	

08/16/2023	Surface (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
Well Water	Ground water	0.54	1,400.40	4.21	329.09	4,025,845.36 <i>gal</i>
Application event totals		0.54	1,400.40	4.21	329.09	

09/17/2023	Surface (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
Well Water	Ground water	0.52	1,359.62	4.08	319.51	3,908,587.83 <i>gal</i>
Application event totals		0.52	1,359.62	4.08	319.51	

10/15/2023	Surface (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
Canal Water	Ground water	0.05	1,359.62	34,942.11	108.77	3,908,587.83 <i>gal</i>
Application event totals		0.05	1,359.62	34,942.11	108.77	

Field name: 7Crop: AlfalfaPlant date: 01/02/2023**01/02/2023: Alfalfa**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	498.54 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,520.73	39,934.36	144.47	6,489,296.22 <i>gal</i>
Application event totals		0.00	1,520.73	39,934.36	144.47	
03/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.51	1,332.88	4.00	313.23	5,687,682.96 <i>gal</i>
Application event totals		0.51	1,332.88	4.00	313.23	
04/10/2023	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
Canal Water	Ground water	0.00	1,568.32	41,183.98	148.99	6,692,358.73 <i>gal</i>
Application event totals		0.00	1,568.32	41,183.98	148.99	
05/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,042.60	26,794.77	83.41	4,449,001.79 <i>gal</i>
Application event totals		0.04	1,042.60	26,794.77	83.41	
06/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.60	1,579.42	4.75	371.16	6,739,739.76 <i>gal</i>
Application event totals		0.60	1,579.42	4.75	371.16	
07/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Canal Water	Ground water	0.06	1,739.85	44,714.25	139.19	7,424,350.54 <i>gal</i>
Application event totals		0.06	1,739.85	44,714.25	139.19	
08/16/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.45	1,189.89	3.58	279.62	5,077,528.56 <i>gal</i>
Application event totals		0.45	1,189.89	3.58	279.62	
09/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.42	1,106.27	3.32	259.97	4,720,718.84 <i>gal</i>
Application event totals		0.42	1,106.27	3.32	259.97	
10/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.57	1,486.29	4.47	349.28	6,342,317.72 <i>gal</i>
Application event totals		0.57	1,486.29	4.47	349.28	

Field name: 8

Crop: Alfalfa

Plant date: 01/05/2023

01/05/2023: Alfalfa

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,610.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

02/07/2023	Surface (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
Canal Water	Ground water	0.00	1,344.66	35,310.75	127.74	18,530,356.08 <i>gal</i>
Application event totals		0.00	1,344.66	35,310.75	127.74	

03/14/2023	Surface (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
Canal Water	Ground water	0.00	1,191.25	31,282.21	113.17	16,416,259.04 <i>gal</i>
Application event totals		0.00	1,191.25	31,282.21	113.17	

04/13/2023	Surface (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
Canal Water	Ground water	0.00	1,362.56	35,780.85	129.44	18,777,052.76 <i>gal</i>
Application event totals		0.00	1,362.56	35,780.85	129.44	

05/15/2023	Surface (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
Well Water	Ground water	0.46	1,208.24	3.63	283.94	16,650,464.15 <i>gal</i>
Application event totals		0.46	1,208.24	3.63	283.94	

06/16/2023	Surface (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
Well Water	Ground water	0.62	1,634.48	4.91	384.10	22,524,343.57 <i>gal</i>
Application event totals		0.62	1,634.48	4.91	384.10	

07/18/2023	Surface (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
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Well Water	Ground water	0.43	1,130.29	3.40	265.62	15,576,241.04 <i>gal</i>
Application event totals		0.43	1,130.29	3.40	265.62	
08/19/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.50	1,298.43	3.90	305.13	17,893,316.56 <i>gal</i>
Application event totals		0.50	1,298.43	3.90	305.13	
09/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.06	1,614.32	41,487.93	129.15	22,246,420.25 <i>gal</i>
Application event totals		0.06	1,614.32	41,487.93	129.15	

Field name: 9

Crop: Oat

Plant date: 02/06/2023

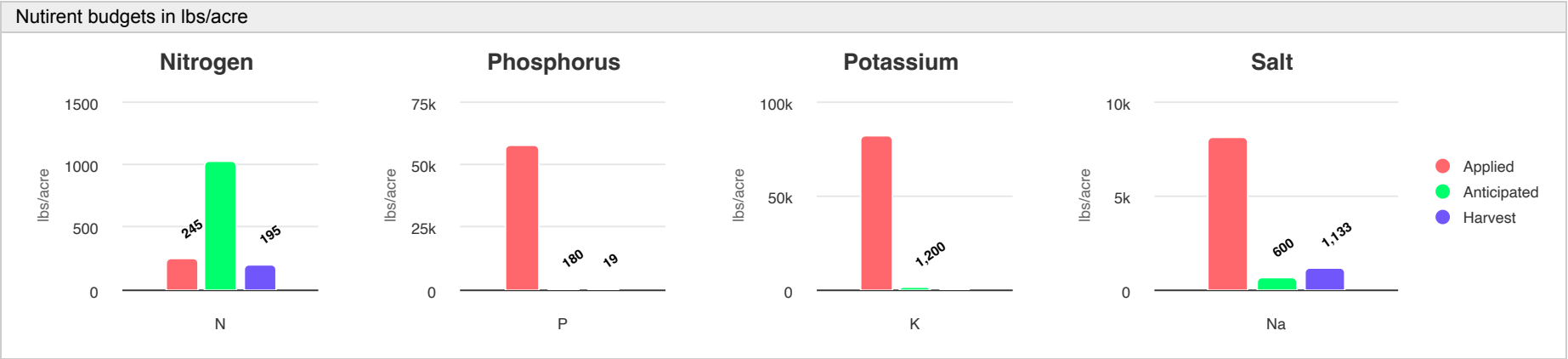
02/06/2023: Oat

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
02/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	64.45	19.07	94.56	3,386.50	193.60 <i>ton</i>
Application event totals		64.45	19.07	94.56	3,386.50	
02/06/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.35	929.07	2.79	218.33	4,310,797.18 <i>gal</i>
Application event totals		0.35	929.07	2.79	218.33	
03/06/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	948.33	24,903.19	90.09	4,400,167.41 <i>gal</i>
Application event totals		0.00	948.33	24,903.19	90.09	
04/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.38	989.12	2.97	232.44	4,589,421.75 <i>gal</i>
Application event totals		0.38	989.12	2.97	232.44	
05/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,133.01	29,118.42	90.64	5,257,069.86 <i>gal</i>
Application event totals		0.04	1,133.01	29,118.42	90.64	
06/14/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.45	1,178.33	3.54	276.91	5,467,352.45 <i>gal</i>
Application event totals		0.45	1,178.33	3.54	276.91	

B. NUTRIENT BUDGET

10 - 05/10/2023: Corn, Early Silage

Field name: 10 Crop: Corn, Early Silage Plant date: 05/10/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	84.93	0.00	0.00	0.00
Dry manure	128.90	38.14	189.12	6,773.00
Process wastewater	30.26	51,456.90	154.63	316.39
Fresh water	1.22	6,120.30	81,371.21	964.75
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	245.31	57,615.34	81,714.96	8,054.14
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	195.36	19.07	378.32	1,133.42
Nutrient balance	49.94	57,596.27	81,336.64	6,920.72
Applied to removed ratio	1.26	3,021.07	215.99	7.11

Fresh water applied	
71,749,510.94	gallons
2,642.29	acre-inches
27.01	inches/acre

Process wastewater applied	
2,393,509.95	gallons
88.14	acre-inches
0.90	inches/acre

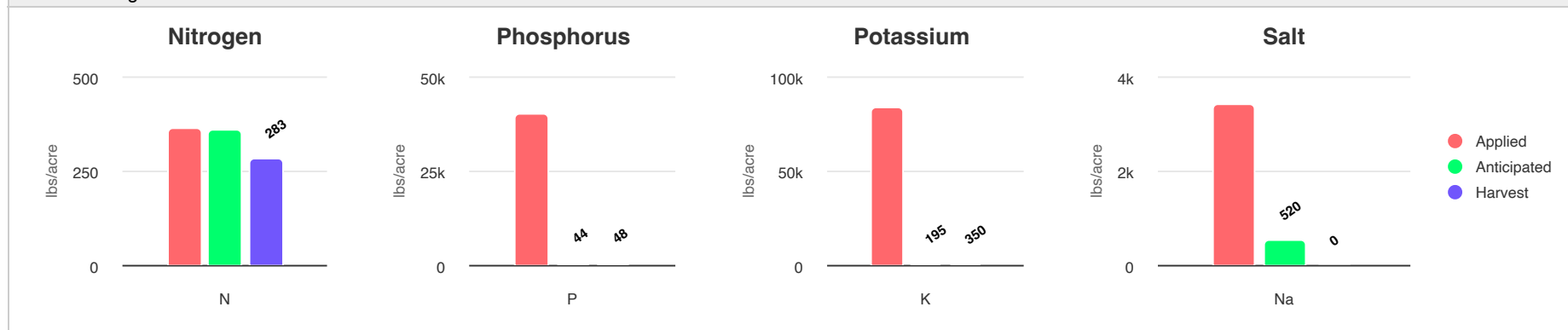
Total Harvests for the crop	
1	harvests

Field name: 10

Crop: Triticale

Plant date: 10/22/2022

Nutrient budgets 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	35.39	0.00	0.00	0.00
Dry manure	308.07	62.59	286.95	2,151.60
Process wastewater	17.73	34,707.80	30.10	240.67
Fresh water	1.15	5,244.94	82,998.10	1,017.46
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	362.34	40,015.33	83,315.15	3,409.73
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	283.10	47.83	350.06	0.00
Nutrient balance	79.24	39,967.50	82,965.08	3,409.73
Applied to removed ratio	1.28	836.60	238.00	0.00

Fresh water applied

73,601,095.43 gallons
 2,710.48 acre-inches
 27.71 inches/acre

Process wastewater applied

1,484,985.67 gallons
 54.69 acre-inches
 0.56 inches/acre

Total Harvests for the crop

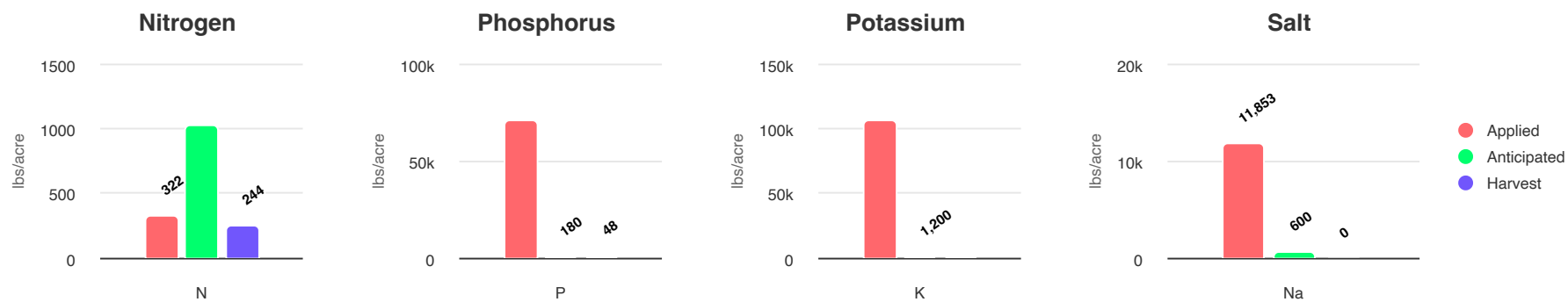
1 harvests

Field name: 11

Crop: Corn, Early Silage

Plant date: 04/10/2023

Nutrient budgets 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	70.78	0.00	0.00	0.00
Dry manure	193.34	57.21	283.68	10,159.50
Process wastewater	42.27	62,299.82	46.20	314.78
Fresh water	1.86	8,583.70	105,888.00	1,378.64
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	322.25	70,940.73	106,217.88	11,852.92
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	244.06	47.50	475.02	0.00
Nutrient balance	78.19	70,893.22	105,742.86	11,852.92
Applied to removed ratio	1.32	1,493.43	223.61	0.00

Fresh water applied

39,714,413.76 gallons
 1,462.55 acre-inches
 37.88 inches/acre

Process wastewater applied

1,517,073.81 gallons
 55.87 acre-inches
 1.45 inches/acre

Total Harvests for the crop

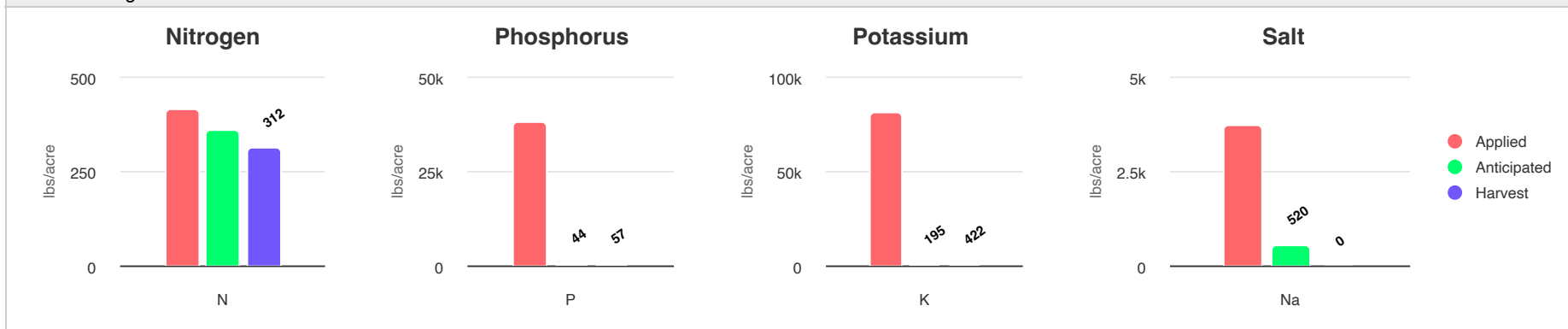
1 harvests

Field name: 11

Crop: Triticale

Plant date: 10/22/2022

Nutrient budgets 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	35.39	0.00	0.00	0.00
Dry manure	359.42	73.02	334.77	2,510.20
Process wastewater	16.81	32,907.22	28.53	228.19
Fresh water	1.09	5,069.55	80,474.44	972.96
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	412.70	38,049.79	80,837.74	3,711.35
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	311.59	56.58	422.23	0.00
Nutrient balance	101.11	37,993.21	80,415.51	3,711.35
Applied to removed ratio	1.32	672.48	191.45	0.00

Fresh water applied

27,883,963.76 gallons
 1,026.87 acre-inches
 26.60 inches/acre

Process wastewater applied

555,666.27 gallons
 20.46 acre-inches
 0.53 inches/acre

Total Harvests for the crop

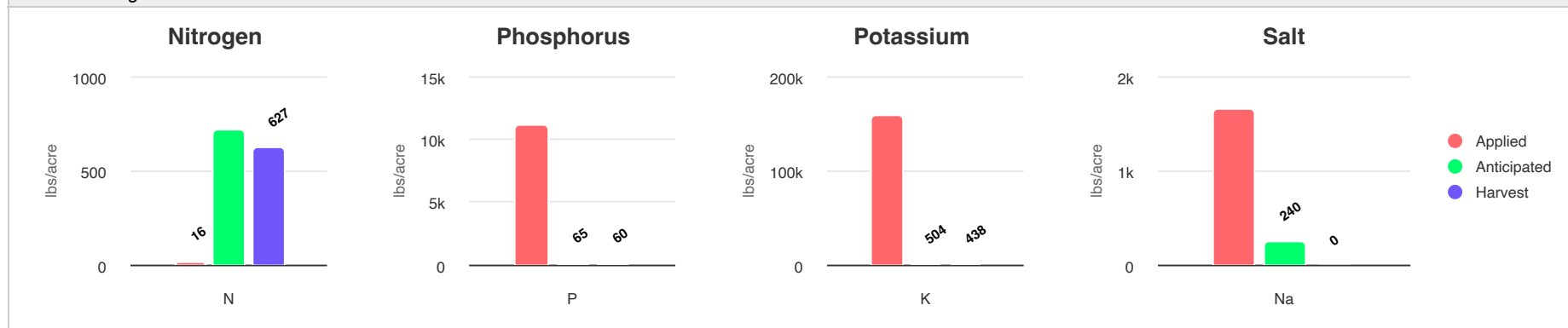
1 harvests

Field name: 12

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.10	11,115.54	158,174.55	1,658.26
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.10	11,115.54	158,174.55	1,658.26
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	627.26	59.96	438.03	0.00
Nutrient balance	-611.16	11,055.58	157,736.52	1,658.26
Applied to removed ratio	0.03	185.39	361.11	0.00

Fresh water applied

28,824,461.80 gallons
 1,061.51 acre-inches
 49.05 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

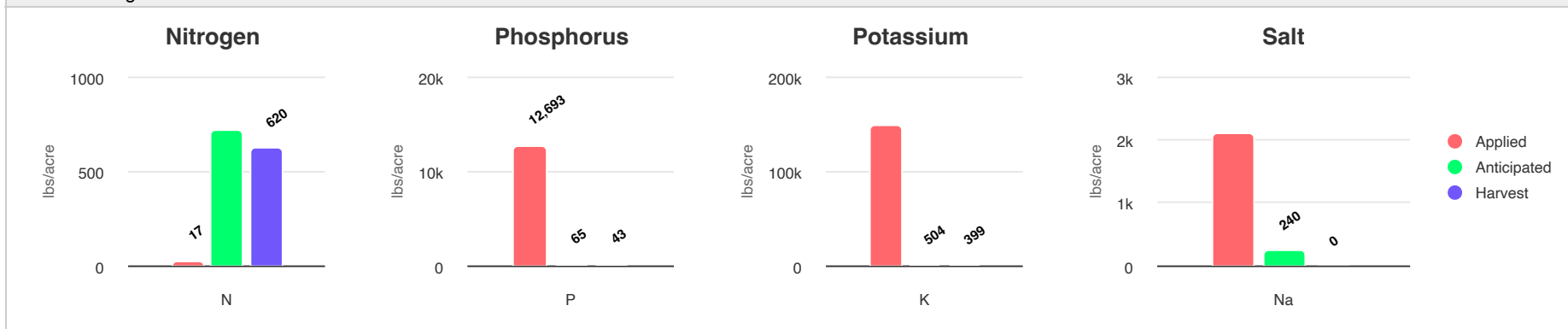
8 harvests

Field name: 13

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.85	12,693.14	148,763.47	2,085.79
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.85	12,693.14	148,763.47	2,085.79
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	620.25	42.84	398.70	0.00
Nutrient balance	-603.40	12,650.30	148,364.77	2,085.79
Applied to removed ratio	0.03	296.32	373.12	0.00

Fresh water applied

111,036,454.16 gallons
 4,089.10 acre-inches
 56.02 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

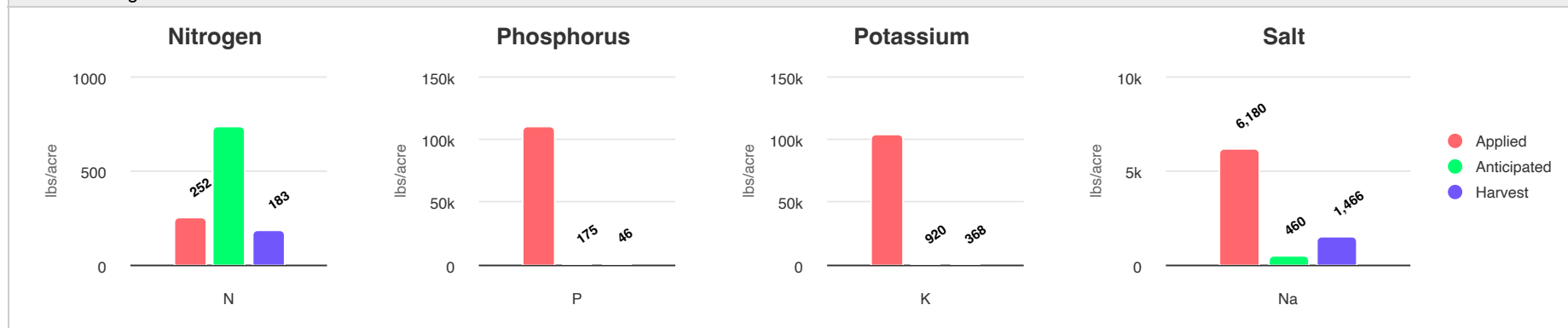
8 harvests

Field name: 14

Crop: Corn, Late Silage

Plant date: 05/05/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	167.82	41.51	200.52	4,122.80
Process wastewater	67.94	100,144.71	74.26	505.99
Fresh water	2.14	9,243.34	102,943.54	1,551.41
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	251.90	109,429.56	103,218.32	6,180.20
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	183.06	45.59	367.87	1,466.21
Nutrient balance	68.84	109,383.97	102,850.44	4,713.99
Applied to removed ratio	1.38	2,400.40	280.58	4.22

Fresh water applied

86,950,560.16 gallons
 3,202.09 acre-inches
 40.79 inches/acre

Process wastewater applied

4,958,128.14 gallons
 182.59 acre-inches
 2.33 inches/acre

Total Harvests for the crop

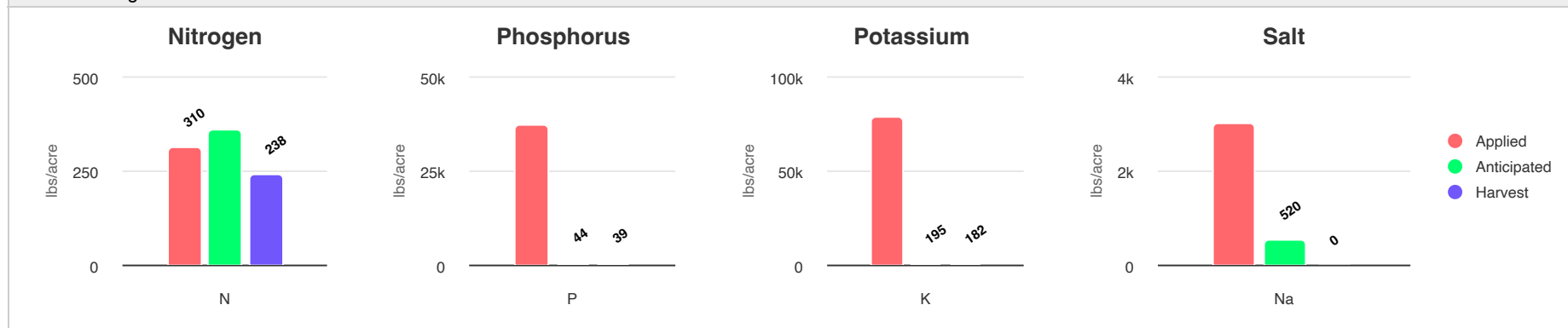
1 harvests

Field name: 14

Crop: Triticale

Plant date: 10/22/2022

Nutrient budgets 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	35.39	0.00	0.00	0.00
Dry manure	256.73	52.16	239.12	1,793.00
Process wastewater	16.37	32,037.97	27.78	222.16
Fresh water	1.10	4,918.63	77,701.80	973.79
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	309.59	37,008.76	77,968.70	2,988.95
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	238.00	39.05	182.30	0.00
Nutrient balance	71.58	36,969.71	77,786.40	2,988.95
Applied to removed ratio	1.30	947.64	427.69	0.00

Fresh water applied

56,193,541.24 gallons
2,069.42 acre-inches
26.36 inches/acre

Process wastewater applied

1,099,911.43 gallons
40.51 acre-inches
0.52 inches/acre

Total Harvests for the crop

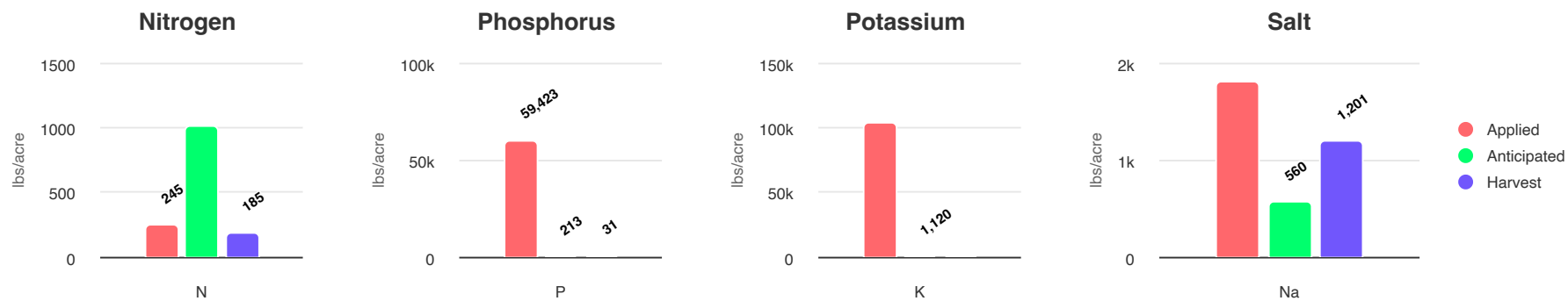
1 harvests

Field name: 15

Crop: Corn Silage

Plant date: 05/01/2023

Nutrient budgets 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	194.65	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	34.11	50,287.63	37.29	254.09
Fresh water	2.05	9,135.71	103,581.67	1,545.32
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	244.81	59,423.34	103,618.96	1,799.41
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	184.59	30.56	373.84	1,200.63
Nutrient balance	60.22	59,392.78	103,245.12	598.78
Applied to removed ratio	1.33	1,944.57	277.18	1.50

Fresh water applied

79,916,908.98 gallons
 2,943.07 acre-inches
 40.32 inches/acre

Process wastewater applied

2,315,283.03 gallons
 85.26 acre-inches
 1.17 inches/acre

Total Harvests for the crop

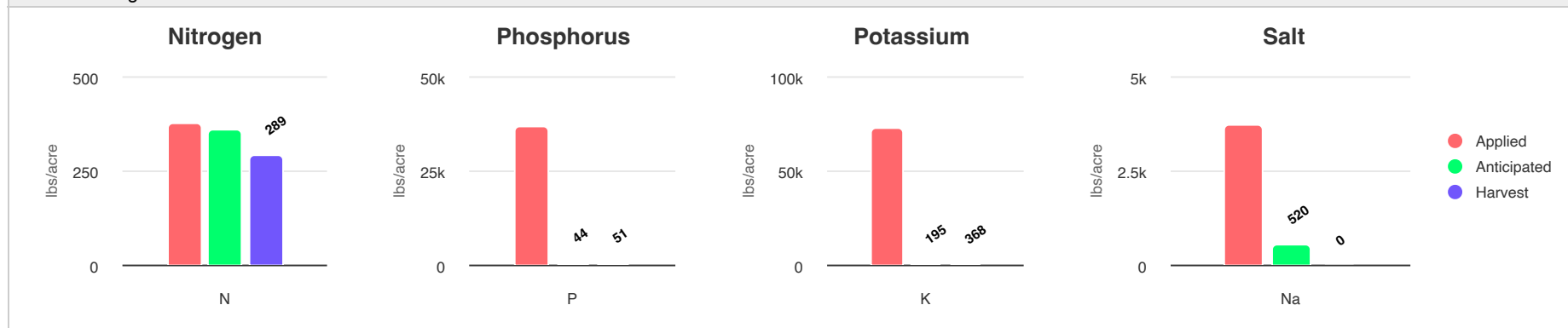
1 harvests

Field name: 15

Crop: Triticale

Plant date: 10/22/2022

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	359.42	73.02	334.77	2,510.20
Process wastewater	16.37	32,037.97	27.78	222.16
Fresh water	1.11	4,649.20	72,287.03	960.23
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	376.90	36,760.19	72,649.58	3,692.59
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	288.82	50.50	367.88	0.00
Nutrient balance	88.07	36,709.69	72,281.70	3,692.59
Applied to removed ratio	1.30	727.88	197.48	0.00

Fresh water applied

50,730,070.37 gallons
 1,868.22 acre-inches
 25.59 inches/acre

Process wastewater applied

1,022,847.58 gallons
 37.67 acre-inches
 0.52 inches/acre

Total Harvests for the crop

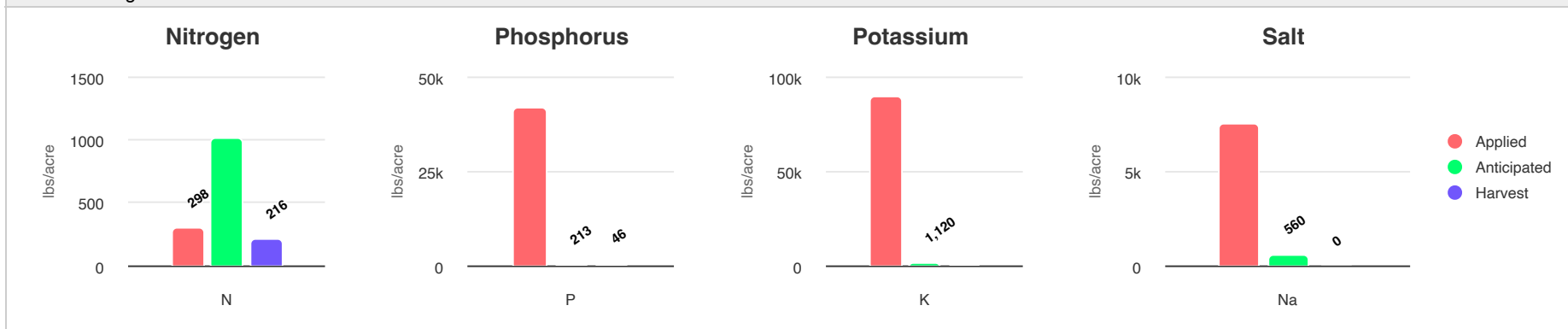
1 harvests

Field name: 16

Crop: Corn Silage

Plant date: 05/09/2023

Nutrient budgets 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	24.77	0.00	0.00	0.00
Dry manure	234.94	58.11	280.73	5,771.92
Process wastewater	22.38	32,979.73	24.45	166.63
Fresh water	2.17	8,815.07	89,199.96	1,533.66
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	298.26	41,852.91	89,505.14	7,472.21
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	216.20	46.10	297.27	0.00
Nutrient balance	82.06	41,806.81	89,207.86	7,472.21
Applied to removed ratio	1.38	907.85	301.09	0.00

Fresh water applied

82,921,815.88 gallons
 3,053.73 acre-inches
 38.90 inches/acre

Process wastewater applied

1,632,814.38 gallons
 60.13 acre-inches
 0.77 inches/acre

Total Harvests for the crop

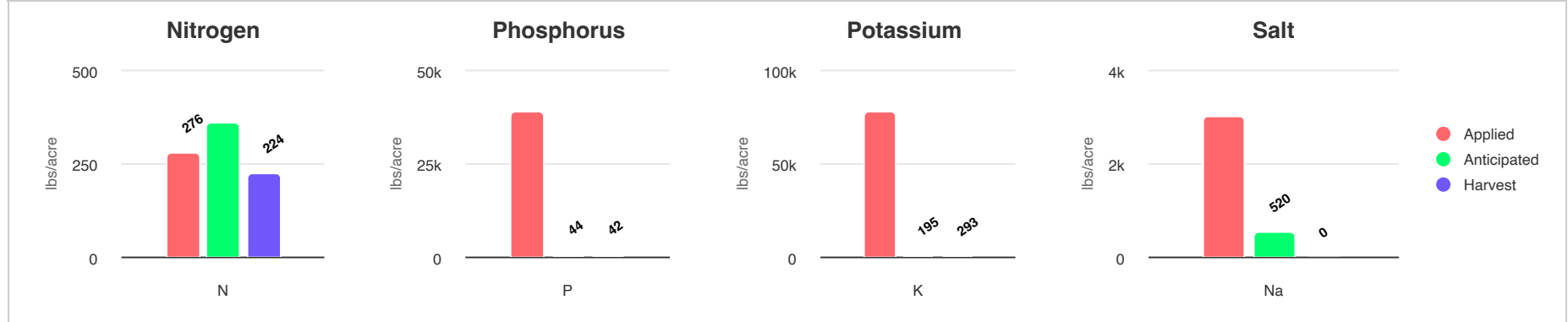
1 harvests

Field name: 16

Crop: Triticale

Plant date: 10/22/2022

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	256.73	52.16	239.12	1,793.00
Process wastewater	17.73	34,707.80	30.10	240.67
Fresh water	1.05	3,959.65	77,691.60	956.59
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	275.51	38,719.61	77,960.82	2,990.26
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	224.27	42.14	292.91	0.00
Nutrient balance	51.23	38,677.47	77,667.91	2,990.26
Applied to removed ratio	1.23	918.82	266.16	0.00

Fresh water applied

56,069,908.09 gallons
 2,064.86 acre-inches
 26.30 inches/acre

Process wastewater applied

1,191,570.82 gallons
 43.88 acre-inches
 0.56 inches/acre

Total Harvests for the crop

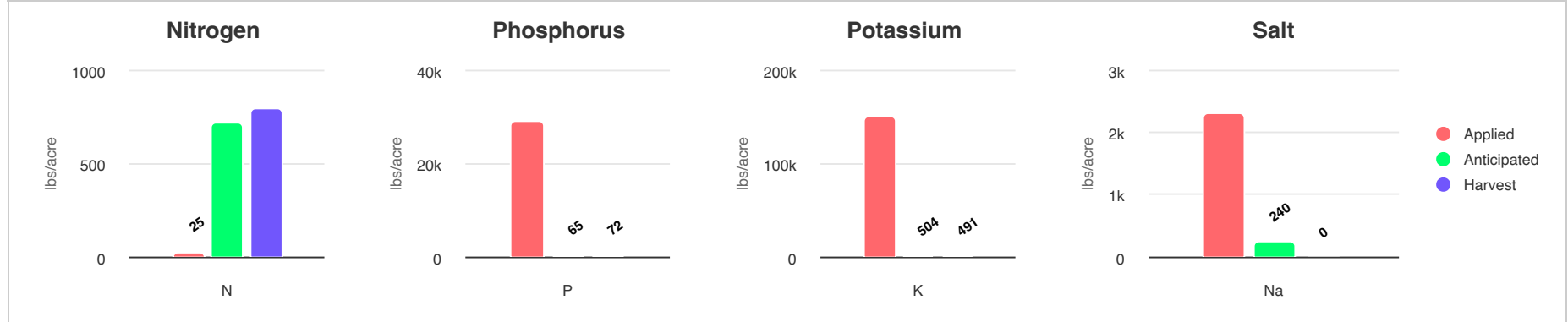
1 harvests

Field name: 17

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	8.13	15,952.82	79.34	113.30
Fresh water	2.85	12,971.86	150,274.43	2,197.30
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	24.98	28,924.68	150,353.77	2,310.60
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	795.95	71.80	490.64	0.00
Nutrient balance	-770.97	28,852.88	149,863.13	2,310.60
Applied to removed ratio	0.03	402.85	306.44	0.00

Fresh water applied

111,111,883.14 gallons
 4,091.87 acre-inches
 57.25 inches/acre

Process wastewater applied

388,197.69 gallons
 14.30 acre-inches
 0.20 inches/acre

Total Harvests for the crop

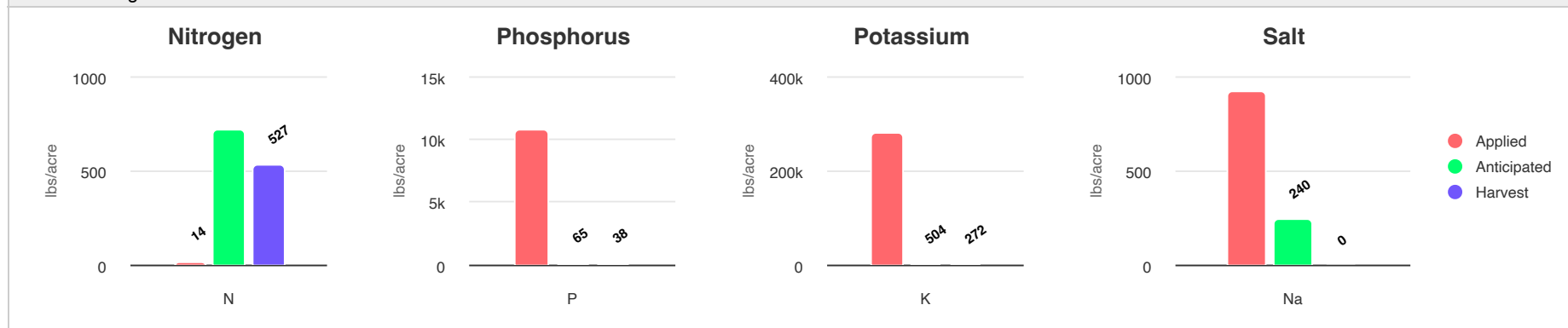
9 harvests

Field name: 18E

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.25	10,769.97	278,929.23	918.93
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.25	10,769.97	278,929.23	918.93
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	526.63	38.43	271.81	0.00
Nutrient balance	-512.38	10,731.54	278,657.42	918.93
Applied to removed ratio	0.03	280.28	1,026.19	0.00

Fresh water applied

191,923,483.33 gallons
 7,067.89 acre-inches
 47.53 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

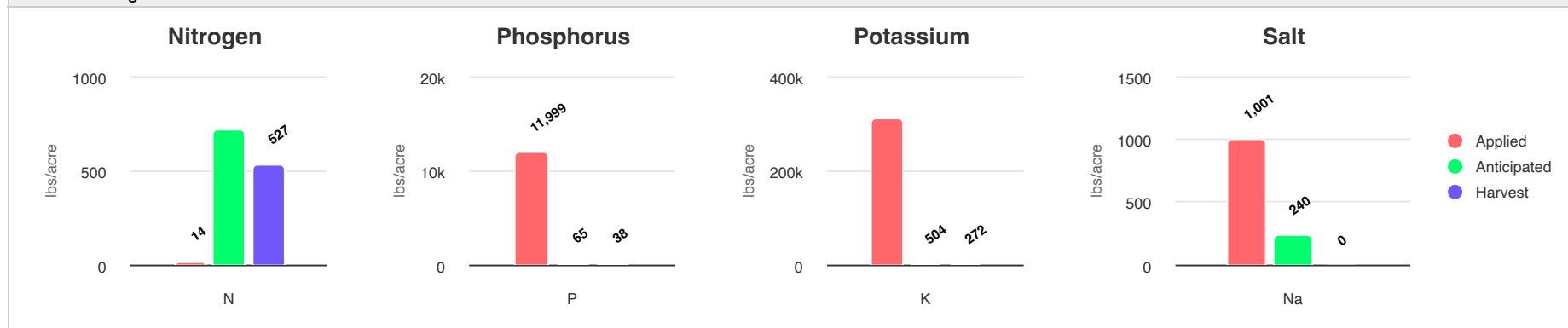
7 harvests

Field name: 18W

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.34	11,999.29	309,914.24	1,001.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.34	11,999.29	309,914.24	1,001.00
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	526.63	38.43	271.81	0.00
Nutrient balance	-512.29	11,960.86	309,642.43	1,001.00
Applied to removed ratio	0.03	312.27	1,140.19	0.00

Fresh water applied

158,758,640.80 gallons
 5,846.54 acre-inches
 52.95 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

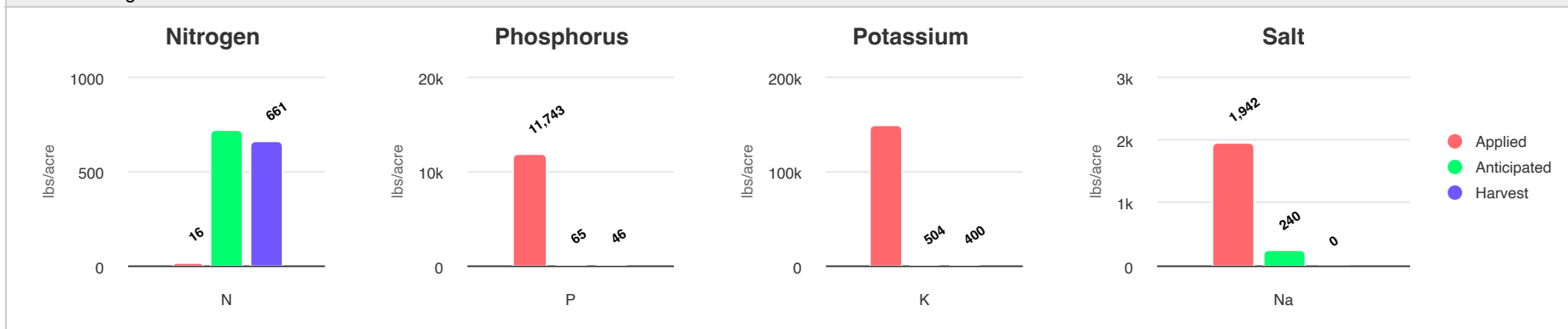
7 harvests

Field name: 25

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.38	11,743.22	148,126.36	1,942.08
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.38	11,743.22	148,126.36	1,942.08
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	660.92	46.12	399.77	0.00
Nutrient balance	-644.54	11,697.10	147,726.59	1,942.08
Applied to removed ratio	0.02	254.64	370.53	0.00

Fresh water applied

101,980,982.60 gallons
 3,755.61 acre-inches
 51.82 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

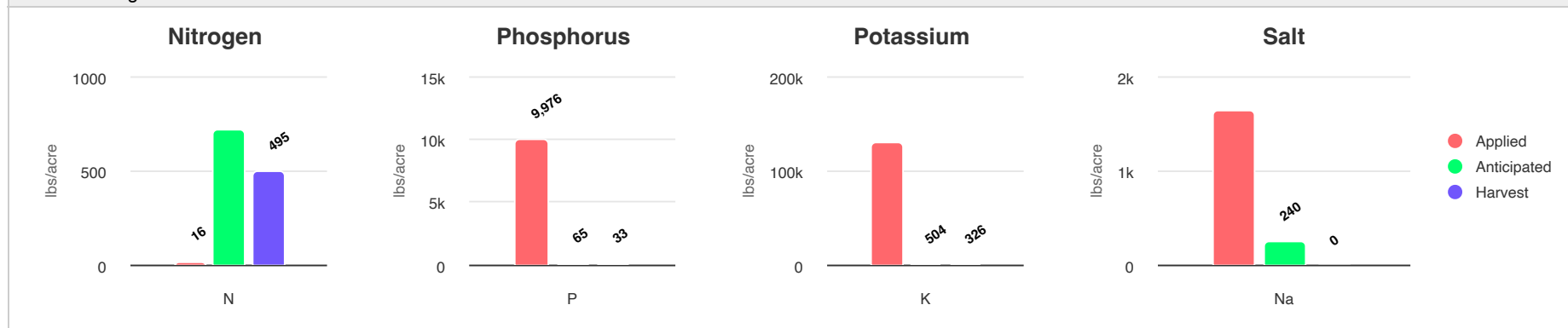
7 harvests

Field name: 26

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.96	9,976.40	129,191.81	1,637.08
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	15.96	9,976.40	129,191.81	1,637.08
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	494.75	32.52	326.10	0.00
Nutrient balance	-478.79	9,943.88	128,865.71	1,637.08
Applied to removed ratio	0.03	306.80	396.17	0.00

Fresh water applied

93,248,576.11 gallons
 3,434.03 acre-inches
 44.03 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

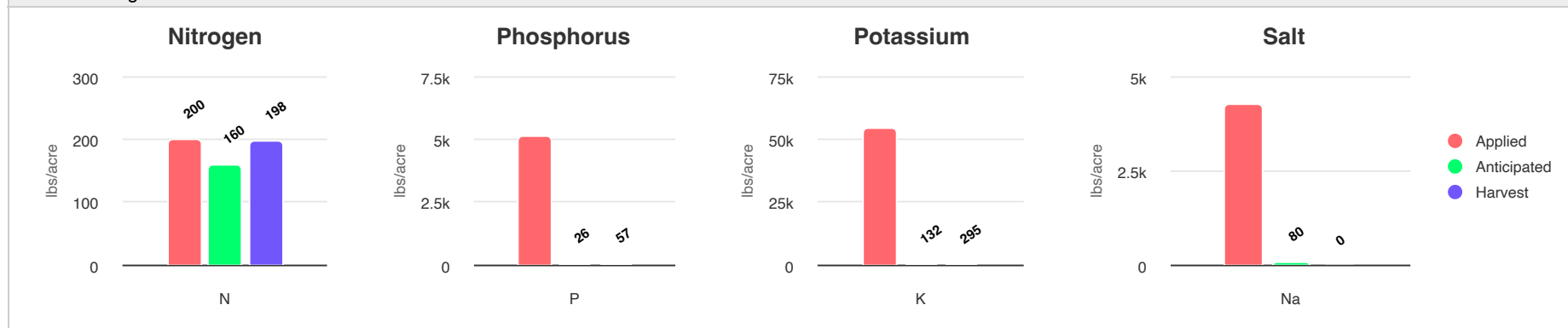
7 harvests

Field name: 27

Crop: Oat

Plant date: 01/25/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	198.61	52.01	268.08	3,400.32
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.17	5,048.70	54,007.12	878.39
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	199.78	5,100.71	54,275.20	4,278.71
Anticipated crop nutrient removal	160.00	26.00	132.00	80.00
Actual crop nutrient removal	198.04	57.20	295.21	0.00
Nutrient balance	1.74	5,043.50	53,980.00	4,278.71
Applied to removed ratio	1.01	89.17	183.85	0.00

Fresh water applied

22,384,907.09 gallons
 824.36 acre-inches
 22.28 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

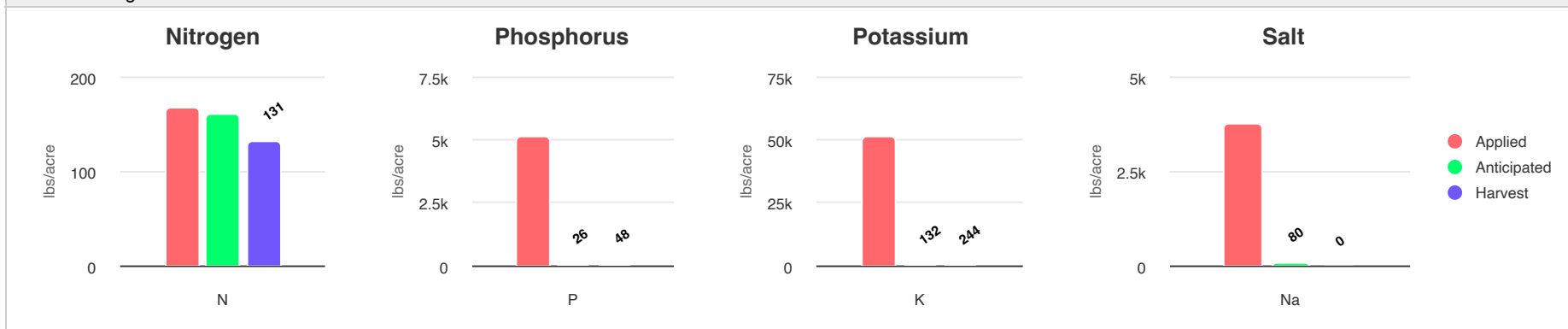
1 harvests

Field name: 28

Crop: Oat

Plant date: 02/15/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	165.51	43.34	223.40	2,833.60
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.20	5,064.56	50,648.88	920.20
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	166.71	5,107.90	50,872.28	3,753.80
Anticipated crop nutrient removal	160.00	26.00	132.00	80.00
Actual crop nutrient removal	131.07	47.56	244.31	0.00
Nutrient balance	35.63	5,060.35	50,627.97	3,753.80
Applied to removed ratio	1.27	107.41	208.22	0.00

Fresh water applied

12,095,482.92 gallons
 445.44 acre-inches
 22.35 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

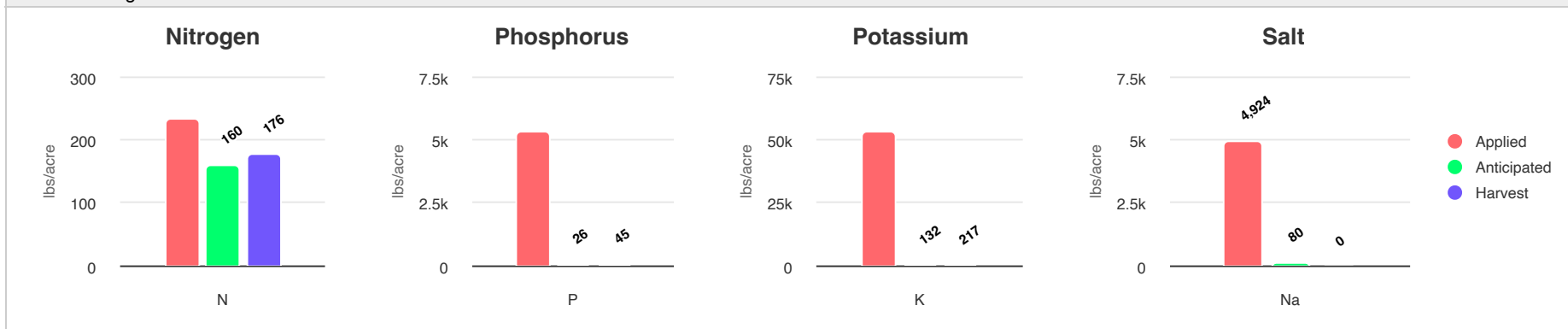
1 harvests

Field name: 29

Crop: Oat

Plant date: 02/20/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	231.71	60.68	312.77	3,967.04
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.25	5,267.37	52,761.70	956.59
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	232.96	5,328.05	53,074.47	4,923.63
Anticipated crop nutrient removal	160.00	26.00	132.00	80.00
Actual crop nutrient removal	175.53	44.76	216.92	0.00
Nutrient balance	57.43	5,283.28	52,857.55	4,923.63
Applied to removed ratio	1.33	119.03	244.67	0.00

Fresh water applied

24,111,892.65 gallons
 887.96 acre-inches
 23.24 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

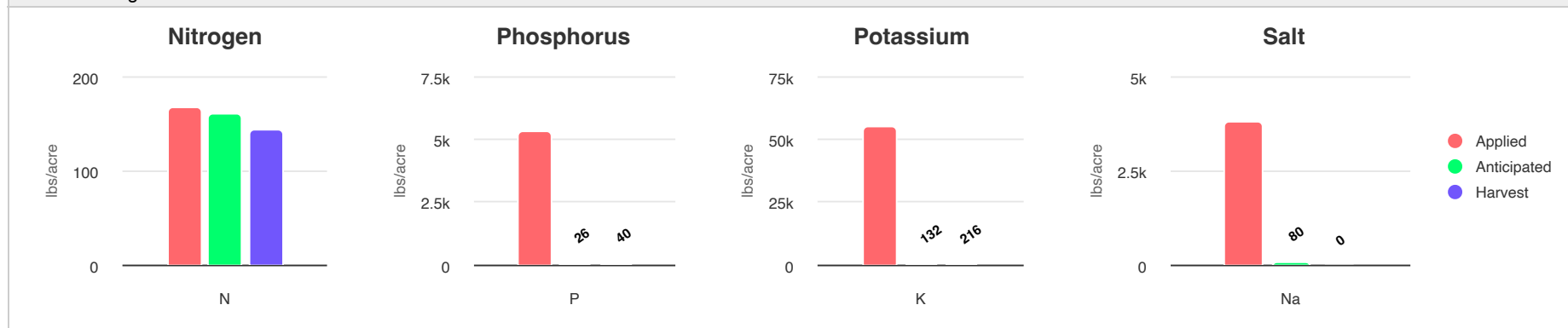
1 harvests

Field name: 30

Crop: Oat

Plant date: 02/17/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	165.51	43.34	223.40	2,833.60
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.20	5,239.04	54,784.59	939.14
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	166.71	5,282.38	55,007.99	3,772.74
Anticipated crop nutrient removal	160.00	26.00	132.00	80.00
Actual crop nutrient removal	143.31	40.47	215.66	0.00
Nutrient balance	23.40	5,241.91	54,792.33	3,772.74
Applied to removed ratio	1.16	130.52	255.07	0.00

Fresh water applied

20,523,012.58 gallons
 755.79 acre-inches
 23.12 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

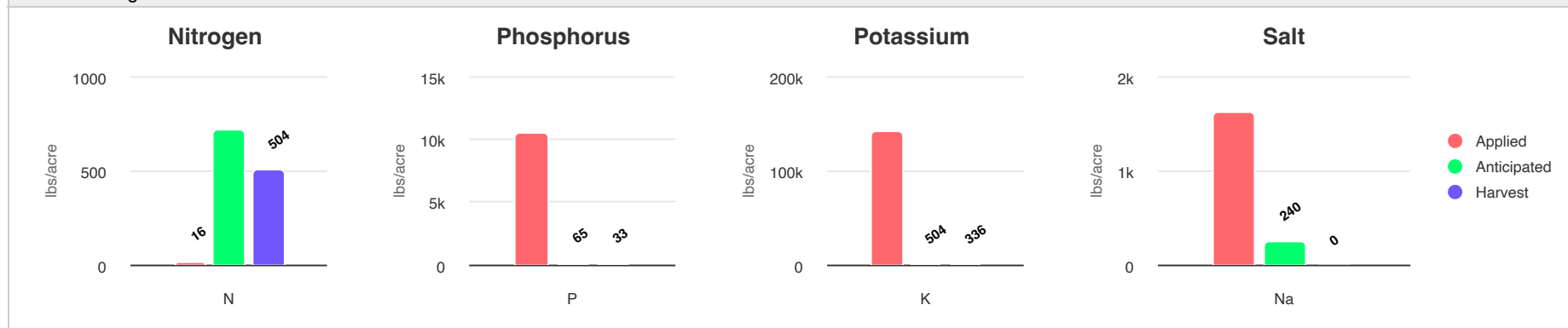
1 harvests

Field name: 31

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.12	10,523.87	141,414.15	1,620.30
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.12	10,523.87	141,414.15	1,620.30
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	503.62	33.30	336.15	0.00
Nutrient balance	-487.50	10,490.57	141,078.00	1,620.30
Applied to removed ratio	0.03	316.01	420.68	0.00

Fresh water applied

17,756,278.64 gallons
653.90 acre-inches
46.44 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total Harvests for the crop

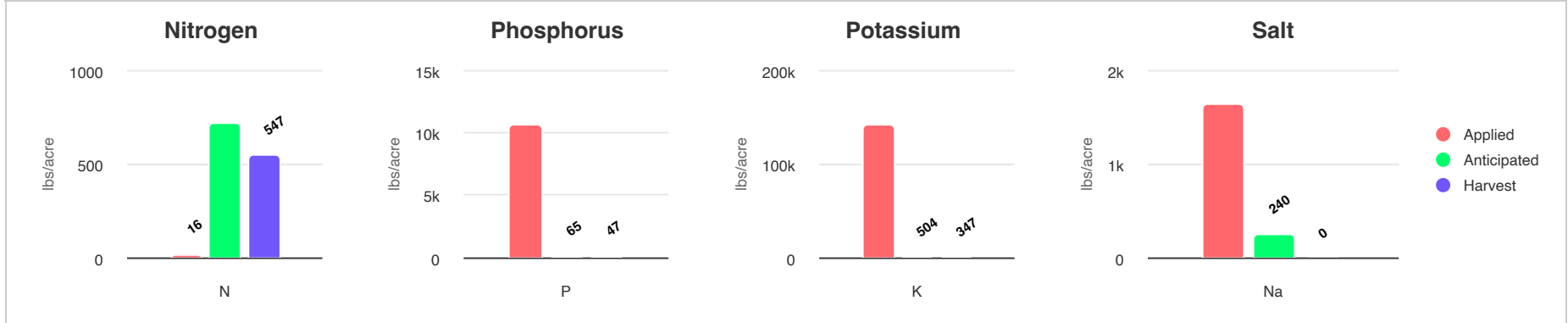
7 harvests

Field name: 32

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.15	10,603.64	141,717.21	1,637.23
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.15	10,603.64	141,717.21	1,637.23
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	546.75	46.68	346.80	0.00
Nutrient balance	-530.60	10,556.96	141,370.41	1,637.23
Applied to removed ratio	0.03	227.17	408.64	0.00

Fresh water applied

25,641,872.17 gallons
 944.30 acre-inches
 46.79 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

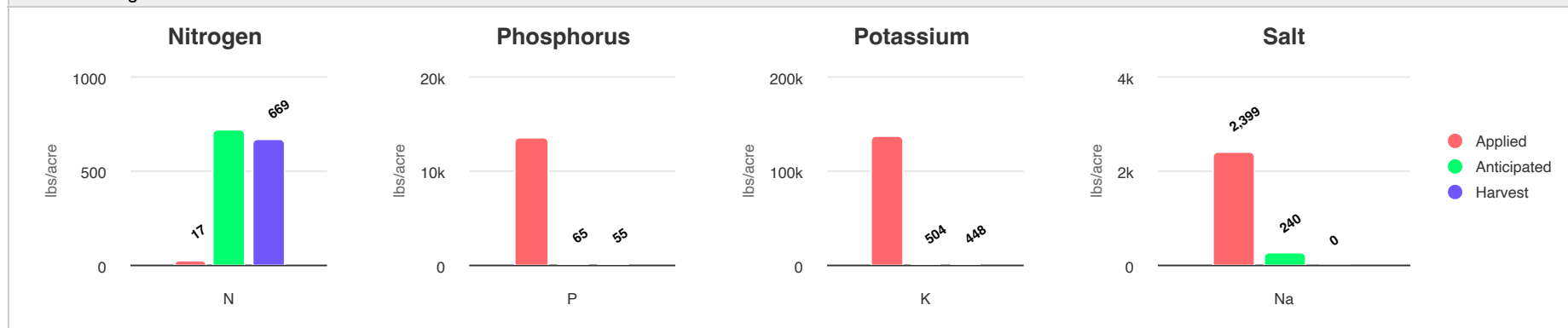
7 harvests

Field name: 6

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.27	13,508.68	136,010.06	2,399.19
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	17.27	13,508.68	136,010.06	2,399.19
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	669.07	54.78	447.94	0.00
Nutrient balance	-651.80	13,453.90	135,562.12	2,399.19
Applied to removed ratio	0.03	246.58	303.64	0.00

Fresh water applied

38,834,426.04 gallons
 1,430.14 acre-inches
 59.61 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

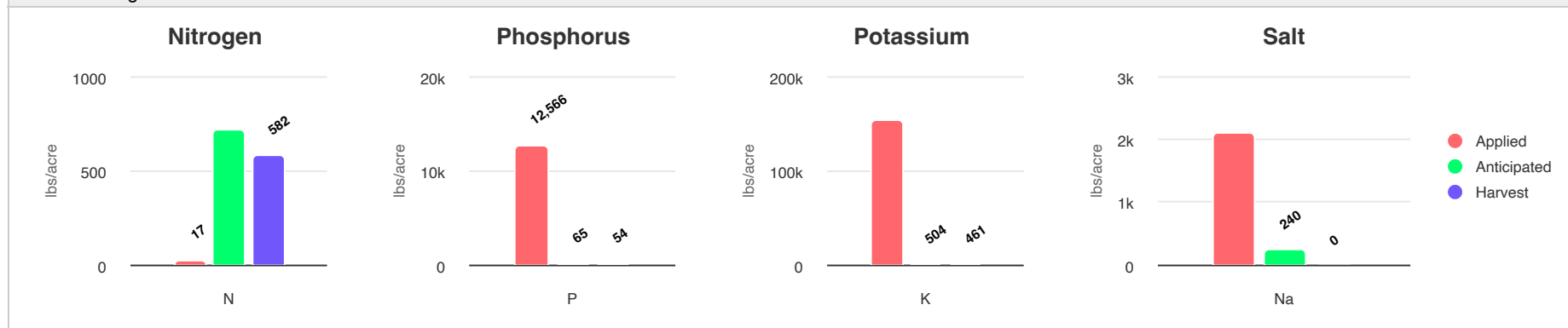
8 harvests

Field name: 7

Crop: Alfalfa

Plant date: 01/02/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.65	12,566.25	152,647.48	2,089.32
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.65	12,566.25	152,647.48	2,089.32
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	581.91	54.33	460.97	0.00
Nutrient balance	-565.26	12,511.92	152,186.51	2,089.32
Applied to removed ratio	0.03	231.27	331.14	0.00

Fresh water applied

53,622,995.12 gallons
 1,974.75 acre-inches
 55.45 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

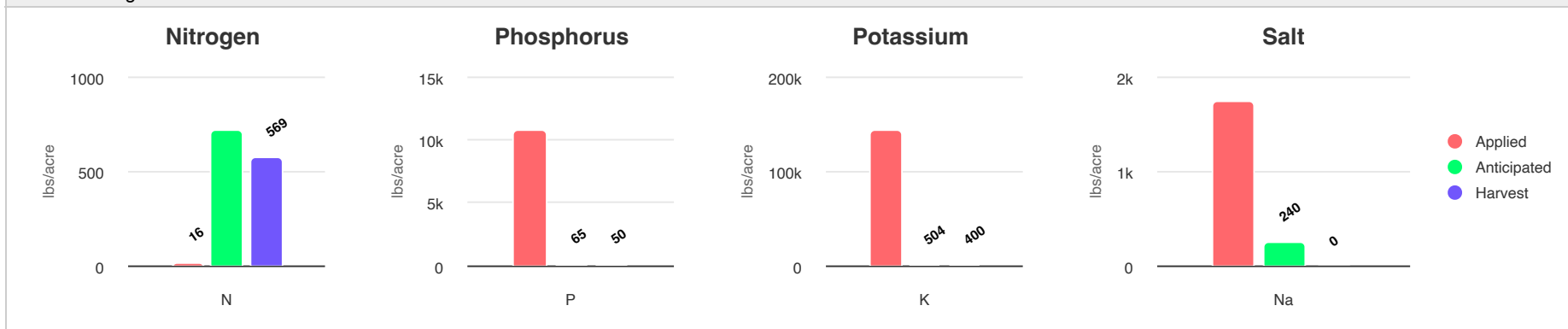
7 harvests

Field name: 8

Crop: Alfalfa

Plant date: 01/05/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.07	10,784.23	143,877.58	1,738.29
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.07	10,784.23	143,877.58	1,738.29
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	568.66	49.71	399.76	0.00
Nutrient balance	-552.59	10,734.52	143,477.82	1,738.29
Applied to removed ratio	0.03	216.95	359.91	0.00

Fresh water applied

148,614,453.45 gallons
 5,472.96 acre-inches
 47.59 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

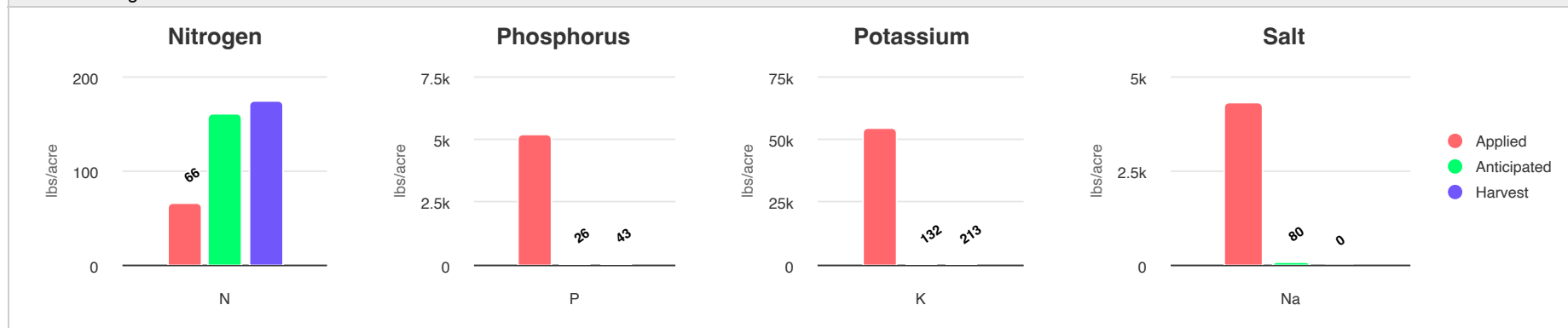
7 harvests

Field name: 9

Crop: Oat

Plant date: 02/06/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	64.45	19.07	94.56	3,386.50
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.22	5,177.86	54,030.91	908.41
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	65.67	5,196.93	54,125.47	4,294.91
Anticipated crop nutrient removal	160.00	26.00	132.00	80.00
Actual crop nutrient removal	172.86	42.92	213.42	0.00
Nutrient balance	-107.19	5,154.01	53,912.05	4,294.91
Applied to removed ratio	0.38	121.09	253.61	0.00

Fresh water applied

24,024,808.65 gallons
 884.75 acre-inches
 22.85 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

1 harvests

NUTRIENT ANALYSES

A. MANURE ANALYSES

T3090014A

Sample and source description name: T3090014A

Sample date: 03/17/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 47.9%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	12,370.00	3,660.00	18,150.00	18,810.00	8,180.00	4,630.00	3,400.00	1,340.00	18,150.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167049A

Sample and source description name: T3167049A

Sample date: 06/12/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 6.3%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	17,910.00	4,430.00	21,400.00	15,860.00	6,990.00	6,680.00	3,300.00	1,288.00	21,400.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263088A

Sample and source description name: T3263088A

Sample date: 09/15/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 14.3%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	23,000.00	5,730.00	41,330.00	45,110.00	10,390.00	11,170.00	5,810.00	3,216.00	41,330.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362038A

Sample and source description name: T3362038A

Sample date: 12/22/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 34.4%

	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	22,300.00	5,540.00	28,500.00	17,050.00	7,850.00	8,350.00	3,490.00	1,451.00	28,500.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

B. PROCESS WASTEWATER ANALYSES

T3089025A

Sample and source description name: T3089025A

Sample date: 03/17/2023 Material type: Process wastewater Source of analysis: Lab Analysis pH: 0

	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 (mmhos/cm)	TDS (mg/L)
Value	165.20	0.00	103.60	0.22	42.80	406.20	133.00	53.69	173.02	0.00	0.00	90.03	223.92	3.11	1,940.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

T3167007A

Sample and source description name: T3167007A

Sample date: 06/12/2023 Material type: Process wastewater Source of analysis: Lab Analysis pH: 0

	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 (mmhos/cm)	TDS (mg/L)
Value	128.80	0.00	98.00	0.11	19.00	140.90	57.84	24.34	96.32	0.00	0.00	68.81	104.17	2.07	960.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

T3263056A

Sample and source description name: T3263056A

Sample date: 09/15/2023 Material type: Process wastewater Source of analysis: Lab Analysis pH: 0

	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 (mmhos/cm)	TDS (mg/L)
Value	179.20	0.00	131.60	0.09	35.20	1,750.70	94.85	37.80	150.75	0.00	0.00	90.06	163.05	3.10	2,500.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

T3362087A

Sample and source description name: T3362087A

Sample date: 12/22/2023 Material type: Process wastewater Source of analysis: Lab Analysis pH: 0

	Kjeldahl-N (mg/L)	NH ₄ -N (mg/L)	NH ₃ -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 (mmhos/cm)	TDS (mg/L)
Value	207.20	0.00	106.40	0.06	36.30	326.56	96.69	42.34	161.07	0.00	0.00	122.60	173.58	3.04	4,000.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

C. FRESH WATER ANALYSES

HP-4

T3228019A

Sample and source description name: T3228019A

Sample date: 08/14/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH ₄ -N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00	63.80	11.49	117.03	0.00	0.00	123.93	136.00	1.01	470.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

HP-6

T3228019B

Sample and source description name: T3228019B

Sample date: 08/14/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH ₄ -N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	0.88	0.00	0.88	17.67	2.27	56.00	0.00	0.00	45.03	39.03	4.43	155.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

Canal - Kern Delta

T3362072C-178-180

Sample and source description name: T3362072C-178-180

Sample date: 12/27/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	5.64	0.00	0.04	16.51	6.29	23.76	0.00	0.00	23.77	27.71	0.28	80.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

HP-5

T3362060A

Sample and source description name: T3362060A

Sample date: 12/27/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	0.61	0.00	0.61	33.90	3.50	68.52	0.00	0.00	69.70	64.47	0.55	235.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

HP7

T3362060B

Sample and source description name: T3362060B

Sample date: 12/27/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	0.60	0.00	0.60	33.57	3.49	68.10	0.00	0.00	66.53	63.36	0.55	215.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

D1

T3362060C

Sample and source description name: T3362060C

Sample date: 12/27/2023 Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	3.28	0.00	0.48	12.32	0.91	59.54	0.00	0.00	54.49	30.10	0.39	120.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

28 - 02/02/2023: Oat

T3362053B

Sample description: T3362053B

Sample date: 07/08/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	8,820.00	3,200.00	16,440.00	150.00	0.00
DL	100.00	200.00	500.00		0.10

29 - 02/15/2023: Oat

T3362053C

Sample description: T3362053C

Sample date: 07/08/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	11,450.00	2,920.00	14,150.00	130.00	0.00
DL	100.00	200.00	500.00		0.10

27 - 01/22/2023: Oat

T3362053A

Sample
description: T3362053A

Sample date: 07/08/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	12,290.00	3,550.00	18,320.00	130.00	0.00
DL	100.00	200.00	500.00		0.10

30 - 02/14/2023: Oat

T3362053D

Sample
description: T3362053D

Sample date: 07/08/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	10,340.00	2,920.00	15,560.00	120.00	0.00
DL	100.00	200.00	500.00		0.10

9 - 02/01/2023: Oat

T3362053E

Sample
description: T3362053E

Sample date: 07/08/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	11,720.00	2,910.00	14,470.00	110.00	0.00
DL	100.00	200.00	500.00		0.10

14 - 10/15/2022: Triticale

T3167016C

Sample
description: T3167016C

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	14,870.00	2,440.00	11,390.00	180.00	0.00
DL	100.00	200.00	500.00		0.10

15 - 10/15/2022: Triticale

T3167016D

Sample
description: T3167016D

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	17,900.00	3,130.00	22,800.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

11 - 10/15/2022: Triticale

T3167016B

Sample
description: T3167016B

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	19,770.00	3,590.00	26,790.00	260.00	0.00
DL	100.00	200.00	500.00		0.10

16 - 10/15/2022: Triticale

T3167016E

Sample
description: T3167016E

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	14,050.00	2,640.00	18,350.00	140.00	0.00
DL	100.00	200.00	500.00		0.10

10 - 10/15/2022: Triticale

T3167016A

Sample
description: T3167016A

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	18,940.00	3,200.00	23,420.00	250.00	0.00
DL	100.00	200.00	500.00		0.10

12 - 01/01/2023: Alfalfa

T3167013A

Sample
description: T3167013A

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	46,240.00	4,420.00	32,290.00	310.00	0.00
DL	100.00	200.00	500.00		0.10

26 - 01/01/2023: Alfalfa

T3167015A

Sample
description: T3167015A

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	37,580.00	2,470.00	24,770.00	1,090.00	0.00
DL	100.00	200.00	500.00		0.10

13 - 01/01/2023: Alfalfa

T3167013B

Sample
description: T3167013B

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	39,530.00	2,730.00	25,410.00	1,170.00	0.00
DL	100.00	200.00	500.00		0.10

25 - 01/01/2023: Alfalfa

T3167013E

Sample
description: T3167013E

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	48,870.00	3,410.00	29,560.00	740.00	0.00
DL	100.00	200.00	500.00		0.10

31 - 01/01/2023: Alfalfa

T3167015B

Sample
description: T3167015B

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	37,050.00	2,450.00	24,730.00	880.00	0.00
DL	100.00	200.00	500.00		0.10

7 - 01/01/2023: Alfalfa

T3167015E

Sample
description: T3167015E

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	43,160.00	4,030.00	34,190.00	730.00	0.00
DL	100.00	200.00	500.00		0.10

18W - 01/01/2023: Alfalfa

ATS-T3167013D

Sample description: ATS-T3167013D

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	39,060.00	2,850.00	20,160.00	1,810.00	0.00
DL	100.00	200.00	500.00		0.10

32 - 01/01/2023: Alfalfa

T3167015C

Sample description: T3167015C

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	40,060.00	3,420.00	25,410.00	1,060.00	0.00
DL	100.00	200.00	500.00		0.10

17 - 01/01/2023: Alfalfa

T3167013C

Sample
description: T3167013C

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	50,550.00	4,560.00	31,160.00	2,130.00	0.00
DL	100.00	200.00	500.00		0.10

18E - 01/01/2023: Alfalfa

T3167013D

Sample
description: T3167013D

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	39,060.00	2,850.00	20,160.00	1,810.00	0.00
DL	100.00	200.00	500.00		0.10

6 - 01/01/2023: Alfalfa

T3167015D

Sample
description: T3167015D

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	43,600.00	3,570.00	29,190.00	860.00	0.00
DL	100.00	200.00	500.00		0.10

8 - 01/01/2023: Alfalfa

T3167015F

Sample
description: T3167015F

Sample date: 06/09/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	40,840.00	3,570.00	28,710.00	1,020.00	0.00
DL	100.00	200.00	500.00		0.10

11 - 04/05/2023: Corn, Early Silage

ATS-T0282003B

Sample
description: ATS-T0282003B

Sample date: 07/24/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	14,900.00	2,900.00	29,000.00	0.03	0.00
DL	100.00	200.00	500.00		0.10

10 - 05/01/2023: Corn, Early Silage

ATS-14080613O

Sample
description: ATS-14080613O

Sample date: 09/24/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	12,600.00	1,230.00	24,400.00	0.06	7.31
DL	100.00	200.00	500.00		0.10

14 - 05/01/2023: Corn, Late Silage

ATS-14080613X

Sample
description: ATS-14080613X

Sample date: 09/24/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	10,400.00	2,590.00	20,900.00	0.01	8.33
DL	100.00	200.00	500.00		0.10

15 - 04/20/2023: Corn Silage

ATS-14080613P

Sample
description: ATS-14080613P

Sample date: 09/18/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	11,900.00	1,970.00	24,100.00	0.08	7.74
DL	100.00	200.00	500.00		0.10

16 - 05/01/2023: Corn Silage

ATS-H7254025A

Sample
description: ATS-H7254025A

Sample date: 09/16/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	13,600.00	2,900.00	18,700.00	0.01	0.00
DL	100.00	200.00	500.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

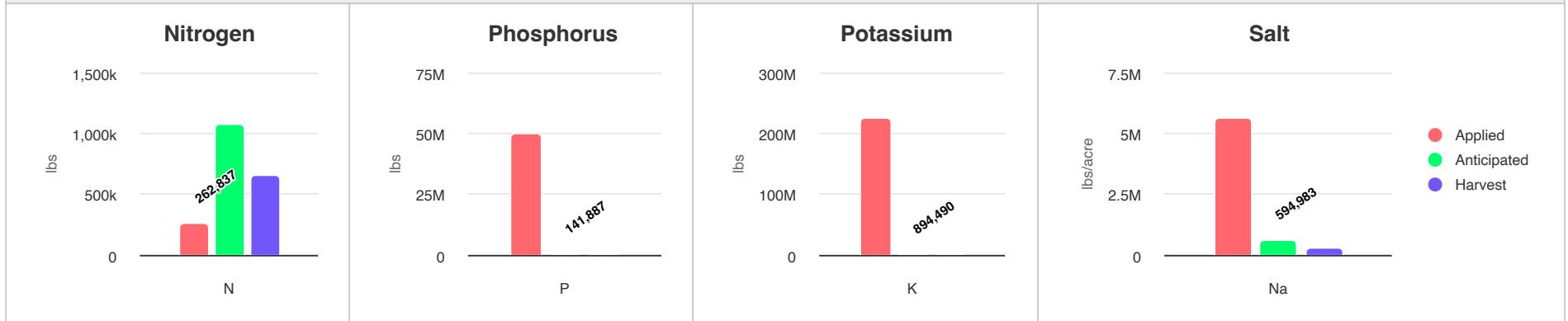
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

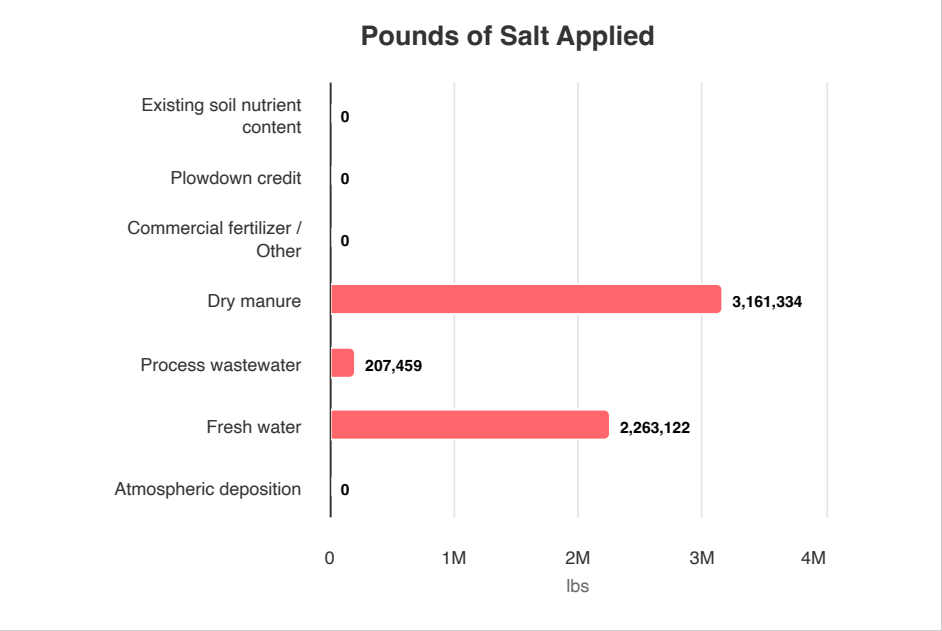
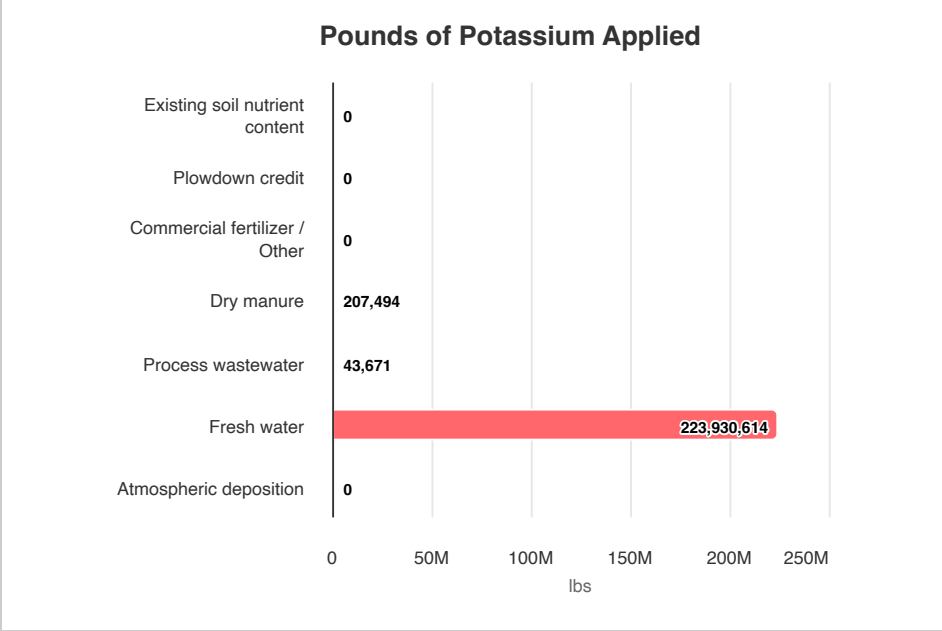
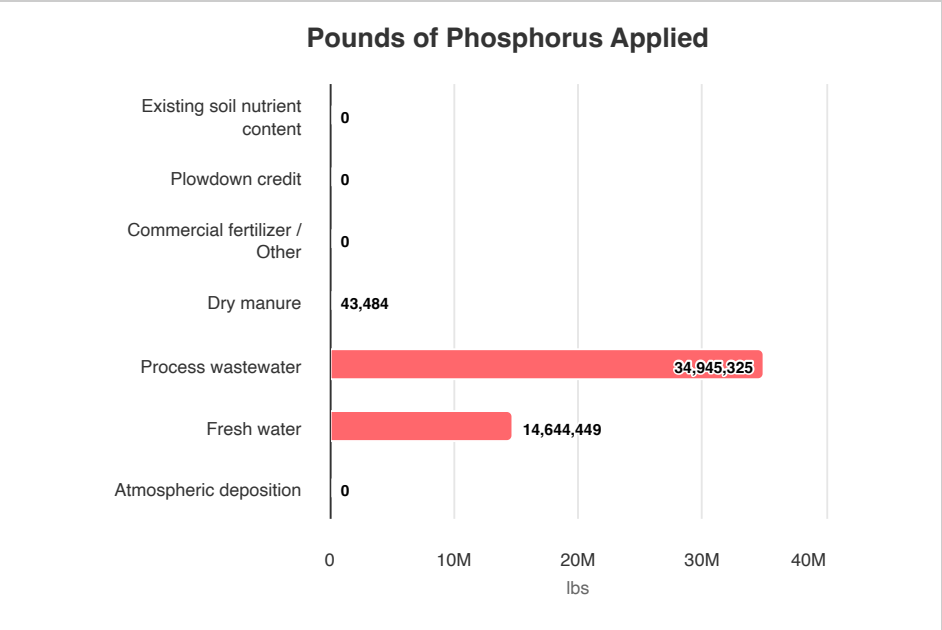
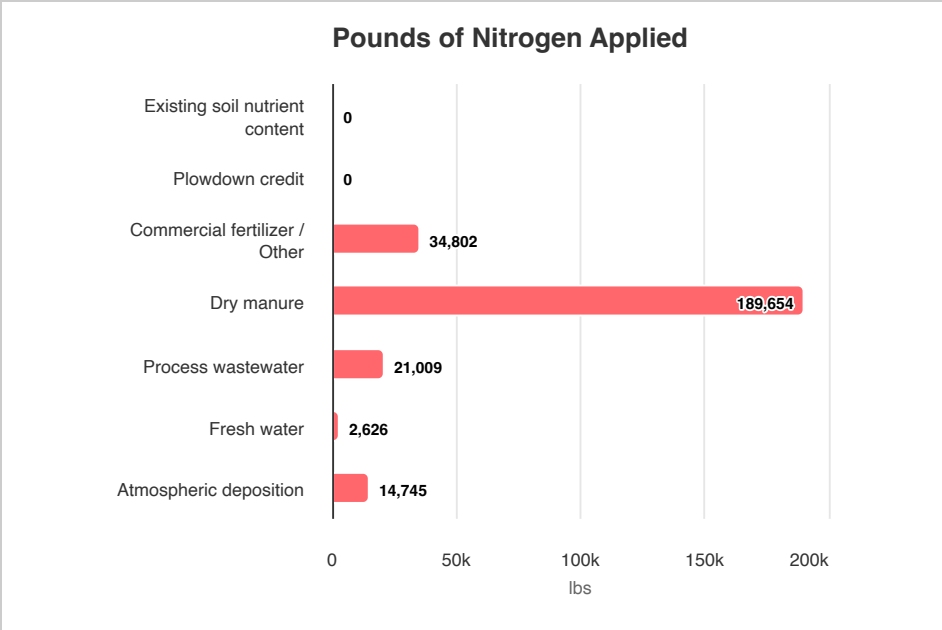
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	34,802.14	0.00	0.00	0.00
Dry manure	189,654.47	43,483.88	207,493.68	3,386.50
Process wastewater	21,009.08	34,945,324.54	43,671.11	0.00
Fresh water	2,626.36	14,644,448.94	223,930,613.63	908.41
Atmospheric deposition	14,744.52	0.00	0.00	0.00
Total nutrients applied	262,836.57	49,633,257.36	224,181,778.42	5,631,915.15
Anticipated crop nutrient removal	1,072,672.29	141,887.03	894,490.35	594,982.81
Actual crop nutrient removal	657,461.79	73,580.42	572,315.35	313,625.68
Nutrient balance	-394,625.22	49,559,676.95	223,609,463.06	5,318,289.47
Applied to removed ratio	0.40	674.54	391.71	17.96

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

Nutrient budgets in lbs/acre



C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE



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

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?	<u>No</u>
---	-----------

ADDITIONAL NOTES

A. NOTES

Well Specific Notes

2023 Non Op Wells: WR1

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

Lisa Haagsma

PRINT OR TYPE NAME

6/29/2024

DATE



SIGNATURE OF OPERATOR OF FACILITY

Lisa Haagsma

PRINT OR TYPE NAME

6/29/2024

DATE

REQUIRED 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 PDF/A 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.

Discharge Maps

Provide map(s) showing the discharge and sample locations for each discharge or release of waste to land areas (land application areas or otherwise) or surface water.

Discharge Lab Reports

Provide copies of laboratory analyses of all discharges (manure, process wastewater, or tailwater), surface water (upstream and downstream of a discharge), and storm water, including chain-of-custody forms and laboratory quality assurance/quality control results.

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.

Solid/Liquid Manure Tracking Manifest

Waste Generator Information:

Name: Lisa Haagsma
Facility Name: H&P Dairy
Facility Address: 5021 E Bear Mountain Blvd
Facility City/State: Bakersfield, CA 93307

Contact:

Name: Lisa Haagsma
Number: (661) 845-1100

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO

I declare under the 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.

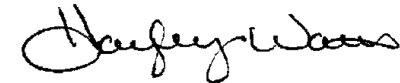
Signature of Owner:



Date:

12/30/2023

Signature of Hauler:



Date:

12/30/2023

Manure Hauler / Processor Information:

Name: Watts Spreading
Facility Address: 13214 Eberle rd
Facility City/State: Bakersfield , CA

Contact:

Name: Hayley Watts
Number: (661)979-3359

Manure Destination Compost

Destination Information:

Name: Watts manure spreading
Facility Address: 13214 Eberle rd
Facility City/State: Bakersfield, Ca

Contact:

Name: Watts manure spreading
Number: 661-742-888

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Mar 1, 2023 - Mar, 31 2023	9,745	ton	70 %
May 1, 2023 - May, 31 2023	8,856	ton	68 %
Jun 1, 2023 - Jun, 30 2023	6,358	ton	68 %
Jul 1, 2023 - Jul, 31 2023	6,532	ton	64 %
Aug 1, 2023 - Aug, 31 2023	7,854	ton	68 %
Sep 1, 2023 - Sep, 30 2023	4,512	ton	66 %
Oct 1, 2023 - Oct, 31 2023	2,378	ton	68 %
Total	46,235		

**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

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/3/24

Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-5	T3362060A	Boron (B)	EPA 200.7	0.210	ppm

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

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Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report**Customer**

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM

SUBMITTED BY: Courier

ANALYZED DATE: 1/2/24

Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-5	T3362060A	Electrical Conductivity (EC)	EPA 120.1 and	0.551	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	90.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	69.7	mg/L
		Sodium (Na)	EPA 200.7	68.5	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	3.50	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	0.607	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	235	mg/L
		Calcium (Ca)	EPA 200.7	33.9	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	64.5	mg/L
		Soluble Salts (SALT-SOL)	Calculation	353	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH ₃ -N)	90.2	97.6 (T3362094B)	99.4 (T3362094B)			1.82
Calcium (Ca)	102	117 (T3361018C)	119 (T3361018C)			2.03
Chloride (Cl)	103	90.5 (T3362060A)	95.6 (T3362060A)			5.52
Magnesium (Mg)	102	114 (T3361018C)	117 (T3361018C)			2.48
Nitrate Nitrogen (NO ₃ -N)	106	108 (T3362060A)	107 (T3362060A)			0.485
Sodium (Na)	90.4	119 (T3361018C)	118 (T3361018C)			1.43
Sulfate (SO ₄)	103	103 (T3362060A)	94.2 (T3362060A)			9.41
Total Dissolved Solids (TDS)	97.0			235 (T3362060A)	240 (Dup)	2.11

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

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www.denelelabs.com

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

Compliance Analysis Report

Customer

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/8/24

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-5	T3362060A	pH (pH)	SM4500-H+ B-2000	7.8	S.U.

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

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Compliance Analysis Report

Customer

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/4/24

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-5	T3362060A	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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**Denele Analytical, Inc.**

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www.denelelabs.com

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

Compliance Analysis Report

Customer

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/3/24

Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP7	T3362060B	Boron (B)	EPA 200.7	0.210	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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Grower

Consultant:

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/2/24

Irrigation /Ground Water (H14)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP7	T3362060B	Electrical Conductivity (EC)	EPA 120.1 and	0.548	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	92.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	66.5	mg/L
		Sodium (Na)	EPA 200.7	68.1	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	3.49	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	0.603	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	215	mg/L
		Calcium (Ca)	EPA 200.7	33.6	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	63.4	mg/L
		Soluble Salts (SALT-SOL)	Calculation	351	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH ₃ -N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	102	117 (T3361018C)	119 (T3361018C)			2.03
Chloride (Cl)	103	90.5 (T3362060A)	95.6 (T3362060A)			5.52
Magnesium (Mg)	102	114 (T3361018C)	117 (T3361018C)			2.48
Nitrate Nitrogen (NO ₃ -N)	106	108 (T3362060A)	107 (T3362060A)			0.485
Sodium (Na)	90.4	119 (T3361018C)	118 (T3361018C)			1.43
Sulfate (SO ₄)	103	103 (T3362060A)	94.2 (T3362060A)			9.41
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

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Compliance Analysis Report

Customer

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/8/24

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP7	T3362060B	pH (pH)	SM4500-H+ B-2000	7.7	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/4/24

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP7	T3362060B	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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PURCHASE ORDER:

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SUBMITTED BY: Courier
ANALYZED DATE: 1/3/24

Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
D1	T3362060C	Boron (B)	EPA 200.7	0.130	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM

SUBMITTED BY: Courier

ANALYZED DATE: 1/2/24

Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
D1	T3362060C	Electrical Conductivity (EC)	EPA 120.1 and	0.392	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	74.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	54.5	mg/L
		Sodium (Na)	EPA 200.7	59.5	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	0.720	mg/L
		Magnesium (Mg)	EPA 200.7	0.910	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	0.479	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	120	mg/L
		Calcium (Ca)	EPA 200.7	12.3	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	30.1	mg/L
		Soluble Salts (SALT-SOL)	Calculation	251	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH ₃ -N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	102	117 (T3361018C)	119 (T3361018C)			2.03
Chloride (Cl)	103	90.5 (T3362060A)	95.6 (T3362060A)			5.52
Magnesium (Mg)	102	114 (T3361018C)	117 (T3361018C)			2.48
Nitrate Nitrogen (NO ₃ -N)	106	108 (T3362060A)	107 (T3362060A)			0.485
Sodium (Na)	90.4	119 (T3361018C)	118 (T3361018C)			1.43
Sulfate (SO ₄)	103	103 (T3362060A)	94.2 (T3362060A)			9.41
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

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Compliance Analysis Report

Customer

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/2/24

Icon Sampling Fee (ISF)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
D1	T3362060C	Icon Sampling Fee (ISF)	N/A	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

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SUBMITTED BY: Courier
ANALYZED DATE: 1/8/24

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
D1	T3362060C	pH (pH)	SM4500-H+ B-2000	7.6	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/10/24

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
D1	T3362060C	Total Nitrogen (TN)	SM 4500-NH3 D,C	3.28	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Irrigation / Ground / Tile Water



9530 Hageman Rd. Ste B, #292 Bakersfield, CA 93312

Dominic Patino

(661) 333-7776

(661) 215-5168

dpatino@iconaginc.com

Date

12/27/23

Sampled By

Dominic

Lab Name

Danell

H&P Dairy

Ranch: H&P Dairy Ranch

***Required Field Measurement

NH4-N ☒ Check here if performed

Analysis Types

W5 - Ag Suitability (Non-Compliance)

W2 - W1 + Ca, Mg, Na, Bicard, SO4, Cl, B

W4 - pH, SpCon, TDS, Ca, CO3, Ca, Mg, Na, K, SO4, Cl, B (Reg 3 comp)

W1 - EC, pH, NO3-N, TN, TDS, NH4-N*** (Reg 5 comp)

W3 - W2 + TP, NH4-N, Carb (tile drain)

Weather Conditions

SH - Sunny & Hot

CC - Cold & Cloudy

SW - Sunny & Warm

CCL - Cold & Clear

R - Rainy

1. Location:				CHAIN H&P Dairy HP-5 W Ranch: H&P Dairy Ranch Date: 12-27-23 11:00 am IW 35.208454, -118.932392	
Analysis	Weather	Temp (°F)	# of Bags/Bottles		
W2	SW	58°	1		
2. Location:				CHAIN H&P Dairy HP7 W Ranch: H&P Dairy Ranch Date: 12-27-23 11:20 am IW 35.193840, -118.950288	
Analysis	Weather	Temp (°F)	# of Bags/Bottles		
W2	SW	58°	1		
3. Location:				CHAIN H&P Dairy 12-27-2 D1 W Ranch: H&P Dairy Ranch Date: 12-27-23 11:15 A IW 35.206846, -118.938014	
Analysis	Weather	Temp (°F)	# of Bags/Bottles		
W2	SW	58°	1		
4. Location:				Place CHAIN Label Here Place additional labels on sample bags/bottles	
Analysis	Weather	Temp (°F)	# of Bags/Bottles		
5. Location:				Place CHAIN Label Here Place additional labels on sample bags/bottles	
Analysis	Weather	Temp (°F)	# of Bags/Bottles		
6. Location:				Place CHAIN Label Here Place additional labels on sample bags/bottles	
Analysis	Weather	Temp (°F)	# of Bags/Bottles		

Chain of Custody Recording Log

	Signature	Company	Received Date/Time	Relinquished Date/Time	Laboratory Use Only	
1st		ICON Ag		12/28 10:15 A	Logged in By:	Laboratory #
2nd	Albert Mott Jr.			12-28-23 10:15		
3rd						
4th		Danell	12-28-23 12:00		T3362060	

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Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/18/23

Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-4	T3228019A	Boron (B)	EPA 200.7	0.402	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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Grower

Consultant:

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/18/23

Irrigation /Ground Water (H14)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-4	T3228019A	Electrical Conductivity (EC)	EPA 120.1 and	1.01	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	160	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	124	mg/L
		Sodium (Na)	EPA 200.7	117	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	11.5	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	470	mg/L
		Calcium (Ca)	EPA 200.7	63.8	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	136	mg/L
		Soluble Salts (SALT-SOL)	Calculation	648	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH ₃ -N)	97.8	100 (T3228016A)	102 (T3228016A)			1.78
Calcium (Ca)	92.3	90.9 (T3228021A)	93.1 (T3228021A)			2.36
Chloride (Cl)	103	96.4 (T3228016A)	96.9 (T3228016A)			0.559
Magnesium (Mg)	92.1	91.3 (T3228021A)	95.2 (T3228021A)			4.24
Nitrate Nitrogen (NO ₃ -N)	105	100 (T3228016A)	96.7 (T3228016A)			3.70
Sodium (Na)	99.4	78.9 (T3228021A)	85.1 (T3228021A)			7.63
Sulfate (SO ₄)	103	114 (T3228016A)	107 (T3228016A)			5.66
Total Dissolved Solids (TDS)	109			410 (T3228024B)	435 (Dup)	5.92

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Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/18/23

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-4	T3228019A	pH (pH)	SM4500-H+ B-2000	8.2	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/22/23

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-4	T3228019A	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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Bakersfield, CA 93312

PURCHASE ORDER:

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

Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-6	T3228019B	Boron (B)	EPA 200.7	0.139	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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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

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/18/23

Irrigation /Ground Water (H14)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-6	T3228019B	Electrical Conductivity (EC)	EPA 120.1 and	4.43	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	74.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	45.0	mg/L
		Sodium (Na)	EPA 200.7	56.0	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	2.27	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	0.885	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	155	mg/L
		Calcium (Ca)	EPA 200.7	17.7	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	39.0	mg/L
		Soluble Salts (SALT-SOL)	Calculation	2840	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH ₃ -N)	97.8	100 (T3228016A)	102 (T3228016A)			1.78
Calcium (Ca)	92.3	90.9 (T3228021A)	93.1 (T3228021A)			2.36
Chloride (Cl)	103	96.4 (T3228016A)	96.9 (T3228016A)			0.559
Magnesium (Mg)	92.1	91.3 (T3228021A)	95.2 (T3228021A)			4.24
Nitrate Nitrogen (NO ₃ -N)	105	100 (T3228016A)	96.7 (T3228016A)			3.70
Sodium (Na)	99.4	78.9 (T3228021A)	85.1 (T3228021A)			7.63
Sulfate (SO ₄)	103	114 (T3228016A)	107 (T3228016A)			5.66
Total Dissolved Solids (TDS)	109			410 (T3228024B)	435 (Dup)	5.92

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Compliance Analysis Report

Customer

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/16/23

Icon Sampling Fee (ISF)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-6	T3228019B	Icon Sampling Fee (ISF)	1664B	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Compliance Analysis Report

Customer

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/18/23

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-6	T3228019B	pH (pH)	SM4500-H+ B-2000	8.0	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Compliance Analysis Report

Customer

H & P Dairy
5021 E. Bear Mountain Blvd.
Bakersfield, CA 93307

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/22/23

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
HP-6	T3228019B	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Irrigation / Ground / Tile Water



9530 Hageman Rd. Ste B, #292 Bakersfield, CA 93312

Dominic Patino

☎ (661) 333-7776

📠 (661) 215-5168

✉ dpatino@iconaginc.com

Date

8-14-2023

Sampled By

TONY

Lab Name

Denele

H&P Dairy

Ranch: H&P Dairy Ranch

***Required Field Measurement

NH4-N ☒ Check here if performed

Analysis Types

W5 - Ag Suitability (Non-Compliance)

W2 - W1 + Ca, Mg, Na, Bicard, SO4, Cl, B

W4 - pH, SpCon, TDS, Ca, CO3, Ca, Mg, Na, K, SO4, Cl, B (Reg 3 comp)

W1 - EC, pH, NO3-N, TN, TDS, NH4-N*** (Reg 5 comp)

W3 - W2 + TP, NH4-N, Carb (tile drain)

Weather Conditions

SH - Sunny & Hot

CC - Cold & Cloudy

SW - Sunny & Warm

CCL - Cold & Clear

R - Rainy

1. Location:

Analysis	Weather	Temp (°F)	# of Bags/ Bottles
W2	SH	102	1

CHAIN

H&P Dairy



HP-4

W

Ranch: H&P Dairy Ranch
Date: 8-14-2023 pm
IW 35.179879, -118.954624

2. Location:

Analysis	Weather	Temp (°F)	# of Bags/ Bottles
W2	SH	102	1

CHAIN

H&P Dairy



HP-6

W

Ranch: H&P Dairy Ranch
Date: 8-14-2023 pm
IW 35.204935, -118.932559

3. Location:

Analysis	Weather	Temp (°F)	# of Bags/ Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

4. Location:

Analysis	Weather	Temp (°F)	# of Bags/ Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

5. Location:

Analysis	Weather	Temp (°F)	# of Bags/ Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

6. Location:

Analysis	Weather	Temp (°F)	# of Bags/ Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Chain of Custody Recording Log

	Signature	Company	Received Date/Time	Relinquished Date/Time	Laboratory Use Only	
1st	Antonio Meza	Icon Ag		8-15-2023 7:00 am	Logged in By:	Laboratory #
2nd						
3rd		Denele	8-16-23 10:00			
4th						T3228019