

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:

Maple Dairy

Physical address of dairy:

15857 Bear Mountain Blvd

Number and Street

Bakersfield

City

Kern

County

93311

Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation:

12-31-2014

Regional Water Quality Control Board Basin Plan designation:

Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0184-0120-0030-0000 0184-0120-0039-0000 0184-0120-0041-0000 0184-0120-0056-0000 0184-0130-0010-0000 0184-0130-0055-0000 0184-0130-0065-0000
0184-0130-0067-0000 0184-0130-0068-0000 0184-0130-0081-0000 0184-0130-0084-0000 0184-0140-0013-0000 0184-0550-0001-0000 0184-0550-0018-0000
0184-0550-0020-0000

B. OPERATORS

AJ Bos

Operator Name:

AJ Bos

Telephone no.:

(661) 396-9600

Landline

Cellular

15857 Bear Mountain Blvd

Mailing Address Number and Street

Bakersfield

City

Kern

County

93311

Zip Code

C. OWNERS

AJ Bos

Owner Name:

AJ Bos

Telephone no.:

(661) 396-9600

Landline

Cellular

15857 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	0	0	2,459	2,336	948	1,187
Number under roof	6,194	1,108	0	0	0	0
Maxiumu number	6,200	1,120	2,489	2,354	965	1,200
Average number	6,194	1,108	2,459	2,336	948	1,187
Average live weight (lbs)	1400	1450	950	250		

Predominant milk cow breed: Holsteins
Average Milk Production: 78 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 232,293.54 tons per reporting period
Total nitrogen from manure: 2,919,733.90 lbs per reporting period After ammonia losses (30% loss applied): 2,043,813.73 lbs per reporting period
Total phosphorus from manure: 477,077.00 lbs per reporting period
Total potassium from manure: 1,218,763.81 lbs per reporting period
Total salt from manure: 3,171,229.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 68,740,284.96 gallons
Total nitrogen generated: 173,372.31 lbs
Total phosphorus generated: 358,365,219.59 lbs
Total potassium generated: 266,453.44 lbs
Total salt generated: 1,645,036.90 lbs

	68,740,284.96 gallons applied
+	0 gallons exported
-	0 gallons imported
=	68,740,284.96 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
105	Ground Water
108	Ground Water
17	Ground Water
18	Ground Water
5	Ground Water
BWN	Ground Water
BWS	Ground Water
Canal - Buena Vista	Surface Water
Canal - Kern Delta	Surface Water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

Source Description	Type
HB-1	Tile Drain

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 (%)
04/11/2023	Separator solids	12,648 tons	as-is	67.9	15,120.00	4,430.00	17,150.00	61.00
05/23/2023	Separator solids	10,790 tons	as-is	68.4	15,120.00	4,430.00	17,150.00	61.00
06/18/2023	Separator solids	11,065 tons	as-is	66.5	25,050.00	5,500.00	14,040.00	38.00
07/18/2023	Separator solids	10,647 tons	as-is	67.8	25,050.00	5,500.00	14,040.00	38.00
08/06/2023	Separator solids	11,258 tons	as-is	70.1	25,050.00	5,500.00	14,040.00	38.00
09/17/2023	Separator solids	13,645 tons	as-is	69.9	23,400.00	6,230.00	18,400.00	44.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	2,999,148.12	740,347.38	2,231,857.00	65,659,160.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	2,999,148.12	740,347.38	2,231,857.00	65,659,160.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1AL	75.37	73.21	2	NONE	0184-0120-0056-0000
2AL	75.13	72.24	2	NONE	0184-0120-0041-0000
2P	57.60	54.03	1	NONE	0184-0130-0084-0000
3AL	105.26	103.57	2	NONE	0184-0120-0039-0000
4AL	105.86	102.67	2	NONE	0184-0120-0039-0000
281	64.34	65.07	2	BOTH	0184-0130-0068-0000
282	102.21	104.93	2	BOTH	0184-0130-0068-0000
283	124.84	126.78	2	BOTH	0184-0130-0067-0000, 0184-0130-0068-0000
291	87.15	86.00	7	NONE	0184-0130-0055-0000
292	84.93	86.00	2	BOTH	0184-0130-0081-0000
294P	30.60	31.28	0	NONE	0184-0140-0013-0000
296P	33.72	35.00	0	NONE	0184-0140-0013-0000
297A	35.20	35.00	7	NONE	0184-0140-0013-0000
311	74.58	73.45	1	BOTH	0184-0550-0018-0000
312	71.82	70.98	1	BOTH	0184-0550-0018-0000
313	73.10	72.57	1	BOTH	0184-0550-0018-0000
314A	75.11	70.86	2	BOTH	0184-0550-0018-0000
314B	10.95	15.00	2	BOTH	0184-0550-0018-0000
315	76.26	75.87	1	BOTH	0184-0550-0018-0000
316	75.34	73.03	2	BOTH	0184-0550-0018-0000
317	78.86	76.21	1	BOTH	0184-0550-0018-0000
318	78.23	77.61	2	BOTH	0184-0550-0018-0000
321	73.89	72.80	7	NONE	0184-0550-0020-0000
322	71.45	71.70	7	NONE	0184-0550-0020-0000
323	74.81	72.57	1	PROCESS WASTEWATER	0184-0550-0020-0000
324	72.43	73.54	2	BOTH	0184-0550-0020-0000
325	73.68	73.32	6	NONE	0184-0550-0020-0000
326	69.88	71.13	7	NONE	0184-0550-0020-0000
327	73.89	74.27	9	NONE	0184-0550-0020-0000
328	66.56	67.81	2	BOTH	0184-0550-0020-0000
331	70.99	72.66	2	BOTH	0184-0550-0001-0000
332	70.62	70.92	2	BOTH	0184-0550-0001-0000
333	70.25	70.17	2	BOTH	0184-0550-0001-0000

334	56.33	56.52	1	BOTH	0184-0130-0065-0000, 0184-0550-0001-0000
335	68.94	69.02	2	BOTH	0184-0130-0010-0000
336	79.08	79.17	2	BOTH	0184-0130-0010-0000
337	74.90	75.45	2	BOTH	0184-0550-0001-0000
338	72.90	73.16	2	BOTH	0184-0550-0001-0000
341(342)	120.00	121.47	1	BOTH	0184-0120-0030-0000
2962P	45.56	49.75	0	NONE	0184-0130-0081-0000
2963P	15.87	14.75	0	NONE	0184-0130-0081-0000, 0184-0140-0013-0000
2972A	61.63	62.59	7	NONE	0184-0130-0081-0000
Totals for areas that were used for application	2,980.12	2,974.13	108.00		
Totals for areas that were not used for application	5.99	5.99			
Land application area totals	2,980.12	2,980.12	108.00		

B. CROPS AND HARVESTS**1AL**Field Name: 1AL**01/02/2021: Almond**Crop: Almond Acres planted: 73.21 Plant date: 01/02/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/28/2023	20,791.64 pound	As-is		0.00	15,030.00	1,980.00	52,200.00	0.04	0.00
09/18/2023	72,111.85 pound	As-is		0.00	15,030.00	1,980.00	52,200.00	0.04	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	195.00	33.00	211.50	30.00
Total actual harvest content	0.63	19.07	2.51	66.24	0.00

Field Name: 2AL

01/02/2021: Almond

Crop: Almond Acres planted: 72.24 Plant date: 01/02/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/22/2023	107,637.60 pound	As-is		0.00	9,990.00	2,520.00	36,900.00	0.04	0.00
09/12/2023	45,800.16 pound	As-is		0.00	9,990.00	2,520.00	36,900.00	0.04	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	195.00	33.00	211.50	30.00
Total actual harvest content	1.06	21.22	5.35	78.38	0.00

Field Name: 2P**01/01/2017: Pistachio**Crop: Pistachio Acres planted: 54.03 Plant date: 01/01/2017

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/17/2023	226,601.81 pound	As-is		0.00	4,830.00	763.00	8,575.00	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	1.60	94.08	7.68	45.76	32.00
Total actual harvest content	2.10	20.26	3.20	35.96	0.00

Field Name: 3AL

01/02/2021: Almond

Crop: Almond Acres planted: 103.57 Plant date: 01/02/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/29/2023	110,716.33 pound	As-is		0.00	4,563.00	1,440.00	43,200.00	0.03	0.00
09/19/2023	34,488.81 pound	As-is		0.00	4,563.00	1,440.00	43,200.00	0.03	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	195.00	33.00	211.50	30.00
Total actual harvest content	0.70	6.40	2.02	60.57	0.00

Field Name: 4AL

01/02/2021: Almond

Crop: Almond Acres planted: 102.67 Plant date: 01/02/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/23/2023	144,970.04 pound	As-is		0.00	5,031.00	1,530.00	48,600.00	0.04	0.00
09/13/2023	61,293.99 pound	As-is		0.00	5,031.00	1,530.00	48,600.00	0.04	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	195.00	33.00	211.50	30.00
Total actual harvest content	1.00	10.11	3.07	97.64	0.00

Field Name: 281

10/15/2022: Triticale

Crop: Triticale Acres planted: 65.07 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	1,292.42 ton	As-is		0.00	6,336.00	1,360.80	9,532.80	115.20	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	19.86	251.69	54.06	378.68	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 65.07 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/02/2023	1,372.07 ton	As-is		0.00	5,309.50	612.50	7,280.00	70.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	21.09	223.91	25.83	307.01	0.00

Field Name: 282

10/15/2022: Triticale

Crop: Triticale Acres planted: 104.93 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,998.92 ton	As-is		0.00	3,513.60	1,076.40	5,695.20	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	19.05	133.87	41.01	216.99	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 104.93 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/21/2023	1,688.32 ton	As-is		0.00	6,307.00	602.00	7,658.00	49.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	16.09	202.96	19.37	246.43	0.00

Field Name: 283

10/15/2022: Triticale

Crop: Triticale Acres planted: 126.78 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	2,078.43 ton	As-is		0.00	0.00	0.00	0.00	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	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	16.39	0.00	0.00	0.00	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 126.78 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	2,072.98 ton	As-is		0.00	4,672.50	644.00	7,294.00	108.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	16.35	152.80	21.06	238.53	0.00

Field Name: 291

01/02/2020: Alfalfa

Crop: Alfalfa Acres planted: 86 Plant date: 01/02/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/23/2023	342.80 ton	As-is		0.00	17,933.10	1,524.90	16,822.20	124.20	0.00
05/27/2023	253.18 ton	As-is		0.00	17,933.10	1,524.90	16,822.20	124.20	0.00
06/27/2023	210.87 ton	As-is		0.00	17,933.10	1,524.90	16,822.20	124.20	0.00
07/21/2023	201.50 ton	As-is		0.00	17,933.10	1,524.90	16,822.20	124.20	0.00
08/01/2023	186.02 ton	As-is		0.00	17,933.10	1,524.90	16,822.20	124.20	0.00
09/22/2023	121.26 ton	As-is		0.00	17,933.10	1,524.90	16,822.20	124.20	0.00
11/02/2023	116.96 ton	As-is		0.00	17,933.10	1,524.90	16,822.20	124.20	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	16.66	597.46	50.80	560.45	0.00

Field Name: 292

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 86 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/21/2023	2,394.84 ton	As-is		0.00	5,439.00	518.00	7,119.00	59.50	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	27.85	302.92	28.85	396.49	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 86 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/30/2023	1,904.90 ton	As-is		0.00	6,282.50	1,043.00	8,970.50	224.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	22.15	278.31	46.20	397.39	0.00

294P

Field Name: 294P

01/02/2022: Pistachio

Crop: Pistachio Acres planted: 31.28 Plant date: 01/02/2022

No Harvest Data Available

296P

Field Name: 296P

01/02/2022: Pistachio

Crop: Pistachio Acres planted: 35 Plant date: 01/02/2022

No Harvest Data Available

Field Name: 297A

01/02/2020: Alfalfa

Crop: Alfalfa Acres planted: 35 Plant date: 01/02/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	97.89 ton	As-is		0.00	16,470.30	1,269.60	12,896.10	2,132.10	0.00
06/07/2023	94.26 ton	As-is		0.00	16,470.30	1,269.60	12,896.10	2,132.10	0.00
07/07/2023	80.92 ton	As-is		0.00	16,470.30	1,269.60	12,896.10	2,132.10	0.00
08/01/2023	83.09 ton	As-is		0.00	16,470.30	1,269.60	12,896.10	2,132.10	0.00
09/07/2023	76.93 ton	As-is		0.00	16,470.30	1,269.60	12,896.10	2,132.10	0.00
10/06/2023	60.55 ton	As-is		0.00	16,470.30	1,269.60	12,896.10	2,132.10	0.00
11/11/2023	32.87 ton	As-is		0.00	16,470.30	1,269.60	12,896.10	2,132.10	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	15.04	495.53	38.20	387.99	0.00

Field Name: 311

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 73.45 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/25/2023	1,880.32 ton	As-is		0.00	3,290.00	903.00	6,300.00	21.00	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	25.60	168.45	46.23	322.56	0.00

Field Name: 312

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 70.98 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/02/2023	1,893.89 ton	As-is		0.00	4,655.00	822.50	4,935.00	28.00	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	26.68	248.41	43.89	263.35	0.00

Field Name: 313

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 72.57 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/20/2023	1,917.37 ton	As-is		0.00	3,675.00	924.00	5,313.00	21.00	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	26.42	194.19	48.83	280.75	0.00

Field Name: 314A

10/15/2022: Triticale

Crop: Triticale Acres planted: 70.86 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	1,533.41 ton	As-is		0.00	3,589.20	957.60	5,767.20	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	21.64	155.34	41.44	249.60	0.00

Field Name: 314B

10/15/2022: Triticale

Crop: Triticale Acres planted: 15 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	324.60 ton	As-is		0.00	4,554.00	946.80	5,320.80	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	21.64	197.10	40.98	230.28	0.00

Field Name: 314A

04/15/2023: Milo

Crop: Milo Acres planted: 70.86 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/09/2023	1,570.97 ton	As-is		0.00	6,359.50	1,554.00	8,211.00	66.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	22.17	281.98	68.90	364.08	0.00

Field Name: 314B

04/15/2023: Milo

Crop: Milo Acres planted: 15 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	332.55 ton	As-is		0.00	5,012.00	633.50	7,199.50	98.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	22.17	222.23	28.09	319.23	0.00

Field Name: 315

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 75.87 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/31/2023	1,954.64 ton	As-is		0.00	3,885.00	931.00	4,791.50	28.00	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	25.76	200.18	47.97	246.89	0.00

Field Name: 316

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 73.03 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/11/2023	2,104.87 ton	As-is		0.00	4,550.00	892.50	6,324.50	24.50	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	28.82	262.28	51.45	364.57	0.00

08/01/2023: Milo

Crop: Milo Acres planted: 73.03 Plant date: 08/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/04/2023	790.11 ton	As-is		0.00	4,672.50	644.00	7,294.00	108.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	10.82	101.10	13.93	157.83	0.00

Field Name: 317

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 76.21 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/04/2023	2,174.12 ton	As-is		0.00	4,235.00	763.00	4,595.50	21.00	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	28.53	241.63	43.53	262.20	0.00

Field Name: 318

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 77.61 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/23/2023	1,590.69 ton	As-is		0.00	3,710.00	794.50	5,880.00	28.00	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	20.50	152.08	32.57	241.03	0.00

07/30/2023: Milo

Crop: Milo Acres planted: 77.61 Plant date: 07/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/02/2023	1,174.47 ton	As-is		0.00	6,643.00	1,039.50	6,940.50	77.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	15.13	201.06	31.46	210.06	0.00

Field Name: 321

04/01/2020: Alfalfa

Crop: Alfalfa Acres planted: 72.8 Plant date: 04/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/19/2023	222.70 ton	As-is		0.00	17,912.40	1,414.50	14,255.40	2,249.40	0.00
05/22/2023	255.09 ton	As-is		0.00	17,912.40	1,414.50	14,255.40	2,249.40	0.00
06/21/2023	262.01 ton	As-is		0.00	17,912.40	1,414.50	14,255.40	2,249.40	0.00
07/15/2023	189.06 ton	As-is		0.00	17,912.40	1,414.50	14,255.40	2,249.40	0.00
08/12/2023	155.36 ton	As-is		0.00	17,912.40	1,414.50	14,255.40	2,249.40	0.00
09/16/2023	124.12 ton	As-is		0.00	17,912.40	1,414.50	14,255.40	2,249.40	0.00
10/18/2023	119.39 ton	As-is		0.00	17,912.40	1,414.50	14,255.40	2,249.40	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	18.24	653.37	51.60	519.98	0.00

Field Name: 322

01/02/2020: Alfalfa

Crop: Alfalfa Acres planted: 71.7 Plant date: 01/02/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	195.74 ton	As-is		0.00	16,284.00	1,186.80	16,001.10	1,117.80	0.00
05/27/2023	194.59 ton	As-is		0.00	16,284.00	1,186.80	16,001.10	1,117.80	0.00
06/24/2023	220.26 ton	As-is		0.00	16,284.00	1,186.80	16,001.10	1,117.80	0.00
07/21/2023	153.51 ton	As-is		0.00	16,284.00	1,186.80	16,001.10	1,117.80	0.00
08/20/2023	133.29 ton	As-is		0.00	16,284.00	1,186.80	16,001.10	1,117.80	0.00
09/19/2023	90.63 ton	As-is		0.00	16,284.00	1,186.80	16,001.10	1,117.80	0.00
10/23/2023	93.28 ton	As-is		0.00	16,284.00	1,186.80	16,001.10	1,117.80	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	15.08	491.16	35.80	482.63	0.00

Field Name: 323

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 72.57 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/24/2023	1,657.06 ton	As-is		0.00	3,185.00	854.00	5,537.00	17.50	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	22.83	145.45	39.00	252.86	0.00

Field Name: 324

10/15/2022: Triticale

Crop: Triticale Acres planted: 73.54 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,491.02 ton	As-is		0.00	5,468.40	1,364.40	8,809.20	68.40	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	20.27	221.74	55.33	357.21	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 73.54 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	1,246.28 ton	As-is		0.00	6,643.00	1,039.50	6,940.50	77.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	16.95	225.16	35.23	235.24	0.00

Field Name: 325

01/02/2020: Alfalfa

Crop: Alfalfa Acres planted: 73.32 Plant date: 01/02/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	226.85 ton	As-is		0.00	23,777.40	2,201.10	16,553.10	386.40	0.00
06/11/2023	184.84 ton	As-is		0.00	23,777.40	2,201.10	16,553.10	386.40	0.00
07/02/2023	187.77 ton	As-is		0.00	23,777.40	2,201.10	16,553.10	386.40	0.00
08/01/2023	151.11 ton	As-is		0.00	23,777.40	2,201.10	16,553.10	386.40	0.00
08/29/2023	117.68 ton	As-is		0.00	23,777.40	2,201.10	16,553.10	386.40	0.00
09/30/2023	96.12 ton	As-is		0.00	23,777.40	2,201.10	16,553.10	386.40	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	13.15	625.49	57.90	435.45	0.00

Field Name: 326

01/02/2020: Alfalfa

Crop: Alfalfa Acres planted: 71.13 Plant date: 01/02/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/16/2023	263.39 ton	As-is		0.00	27,558.60	2,463.30	20,141.10	593.40	0.00
05/19/2023	237.50 ton	As-is		0.00	27,558.60	2,463.30	20,141.10	593.40	0.00
06/16/2023	194.75 ton	As-is		0.00	27,558.60	2,463.30	20,141.10	593.40	0.00
07/13/2023	189.77 ton	As-is		0.00	27,558.60	2,463.30	20,141.10	593.40	0.00
08/12/2023	141.48 ton	As-is		0.00	27,558.60	2,463.30	20,141.10	593.40	0.00
09/13/2023	110.11 ton	As-is		0.00	27,558.60	2,463.30	20,141.10	593.40	0.00
10/15/2023	85.43 ton	As-is		0.00	27,558.60	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	17.19	947.24	84.67	692.29	0.00

Field Name: 327

10/01/2022: Alfalfa

Crop: Alfalfa Acres planted: 74.27 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/30/2023	106.21 ton	As-is		0.00	19,561.50	1,600.80	14,897.10	938.40	0.00
04/30/2023	132.57 ton	As-is		0.00	19,561.50	1,600.80	14,897.10	938.40	0.00
05/30/2023	147.05 ton	As-is		0.00	19,561.50	1,600.80	14,897.10	938.40	0.00
06/28/2023	146.31 ton	As-is		0.00	19,561.50	1,600.80	14,897.10	938.40	0.00
07/28/2023	144.83 ton	As-is		0.00	19,561.50	1,600.80	14,897.10	938.40	0.00
08/26/2023	140.37 ton	As-is		0.00	19,561.50	1,600.80	14,897.10	938.40	0.00
09/23/2023	120.54 ton	As-is		0.00	19,561.50	1,600.80	14,897.10	938.40	0.00
10/25/2023	110.59 ton	As-is		0.00	19,561.50	1,600.80	14,897.10	938.40	0.00
11/26/2023	82.44 ton	As-is		0.00	19,561.50	1,600.80	14,897.10	938.40	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	15.23	595.73	48.75	453.68	0.00

Field Name: 328

10/15/2022: Triticale

Crop: Triticale Acres planted: 67.81 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,311.04 ton	As-is		0.00	6,217.20	1,440.00	9,460.80	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	19.33	240.41	55.68	365.83	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 67.81 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	948.80 ton	As-is		0.00	4,851.00	528.50	6,111.00	66.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	13.99	135.75	14.79	171.01	0.00

Field Name: 331

10/15/2022: Triticale

Crop: Triticale Acres planted: 72.66 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,791.87 ton	As-is		0.00	5,911.20	1,558.80	11,534.40	68.40	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	24.66	291.55	76.88	568.90	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 72.66 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/14/2023	1,527.24 ton	As-is		0.00	6,944.00	1,144.50	7,287.00	70.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	21.02	291.91	48.11	306.33	0.00

Field Name: 332

10/15/2022: Triticale

Crop: Triticale Acres planted: 70.92 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/14/2023	1,506.98 ton	As-is		0.00	6,951.60	1,756.80	12,679.20	75.60	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	21.25	295.43	74.66	538.84	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 70.92 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/01/2023	1,376.49 ton	As-is		0.00	5,600.00	588.00	6,559.00	77.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	19.41	217.38	22.82	254.61	0.00

Field Name: 333

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 70.17 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/05/2023	1,917.96 ton	As-is		0.00	3,815.00	826.00	5,670.00	24.50	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	27.33	208.55	45.15	309.96	0.00

08/01/2023: Milo

Crop: Milo Acres planted: 70.17 Plant date: 08/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/03/2023	1,041.95 ton	As-is		0.00	6,944.00	1,144.50	7,287.00	70.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	14.85	206.22	33.99	216.41	0.00

Field Name: 334

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 56.52 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/11/2023	1,583.24 ton	As-is		0.00	4,060.00	766.50	5,201.00	14.00	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	28.01	227.46	42.94	291.38	0.00

Field Name: 335

10/15/2022: Triticale

Crop: Triticale Acres planted: 69.02 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,496.63 ton	As-is		0.00	5,590.80	1,386.00	10,242.00	68.40	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	21.68	242.46	60.11	444.18	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 69.02 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	1,130.41 ton	As-is		0.00	6,065.50	770.00	7,472.50	73.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	16.38	198.68	25.22	244.77	0.00

Field Name: 336

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 79.17 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/08/2023	2,088.03 ton	As-is		0.00	4,200.00	749.00	6,069.00	17.50	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	26.37	221.54	39.51	320.13	0.00

07/30/2023: Milo

Crop: Milo Acres planted: 79.17 Plant date: 07/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/02/2023	743.25 ton	As-is		0.00	5,362.00	514.50	5,421.50	189.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	9.39	100.68	9.66	101.79	0.00

Field Name: 337

10/15/2022: Triticale

Crop: Triticale Acres planted: 75.45 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/14/2023	2,029.08 ton	As-is		0.00	5,396.40	1,227.60	9,586.80	61.20	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	26.89	290.25	66.03	515.64	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 75.45 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/28/2023	1,175.96 ton	As-is		0.00	5,250.00	742.00	6,398.00	84.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	15.59	163.65	23.13	199.44	0.00

Field Name: 338

10/15/2022: Triticale

Crop: Triticale Acres planted: 73.16 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/14/2023	1,783.71 ton	As-is		0.00	6,451.20	1,198.80	9,338.40	68.40	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	24.38	314.57	58.46	455.36	0.00

04/15/2023: Milo

Crop: Milo Acres planted: 73.16 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	1,105.81 ton	As-is		0.00	5,362.00	514.50	5,421.50	189.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	299.20	220.00	189.20	440.00
Total actual harvest content	15.11	162.09	15.55	163.89	0.00

341(342)

Field Name: 341(342)

03/25/2023: Corn, Early Silage

Crop: Corn, Early Silage Acres planted: 121.47 Plant date: 03/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/12/2023	2,745.22 ton	As-is		0.00	3,745.00	875.00	5,323.50	21.00	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	22.60	169.27	39.55	240.62	0.00

Field Name: 2962P

01/02/2022: Pistachio

Crop: Pistachio Acres planted: 49.75 Plant date: 01/02/2022

No Harvest Data Available

2963P

Field Name: 2963P

01/02/2022: Pistachio

Crop: Pistachio Acres planted: 14.75 Plant date: 01/02/2022

No Harvest Data Available

Field Name: 2972A

09/15/2019: Alfalfa

Crop: Alfalfa Acres planted: 62.59 Plant date: 09/15/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	175.06 ton	As-is		0.00	17,325.90	1,186.80	12,357.90	979.80	0.00
05/31/2023	168.55 ton	As-is		0.00	17,325.90	1,186.80	12,357.90	979.80	0.00
06/30/2023	144.71 ton	As-is		0.00	17,325.90	1,186.80	12,357.90	979.80	0.00
07/25/2023	148.59 ton	As-is		0.00	17,325.90	1,186.80	12,357.90	979.80	0.00
08/31/2023	137.57 ton	As-is		0.00	17,325.90	1,186.80	12,357.90	979.80	0.00
09/29/2023	108.28 ton	As-is		0.00	17,325.90	1,186.80	12,357.90	979.80	0.00
11/04/2023	58.77 ton	As-is		0.00	17,325.90	1,186.80	12,357.90	979.80	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	15.04	521.27	35.71	371.80	0.00

NUTRIENT BUDGET

A. LAND APPLICATIONS

1AL

Field name: 1AL Crop: Almond Plant date: 01/02/2021

01/02/2021: Almond

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	1,024.94 Lbs
Application event totals		14.00	0.00	0.00	0.00	

02/12/2023	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	0.07	160.89	8.80	47.66	1,411,455.27 gal
CAN 17	Commercial fertilizer / Other: Liquid commercial fertilizer	42.98	0.00	0.00	0.00	1,464.20 Gal.
Application event totals		43.05	160.89	8.80	47.66	

03/02/2023	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	0.08	191.03	10.45	56.59	1,675,854.67 gal
Application event totals		0.08	191.03	10.45	56.59	

03/20/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	732.10 Gal.
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	73.21 Gal.
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	73.21 Gal.
Well Water	Ground water	0.17	407.66	22.31	120.77	3,576,349.49 gal
Application event totals		9.41	413.42	28.07	120.77	

04/07/2023		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		
Well Water		Ground water	0.14	338.77	18.54	100.36	2,972,008.02 <i>gal</i>		
Application event totals			0.14	338.77	18.54	100.36			
04/22/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer		1.92	5.76	5.76	0.00	732.10 <i>Gal.</i>		
Well Water	Ground water		0.38	904.37	49.49	267.92	7,933,969.08 <i>gal</i>		
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer		3.78	0.00	0.00	0.00	73.21 <i>Gal.</i>		
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer		3.54	0.00	0.00	0.00	73.21 <i>Gal.</i>		
Application event totals			9.62	910.13	55.25	267.92			
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		
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer		1.92	5.76	5.76	0.00	732.10 <i>Gal.</i>		
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer		3.78	0.00	0.00	0.00	73.21 <i>Gal.</i>		
Well Water	Ground water		0.32	757.31	41.45	224.35	6,643,779.79 <i>gal</i>		
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer		3.54	0.00	0.00	0.00	73.21 <i>Gal.</i>		
Application event totals			9.56	763.07	47.21	224.35			
05/22/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer		3.54	0.00	0.00	0.00	73.21 <i>Gal.</i>		
Well Water	Ground water		0.32	760.70	41.63	225.36	6,673,599.48 <i>gal</i>		
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer		1.92	5.76	5.76	0.00	732.10 <i>Gal.</i>		
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer		3.78	0.00	0.00	0.00	73.21 <i>Gal.</i>		
Application event totals			9.56	766.46	47.39	225.36			

06/07/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Well Water	Ground water	0.46	1,083.39	59.29	320.95	9,504,462.01 <i>gal</i>			
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	1,098.15 <i>Gal.</i>			
Application event totals		53.55	1,083.39	59.29	320.95				
06/22/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Well Water	Ground water	0.41	979.60	53.61	290.21	8,593,973.57 <i>gal</i>			
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	366.05 <i>Gal.</i>			
Application event totals		18.11	979.60	53.61	290.21				
07/07/2023		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			
Well Water	Ground water	0.34	813.05	44.50	240.87	7,132,819.34 <i>gal</i>			
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	585.68 <i>Gal.</i>			
Application event totals		28.65	813.05	44.50	240.87				
07/24/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Well Water	Ground water	0.30	703.37	38.49	208.37	6,170,644.24 <i>gal</i>			
Application event totals		0.30	703.37	38.49	208.37				
08/10/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	73.21 <i>Gal.</i>			
Well Water	Ground water	0.28	650.80	35.62	192.80	5,709,436.08 <i>gal</i>			
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	732.10 <i>Gal.</i>			
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	73.21 <i>Gal.</i>			

Application event totals		9.52	656.56	41.38	192.80	
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Field name: 281

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	910.98 <i>Lbs</i>
Corral Solids	Corral Solids	198.92	58.28	225.63	8,025.16	845.91 <i>ton</i>
Application event totals		212.92	58.28	225.63	8,025.16	

04/21/2023	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	35.39	0.00	0.00	0.00	650.70 <i>Gal.</i>
Well Water	Ground water	0.48	1,144.34	62.63	339.01	8,922,993.58 <i>gal</i>
Application event totals		35.87	1,144.34	62.63	339.01	

05/06/2023	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	15.99	37,835.82	20.43	112.87	500,040.99 <i>gal</i>
Well Water	Ground water	0.47	1,110.35	60.77	328.94	8,657,954.01 <i>gal</i>
Application event totals		16.46	38,946.17	81.20	441.81	

06/15/2023	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
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	500,040.99 <i>gal</i>
Application event totals		15.99	37,835.82	20.43	112.87	

07/05/2023	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	0.49	1,167.00	63.87	345.72	9,099,686.35 <i>gal</i>
Application event totals		0.49	1,167.00	63.87	345.72	

10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/05/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	90.73	23.78	118.37	1,204.96	260.28 <i>ton</i>
Application event totals		90.73	23.78	118.37	1,204.96	
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
Well Water	Ground water	0.38	907.09	49.64	268.73	7,073,017.83 <i>gal</i>
Application event totals		0.38	907.09	49.64	268.73	
11/08/2022	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	0.27	644.91	35.29	191.05	5,028,680.87 <i>gal</i>
Lagoon Water Effluent	Process wastewater	16.79	33,263.44	23.47	212.84	416,995.33 <i>gal</i>
Application event totals		17.06	33,908.35	58.76	403.89	
12/02/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	31.88	63,144.15	44.55	404.04	791,584.38 <i>gal</i>
Application event totals		31.88	63,144.15	44.55	404.04	
12/27/2022	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	0.33	790.16	43.24	234.09	6,161,282.64 <i>gal</i>
Lagoon Water Effluent	Process wastewater	16.01	31,713.02	22.38	202.92	397,559.09 <i>gal</i>
Application event totals		16.34	32,503.18	65.62	437.01	
01/21/2023	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	19.93	39,465.10	27.85	252.53	494,740.22 <i>gal</i>
Application event totals		19.93	39,465.10	27.85	252.53	
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
Lagoon Water Effluent	Process wastewater	27.90	58,266.08	49.63	246.82	687,335.52 <i>gal</i>
Well Water	Ground water	0.43	1,006.57	55.09	298.20	7,848,700.04 <i>gal</i>
Application event totals		28.33	59,272.65	104.72	545.02	

03/12/2023	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	41.53	86,725.09	73.87	367.37	1,023,052.09 <i>gal</i>
Application event totals		41.53	86,725.09	73.87	367.37	

04/04/2023	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
Lagoon Water Effluent	Process wastewater	40.74	85,077.47	72.47	360.39	1,003,615.91 <i>gal</i>
Application event totals		40.74	85,077.47	72.47	360.39	

Field name: 282

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,469.02 <i>Lbs</i>
Corral Solids	Corral Solids	153.01	44.83	173.56	6,173.20	1,049.30 <i>ton</i>
Application event totals		167.01	44.83	173.56	6,173.20	

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
Well Water	Ground water	0.51	1,200.54	65.70	355.66	15,095,586.74 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	1,049.30 <i>Gal.</i>
Application event totals		35.90	1,200.54	65.70	355.66	

05/08/2023	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	1,050.53	57.49	311.22	13,209,351.52 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	806,351.65 <i>gal</i>
Application event totals		16.43	38,886.35	77.92	424.09	

06/17/2023	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
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	806,351.65 <i>gal</i>
Application event totals		15.99	37,835.82	20.43	112.87	

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
Well Water	Ground water	0.40	942.21	51.56	279.13	11,847,386.04 <i>gal</i>
Application event totals		0.40	942.21	51.56	279.13	

10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/21/2022	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	1,049.30 <i>Gal.</i>
Application event totals		35.39	0.00	0.00	0.00	
12/15/2022	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
Well Water	Ground water	0.30	719.24	39.36	213.07	9,043,675.72 <i>gal</i>
Lagoon Water Effluent	Process wastewater	7.97	15,786.04	11.14	101.01	319,121.52 <i>gal</i>
Application event totals		8.27	16,505.28	50.50	314.08	
01/09/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	1,573.95 <i>Gal.</i>
Application event totals		53.09	0.00	0.00	0.00	
02/03/2023	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	0.36	840.24	45.98	248.92	10,565,201.26 <i>gal</i>
Application event totals		0.36	840.24	45.98	248.92	
02/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	1,049.30 <i>Gal.</i>
Application event totals		35.39	0.00	0.00	0.00	
03/25/2023	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	0.31	730.57	39.98	216.43	9,186,140.54 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.99	33,401.89	28.45	141.49	635,393.73 <i>gal</i>

Application event totals		16.30	34,132.46	68.43	357.92	
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04/17/2023	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	0.41	956.94	52.37	283.49	12,032,590.65 <i>gal</i>
Application event totals		0.41	956.94	52.37	283.49	

Field name: 283

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,774.92 <i>Lbs</i>
Corral Solids	Corral Solids	153.01	44.83	173.56	6,173.20	1,267.80 <i>ton</i>
Application event totals		167.01	44.83	173.56	6,173.20	
05/06/2023	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	0.47	1,110.35	60.77	328.94	16,868,839.77 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.08	35,696.69	19.28	106.49	919,179.58 <i>gal</i>
Application event totals		15.55	36,807.04	80.05	435.43	
06/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.48	1,133.01	62.01	335.65	17,213,101.48 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	974,261.52 <i>gal</i>
Application event totals		16.47	38,968.83	82.44	448.52	
07/05/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.50	1,178.33	64.49	349.08	17,901,624.88 <i>gal</i>
Application event totals		0.50	1,178.33	64.49	349.08	

10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	113.41	29.73	147.96	1,506.20	633.90 <i>ton</i>
Application event totals		113.41	29.73	147.96	1,506.20	
12/16/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	23.06	45,666.75	32.22	292.21	1,115,408.98 <i>gal</i>
Well Water	Ground water	0.43	1,019.71	55.81	302.09	15,491,791.33 <i>gal</i>
Application event totals		23.49	46,686.46	88.03	594.30	

01/10/2023	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
Lagoon Water Effluent	Process wastewater	16.01	31,713.02	22.38	202.92	774,589.55 <i>gal</i>
Application event totals		16.01	31,713.02	22.38	202.92	

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
Lagoon Water Effluent	Process wastewater	19.93	39,465.10	27.85	252.53	963,933.69 <i>gal</i>
Well Water	Ground water	0.38	906.41	49.61	268.52	13,770,481.18 <i>gal</i>
Application event totals		20.31	40,371.51	77.46	521.05	

03/01/2023	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
Lagoon Water Effluent	Process wastewater	27.90	58,266.08	49.63	246.82	1,339,179.29 <i>gal</i>
Application event totals		27.90	58,266.08	49.63	246.82	

03/26/2023	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	0.45	1,053.70	57.67	312.16	16,008,184.70 <i>gal</i>
Lagoon Water Effluent	Process wastewater	41.53	86,725.09	73.87	367.37	1,993,277.14 <i>gal</i>
Application event totals		41.98	87,778.79	131.54	679.53	

04/18/2023	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
Lagoon Water Effluent	Process wastewater	40.74	85,077.47	72.47	360.39	1,955,408.39 <i>gal</i>
Well Water	Ground water	0.39	932.70	51.04	276.31	14,169,824.10 <i>gal</i>
Application event totals		41.13	86,010.17	123.51	636.70	

Field name: 291

Crop: Alfalfa

Plant date: 01/02/2020

01/02/2020: 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	1,204.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

03/28/2023	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	0.55	1,292.31	70.73	382.85	13,318,036.77 <i>gal</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	860.00 <i>Gal.</i>
Application event totals		2.47	1,298.07	76.49	382.85	

05/27/2023	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	0.51	1,204.85	65.94	356.94	12,416,622.74 <i>gal</i>
Application event totals		0.51	1,204.85	65.94	356.94	

07/26/2023	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	0.67	1,578.97	86.41	467.77	16,272,151.19 <i>gal</i>
Application event totals		0.67	1,578.97	86.41	467.77	

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	0.46	1,085.43	59.40	321.56	11,185,936.32 <i>gal</i>
Application event totals		0.46	1,085.43	59.40	321.56	

10/22/2023	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	0.36	840.92	46.02	249.12	8,666,181.55 <i>gal</i>
Application event totals		0.36	840.92	46.02	249.12	

11/23/2023	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	0.66	1,551.32	84.90	459.58	15,987,249.03 <i>gal</i>
Application event totals		0.66	1,551.32	84.90	459.58	

Field name: 292

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,204.00 <i>Lbs</i>
Corral Solids	Corral Solids	229.52	67.25	260.34	9,259.80	1,290.00 <i>ton</i>
Application event totals		243.52	67.25	260.34	9,259.80	

03/26/2023	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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	86.00 <i>Gal.</i>
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	86.00 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,290.00 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	

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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	860.00 <i>Gal.</i>
Application event totals		32.58	0.00	0.00	0.00	

04/26/2023	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	15.99	33,401.89	28.45	141.49	520,764.90 <i>gal</i>
Well Water	Ground water	0.48	1,133.01	62.01	335.65	11,676,342.81 <i>gal</i>
Application event totals		16.47	34,534.90	90.46	477.14	

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
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Well Water	Ground water	0.58	1,359.62	74.41	402.79	14,011,611.37 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,462.00 <i>Gal.</i>
Application event totals		55.96	1,359.62	74.41	402.79	

06/07/2023	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
Well Water	Ground water	0.59	1,386.81	75.90	410.84	14,291,843.33 <i>gal</i>
Application event totals		0.59	1,386.81	75.90	410.84	

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,204.00 <i>Lbs</i>
Corral Solids	Corral Solids	214.22	62.76	242.98	8,642.48	1,204.00 <i>ton</i>
Application event totals		228.22	62.76	242.98	8,642.48	

05/01/2023	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	35.39	0.00	0.00	0.00	860.00 <i>Gal.</i>
Well Water	Ground water	0.48	1,144.34	62.63	339.01	11,793,106.68 <i>gal</i>
Application event totals		35.87	1,144.34	62.63	339.01	

05/16/2023	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
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	660,880.99 <i>gal</i>
Well Water	Ground water	0.47	1,121.68	61.39	332.30	11,559,578.93 <i>gal</i>
Application event totals		16.46	38,957.50	81.82	445.17	

06/05/2023	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	0.47	1,110.35	60.77	328.94	11,442,816.17 <i>gal</i>
Application event totals		0.47	1,110.35	60.77	328.94	

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	15.99	37,835.82	20.43	112.87	660,880.99 <i>gal</i>
Application event totals		15.99	37,835.82	20.43	112.87	

Field name: 294P

Crop: Pistachio

Plant date: 01/02/2022

01/02/2022: Pistachio

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
03/03/2023		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		0.12	292.32	16.00	86.60	1,095,708.00 <i>gal</i>	
Application event totals				0.12	292.32	16.00	86.60		
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		0.12	285.52	15.63	84.59	1,070,226.44 <i>gal</i>	
Application event totals				0.12	285.52	15.63	84.59		
03/27/2023		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	
Well Water		Ground water		0.14	319.51	17.49	94.65	1,197,634.33 <i>gal</i>	
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer		17.70	0.00	0.00	0.00	156.40 <i>Gal.</i>	
Application event totals				17.84	319.51	17.49	94.65		
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		0.14	339.90	18.60	100.70	1,274,079.11 <i>gal</i>	
Application event totals				0.14	339.90	18.60	100.70		
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	
Well Water		Ground water		0.10	226.60	12.40	67.13	849,386.07 <i>gal</i>	
Application event totals				0.10	226.60	12.40	67.13		
05/02/2023		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	
Un 32		Commercial fertilizer / Other: Liquid		28.31	0.00	0.00	0.00	250.24 <i>Gal.</i>	

	commercial fertilizer					
Well Water	Ground water	0.09	222.07	12.15	65.79	832,398.37 <i>gal</i>
Application event totals		28.40	222.07	12.15	65.79	

05/14/2023	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
Well Water	Ground water	0.09	224.34	12.28	66.46	840,892.22 <i>gal</i>
Application event totals		0.09	224.34	12.28	66.46	

05/26/2023	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	17.70	0.00	0.00	0.00	156.40 <i>Gal.</i>
Well Water	Ground water	0.29	693.40	37.95	205.42	2,599,121.33 <i>gal</i>
Application event totals		17.99	693.40	37.95	205.42	

06/07/2023	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
Well Water	Ground water	0.10	231.13	12.65	68.47	866,373.78 <i>gal</i>
Application event totals		0.10	231.13	12.65	68.47	

06/19/2023	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	0.29	686.61	37.58	203.41	2,573,639.77 <i>gal</i>
Application event totals		0.29	686.61	37.58	203.41	

07/01/2023	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
Well Water	Ground water	0.40	951.73	52.09	281.95	3,567,421.34 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	156.40 <i>Gal.</i>
Application event totals		18.10	951.73	52.09	281.95	

Field name: 2962P

Crop: Pistachio

Plant date: 01/02/2022

01/02/2022: Pistachio

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/12/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	248.75 <i>Gal.</i>
Well Water	Ground water	0.36	842.96	46.13	249.73	5,025,443.67 <i>gal</i>
Application event totals		18.06	842.96	46.13	249.73	

03/02/2023	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	0.12	278.72	15.25	82.57	1,661,638.65 <i>gal</i>
Application event totals		0.12	278.72	15.25	82.57	

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
Well Water	Ground water	0.13	302.51	16.56	89.62	1,803,485.87 <i>gal</i>
Application event totals		0.13	302.51	16.56	89.62	

03/26/2023	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	0.12	285.52	15.63	84.59	1,702,166.38 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	248.75 <i>Gal.</i>
Application event totals		17.82	285.52	15.63	84.59	

04/07/2023	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
Well Water	Ground water	0.14	336.50	18.42	99.69	2,006,124.70 <i>gal</i>
Application event totals		0.14	336.50	18.42	99.69	

04/19/2023	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	0.10	226.60	12.40	67.13	1,350,925.71 <i>gal</i>
Application event totals		0.10	226.60	12.40	67.13	

05/01/2023	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	28.31	0.00	0.00	0.00	398.00 <i>Gal.</i>
Well Water	Ground water	0.10	231.13	12.65	68.47	1,377,944.20 <i>gal</i>
Application event totals		28.41	231.13	12.65	68.47	

05/13/2023	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	0.09	224.34	12.28	66.46	1,337,416.46 <i>gal</i>
Application event totals		0.09	224.34	12.28	66.46	

05/25/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	248.75 <i>Gal.</i>
Well Water	Ground water	0.29	686.61	37.58	203.41	4,093,304.86 <i>gal</i>
Application event totals		17.99	686.61	37.58	203.41	

06/06/2023	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	0.10	228.87	12.53	67.80	1,364,434.95 <i>gal</i>
Application event totals		0.10	228.87	12.53	67.80	

06/18/2023	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
Well Water	Ground water	0.30	700.20	38.32	207.43	4,174,360.32 <i>gal</i>
Application event totals		0.30	700.20	38.32	207.43	

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
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Well Water	Ground water	0.40	933.60	51.09	276.58	5,565,813.76 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	248.75 <i>Gal.</i>
Application event totals		18.10	933.60	51.09	276.58	

Field name: 2963P

Crop: Pistachio

Plant date: 01/02/2022

01/02/2022: Pistachio

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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	73.75 <i>Gal.</i>
Well Water	Ground water	0.31	739.86	40.49	219.18	1,307,716.49 <i>gal</i>
Application event totals		18.01	739.86	40.49	219.18	

03/05/2023	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	0.14	337.41	18.47	99.96	596,382.77 <i>gal</i>
Application event totals		0.14	337.41	18.47	99.96	

03/17/2023	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	0.11	262.41	14.36	77.74	463,808.77 <i>gal</i>
Application event totals		0.11	262.41	14.36	77.74	

03/29/2023	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	0.12	277.81	15.20	82.30	491,044.50 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	73.75 <i>Gal.</i>
Application event totals		17.82	277.81	15.20	82.30	

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	0.11	255.38	13.98	75.66	451,392.47 <i>gal</i>
Application event totals		0.11	255.38	13.98	75.66	

04/22/2023	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	0.08	182.19	9.97	53.97	322,022.68 <i>gal</i>
Application event totals		0.08	182.19	9.97	53.97	

05/04/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	118.00 <i>Gal.</i>
Aqua Amonia	Commercial fertilizer / Other: Liquid commercial fertilizer	52,607.44	0.00	0.00	0.00	13.38 <i>Ac. In.</i>
Application event totals		52,635.75	0.00	0.00	0.00	

05/16/2023	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
Aqua Amonia	Commercial fertilizer / Other: Liquid commercial fertilizer	48,257.32	0.00	0.00	0.00	12.27 <i>Ac. In.</i>
Application event totals		48,257.32	0.00	0.00	0.00	

05/28/2023	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	17.70	0.00	0.00	0.00	73.75 <i>Gal.</i>
Aqua Amonia	Commercial fertilizer / Other: Liquid commercial fertilizer	194,305.30	0.00	0.00	0.00	49.41 <i>Ac. In.</i>
Application event totals		194,323.00	0.00	0.00	0.00	

06/09/2023	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
Aqua Amonia	Commercial fertilizer / Other: Liquid commercial fertilizer	58,349.59	0.00	0.00	0.00	14.84 <i>Ac. In.</i>
Application event totals		58,349.59	0.00	0.00	0.00	

06/21/2023	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	0.29	684.79	37.48	202.87	1,210,388.73 <i>gal</i>
Application event totals		0.29	684.79	37.48	202.87	
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
Well Water	Ground water	0.50	1,188.98	65.07	352.24	2,101,558.50 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	73.75 <i>Gal.</i>
Application event totals		18.20	1,188.98	65.07	352.24	

Field name: 296P

Crop: Pistachio

Plant date: 01/02/2022

01/02/2022: Pistachio

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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	0.13	295.72	16.18	87.61	1,240,271.94 <i>gal</i>
Application event totals		0.13	295.72	16.18	87.61	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/27/2023	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
Well Water	Ground water	0.13	316.11	17.30	93.65	1,325,807.98 <i>gal</i>
Application event totals		0.13	316.11	17.30	93.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	175.00 <i>Gal.</i>
Well Water	Ground water	0.14	322.91	17.67	95.66	1,354,319.95 <i>gal</i>
Application event totals		17.84	322.91	17.67	95.66	

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
Well Water	Ground water	0.14	339.90	18.60	100.70	1,425,599.99 <i>gal</i>
Application event totals		0.14	339.90	18.60	100.70	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/02/2023	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
Well Water	Ground water	0.10	228.87	12.53	67.80	959,903.99 <i>gal</i>
Application event totals		0.10	228.87	12.53	67.80	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/14/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.10	228.87	12.53	67.80	959,903.99 <i>gal</i>

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	280.00 <i>Gal.</i>
Application event totals		28.41	228.87	12.53	67.80	

05/26/2023	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	0.09	224.34	12.28	66.46	940,896.01 <i>gal</i>
Application event totals		0.09	224.34	12.28	66.46	

06/07/2023	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
Well Water	Ground water	0.28	673.01	36.83	199.38	2,822,688.02 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	175.00 <i>Gal.</i>
Application event totals		17.98	673.01	36.83	199.38	

06/19/2023	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	0.10	231.13	12.65	68.47	969,407.98 <i>gal</i>
Application event totals		0.10	231.13	12.65	68.47	

07/01/2023	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
Well Water	Ground water	0.29	693.40	37.95	205.42	2,908,223.93 <i>gal</i>
Application event totals		0.29	693.40	37.95	205.42	

07/13/2023	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	0.40	951.73	52.09	281.95	3,991,679.80 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	175.00 <i>Gal.</i>
Application event totals		18.10	951.73	52.09	281.95	

Field name: 2972A

Crop: Alfalfa

Plant date: 09/15/2019

09/15/2019: 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	876.26 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

03/05/2023	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	0.48	1,127.35	61.70	333.98	8,455,443.87 <i>gal</i>
Application event totals		0.48	1,127.35	61.70	333.98	

03/28/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	625.90 <i>Gal.</i>
Well Water	Ground water	0.35	832.08	45.54	246.51	6,240,882.39 <i>gal</i>
Application event totals		2.27	837.84	51.30	246.51	

04/28/2023	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	1,231.58	67.40	364.86	9,237,253.83 <i>gal</i>
Application event totals		0.52	1,231.58	67.40	364.86	

05/27/2023	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	0.60	1,408.79	77.10	417.35	10,566,330.77 <i>gal</i>
Application event totals		0.60	1,408.79	77.10	417.35	

07/26/2023	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	1,252.21	68.53	370.97	9,391,916.36 <i>gal</i>
Application event totals		0.53	1,252.21	68.53	370.97	

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	0.69	1,619.75	88.65	479.85	12,148,645.61 <i>gal</i>
Application event totals		0.69	1,619.75	88.65	479.85	

Field name: 297A

Crop: Alfalfa

Plant date: 01/02/2020

01/02/2020: 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	490.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

02/15/2023	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	0.43	1,027.19	56.22	304.30	4,308,163.17 <i>gal</i>
Application event totals		0.43	1,027.19	56.22	304.30	

04/04/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	350.00 <i>Gal.</i>
Application event totals		1.92	5.76	5.76	0.00	

05/05/2023	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	0.41	978.47	53.55	289.87	4,103,827.03 <i>gal</i>
Application event totals		0.41	978.47	53.55	289.87	

06/03/2023	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	0.38	895.31	49.00	265.23	3,755,030.36 <i>gal</i>
Application event totals		0.38	895.31	49.00	265.23	

07/02/2023	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	0.37	875.59	47.92	259.39	3,672,345.66 <i>gal</i>
Application event totals		0.37	875.59	47.92	259.39	

08/30/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.64	1,523.68	83.39	451.39	6,390,489.55 <i>gal</i>
Application event totals		0.64	1,523.68	83.39	451.39	

09/27/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.55	1,295.94	70.92	383.92	5,435,337.45 <i>gal</i>
Application event totals		0.55	1,295.94	70.92	383.92	

Field name: 2AL

Crop: Almond

Plant date: 01/02/2021

01/02/2021: Almond

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	1,011.36 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

02/06/2023	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
CAN 17	Commercial fertilizer / Other: Liquid commercial fertilizer	42.98	0.00	0.00	0.00	1,444.80 <i>Gal.</i>
Well Water	Ground water	0.09	211.19	11.56	62.57	1,828,234.96 <i>gal</i>
Application event totals		43.07	211.19	11.56	62.57	

02/24/2023	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
Well Water	Ground water	0.10	226.83	12.41	67.20	1,963,587.25 <i>gal</i>
Application event totals		0.10	226.83	12.41	67.20	

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
Well Water	Ground water	0.24	566.73	31.02	167.89	4,906,025.32 <i>gal</i>
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	72.24 <i>Gal.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	72.24 <i>Gal.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	722.40 <i>Gal.</i>
Application event totals		9.48	572.49	36.78	167.89	

04/01/2023	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
Well Water	Ground water	0.15	355.77	19.47	105.40	3,079,752.19 <i>gal</i>

Application event totals		0.15	355.77	19.47	105.40	
04/16/2023		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
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	72.24 Gal.
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	72.24 Gal.
Well Water	Ground water	0.41	973.26	53.26	288.33	8,425,181.82 gal
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	722.40 Gal.
Application event totals		9.65	979.02	59.02	288.33	
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
Well Water	Ground water	0.41	959.21	52.50	284.17	8,303,560.50 gal
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	72.24 Gal.
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	72.24 Gal.
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	722.40 Gal.
Application event totals		9.65	964.97	58.26	284.17	
05/16/2023		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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	722.40 Gal.
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	72.24 Gal.
Well Water	Ground water	0.42	993.88	54.39	294.44	8,603,689.90 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	72.24 Gal.
Application event totals		9.66	999.64	60.15	294.44	
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

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	361.20 <i>Gal.</i>
Well Water	Ground water	0.42	982.55	53.77	291.08	8,505,608.25 <i>gal</i>
Application event totals		18.12	982.55	53.77	291.08	

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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	42.47	0.00	0.00	0.00	866.88 <i>Gal.</i>
Well Water	Ground water	0.44	1,031.04	56.43	305.45	8,925,396.55 <i>gal</i>
Application event totals		42.91	1,031.04	56.43	305.45	

07/01/2023	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
Well Water	Ground water	0.31	730.34	39.97	216.36	6,322,319.19 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	577.92 <i>Gal.</i>
Application event totals		28.62	730.34	39.97	216.36	

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
Well Water	Ground water	0.23	536.37	29.35	158.90	4,643,167.84 <i>gal</i>
Application event totals		0.23	536.37	29.35	158.90	

08/04/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	722.40 <i>Gal.</i>
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	72.24 <i>Gal.</i>
Well Water	Ground water	0.30	702.69	38.46	208.17	6,083,000.92 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	72.24 <i>Gal.</i>
Application event totals		9.54	708.45	44.22	208.17	

Field name: 2P

Crop: Pistachio

Plant date: 01/01/2017

01/01/2017: Pistachio

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Well Water	Ground water	0.01	752.32	18,356.62	131.66	4,870,924.68 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	270.15 <i>Gal.</i>
Application event totals		17.71	752.32	18,356.62	131.66	

03/12/2023	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	0.00	326.31	7,961.91	57.10	2,112,690.35 <i>gal</i>
Application event totals		0.00	326.31	7,961.91	57.10	

03/22/2023	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	0.00	295.72	7,215.48	51.75	1,914,625.48 <i>gal</i>
Application event totals		0.00	295.72	7,215.48	51.75	

04/01/2023	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
Well Water	Ground water	0.00	302.51	7,381.35	52.94	1,958,639.99 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	270.15 <i>Gal.</i>
Application event totals		17.70	302.51	7,381.35	52.94	

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
Well Water	Ground water	0.00	343.30	8,376.59	60.08	2,222,726.20 <i>gal</i>
Steric 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.30	6.91	6.91	0.00	648.36 <i>Gal.</i>

Application event totals		2.30	350.21	8,383.50	60.08	
04/25/2023	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	0.00	215.27	5,252.65	37.67	1,393,788.70 <i>gal</i>
Application event totals		0.00	215.27	5,252.65	37.67	
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
Aqua Amonia	Commercial fertilizer / Other: Liquid commercial fertilizer	56,841.55	0.00	0.00	0.00	52.95 <i>Ac. In.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	540.30 <i>Gal.</i>
Application event totals		56,876.94	0.00	0.00	0.00	
05/19/2023	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	0.00	228.87	5,584.39	40.05	1,481,817.46 <i>gal</i>
Application event totals		0.00	228.87	5,584.39	40.05	
05/31/2023	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	0.01	599.59	14,630.00	104.93	3,882,068.58 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	270.15 <i>Gal.</i>
Application event totals		17.71	599.59	14,630.00	104.93	
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	0.01	624.06	15,227.15	109.21	4,040,520.06 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	432.24 <i>Gal.</i>
Application event totals		28.32	624.06	15,227.15	109.21	
06/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	679.81	16,587.30	118.97	4,401,438.05 <i>gal</i>
Application event totals		0.01	679.81	16,587.30	118.97	

07/06/2023	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	0.00	513.48	12,528.94	89.86	3,324,552.92 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	270.15 <i>Gal.</i>
Application event totals		17.70	513.48	12,528.94	89.86	

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
Well Water	Ground water	0.00	528.44	12,893.86	92.48	3,421,384.54 <i>gal</i>
Application event totals		0.00	528.44	12,893.86	92.48	

Field name: 311

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,028.30 <i>Lbs</i>
Corral Solids	Corral Solids	61.21	17.93	69.42	2,469.28	293.80 <i>ton</i>
Application event totals		75.21	17.93	69.42	2,469.28	

03/28/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,101.75 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	73.45 <i>Gal.</i>
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	73.45 <i>Qt.</i>
Application event totals		6.14	8.64	8.64	0.00	

04/12/2023	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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	734.50 <i>Gal.</i>
Application event totals		32.58	0.00	0.00	0.00	

04/28/2023	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	15.99	33,401.89	28.45	141.49	444,769.54 <i>gal</i>
Application event totals		15.99	33,401.89	28.45	141.49	

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	0.56	1,332.42	72.92	394.73	11,727,555.53 <i>gal</i>
Application event totals		0.56	1,332.42	72.92	394.73	

05/26/2023	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	0.59	1,386.81	75.90	410.84	12,206,230.80 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,248.65 <i>Gal.</i>
Application event totals		55.97	1,386.81	75.90	410.84	

06/24/2023	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
Well Water	Ground water	0.48	1,133.01	62.01	335.65	9,972,410.97 <i>gal</i>
Application event totals		0.48	1,133.01	62.01	335.65	

Field name: 312

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	993.72 <i>Lbs</i>
Corral Solids	Corral Solids	168.32	49.31	190.91	6,790.52	780.78 <i>ton</i>
Application event totals		182.32	49.31	190.91	6,790.52	

04/02/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,064.70 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	70.98 <i>Gal.</i>
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	70.98 <i>Qt.</i>
Application event totals		6.14	8.64	8.64	0.00	

04/17/2023	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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	709.80 <i>Gal.</i>
Application event totals		32.58	0.00	0.00	0.00	

05/03/2023	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	0.45	1,062.31	58.14	314.71	9,035,704.48 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.99	33,401.89	28.45	141.49	429,812.73 <i>gal</i>
Application event totals		16.44	34,464.20	86.59	456.20	

05/31/2023	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	0.50	1,170.40	64.05	346.73	9,955,079.20 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,206.66 <i>Gal.</i>
Application event totals		55.88	1,170.40	64.05	346.73	

06/29/2023	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	0.42	983.68	53.83	291.42	8,366,892.53 <i>gal</i>
Application event totals		0.42	983.68	53.83	291.42	

Field name: 313

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,015.98 <i>Lbs</i>
Corral Solids	Corral Solids	107.11	31.38	121.49	4,321.24	507.99 <i>ton</i>
Application event totals		121.11	31.38	121.49	4,321.24	

03/26/2023	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
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	72.57 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,088.55 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	72.57 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	

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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	725.70 <i>Gal.</i>
Application event totals		32.58	0.00	0.00	0.00	

04/26/2023	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	15.99	33,401.89	28.45	141.49	439,440.80 <i>gal</i>
Well Water	Ground water	0.58	1,368.00	74.87	405.27	11,896,431.04 <i>gal</i>
Application event totals		16.57	34,769.89	103.32	546.76	

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
Well Water	Ground water	0.46	1,080.89	59.15	320.21	9,399,697.56 <i>gal</i>

Application event totals		0.46	1,080.89	59.15	320.21	
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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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,233.69 <i>Gal.</i>
Application event totals		55.38	0.00	0.00	0.00	

06/07/2023	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
Well Water	Ground water	0.57	1,338.54	73.26	396.54	11,640,254.57 <i>gal</i>
Application event totals		0.57	1,338.54	73.26	396.54	

Field name: 314A

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	992.04 <i>Lbs</i>
Corral Solids	Corral Solids	214.22	62.76	242.98	8,642.48	992.04 <i>ton</i>
Application event totals		228.22	62.76	242.98	8,642.48	

04/26/2023	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	35.39	0.00	0.00	0.00	708.60 <i>Gal.</i>
Well Water	Ground water	0.47	1,110.35	60.77	328.94	9,428,348.39 <i>gal</i>
Application event totals		35.86	1,110.35	60.77	328.94	

05/11/2023	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	15.99	37,835.82	20.43	112.87	544,535.20 <i>gal</i>
Well Water	Ground water	0.47	1,121.68	61.39	332.30	9,524,555.47 <i>gal</i>
Application event totals		16.46	38,957.50	81.82	445.17	

05/31/2023	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	0.49	1,155.67	63.25	342.37	9,813,178.56 <i>gal</i>
Application event totals		0.49	1,155.67	63.25	342.37	

06/20/2023	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
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	544,535.20 <i>gal</i>
Application event totals		15.99	37,835.82	20.43	112.87	

10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
11/08/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	16.79	33,263.44	23.47	212.84	454,100.04 <i>gal</i>
Application event totals		16.79	33,263.44	23.47	212.84	
12/02/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.39	917.74	50.23	271.88	7,792,818.78 <i>gal</i>
Lagoon Water Effluent	Process wastewater	31.88	63,144.15	44.55	404.04	862,020.43 <i>gal</i>
Application event totals		32.27	64,061.89	94.78	675.92	
12/27/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	16.01	31,713.02	22.38	202.92	432,934.34 <i>gal</i>
Application event totals		16.01	31,713.02	22.38	202.92	
01/21/2023	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	19.93	39,465.10	27.85	252.53	538,762.76 <i>gal</i>
Well Water	Ground water	0.41	974.39	53.33	288.66	8,273,856.95 <i>gal</i>
Application event totals		20.34	40,439.49	81.18	541.19	
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
Lagoon Water Effluent	Process wastewater	27.90	58,266.08	49.63	246.82	748,495.40 <i>gal</i>
Application event totals		27.90	58,266.08	49.63	246.82	
03/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	41.53	86,725.09	73.87	367.37	1,114,084.40 <i>gal</i>
Well Water	Ground water	0.44	1,031.04	56.43	305.45	8,754,895.13 <i>gal</i>
Application event totals		41.97	87,756.13	130.30	672.82	
04/04/2023	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	0.39	913.66	50.00	270.67	7,758,182.87 <i>gal</i>
Lagoon Water Effluent	Process wastewater	40.74	85,077.47	72.47	360.39	1,092,918.77 <i>gal</i>

Application event totals		41.13	85,991.13	122.47	631.06	
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Field name: 314B

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	210.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Corral Solids	Corral Solids	214.22	62.76	242.98	8,642.48	210.00 <i>ton</i>
Application event totals		214.22	62.76	242.98	8,642.48	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/21/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	75.00 <i>Gal.</i>
Application event totals		17.70	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/10/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.42	990.25	54.19	293.36	1,779,963.37 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	115,269.94 <i>gal</i>
Application event totals		16.41	38,826.07	74.62	406.23	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/19/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.45	1,065.49	58.31	315.65	1,915,191.82 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	115,269.94 <i>gal</i>
Application event totals		16.44	38,901.31	78.74	428.52	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/09/2023	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
Well Water	Ground water	0.48	1,137.09	62.23	336.86	2,043,903.13 <i>gal</i>

Application event totals		0.48	1,137.09	62.23	336.86	
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10/15/2022: 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
Well Water	Ground water	0.38	906.41	49.61	268.52	1,629,257.14 <i>gal</i>
Application event totals		0.38	906.41	49.61	268.52	
11/08/2022	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	0.31	743.26	40.68	220.19	1,335,990.84 <i>gal</i>
Lagoon Water Effluent	Process wastewater	16.79	33,263.44	23.47	212.84	96,126.17 <i>gal</i>
Application event totals		17.10	34,006.70	64.15	433.03	
12/02/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	31.88	63,144.15	44.55	404.04	182,476.80 <i>gal</i>
Well Water	Ground water	0.39	917.74	50.23	271.88	1,649,622.93 <i>gal</i>
Application event totals		32.27	64,061.89	94.78	675.92	
12/27/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	16.01	31,713.02	22.38	202.92	91,645.71 <i>gal</i>
Application event totals		16.01	31,713.02	22.38	202.92	
01/21/2023	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	0.41	974.39	53.33	288.66	1,751,451.50 <i>gal</i>
Lagoon Water Effluent	Process wastewater	19.93	39,465.10	27.85	252.53	114,048.00 <i>gal</i>
Application event totals		20.34	40,439.49	81.18	541.19	
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
Lagoon Water Effluent	Process wastewater	27.90	58,266.08	49.63	246.82	158,445.26 <i>gal</i>
Application event totals		27.90	58,266.08	49.63	246.82	

03/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	41.53	86,725.09	73.87	367.37	235,834.97 <i>gal</i>
Application event totals		41.53	86,725.09	73.87	367.37	
04/04/2023	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
Lagoon Water Effluent	Process wastewater	40.74	85,077.47	72.47	360.39	231,354.52 <i>gal</i>
Application event totals		40.74	85,077.47	72.47	360.39	

Field name: 315

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,062.18 <i>Lbs</i>
Corral Solids	Corral Solids	122.41	35.87	138.85	4,938.56	606.96 <i>ton</i>
Application event totals		136.41	35.87	138.85	4,938.56	

04/03/2023	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
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	75.87 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,138.05 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	75.87 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	

04/18/2023	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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	758.70 <i>Gal.</i>
Well Water	Ground water	0.57	1,353.50	74.07	400.97	12,305,549.16 <i>gal</i>
Application event totals		33.15	1,353.50	74.07	400.97	

05/04/2023	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
Lagoon Water Effluent	Process wastewater	21.30	44,485.93	37.89	188.44	611,878.11 <i>gal</i>
Well Water	Ground water	0.45	1,058.91	57.95	313.70	9,627,294.32 <i>gal</i>
Application event totals		21.75	45,544.84	95.84	502.14	

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
Well Water	Ground water	0.63	1,479.71	80.98	438.37	13,453,078.50 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,289.79 <i>Gal.</i>
Application event totals		56.01	1,479.71	80.98	438.37	

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	0.56	1,319.28	72.20	390.84	11,994,459.55 <i>gal</i>
Application event totals		0.56	1,319.28	72.20	390.84	

Field name: 316

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/01/2023	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	1,022.42 <i>Lbs</i>
Corral Solids	Corral Solids	198.92	58.28	225.63	8,025.16	949.39 <i>ton</i>
Application event totals		212.92	58.28	225.63	8,025.16	

04/14/2023	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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	73.03 <i>Gal.</i>
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	73.03 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,095.45 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	

04/29/2023	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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	730.30 <i>Gal.</i>
Application event totals		32.58	0.00	0.00	0.00	

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
Lagoon Water Effluent	Process wastewater	15.99	33,401.89	28.45	141.49	442,226.28 <i>gal</i>
Well Water	Ground water	0.47	1,099.93	60.20	325.85	9,625,858.10 <i>gal</i>
Application event totals		16.46	34,501.82	88.65	467.34	

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
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Well Water	Ground water	0.63	1,485.83	81.32	440.18	13,003,039.12 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,241.51 <i>Gal.</i>
Application event totals		56.01	1,485.83	81.32	440.18	

06/26/2023	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	0.47	1,111.26	60.82	329.21	9,725,011.40 <i>gal</i>
Application event totals		0.47	1,111.26	60.82	329.21	

08/01/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,022.42 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

08/07/2023	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
Well Water	Ground water	0.51	1,200.99	65.73	355.79	10,510,310.83 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	730.30 <i>Gal.</i>
Application event totals		35.90	1,200.99	65.73	355.79	

08/22/2023	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	0.51	1,200.99	65.73	355.79	10,510,310.83 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.99	18,581.41	12.47	129.62	396,615.49 <i>gal</i>
Application event totals		16.50	19,782.40	78.20	485.41	

09/11/2023	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	0.49	1,155.67	63.25	342.37	10,113,694.78 <i>gal</i>
Application event totals		0.49	1,155.67	63.25	342.37	

10/01/2023	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
Lagoon Water Effluent	Process wastewater	15.99	18,581.41	12.47	129.62	396,615.49 <i>gal</i>
Application event totals		15.99	18,581.41	12.47	129.62	

Field name: 317

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/22/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,066.94 <i>Lbs</i>
Corral Solids	Corral Solids	168.32	49.31	190.91	6,790.52	838.31 <i>ton</i>
Application event totals		182.32	49.31	190.91	6,790.52	

04/04/2023	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
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	76.21 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,143.15 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	76.21 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	

04/19/2023	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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	762.10 <i>Gal.</i>
Well Water	Ground water	0.44	1,033.76	56.58	306.25	9,440,730.49 <i>gal</i>
Application event totals		33.02	1,033.76	56.58	306.25	

05/05/2023	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
Lagoon Water Effluent	Process wastewater	15.99	33,401.89	28.45	141.49	461,482.47 <i>gal</i>
Application event totals		15.99	33,401.89	28.45	141.49	

05/19/2023	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	0.56	1,320.64	72.28	391.24	12,060,627.00 <i>gal</i>

Application event totals		0.56	1,320.64	72.28	391.24	
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06/02/2023	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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,295.57 <i>Gal.</i>
Application event totals		55.38	0.00	0.00	0.00	

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	0.52	1,226.60	67.13	363.38	11,201,814.42 <i>gal</i>
Application event totals		0.52	1,226.60	67.13	363.38	

07/01/2023	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
Well Water	Ground water	0.45	1,069.79	58.55	316.93	9,769,770.37 <i>gal</i>
Application event totals		0.45	1,069.79	58.55	316.93	

Field name: 318

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,086.54 <i>Lbs</i>
Corral Solids	Corral Solids	76.51	22.42	86.78	3,086.60	388.05 <i>ton</i>
Application event totals		90.51	22.42	86.78	3,086.60	

03/26/2023	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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	77.61 <i>Gal.</i>
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	77.61 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,164.15 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	

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	0.53	1,261.50	69.04	373.72	11,732,141.24 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	776.10 <i>Gal.</i>
Application event totals		33.11	1,261.50	69.04	373.72	

04/26/2023	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	1,278.49	69.97	378.75	11,890,200.15 <i>gal</i>
Application event totals		0.54	1,278.49	69.97	378.75	

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
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Well Water	Ground water	0.71	1,672.10	91.51	495.36	15,550,830.57 <i>gal</i>
Nitro 721 28.6-0-0-8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,319.37 <i>Gal.</i>
Application event totals		56.09	1,672.10	91.51	495.36	

06/22/2023	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	1,124.63	61.55	333.17	10,459,244.80 <i>gal</i>
Application event totals		0.48	1,124.63	61.55	333.17	

07/30/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	231.46	50.82	129.73	3,511.20	388.05 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,086.54 <i>Lbs</i>
Application event totals		245.46	50.82	129.73	3,511.20	

08/05/2023	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	0.57	1,354.63	74.14	401.31	12,598,301.31 <i>gal</i>
Application event totals		0.57	1,354.63	74.14	401.31	

08/20/2023	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
Lagoon Water Effluent	Process wastewater	15.99	18,581.41	12.47	129.62	421,488.83 <i>gal</i>
Well Water	Ground water	0.39	915.47	50.10	271.21	8,514,074.17 <i>gal</i>
Application event totals		16.38	19,496.88	62.57	400.83	

09/09/2023	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	996.60	54.54	295.24	9,268,538.75 <i>gal</i>
Application event totals		0.42	996.60	54.54	295.24	

Field name: 321

Crop: Alfalfa

Plant date: 04/01/2020

04/01/2020: 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	1,019.20 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

04/04/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	728.00 <i>Gal.</i>
Application event totals		1.92	5.76	5.76	0.00	

05/05/2023	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	0.48	1,144.34	62.63	339.01	9,983,002.35 <i>gal</i>
Application event totals		0.48	1,144.34	62.63	339.01	

06/03/2023	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	0.47	1,121.68	61.39	332.30	9,785,318.39 <i>gal</i>
Application event totals		0.47	1,121.68	61.39	332.30	

07/02/2023	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	1,133.01	62.01	335.65	9,884,160.37 <i>gal</i>
Application event totals		0.48	1,133.01	62.01	335.65	

08/30/2023	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	0.59	1,400.40	76.64	414.87	12,216,821.88 <i>gal</i>
Application event totals		0.59	1,400.40	76.64	414.87	

09/27/2023	Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Well Water	Ground water	0.49	1,155.67	63.25	342.37	10,081,843.39 <i>gal</i>		
Application event totals		0.49	1,155.67	63.25	342.37			

10/29/2023	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	0.48	1,133.01	62.01	335.65	9,884,160.37 <i>gal</i>		
Application event totals		0.48	1,133.01	62.01	335.65			

Field name: 322

Crop: Alfalfa

Plant date: 01/02/2020

01/02/2020: 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	1,003.80 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
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
Well Water	Ground water	0.33	773.39	42.33	229.12	6,644,982.18 <i>gal</i>
Application event totals		0.33	773.39	42.33	229.12	
04/06/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	717.00 <i>Gal.</i>
Application event totals		1.92	5.76	5.76	0.00	
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
Well Water	Ground water	0.56	1,319.96	72.24	391.04	11,341,054.41 <i>gal</i>
Application event totals		0.56	1,319.96	72.24	391.04	
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
Well Water	Ground water	0.43	1,011.55	55.36	299.67	8,691,239.68 <i>gal</i>
Application event totals		0.43	1,011.55	55.36	299.67	
07/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.37	884.66	48.42	262.08	7,600,940.49 <i>gal</i>
Application event totals		0.37	884.66	48.42	262.08	

09/01/2023	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	0.74	1,738.72	95.16	515.10	14,939,040.64 <i>gal</i>		
Application event totals		0.74	1,738.72	95.16	515.10			

09/29/2023	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	0.59	1,402.22	76.74	415.41	12,047,802.45 <i>gal</i>		
Application event totals		0.59	1,402.22	76.74	415.41			

Field name: 323

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,015.98 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

03/26/2023	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
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	72.57 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,088.55 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	72.57 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	

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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	725.70 <i>Gal.</i>
Application event totals		32.58	0.00	0.00	0.00	

04/26/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.46	1,087.69	59.53	322.23	9,458,815.56 <i>gal</i>
Lagoon Water Effluent	Process wastewater	54.08	112,937.34	96.20	478.40	1,485,822.24 <i>gal</i>
Application event totals		54.54	114,025.03	155.73	800.63	

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	0.58	1,359.62	74.41	402.79	11,823,518.99 <i>gal</i>

Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,233.69 <i>Gal.</i>
Application event totals		55.96	1,359.62	74.41	402.79	

06/22/2023	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	1,144.34	62.63	339.01	9,951,462.19 <i>gal</i>
Application event totals		0.48	1,144.34	62.63	339.01	

Field name: 324

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,029.56 <i>Lbs</i>
Corral Solids	Corral Solids	198.92	58.28	225.63	8,025.16	956.02 <i>ton</i>
Application event totals		212.92	58.28	225.63	8,025.16	
04/29/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	735.40 <i>Gal.</i>
Well Water	Ground water	0.53	1,246.54	68.22	369.29	10,985,090.81 <i>gal</i>
Application event totals		35.92	1,246.54	68.22	369.29	
05/14/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	565,130.10 <i>gal</i>
Well Water	Ground water	0.48	1,143.66	62.59	338.81	10,078,486.33 <i>gal</i>
Application event totals		16.47	38,979.48	83.02	451.68	
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
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	565,130.10 <i>gal</i>
Application event totals		15.99	37,835.82	20.43	112.87	
07/13/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.44	1,037.39	56.77	307.33	9,141,928.23 <i>gal</i>
Application event totals		0.44	1,037.39	56.77	307.33	

10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	113.41	29.73	147.96	1,506.20	367.70 <i>ton</i>
Application event totals		113.41	29.73	147.96	1,506.20	
11/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.37	870.15	47.62	257.78	7,668,196.39 <i>gal</i>
Application event totals		0.37	870.15	47.62	257.78	
11/29/2022	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	0.31	725.13	39.68	214.82	6,390,163.90 <i>gal</i>
Application event totals		0.31	725.13	39.68	214.82	
12/23/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	31.88	63,144.15	44.55	404.04	894,622.96 <i>gal</i>
Application event totals		31.88	63,144.15	44.55	404.04	
01/17/2023	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
Lagoon Water Effluent	Process wastewater	16.01	31,713.02	22.38	202.92	449,308.38 <i>gal</i>
Well Water	Ground water	0.41	963.06	52.71	285.31	8,486,936.30 <i>gal</i>
Application event totals		16.42	32,676.08	75.09	488.23	
02/11/2023	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	19.93	39,465.10	27.85	252.53	559,139.33 <i>gal</i>
Application event totals		19.93	39,465.10	27.85	252.53	
03/08/2023	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
Lagoon Water Effluent	Process wastewater	27.90	58,266.08	49.63	246.82	776,804.28 <i>gal</i>
Well Water	Ground water	0.41	974.39	53.33	288.66	8,586,782.99 <i>gal</i>
Application event totals		28.31	59,240.47	102.96	535.48	

04/02/2023	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
Lagoon Water Effluent	Process wastewater	41.53	86,725.09	73.87	367.37	1,156,220.26 <i>gal</i>
Application event totals		41.53	86,725.09	73.87	367.37	
04/25/2023	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	40.74	85,077.47	72.47	360.39	1,134,254.11 <i>gal</i>
Application event totals		40.74	85,077.47	72.47	360.39	

Field name: 325

Crop: Alfalfa

Plant date: 01/02/2020

01/02/2020: 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	1,026.48 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

02/20/2023	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	0.45	1,056.42	57.82	312.96	9,281,819.57 <i>gal</i>
Application event totals		0.45	1,056.42	57.82	312.96	

03/17/2023	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	0.47	1,105.82	60.52	327.60	9,715,847.02 <i>gal</i>
Application event totals		0.47	1,105.82	60.52	327.60	

04/09/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	733.20 <i>Gal.</i>
Application event totals		1.92	5.76	5.76	0.00	

06/08/2023	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	0.45	1,064.13	58.24	315.25	9,349,511.78 <i>gal</i>
Application event totals		0.45	1,064.13	58.24	315.25	

08/07/2023	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
Well Water	Ground water	0.57	1,342.17	73.45	397.62	11,792,409.67 <i>gal</i>
Application event totals		0.57	1,342.17	73.45	397.62	

10/02/2023	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	
Well Water	Ground water	0.60	1,413.09	77.34	418.63	12,415,578.11 <i>gal</i>	
Application event totals		0.60	1,413.09	77.34	418.63		
11/03/2023	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	0.45	1,070.02	58.56	316.99	9,401,276.59 <i>gal</i>	
Application event totals		0.45	1,070.02	58.56	316.99		

Field name: 326

Crop: Alfalfa

Plant date: 01/02/2020

01/02/2020: 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	995.82 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

03/03/2023	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	1,268.29	69.41	375.73	10,810,517.64 <i>gal</i>
Application event totals		0.54	1,268.29	69.41	375.73	

03/26/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	711.30 <i>Gal.</i>
Application event totals		1.92	5.76	5.76	0.00	

04/26/2023	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	1,252.66	68.55	371.10	10,677,244.75 <i>gal</i>
Application event totals		0.53	1,252.66	68.55	371.10	

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
Well Water	Ground water	0.41	962.83	52.69	285.24	8,206,876.76 <i>gal</i>
Application event totals		0.41	962.83	52.69	285.24	

08/21/2023	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	0.73	1,723.09	94.30	510.46	14,687,006.49 <i>gal</i>
Application event totals		0.73	1,723.09	94.30	510.46	

09/18/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.49	1,151.82	63.04	341.23	9,817,734.85 <i>gal</i>
Application event totals		0.49	1,151.82	63.04	341.23	
10/20/2023	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	0.55	1,311.12	71.75	388.42	11,175,567.49 <i>gal</i>
Application event totals		0.55	1,311.12	71.75	388.42	

Field name: 327

Crop: Alfalfa

Plant date: 10/01/2022

10/01/2022: 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	1,039.78 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/18/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.39	918.42	50.26	272.08	8,173,882.43 <i>gal</i>
Application event totals		0.39	918.42	50.26	272.08	
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	0.53	1,244.95	68.13	368.82	11,080,017.28 <i>gal</i>
Application event totals		0.53	1,244.95	68.13	368.82	
04/07/2023	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
Well Water	Ground water	0.42	987.53	54.05	292.56	8,788,990.44 <i>gal</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	742.70 <i>Gal.</i>
Application event totals		2.34	993.29	59.81	292.56	
05/08/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.43	1,020.62	55.86	302.36	9,083,436.52 <i>gal</i>
Application event totals		0.43	1,020.62	55.86	302.36	
06/06/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.57	1,345.57	73.64	398.62	11,975,454.19 <i>gal</i>
Application event totals		0.57	1,345.57	73.64	398.62	

08/05/2023	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	0.54	1,277.59	69.92	378.48	11,370,429.20 <i>gal</i>
Application event totals		0.54	1,277.59	69.92	378.48	

Field name: 328

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	949.34 <i>Lbs</i>
Corral Solids	Corral Solids	76.51	22.42	86.78	3,086.60	339.05 <i>ton</i>
Application event totals		90.51	22.42	86.78	3,086.60	
04/30/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.55	1,290.27	70.61	382.24	10,484,544.21 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	678.10 <i>Gal.</i>
Application event totals		35.94	1,290.27	70.61	382.24	
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
Well Water	Ground water	0.37	878.31	48.07	260.20	7,137,002.85 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.63	41,712.99	22.53	124.43	574,495.61 <i>gal</i>
Application event totals		18.00	42,591.30	70.60	384.63	
06/24/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	521,096.95 <i>gal</i>
Well Water	Ground water	0.59	1,392.02	76.18	412.39	11,311,302.95 <i>gal</i>
Application event totals		16.58	39,227.84	96.61	525.26	

10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Corral Solids	Corral Solids	113.41	29.73	147.96	1,506.20	339.05 <i>ton</i>
Application event totals		113.41	29.73	147.96	1,506.20	
10/20/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.38	897.35	49.11	265.84	7,291,674.95 <i>gal</i>
Application event totals		0.38	897.35	49.11	265.84	
11/13/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.35	815.77	44.65	241.67	6,628,795.17 <i>gal</i>
Lagoon Water Effluent	Process wastewater	16.79	33,263.44	23.47	212.84	434,554.36 <i>gal</i>
Application event totals		17.14	34,079.21	68.12	454.51	
12/07/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	31.88	63,144.15	44.55	404.04	824,916.78 <i>gal</i>
Application event totals		31.88	63,144.15	44.55	404.04	
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
Lagoon Water Effluent	Process wastewater	16.01	31,713.02	22.38	202.92	414,299.70 <i>gal</i>
Well Water	Ground water	0.39	917.74	50.23	271.88	7,457,395.11 <i>gal</i>
Application event totals		16.40	32,630.76	72.61	474.80	
01/26/2023	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
Lagoon Water Effluent	Process wastewater	19.93	39,465.10	27.85	252.53	515,572.97 <i>gal</i>
Application event totals		19.93	39,465.10	27.85	252.53	
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
Lagoon Water Effluent	Process wastewater	27.90	58,266.08	49.63	246.82	716,278.16 <i>gal</i>
Well Water	Ground water	0.45	1,065.03	58.29	315.52	8,654,260.24 <i>gal</i>
Application event totals		28.35	59,331.11	107.92	562.34	
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
Lagoon Water Effluent	Process wastewater	41.53	86,725.09	73.87	367.37	1,066,131.24 <i>gal</i>

Application event totals		41.53	86,725.09	73.87	367.37	
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
Lagoon Water Effluent	Process wastewater	40.74	85,077.47	72.47	360.39	1,045,876.63 <i>gal</i>
Application event totals		40.74	85,077.47	72.47	360.39	

Field name: 331

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,017.24 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	214.22	62.76	242.98	8,642.48	1,017.24 <i>ton</i>
Application event totals		214.22	62.76	242.98	8,642.48	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	726.60 <i>Gal.</i>
Application event totals		35.39	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Well Water	Ground water	0.48	1,133.01	62.01	335.65	9,865,152.46 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	558,367.61 <i>gal</i>
Application event totals		16.47	38,968.83	82.44	448.52	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.48	1,144.34	62.63	339.01	9,963,804.36 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	558,367.61 <i>gal</i>
Application event totals		16.47	38,980.16	83.06	451.88	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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	0.51	1,200.99	65.73	355.79	10,457,061.98 <i>gal</i>

Application event totals		0.51	1,200.99	65.73	355.79	
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10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	204.13	53.51	266.33	2,711.16	653.94 <i>ton</i>
Application event totals		204.13	53.51	266.33	2,711.16	
10/20/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.39	915.47	50.10	271.21	7,971,043.11 <i>gal</i>
Application event totals		0.39	915.47	50.10	271.21	
11/13/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.31	734.19	40.18	217.50	6,392,618.81 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	726.60 <i>Gal.</i>
Application event totals		35.70	734.19	40.18	217.50	
12/07/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	7.97	15,786.04	11.14	101.01	220,979.42 <i>gal</i>
Application event totals		7.97	15,786.04	11.14	101.01	
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
Well Water	Ground water	0.37	866.75	47.44	256.78	7,546,841.72 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	1,089.90 <i>Gal.</i>
Application event totals		53.46	866.75	47.44	256.78	
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
Well Water	Ground water	0.42	989.12	54.13	293.03	8,612,277.64 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	726.60 <i>Gal.</i>
Application event totals		35.81	989.12	54.13	293.03	

03/17/2023	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
Lagoon Water Effluent	Process wastewater	15.99	33,401.89	28.45	141.49	439,985.81 <i>gal</i>
Application event totals		15.99	33,401.89	28.45	141.49	

Field name: 332

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	992.88 <i>Lbs</i>
Corral Solids	Corral Solids	168.32	49.31	190.91	6,790.52	780.12 <i>ton</i>
Application event totals		182.32	49.31	190.91	6,790.52	

05/08/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	709.20 <i>Gal.</i>
Well Water	Ground water	0.53	1,253.57	68.60	371.37	10,653,425.51 <i>gal</i>
Application event totals		35.92	1,253.57	68.60	371.37	

05/23/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	544,996.26 <i>gal</i>
Application event totals		15.99	37,835.82	20.43	112.87	

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	0.48	1,123.04	61.46	332.70	9,544,174.74 <i>gal</i>
Application event totals		0.48	1,123.04	61.46	332.70	

07/02/2023	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
Lagoon Water Effluent	Process wastewater	19.32	45,723.86	24.69	136.40	658,617.42 <i>gal</i>
Application event totals		19.32	45,723.86	24.69	136.40	

07/22/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.58	1,370.95	75.03	406.14	11,650,980.77 <i>gal</i>

Application event totals		0.58	1,370.95	75.03	406.14	
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10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	204.13	53.51	266.33	2,711.16	638.28 <i>ton</i>
Application event totals		204.13	53.51	266.33	2,711.16	

10/19/2022	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	0.43	1,006.34	55.07	298.13	8,552,397.32 <i>gal</i>
Application event totals		0.43	1,006.34	55.07	298.13	

11/12/2022	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	0.39	912.08	49.92	270.20	7,751,272.27 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	709.20 <i>Gal.</i>
Application event totals		35.78	912.08	49.92	270.20	

12/06/2022	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	7.97	15,786.04	11.14	101.01	215,687.58 <i>gal</i>
Application event totals		7.97	15,786.04	11.14	101.01	

12/31/2022	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	688.65	37.69	204.01	5,852,451.21 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	1,063.80 <i>Gal.</i>
Application event totals		53.38	688.65	37.69	204.01	

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
Well Water	Ground water	0.30	711.31	38.93	210.72	6,045,029.22 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	709.20 <i>Gal.</i>
Application event totals		35.69	711.31	38.93	210.72	

03/16/2023	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
Lagoon Water Effluent	Process wastewater	15.99	33,401.89	28.45	141.49	429,449.37 <i>gal</i>
Application event totals		15.99	33,401.89	28.45	141.49	

Field name: 333

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/26/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	982.38 <i>Lbs</i>
Corral Solids	Corral Solids	137.71	40.35	156.20	5,555.88	631.53 <i>ton</i>
Application event totals		151.71	40.35	156.20	5,555.88	

04/09/2023	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
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	70.17 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,052.55 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	70.17 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	

04/24/2023	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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	701.70 <i>Gal.</i>
Application event totals		32.58	0.00	0.00	0.00	

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
Lagoon Water Effluent	Process wastewater	20.51	42,838.30	36.49	181.46	544,949.05 <i>gal</i>
Application event totals		20.51	42,838.30	36.49	181.46	

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
Well Water	Ground water	0.59	1,386.81	75.90	410.84	11,661,146.75 <i>gal</i>
Application event totals		0.59	1,386.81	75.90	410.84	

06/07/2023	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
Well Water	Ground water	0.59	1,386.81	75.90	410.84	11,661,146.75 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,192.89 <i>Gal.</i>
Application event totals		55.97	1,386.81	75.90	410.84	

07/06/2023	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	0.47	1,121.68	61.39	332.30	9,431,809.68 <i>gal</i>
Application event totals		0.47	1,121.68	61.39	332.30	

08/01/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	982.38 <i>Lbs</i>
Corral Solids	Corral Solids	138.88	30.49	77.84	2,106.72	210.51 <i>ton</i>
Application event totals		152.88	30.49	77.84	2,106.72	

08/07/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	701.70 <i>Gal.</i>
Well Water	Ground water	0.61	1,436.66	78.62	425.61	12,080,338.81 <i>gal</i>
Application event totals		36.00	1,436.66	78.62	425.61	

08/22/2023	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	0.59	1,386.35	75.87	410.71	11,657,336.19 <i>gal</i>

Lagoon Water Effluent	Process wastewater	15.99	18,581.41	12.47	129.62	381,083.24 <i>gal</i>
Application event totals		16.58	19,967.76	88.34	540.33	
10/01/2023	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
Lagoon Water Effluent	Process wastewater	15.99	18,581.41	12.47	129.62	381,083.24 <i>gal</i>
Application event totals		15.99	18,581.41	12.47	129.62	
10/21/2023	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	0.41	974.16	53.31	288.60	8,191,383.71 <i>gal</i>
Application event totals		0.41	974.16	53.31	288.60	

Field name: 334

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/01/2023	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	791.28 <i>Lbs</i>
Corral Solids	Corral Solids	153.01	44.83	173.56	6,173.20	565.20 <i>ton</i>
Application event totals		167.01	44.83	173.56	6,173.20	

04/12/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	847.80 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	56.52 <i>Gal.</i>
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	56.52 <i>Qt.</i>
Application event totals		6.14	8.64	8.64	0.00	

04/27/2023	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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	565.20 <i>Gal.</i>
Application event totals		32.58	0.00	0.00	0.00	

05/13/2023	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
Lagoon Water Effluent	Process wastewater	15.99	33,401.89	28.45	141.49	342,251.54 <i>gal</i>
Well Water	Ground water	0.38	903.69	49.46	267.72	6,120,623.69 <i>gal</i>
Application event totals		16.37	34,305.58	77.91	409.21	

06/10/2023	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
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Well Water	Ground water	0.67	1,575.11	86.20	466.63	10,668,118.72 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	960.84 <i>Gal.</i>
Application event totals		56.05	1,575.11	86.20	466.63	

06/24/2023	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
Well Water	Ground water	0.62	1,453.20	79.53	430.51	9,842,417.55 <i>gal</i>
Application event totals		0.62	1,453.20	79.53	430.51	

Field name: 335

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/22/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	966.28 <i>Lbs</i>
Corral Solids	Corral Solids	153.01	44.83	173.56	6,173.20	690.20 <i>ton</i>
Application event totals		167.01	44.83	173.56	6,173.20	
05/08/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	690.20 <i>Gal.</i>
Well Water	Ground water	0.58	1,380.46	75.55	408.96	11,417,557.58 <i>gal</i>
Application event totals		35.97	1,380.46	75.55	408.96	
05/23/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	530,395.39 <i>gal</i>
Application event totals		15.99	37,835.82	20.43	112.87	
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	0.56	1,331.97	72.90	394.60	11,016,480.78 <i>gal</i>
Application event totals		0.56	1,331.97	72.90	394.60	
07/02/2023	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
Lagoon Water Effluent	Process wastewater	17.97	42,515.16	22.96	126.82	595,991.99 <i>gal</i>
Application event totals		17.97	42,515.16	22.96	126.82	
07/22/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.42	1,002.49	54.86	296.99	8,291,410.41 <i>gal</i>

Application event totals		0.42	1,002.49	54.86	296.99	
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10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	113.41	29.73	147.96	1,506.20	345.10 <i>ton</i>
Application event totals		113.41	29.73	147.96	1,506.20	
11/04/2022	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	0.47	1,107.18	60.59	328.00	9,157,286.29 <i>gal</i>
Application event totals		0.47	1,107.18	60.59	328.00	
11/28/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.27	645.36	35.32	191.19	5,337,689.51 <i>gal</i>
Lagoon Water Effluent	Process wastewater	16.79	33,263.44	23.47	212.84	442,308.54 <i>gal</i>
Application event totals		17.06	33,908.80	58.79	404.03	
12/22/2022	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
Lagoon Water Effluent	Process wastewater	31.88	63,144.15	44.55	404.04	839,636.56 <i>gal</i>
Application event totals		31.88	63,144.15	44.55	404.04	
01/16/2023	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	0.35	817.81	44.76	242.28	6,763,946.96 <i>gal</i>
Lagoon Water Effluent	Process wastewater	16.01	31,713.02	22.38	202.92	421,692.45 <i>gal</i>
Application event totals		16.36	32,530.83	67.14	445.20	
02/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	19.93	39,465.10	27.85	252.53	524,772.84 <i>gal</i>
Application event totals		19.93	39,465.10	27.85	252.53	
03/07/2023	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
Well Water	Ground water	0.43	1,018.58	55.74	301.75	8,424,478.00 <i>gal</i>
Lagoon Water Effluent	Process wastewater	27.90	58,266.08	49.63	246.82	729,059.40 <i>gal</i>
Application event totals		28.33	59,284.66	105.37	548.57	

04/01/2023	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
Lagoon Water Effluent	Process wastewater	41.53	86,725.09	73.87	367.37	1,085,155.25 <i>gal</i>
Application event totals		41.53	86,725.09	73.87	367.37	

04/24/2023	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	40.74	85,077.47	72.47	360.39	1,064,539.22 <i>gal</i>
Application event totals		40.74	85,077.47	72.47	360.39	

Field name: 336

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/01/2023	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	1,108.38 <i>Lbs</i>
Corral Solids	Corral Solids	153.01	44.83	173.56	6,173.20	791.70 <i>ton</i>
Application event totals		167.01	44.83	173.56	6,173.20	
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
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	79.17 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,187.55 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	79.17 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	
04/27/2023	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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	791.70 <i>Gal.</i>
Application event totals		32.58	0.00	0.00	0.00	
05/13/2023	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
Lagoon Water Effluent	Process wastewater	26.90	56,169.10	47.85	237.93	806,176.78 <i>gal</i>
Application event totals		26.90	56,169.10	47.85	237.93	
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
Well Water	Ground water	0.59	1,386.81	75.90	410.84	13,156,804.77 <i>gal</i>
Application event totals		0.59	1,386.81	75.90	410.84	

06/10/2023	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	0.58	1,373.21	75.15	406.81	13,027,816.61 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	1,345.89 <i>Gal.</i>
Application event totals		55.96	1,373.21	75.15	406.81	

07/09/2023	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	1,144.34	62.63	339.01	10,856,514.35 <i>gal</i>
Application event totals		0.48	1,144.34	62.63	339.01	

07/30/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,108.38 <i>Lbs</i>
Corral Solids	Corral Solids	76.51	22.42	86.78	3,086.60	395.85 <i>ton</i>
Application event totals		90.51	22.42	86.78	3,086.60	

08/05/2023	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	0.38	889.19	48.66	263.42	8,435,833.86 <i>gal</i>
Application event totals		0.38	889.19	48.66	263.42	

08/20/2023	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	0.63	1,491.27	81.61	441.79	14,147,864.68 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.99	18,581.41	12.47	129.62	429,960.95 <i>gal</i>
Application event totals		16.62	20,072.68	94.08	571.41	

09/29/2023	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
Lagoon Water Effluent	Process wastewater	15.99	18,581.41	12.47	129.62	429,960.95 <i>gal</i>
Application event totals		15.99	18,581.41	12.47	129.62	

10/19/2023	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	0.38	890.77	48.75	263.89	8,450,882.43 <i>gal</i>
Application event totals		0.38	890.77	48.75	263.89	

Field name: 337

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/28/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,056.30 <i>Lbs</i>
Corral Solids	Corral Solids	122.41	35.87	138.85	4,938.56	603.60 <i>ton</i>
Application event totals		136.41	35.87	138.85	4,938.56	

05/06/2023	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	35.39	0.00	0.00	0.00	754.50 <i>Gal.</i>
Well Water	Ground water	0.46	1,087.69	59.53	322.23	9,834,196.07 <i>gal</i>
Application event totals		35.85	1,087.69	59.53	322.23	

05/21/2023	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	17.23	40,777.12	22.02	121.64	624,881.20 <i>gal</i>
Well Water	Ground water	0.48	1,144.34	62.63	339.01	10,346,393.76 <i>gal</i>
Application event totals		17.71	41,921.46	84.65	460.65	

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
Lagoon Water Effluent	Process wastewater	15.99	37,835.82	20.43	112.87	579,807.77 <i>gal</i>
Application event totals		15.99	37,835.82	20.43	112.87	

07/20/2023	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	0.49	1,167.00	63.87	345.72	10,551,272.64 <i>gal</i>
Application event totals		0.49	1,167.00	63.87	345.72	

10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	113.41	29.73	147.96	1,506.20	377.25 <i>ton</i>
Application event totals		113.41	29.73	147.96	1,506.20	
11/17/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	16.79	33,263.44	23.47	212.84	483,514.62 <i>gal</i>
Application event totals		16.79	33,263.44	23.47	212.84	
12/11/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.45	1,065.03	58.29	315.52	9,629,316.21 <i>gal</i>
Lagoon Water Effluent	Process wastewater	31.88	63,144.15	44.55	404.04	917,858.29 <i>gal</i>
Application event totals		32.33	64,209.18	102.84	719.56	
01/05/2023	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	16.01	31,713.02	22.38	202.92	460,977.91 <i>gal</i>
Application event totals		16.01	31,713.02	22.38	202.92	
01/30/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.37	863.81	47.27	255.90	7,809,990.47 <i>gal</i>
Lagoon Water Effluent	Process wastewater	19.93	39,465.10	27.85	252.53	573,661.42 <i>gal</i>
Application event totals		20.30	40,328.91	75.12	508.43	
02/24/2023	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
Lagoon Water Effluent	Process wastewater	27.90	58,266.08	49.63	246.82	796,979.60 <i>gal</i>
Application event totals		27.90	58,266.08	49.63	246.82	
03/21/2023	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	0.33	778.15	42.59	230.53	7,035,547.52 <i>gal</i>
Lagoon Water Effluent	Process wastewater	41.53	86,725.09	73.87	367.37	1,186,249.85 <i>gal</i>
Application event totals		41.86	87,503.24	116.46	597.90	

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
Well Water	Ground water	0.43	1,007.02	55.11	298.33	9,104,825.69 <i>gal</i>
Lagoon Water Effluent	Process wastewater	40.74	85,077.47	72.47	360.39	1,163,713.19 <i>gal</i>
Application event totals		41.17	86,084.49	127.58	658.72	

Field name: 338

Crop: Milo

Plant date: 04/15/2023

04/15/2023: Milo

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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,024.24 <i>Lbs</i>
Corral Solids	Corral Solids	107.11	31.38	121.49	4,321.24	512.12 <i>ton</i>
Application event totals		121.11	31.38	121.49	4,321.24	

05/14/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	731.60 <i>Gal.</i>
Application event totals		35.39	0.00	0.00	0.00	

05/29/2023	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	0.47	1,121.68	61.39	332.30	9,833,707.41 <i>gal</i>
Lagoon Water Effluent	Process wastewater	22.32	52,809.72	28.52	157.53	784,710.04 <i>gal</i>
Application event totals		22.79	53,931.40	89.91	489.83	

07/08/2023	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	1,144.34	62.63	339.01	10,032,368.93 <i>gal</i>
Lagoon Water Effluent	Process wastewater	19.66	46,526.03	25.13	138.79	691,339.44 <i>gal</i>
Application event totals		20.14	47,670.37	87.76	477.80	

07/28/2023	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	0.51	1,200.99	65.73	355.79	10,529,020.84 <i>gal</i>
Application event totals		0.51	1,200.99	65.73	355.79	

10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/05/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	226.82	59.45	295.92	3,012.40	731.60 <i>ton</i>
Application event totals		226.82	59.45	295.92	3,012.40	
11/17/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	731.60 <i>Gal.</i>
Application event totals		35.39	0.00	0.00	0.00	
12/11/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.43	1,012.23	55.40	299.87	8,874,176.32 <i>gal</i>
Lagoon Water Effluent	Process wastewater	7.97	15,786.04	11.14	101.01	222,500.06 <i>gal</i>
Application event totals		8.40	16,798.27	66.54	400.88	
01/05/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	1,097.40 <i>Gal.</i>
Application event totals		53.09	0.00	0.00	0.00	
01/30/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.31	731.25	40.02	216.63	6,410,782.83 <i>gal</i>
Application event totals		0.31	731.25	40.02	216.63	
02/24/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	731.60 <i>Gal.</i>
Application event totals		35.39	0.00	0.00	0.00	

03/21/2023	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	1,039.65	56.90	308.00	9,114,555.47 <i>gal</i>		
Application event totals		0.44	1,039.65	56.90	308.00			
04/13/2023	Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Well Water	Ground water	0.34	796.73	43.60	236.03	6,984,912.51 <i>gal</i>		
Application event totals		0.34	796.73	43.60	236.03			

Field name: 341(342)

Crop: Corn, Early Silage

Plant date: 03/25/2023

03/25/2023: Corn, Early Silage

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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,700.58 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	76.51	22.42	86.78	3,086.60	607.35 <i>ton</i>
Application event totals		76.51	22.42	86.78	3,086.60	
03/08/2023	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
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	121.47 <i>Gal.</i>
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	121.47 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	1,822.05 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	
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	0.58	1,363.47	74.62	403.93	19,846,660.61 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	1,214.70 <i>Gal.</i>
Application event totals		33.16	1,363.47	74.62	403.93	
05/19/2023	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
Lagoon Water Effluent	Process wastewater	30.48	63,658.31	54.23	269.66	1,401,833.26 <i>gal</i>
Application event totals		30.48	63,658.31	54.23	269.66	

06/02/2023	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	0.47	1,117.15	61.14	330.96	16,261,264.78 <i>gal</i>
Application event totals		0.47	1,117.15	61.14	330.96	

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
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	2,064.99 <i>Gal.</i>
Application event totals		55.38	0.00	0.00	0.00	

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	0.58	1,374.57	75.23	407.22	20,008,283.03 <i>gal</i>
Application event totals		0.58	1,374.57	75.23	407.22	

Field name: 3AL

Crop: Almond

Plant date: 01/02/2021

01/02/2021: Almond

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	1,449.98 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

02/12/2023	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	0.06	149.33	8.17	44.24	1,853,351.34 <i>gal</i>
CAN 17	Commercial fertilizer / Other: Liquid commercial fertilizer	42.98	0.00	0.00	0.00	2,071.40 <i>Gal.</i>
Application event totals		43.04	149.33	8.17	44.24	

03/02/2023	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	0.12	272.60	14.92	80.76	3,383,280.19 <i>gal</i>
Application event totals		0.12	272.60	14.92	80.76	

03/20/2023	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
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,035.70 <i>Gal.</i>
Well Water	Ground water	0.24	560.39	30.67	166.01	6,954,989.55 <i>gal</i>
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	103.57 <i>Gal.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	103.57 <i>Gal.</i>
Application event totals		9.48	566.15	36.43	166.01	

04/07/2023	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
Well Water	Ground water	0.17	395.87	21.67	117.28	4,913,209.20 <i>gal</i>

Application event totals		0.17	395.87	21.67	117.28	
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04/22/2023	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	3.54	0.00	0.00	0.00	103.57 <i>Gal.</i>
Well Water	Ground water	0.30	706.77	38.68	209.38	8,771,779.89 <i>gal</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,035.70 <i>Gal.</i>
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	103.57 <i>Gal.</i>
Application event totals		9.54	712.53	44.44	209.38	

05/07/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	103.57 <i>Gal.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,035.70 <i>Gal.</i>
Well Water	Ground water	0.30	708.36	38.77	209.85	8,791,466.39 <i>gal</i>
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	103.57 <i>Gal.</i>
Application event totals		9.54	714.12	44.53	209.85	

05/22/2023	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
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	103.57 <i>Gal.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	103.57 <i>Gal.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,035.70 <i>Gal.</i>
Well Water	Ground water	0.40	955.36	52.28	283.02	11,856,949.41 <i>gal</i>
Application event totals		9.64	961.12	58.04	283.02	

06/07/2023	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
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Well Water	Ground water	0.38	909.13	49.75	269.33	11,283,226.07 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	1,035.70 <i>Gal.</i>
Application event totals		35.77	909.13	49.75	269.33	

06/22/2023	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	1,094.72	59.91	324.31	13,586,555.92 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	517.85 <i>Gal.</i>
Application event totals		18.16	1,094.72	59.91	324.31	

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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	828.56 <i>Gal.</i>
Well Water	Ground water	0.35	836.62	45.79	247.85	10,383,267.40 <i>gal</i>
Application event totals		28.66	836.62	45.79	247.85	

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
Well Water	Ground water	0.20	462.72	25.32	137.08	5,742,858.37 <i>gal</i>
Application event totals		0.20	462.72	25.32	137.08	

08/10/2023	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
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	103.57 <i>Gal.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	103.57 <i>Gal.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,035.70 <i>Gal.</i>
Well Water	Ground water	0.22	523.91	28.67	155.21	6,502,198.04 <i>gal</i>
Application event totals		9.46	529.67	34.43	155.21	

Field name: 4AL

Crop: Almond

Plant date: 01/02/2021

01/02/2021: Almond

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	1,437.38 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

02/06/2023	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
CAN 17	Commercial fertilizer / Other: Liquid commercial fertilizer	42.98	0.00	0.00	0.00	2,053.40 <i>Gal.</i>
Well Water	Ground water	0.10	225.24	12.33	66.73	2,771,202.92 <i>gal</i>
Application event totals		43.08	225.24	12.33	66.73	

02/24/2023	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
Well Water	Ground water	0.12	287.33	15.72	85.12	3,535,095.83 <i>gal</i>
Application event totals		0.12	287.33	15.72	85.12	

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
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	102.67 <i>Gal.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	102.67 <i>Gal.</i>
Well Water	Ground water	0.17	399.50	21.86	118.35	4,915,121.42 <i>gal</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,026.70 <i>Gal.</i>
Application event totals		9.41	405.26	27.62	118.35	

04/01/2023	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
Well Water	Ground water	0.14	330.39	18.08	97.88	4,064,802.45 <i>gal</i>

Application event totals		0.14	330.39	18.08	97.88	
04/16/2023		Surface (Irrigation)	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,026.70 <i>Gal.</i>
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	102.67 <i>Gal.</i>
Well Water	Ground water	0.36	842.96	46.13	249.73	10,371,101.36 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	102.67 <i>Gal.</i>
Application event totals		9.60	848.72	51.89	249.73	
05/01/2023		Surface (Irrigation)	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,026.70 <i>Gal.</i>
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	102.67 <i>Gal.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	102.67 <i>Gal.</i>
Well Water	Ground water	0.43	1,004.53	54.98	297.59	12,358,895.94 <i>gal</i>
Application event totals		9.67	1,010.29	60.74	297.59	
05/16/2023		Surface (Irrigation)	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,026.70 <i>Gal.</i>
Well Water	Ground water	0.44	1,032.85	56.53	305.98	12,707,387.25 <i>gal</i>
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	102.67 <i>Gal.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	102.67 <i>Gal.</i>
Application event totals		9.68	1,038.61	62.29	305.98	
06/01/2023		Surface (Irrigation)	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	17.70	0.00	0.00	0.00	513.35 <i>Gal.</i>
Well Water	Ground water	0.36	852.93	46.68	252.68	10,493,770.05 <i>gal</i>
Application event totals		18.06	852.93	46.68	252.68	

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	0.39	920.23	50.36	272.62	11,321,785.21 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	42.47	0.00	0.00	0.00	1,232.04 <i>Gal.</i>
Application event totals		42.86	920.23	50.36	272.62	

07/01/2023	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
Well Water	Ground water	0.35	821.66	44.97	243.42	10,109,035.62 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	821.36 <i>Gal.</i>
Application event totals		28.66	821.66	44.97	243.42	

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
Well Water	Ground water	0.19	455.92	24.95	135.07	5,609,316.31 <i>gal</i>
Application event totals		0.19	455.92	24.95	135.07	

08/04/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	3.54	0.00	0.00	0.00	102.67 <i>Gal.</i>
Well Water	Ground water	0.28	653.97	35.79	193.74	8,045,967.06 <i>gal</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	1,026.70 <i>Gal.</i>
NDemand 30L	Commercial fertilizer / Other: Liquid commercial fertilizer	3.78	0.00	0.00	0.00	102.67 <i>Gal.</i>
Application event totals		9.52	659.73	41.55	193.74	

B. NUTRIENT BUDGET

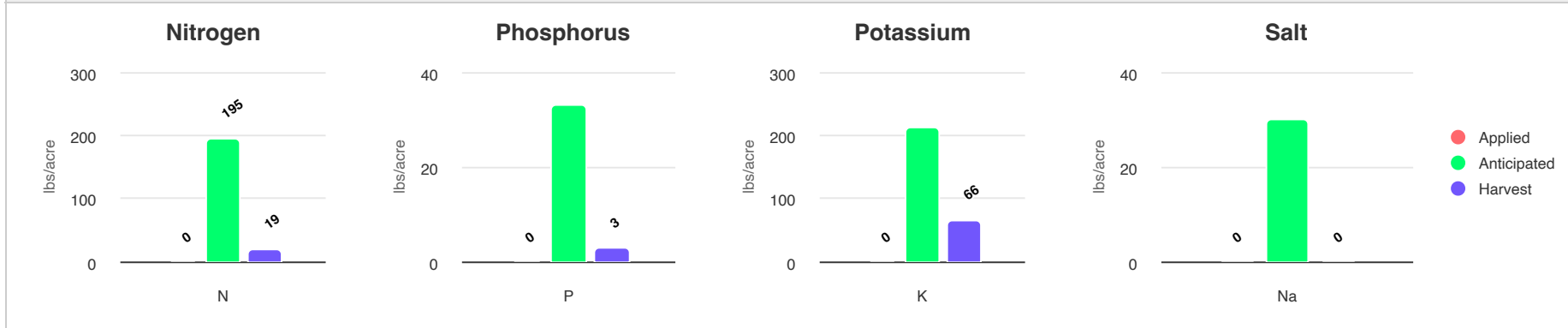
1AL - 01/02/2021: Almond

Field name: 1AL

Crop: Almond

Plant date: 01/02/2021

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	188.28	28.80	28.80	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	7,750.94	424.18	2,296.21
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	0.00	0.00	0.00	0.00
Anticipated crop nutrient removal	195.00	33.00	211.50	30.00
Actual crop nutrient removal	19.07	2.51	66.24	0.00
Nutrient balance	-19.07	-2.51	-66.24	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
67,998,351.04	gallons
2,504.15	acre-inches
34.21	inches/acre

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

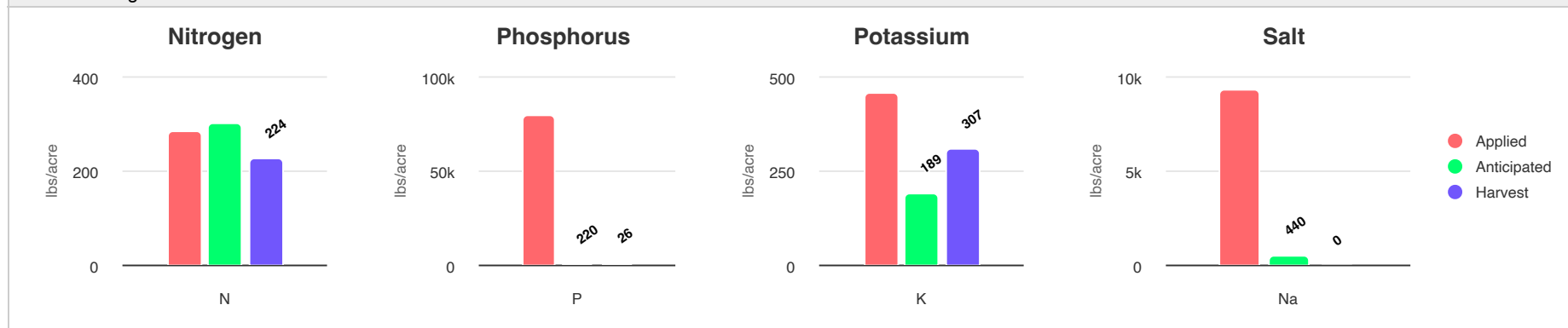
Total Harvests for the crop	
2	harvests

Field name: 281

Crop: Milo

Plant date: 04/15/2023

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	35.39	0.00	0.00	0.00
Dry manure	198.92	58.28	225.63	8,025.16
Process wastewater	31.98	75,671.64	40.86	225.74
Fresh water	1.44	3,421.69	187.27	1,013.67
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	281.73	79,151.61	453.76	9,264.57
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	223.91	25.83	307.01	0.00
Nutrient balance	57.82	79,125.78	146.74	9,264.57
Applied to removed ratio	1.26	3,064.29	1.48	0.00

Fresh water applied

26,680,633.95 gallons
 982.56 acre-inches
 15.10 inches/acre

Process wastewater applied

1,000,081.99 gallons
 36.83 acre-inches
 0.57 inches/acre

Total Harvests for the crop

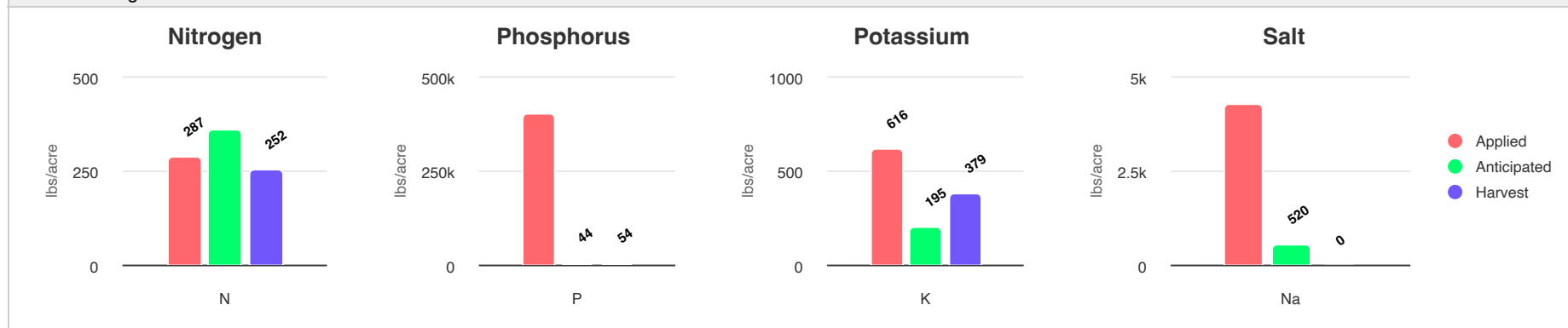
1 harvests

Field name: 281

Crop: Triticale

Plant date: 10/15/2022

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	90.73	23.78	118.37	1,204.96
Process wastewater	194.78	397,654.35	314.22	2,046.91
Fresh water	1.41	3,348.73	183.26	992.07
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	286.92	401,026.86	615.85	4,243.94
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	251.69	54.06	378.68	0.00
Nutrient balance	35.23	400,972.80	237.17	4,243.94
Applied to removed ratio	1.14	7,418.67	1.63	0.00

Fresh water applied

26,111,681.38 gallons
 961.60 acre-inches
 14.78 inches/acre

Process wastewater applied

4,814,882.54 gallons
 177.32 acre-inches
 2.73 inches/acre

Total Harvests for the crop

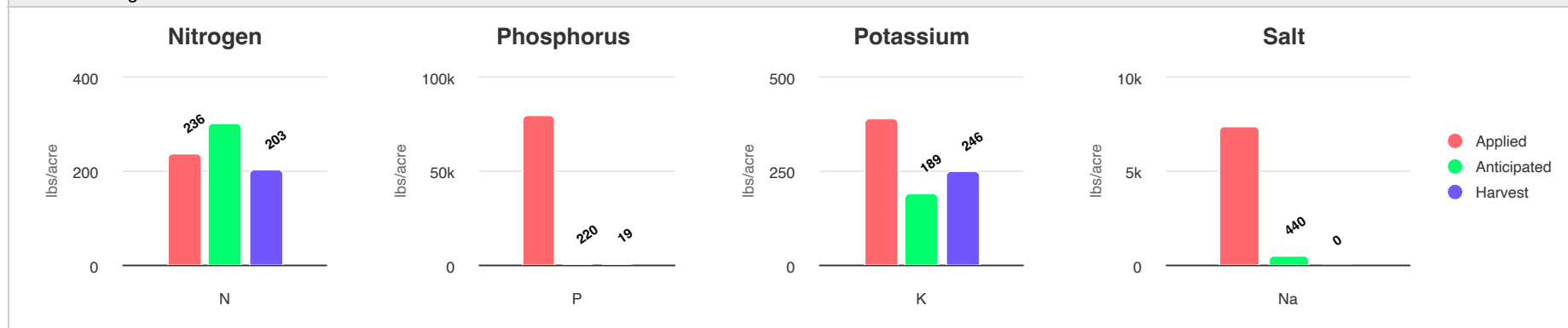
1 harvests

Field name: 282

Crop: Milo

Plant date: 04/15/2023

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	35.39	0.00	0.00	0.00
Dry manure	153.01	44.83	173.56	6,173.20
Process wastewater	31.98	75,671.64	40.86	225.74
Fresh water	1.35	3,193.28	174.75	946.01
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	235.73	78,909.75	389.17	7,344.95
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	202.96	19.37	246.43	0.00
Nutrient balance	32.78	78,890.38	142.73	7,344.95
Applied to removed ratio	1.16	4,073.32	1.58	0.00

Fresh water applied

40,152,324.30 gallons
 1,478.67 acre-inches
 14.09 inches/acre

Process wastewater applied

1,612,703.30 gallons
 59.39 acre-inches
 0.57 inches/acre

Total Harvests for the crop

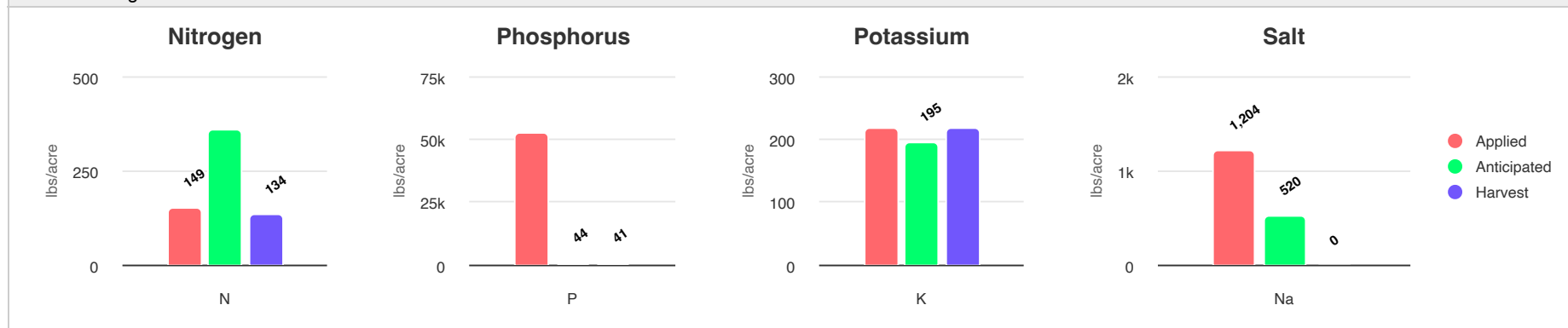
1 harvests

Field name: 282

Crop: Triticale

Plant date: 10/15/2022

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	123.87	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	23.96	49,187.93	39.59	242.50
Fresh water	1.38	3,246.99	177.69	961.91
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	149.21	52,434.92	217.28	1,204.41
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	133.87	41.01	216.99	0.00
Nutrient balance	15.34	52,393.91	0.29	1,204.41
Applied to removed ratio	1.11	1,278.56	1.00	0.00

Fresh water applied

40,827,608.17 gallons
 1,503.54 acre-inches
 14.33 inches/acre

Process wastewater applied

954,515.25 gallons
 35.15 acre-inches
 0.34 inches/acre

Total Harvests for the crop

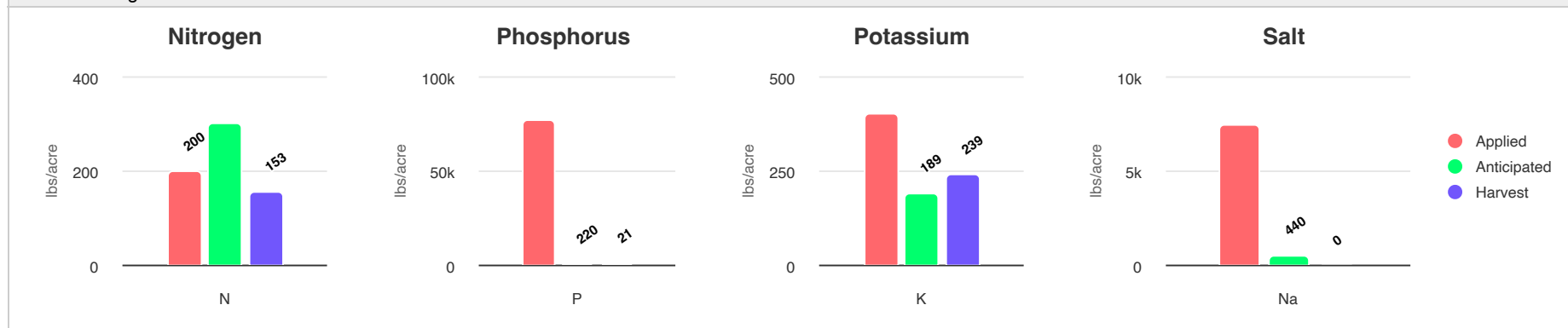
1 harvests

Field name: 283

Crop: Milo

Plant date: 04/15/2023

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	153.01	44.83	173.56	6,173.20
Process wastewater	31.07	73,532.51	39.71	219.36
Fresh water	1.45	3,421.69	187.27	1,013.67
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	199.53	76,999.03	400.54	7,406.23
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	152.80	21.06	238.53	0.00
Nutrient balance	46.73	76,977.97	162.01	7,406.23
Applied to removed ratio	1.31	3,656.16	1.68	0.00

Fresh water applied

51,983,566.13 gallons
 1,914.38 acre-inches
 15.10 inches/acre

Process wastewater applied

1,893,441.10 gallons
 69.73 acre-inches
 0.55 inches/acre

Total Harvests for the crop

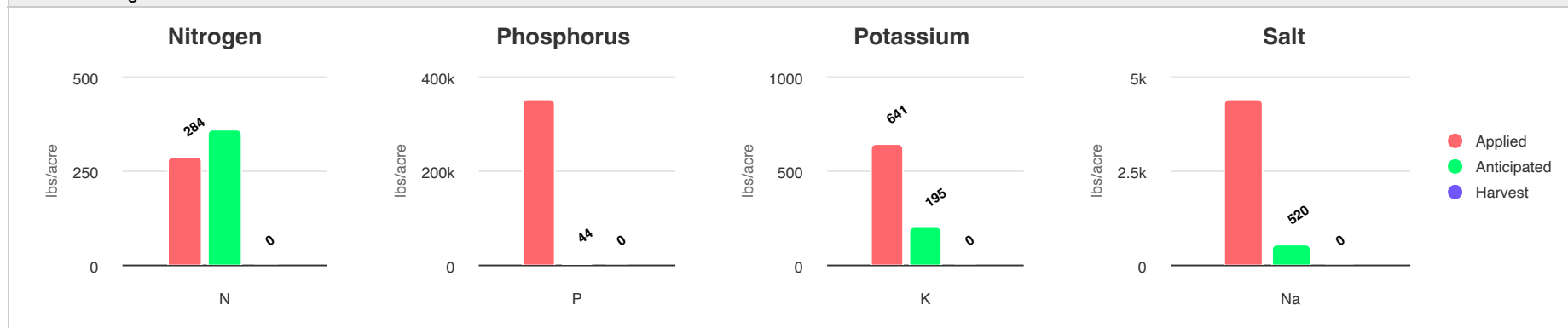
1 harvests

Field name: 283

Crop: Triticale

Plant date: 10/15/2022

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	113.41	29.73	147.96	1,506.20
Process wastewater	169.17	346,913.51	278.42	1,722.24
Fresh water	1.65	3,912.52	214.13	1,159.08
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	284.23	350,855.76	640.51	4,387.52
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	284.23	350,855.76	640.51	4,387.52
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

59,440,281.31 gallons
 2,188.98 acre-inches
 17.27 inches/acre

Process wastewater applied

8,141,797.03 gallons
 299.83 acre-inches
 2.37 inches/acre

Total Harvests for the crop

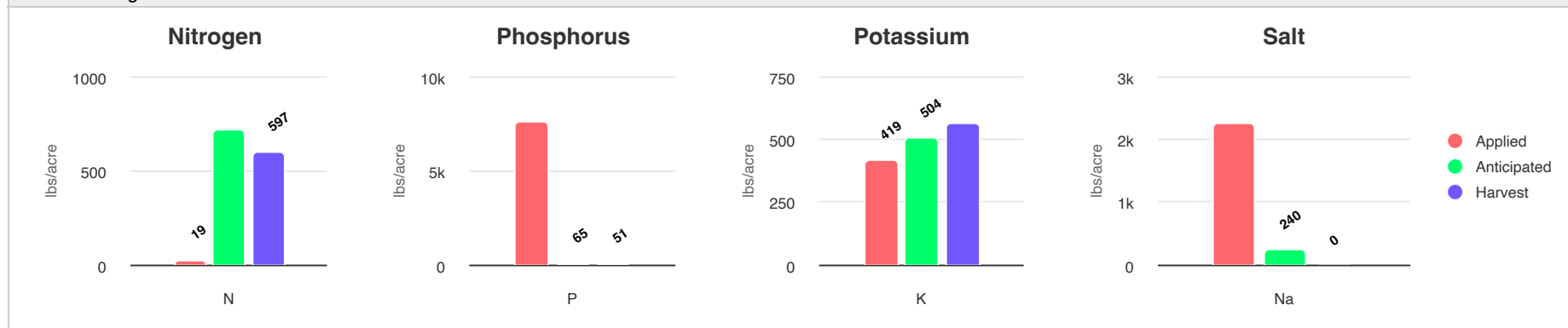
1 harvests

Field name: 291

Crop: Alfalfa

Plant date: 01/02/2020

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	1.92	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.21	7,553.80	413.40	2,237.82
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	19.13	7,559.56	419.16	2,237.82
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	597.46	50.80	560.45	0.00
Nutrient balance	-578.33	7,508.76	-141.29	2,237.82
Applied to removed ratio	0.03	148.80	0.75	0.00

Fresh water applied

77,846,177.59 gallons
 2,866.81 acre-inches
 33.34 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

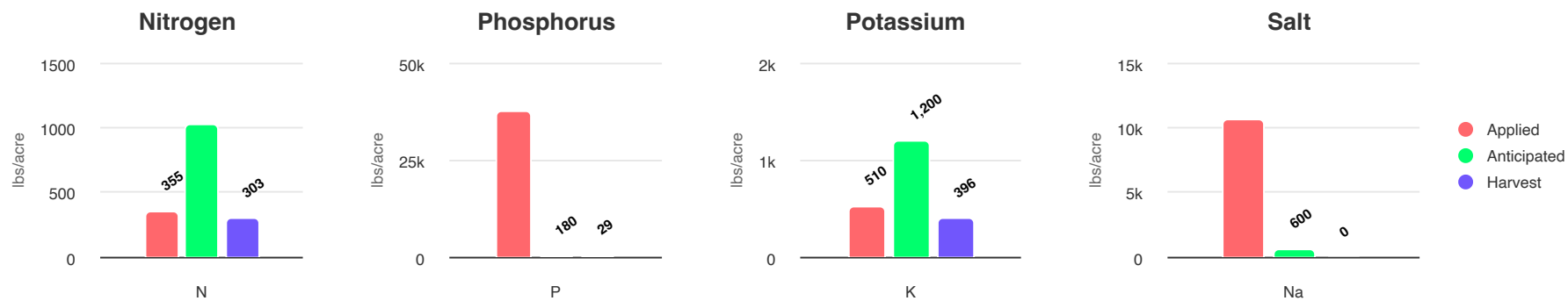
7 harvests

Field name: 292

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	229.52	67.25	260.34	9,259.80
Process wastewater	15.99	33,401.89	28.45	141.49
Fresh water	1.65	3,879.44	212.32	1,149.28
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	355.26	37,357.22	509.75	10,550.57
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	302.92	28.85	396.49	0.00
Nutrient balance	52.34	37,328.37	113.26	10,550.57
Applied to removed ratio	1.17	1,294.90	1.29	0.00

Fresh water applied

39,979,797.51 gallons
 1,472.32 acre-inches
 17.12 inches/acre

Process wastewater applied

520,764.90 gallons
 19.18 acre-inches
 0.22 inches/acre

Total Harvests for the crop

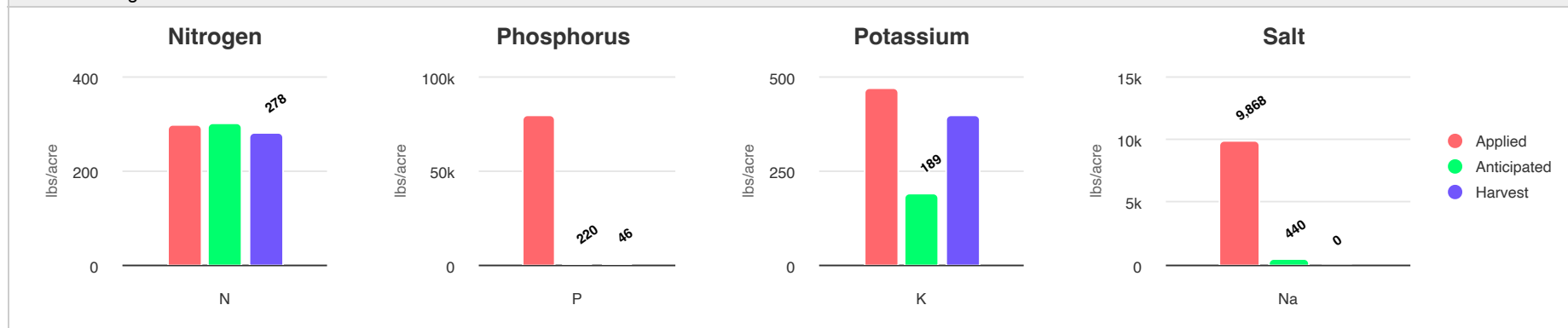
1 harvests

Field name: 292

Crop: Milo

Plant date: 04/15/2023

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	35.39	0.00	0.00	0.00
Dry manure	214.22	62.76	242.98	8,642.48
Process wastewater	31.98	75,671.64	40.86	225.74
Fresh water	1.42	3,376.37	184.79	1,000.25
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	297.01	79,110.77	468.63	9,868.47
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	278.31	46.20	397.39	0.00
Nutrient balance	18.70	79,064.57	71.24	9,868.47
Applied to removed ratio	1.07	1,712.17	1.18	0.00

Fresh water applied

34,795,501.79 gallons
 1,281.40 acre-inches
 14.90 inches/acre

Process wastewater applied

1,321,761.97 gallons
 48.68 acre-inches
 0.57 inches/acre

Total Harvests for the crop

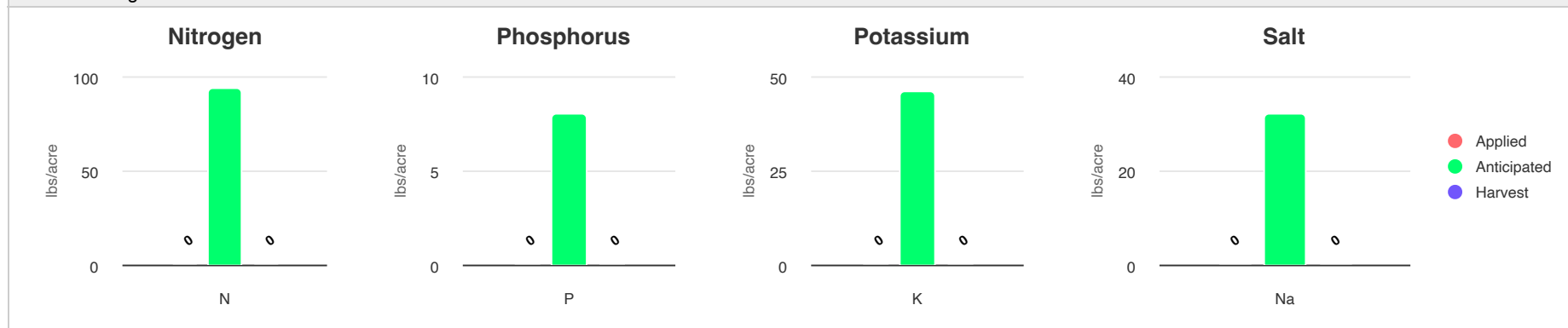
1 harvests

Field name: 294P

Crop: Pistachio

Plant date: 01/02/2022

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	81.41	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	1.88	4,473.13	244.82	1,325.17
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	0.00	0.00	0.00	0.00
Anticipated crop nutrient removal	94.08	7.68	45.76	32.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	0.00	0.00	0.00	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

16,766,880.77 gallons
 617.47 acre-inches
 19.74 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

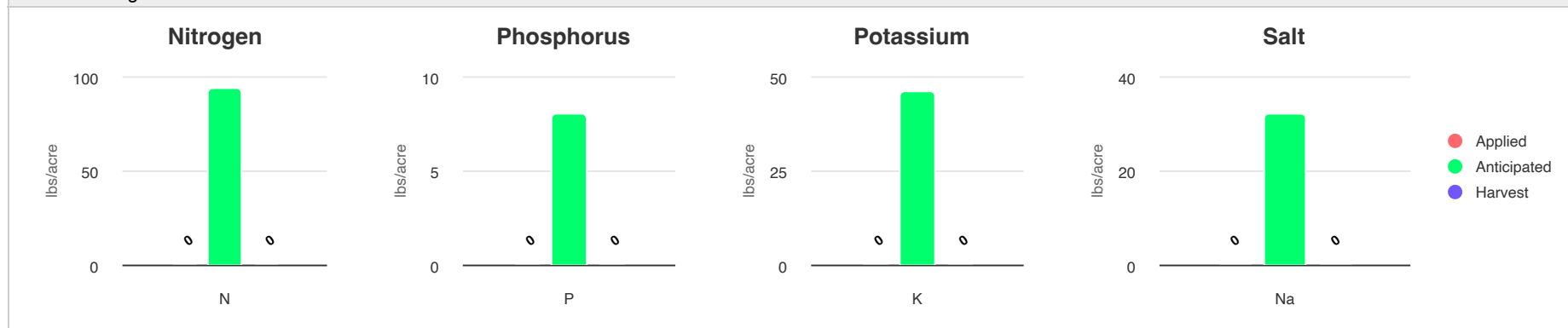
1 harvests

Field name: 2962P

Crop: Pistachio

Plant date: 01/02/2022

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	99.11	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	2.25	5,277.56	288.84	1,563.48
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	0.00	0.00	0.00	0.00
Anticipated crop nutrient removal	94.08	7.68	45.76	32.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	0.00	0.00	0.00	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

31,463,059.54 gallons
 1,158.68 acre-inches
 23.29 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

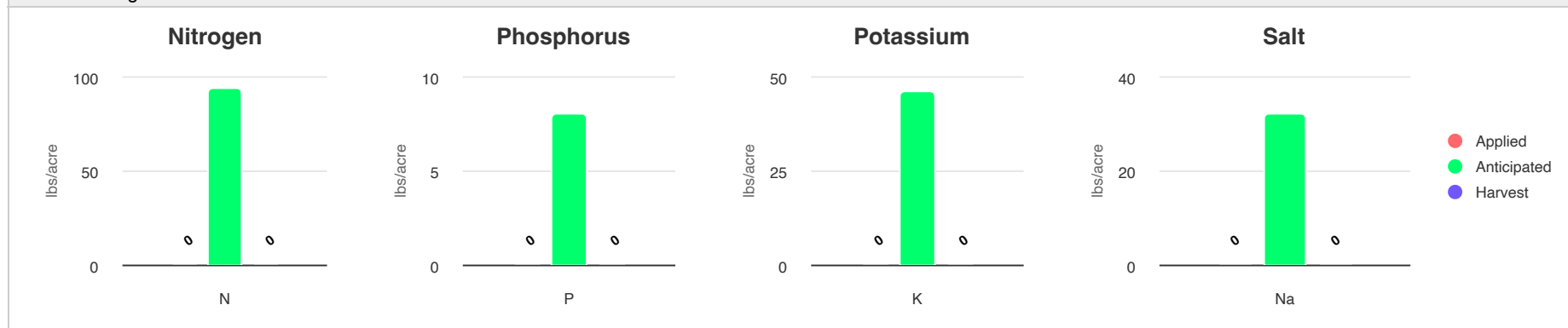
1 harvests

Field name: 2963P

Crop: Pistachio

Plant date: 01/02/2022

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	353,618.76	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	1.66	3,928.83	215.02	1,163.92
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	0.00	0.00	0.00	0.00
Anticipated crop nutrient removal	94.08	7.68	45.76	32.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	0.00	0.00	0.00	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

6,944,314.92 gallons
 255.74 acre-inches
 17.34 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

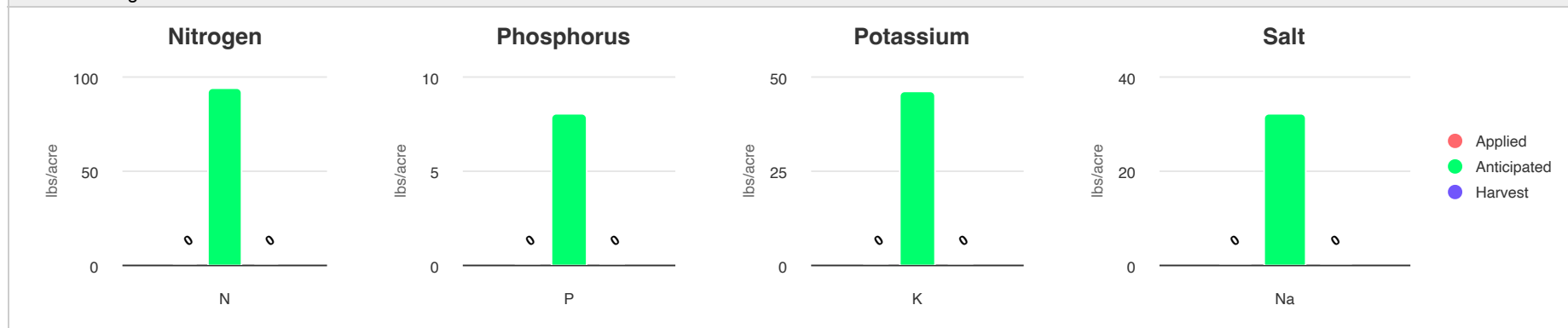
1 harvests

Field name: 296P

Crop: Pistachio

Plant date: 01/02/2022

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	81.41	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	1.90	4,505.99	246.61	1,334.90
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	0.00	0.00	0.00	0.00
Anticipated crop nutrient removal	94.08	7.68	45.76	32.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	0.00	0.00	0.00	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

18,898,703.57 gallons
 695.97 acre-inches
 19.88 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

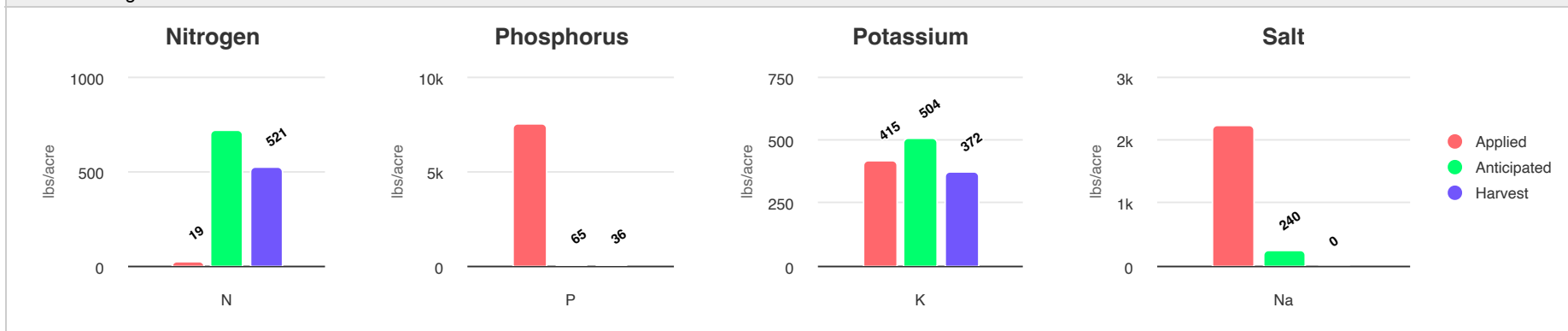
1 harvests

Field name: 2972A

Crop: Alfalfa

Plant date: 09/15/2019

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	1.92	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.17	7,471.76	408.92	2,213.52
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	19.09	7,477.52	414.68	2,213.52
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	521.27	35.71	371.80	0.00
Nutrient balance	-502.18	7,441.81	42.88	2,213.52
Applied to removed ratio	0.04	209.42	1.12	0.00

Fresh water applied

56,040,472.85 gallons
 2,063.78 acre-inches
 32.97 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

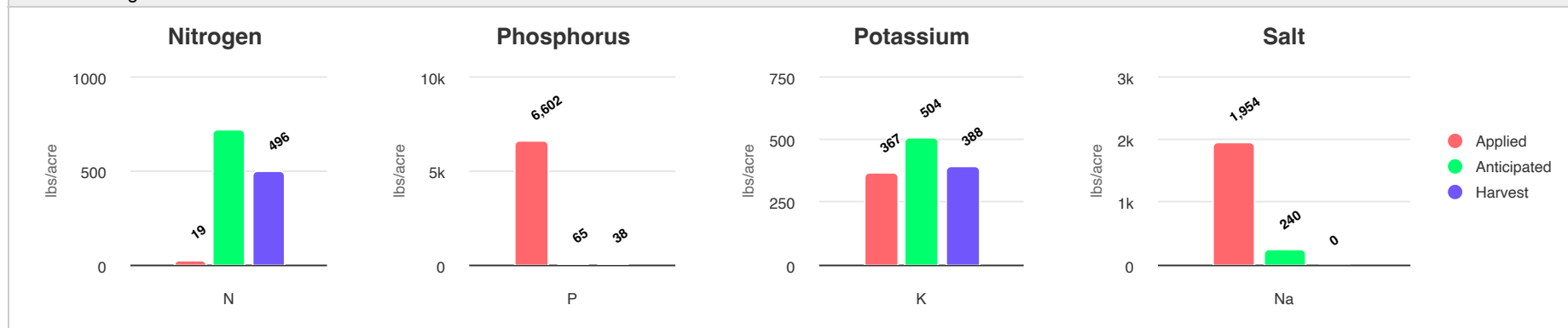
7 harvests

Field name: 297A

Crop: Alfalfa

Plant date: 01/02/2020

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	1.92	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.78	6,596.18	361.00	1,954.10
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	18.70	6,601.94	366.76	1,954.10
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	495.53	38.20	387.99	0.00
Nutrient balance	-476.83	6,563.74	-21.23	1,954.10
Applied to removed ratio	0.04	172.84	0.95	0.00

Fresh water applied

27,665,193.23 gallons
 1,018.81 acre-inches
 29.11 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

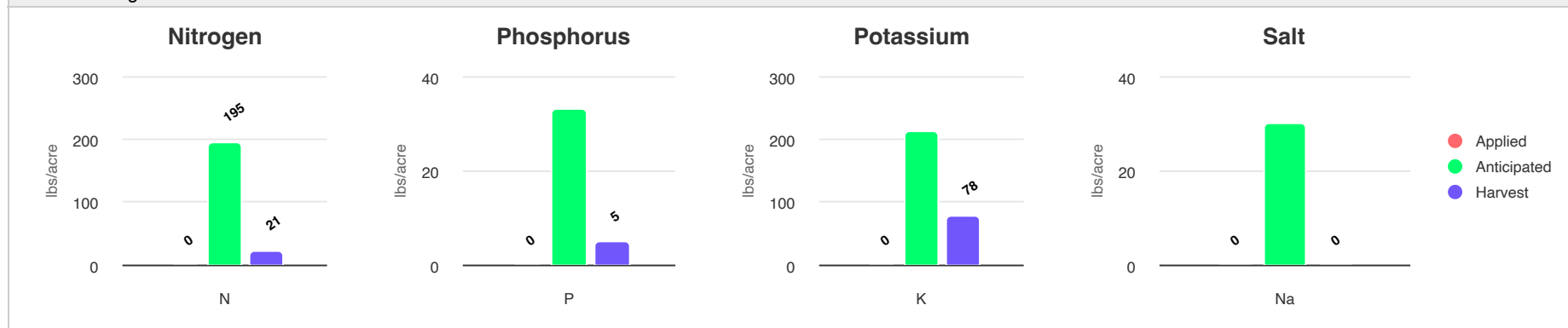
7 harvests

Field name: 2AL

Crop: Almond

Plant date: 01/02/2021

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	177.66	28.80	28.80	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.52	8,269.86	452.59	2,449.96
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	0.00	0.00	0.00	0.00
Anticipated crop nutrient removal	195.00	33.00	211.50	30.00
Actual crop nutrient removal	21.22	5.35	78.38	0.00
Nutrient balance	-21.22	-5.35	-78.38	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

71,589,524.68 gallons
 2,636.40 acre-inches
 36.50 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

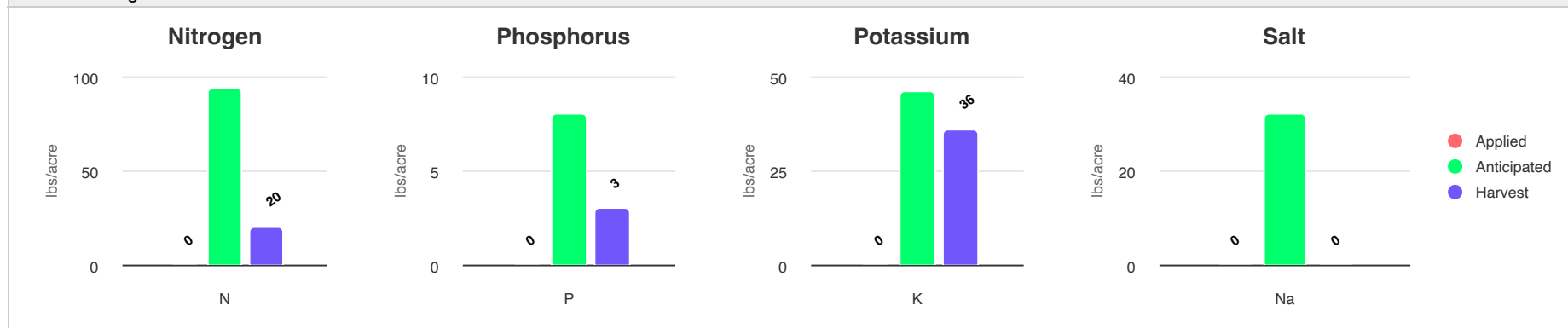
2 harvests

Field name: 2P

Crop: Pistachio

Plant date: 01/01/2017

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	56,978.35	6.91	6.91	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.04	5,409.68	131,996.24	946.70
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	0.00	0.00	0.00	0.00
Anticipated crop nutrient removal	94.08	7.68	45.76	32.00
Actual crop nutrient removal	20.26	3.20	35.96	0.00
Nutrient balance	-20.26	-3.20	-35.96	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

35,025,177.01 gallons
 1,289.86 acre-inches
 23.87 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

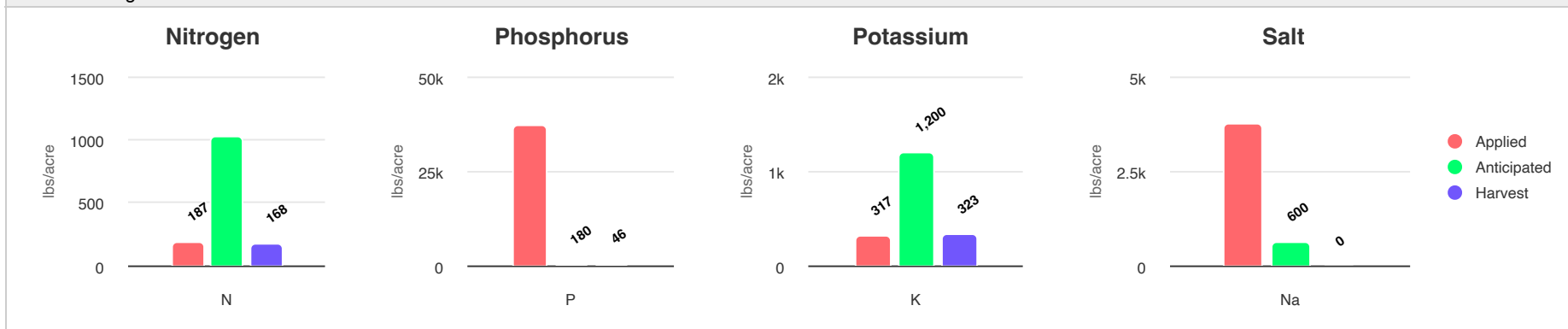
1 harvests

Field name: 311

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	61.21	17.93	69.42	2,469.28
Process wastewater	15.99	33,401.89	28.45	141.49
Fresh water	1.63	3,852.24	210.83	1,141.22
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	186.93	37,280.70	317.34	3,751.99
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	168.45	46.23	322.56	0.00
Nutrient balance	18.48	37,234.47	-5.22	3,751.99
Applied to removed ratio	1.11	806.36	0.98	0.00

Fresh water applied

33,906,197.31 gallons
 1,248.65 acre-inches
 17.00 inches/acre

Process wastewater applied

444,769.54 gallons
 16.38 acre-inches
 0.22 inches/acre

Total Harvests for the crop

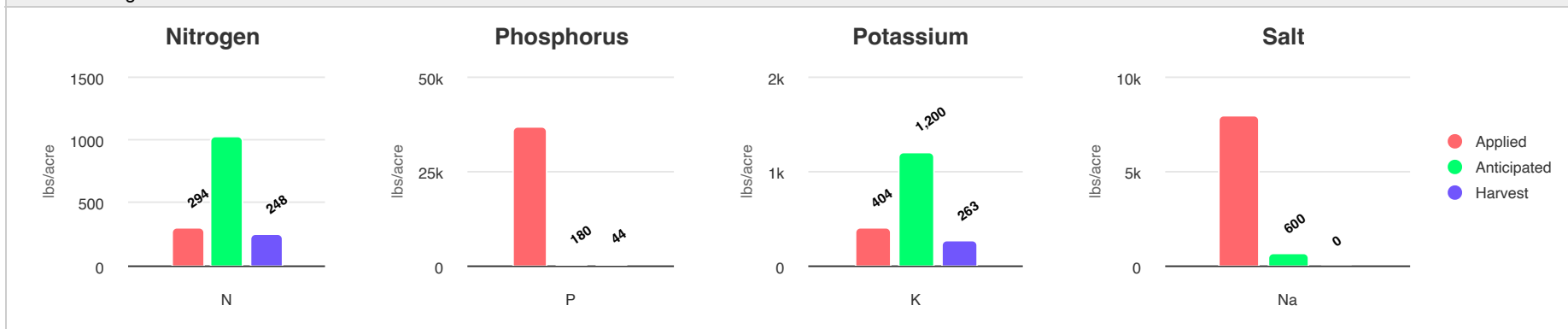
1 harvests

Field name: 312

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	168.32	49.31	190.91	6,790.52
Process wastewater	15.99	33,401.89	28.45	141.49
Fresh water	1.37	3,216.39	176.02	952.86
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	293.78	36,676.23	404.02	7,884.87
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	248.41	43.89	263.35	0.00
Nutrient balance	45.37	36,632.34	140.67	7,884.87
Applied to removed ratio	1.18	835.60	1.53	0.00

Fresh water applied

27,357,676.22 gallons
 1,007.49 acre-inches
 14.19 inches/acre

Process wastewater applied

429,812.73 gallons
 15.83 acre-inches
 0.22 inches/acre

Total Harvests for the crop

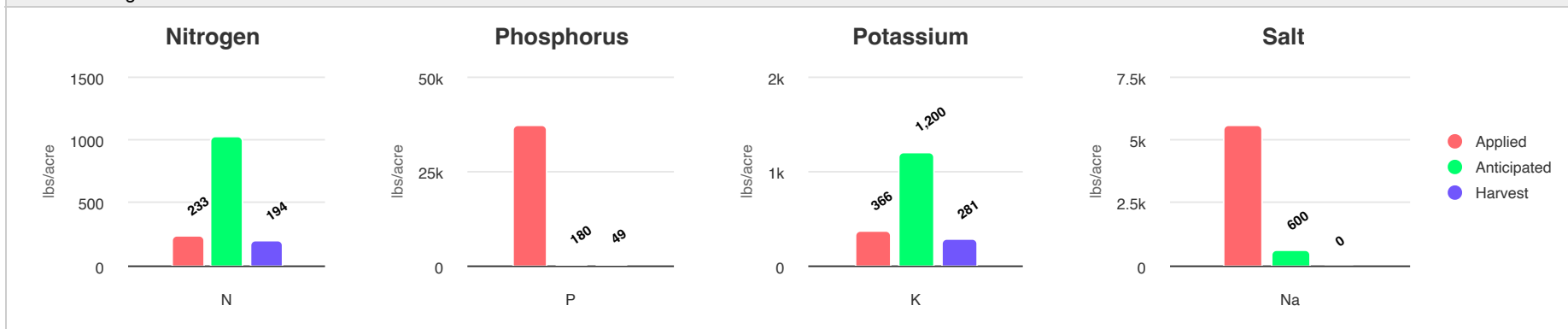
1 harvests

Field name: 313

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	107.11	31.38	121.49	4,321.24
Process wastewater	15.99	33,401.89	28.45	141.49
Fresh water	1.61	3,787.43	207.28	1,122.02
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	232.81	37,229.34	365.86	5,584.75
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	194.19	48.83	280.75	0.00
Nutrient balance	38.62	37,180.52	85.11	5,584.75
Applied to removed ratio	1.20	762.49	1.30	0.00

Fresh water applied

32,936,383.17 gallons
 1,212.93 acre-inches
 16.71 inches/acre

Process wastewater applied

439,440.80 gallons
 16.18 acre-inches
 0.22 inches/acre

Total Harvests for the crop

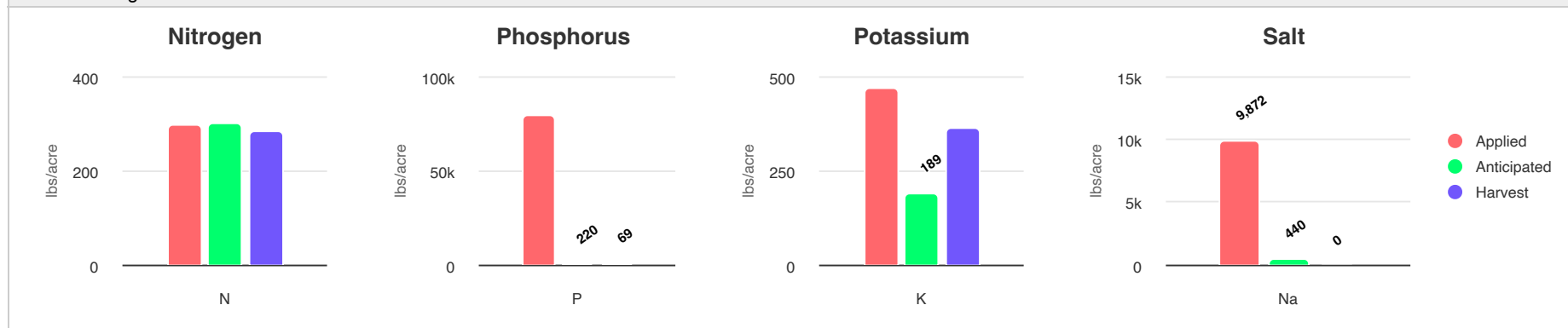
1 harvests

Field name: 314A

Crop: Milo

Plant date: 04/15/2023

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	35.39	0.00	0.00	0.00
Dry manure	214.22	62.76	242.98	8,642.48
Process wastewater	31.98	75,671.64	40.86	225.74
Fresh water	1.43	3,387.70	185.41	1,003.61
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	297.02	79,122.10	469.25	9,871.83
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	281.98	68.90	364.08	0.00
Nutrient balance	15.04	79,053.20	105.18	9,871.83
Applied to removed ratio	1.05	1,148.29	1.29	0.00

Fresh water applied

28,766,082.41 gallons
 1,059.36 acre-inches
 14.95 inches/acre

Process wastewater applied

1,089,070.40 gallons
 40.11 acre-inches
 0.57 inches/acre

Total Harvests for the crop

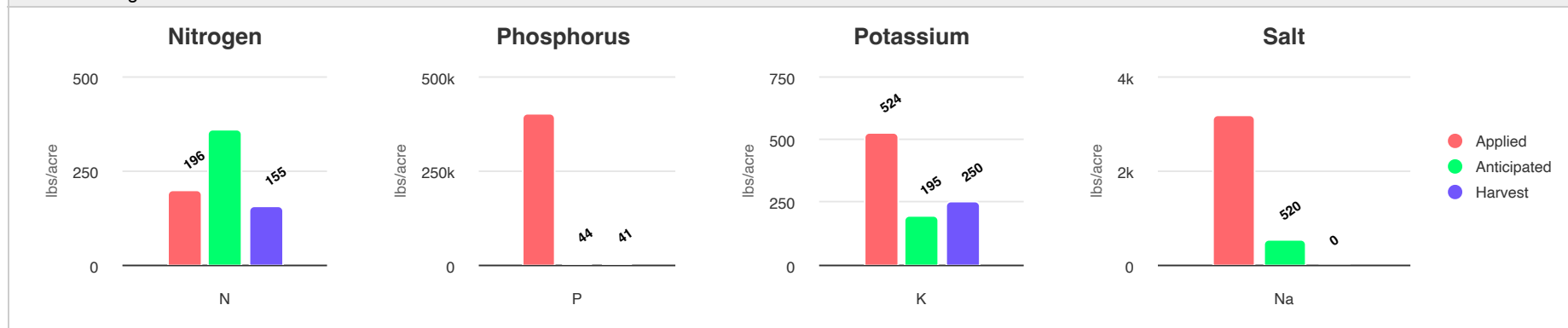
1 harvests

Field name: 314A

Crop: Triticale

Plant date: 10/15/2022

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	0.00	0.00	0.00	0.00
Process wastewater	194.78	397,654.35	314.22	2,046.91
Fresh water	1.63	3,836.83	209.99	1,136.66
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	196.41	401,491.18	524.21	3,183.57
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	155.34	41.44	249.60	0.00
Nutrient balance	41.07	401,449.74	274.61	3,183.57
Applied to removed ratio	1.26	9,687.34	2.10	0.00

Fresh water applied

32,579,753.73 gallons
 1,199.80 acre-inches
 16.93 inches/acre

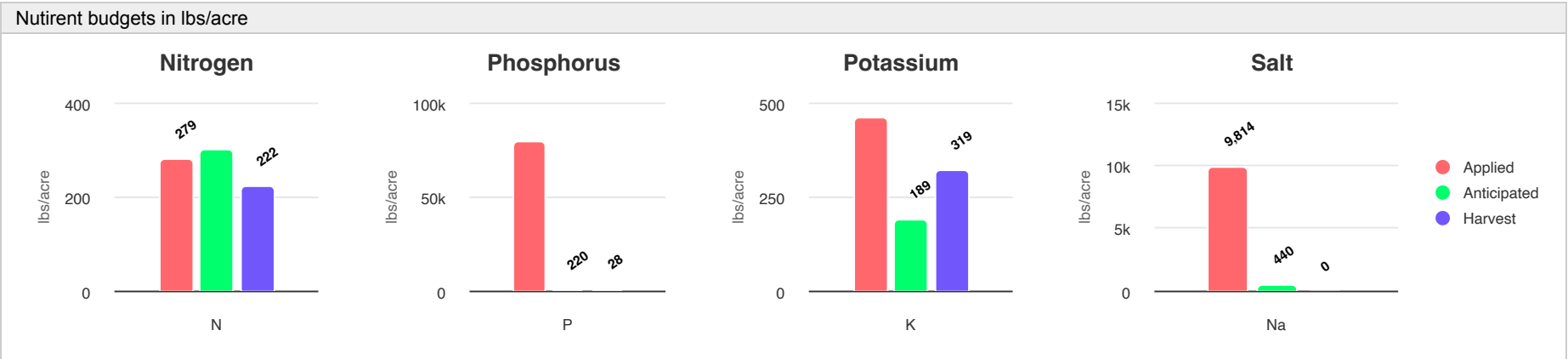
Process wastewater applied

5,243,316.14 gallons
 193.09 acre-inches
 2.73 inches/acre

Total Harvests for the crop

1 harvests

Field name: 314B Crop: Milo Plant date: 04/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	5,739,058.32 gallons
Plowdown credit	0.00	0.00	0.00	0.00	211.35 acre-inches
Commercial fertilizer / Other	17.70	0.00	0.00	0.00	14.09 inches/acre
Dry manure	214.22	62.76	242.98	8,642.48	
Process wastewater	31.98	75,671.64	40.86	225.74	
Fresh water	1.35	3,192.83	174.73	945.87	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	279.25	78,927.23	458.57	9,814.09	
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00	
Actual crop nutrient removal	222.23	28.09	319.23	0.00	
Nutrient balance	57.02	78,899.14	139.35	9,814.09	
Applied to removed ratio	1.26	2,809.86	1.44	0.00	

Process wastewater applied	
230,539.88	gallons
8.49	acre-inches
0.57	inches/acre

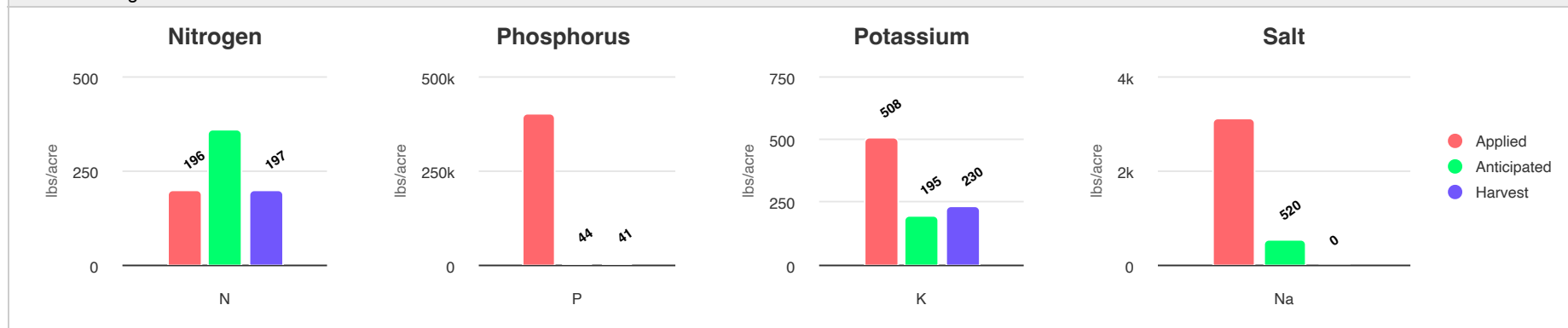
Total Harvests for the crop	
1	harvests

Field name: 314B

Crop: Triticale

Plant date: 10/15/2022

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	0.00	0.00	0.00	0.00
Process wastewater	194.78	397,654.35	314.22	2,046.91
Fresh water	1.49	3,541.80	193.85	1,049.25
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	196.27	401,196.15	508.07	3,096.16
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	197.10	40.98	230.28	0.00
Nutrient balance	-0.83	401,155.17	277.79	3,096.16
Applied to removed ratio	1.00	9,790.64	2.21	0.00

Fresh water applied

6,366,322.40 gallons
 234.45 acre-inches
 15.63 inches/acre

Process wastewater applied

1,109,931.43 gallons
 40.88 acre-inches
 2.73 inches/acre

Total Harvests for the crop

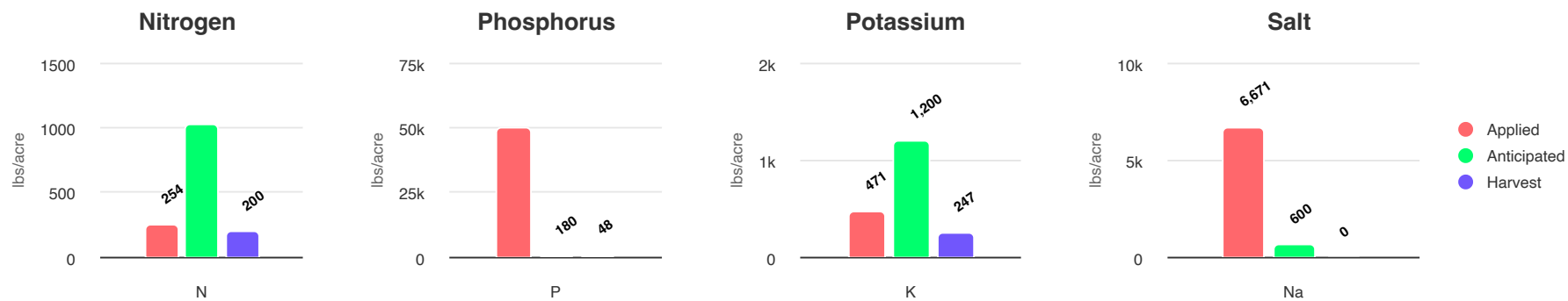
1 harvests

Field name: 315

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	122.41	35.87	138.85	4,938.56
Process wastewater	21.30	44,485.93	37.89	188.44
Fresh water	2.21	5,211.40	285.20	1,543.88
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	254.02	49,741.84	470.58	6,670.88
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	200.18	47.97	246.89	0.00
Nutrient balance	53.84	49,693.86	223.69	6,670.88
Applied to removed ratio	1.27	1,036.92	1.91	0.00

Fresh water applied

47,380,381.54 gallons
 1,744.86 acre-inches
 23.00 inches/acre

Process wastewater applied

611,878.11 gallons
 22.53 acre-inches
 0.30 inches/acre

Total Harvests for the crop

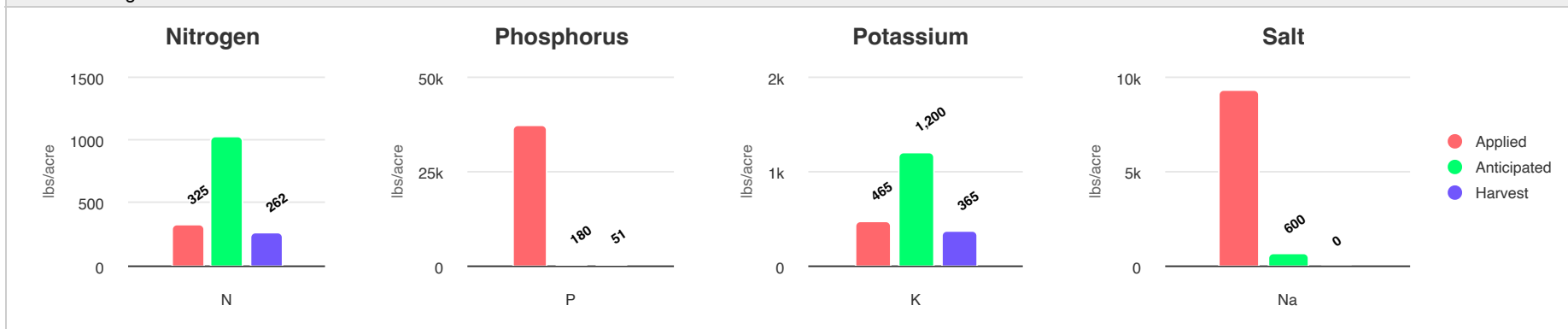
1 harvests

Field name: 316

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	198.92	58.28	225.63	8,025.16
Process wastewater	15.99	33,401.89	28.45	141.49
Fresh water	1.57	3,697.02	202.34	1,095.24
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	324.58	37,165.83	465.06	9,261.89
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	262.28	51.45	364.57	0.00
Nutrient balance	62.30	37,114.38	100.49	9,261.89
Applied to removed ratio	1.24	722.41	1.28	0.00

Fresh water applied

32,353,908.62 gallons
 1,191.48 acre-inches
 16.32 inches/acre

Process wastewater applied

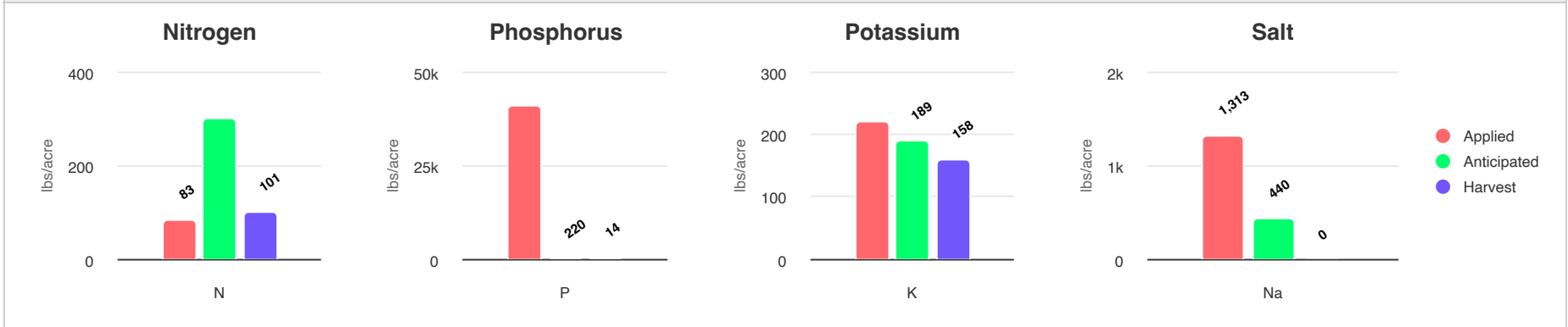
442,226.28 gallons
 16.29 acre-inches
 0.22 inches/acre

Total Harvests for the crop

1 harvests

Field name: 316 Crop: Milo Plant date: 08/01/2023

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	35.39	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	31.98	37,162.82	24.94	259.24
Fresh water	1.51	3,557.65	194.71	1,053.95
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	82.88	40,720.47	219.65	1,313.19
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	101.10	13.93	157.83	0.00
Nutrient balance	-18.22	40,706.54	61.82	1,313.19
Applied to removed ratio	0.82	2,922.20	1.39	0.00

Fresh water applied	
31,134,316.44	gallons
1,146.57	acre-inches
15.70	inches/acre

Process wastewater applied	
793,230.99	gallons
29.21	acre-inches
0.40	inches/acre

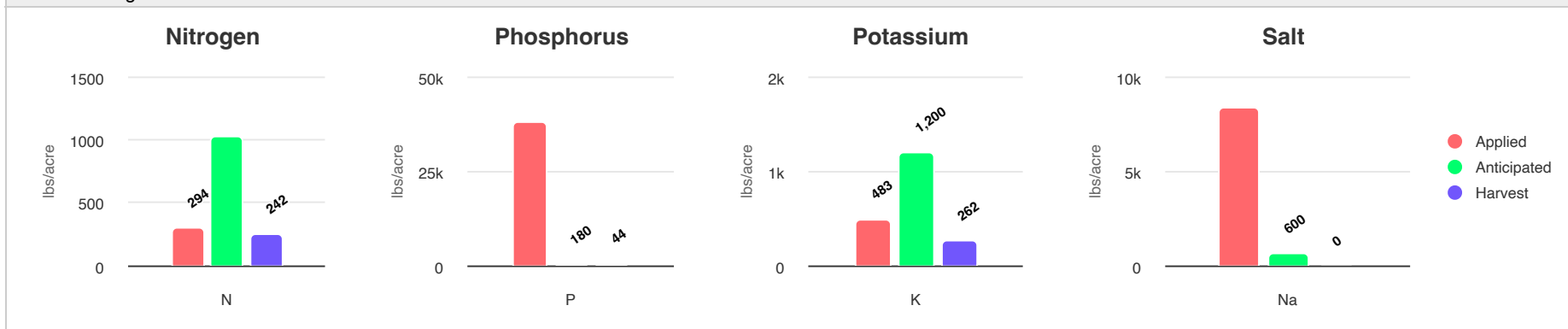
Total Harvests for the crop	
1	harvests

Field name: 317

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	168.32	49.31	190.91	6,790.52
Process wastewater	15.99	33,401.89	28.45	141.49
Fresh water	1.97	4,650.79	254.54	1,377.80
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	294.38	38,110.63	482.54	8,309.81
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	241.63	43.53	262.20	0.00
Nutrient balance	52.74	38,067.10	220.34	8,309.81
Applied to removed ratio	1.22	875.43	1.84	0.00

Fresh water applied

42,472,942.28 gallons
1,564.13 acre-inches
20.52 inches/acre

Process wastewater applied

461,482.47 gallons
16.99 acre-inches
0.22 inches/acre

Total Harvests for the crop

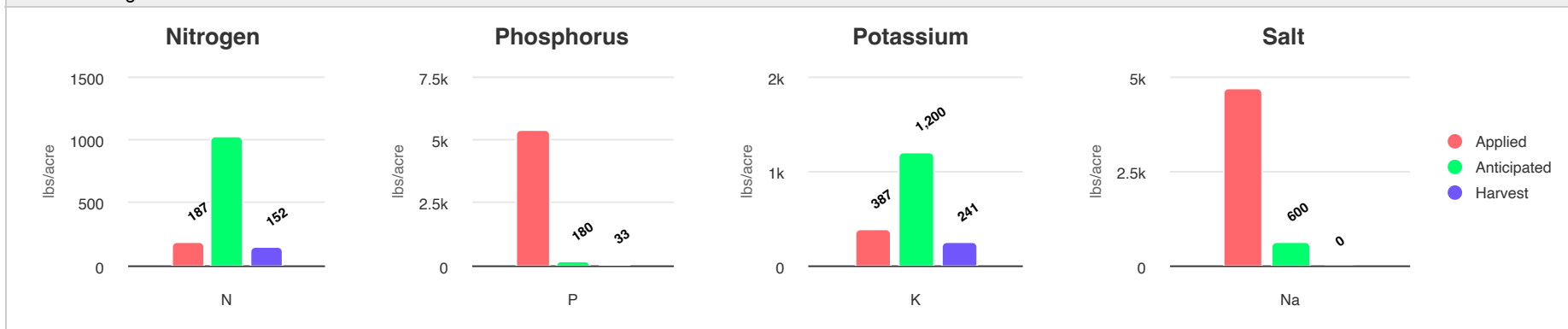
1 harvests

Field name: 318

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	76.51	22.42	86.78	3,086.60
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.26	5,336.72	292.07	1,581.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	186.87	5,367.78	387.49	4,667.60
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	152.08	32.57	241.03	0.00
Nutrient balance	34.79	5,335.21	146.46	4,667.60
Applied to removed ratio	1.23	164.82	1.61	0.00

Fresh water applied

49,632,416.77 gallons
 1,827.79 acre-inches
 23.55 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

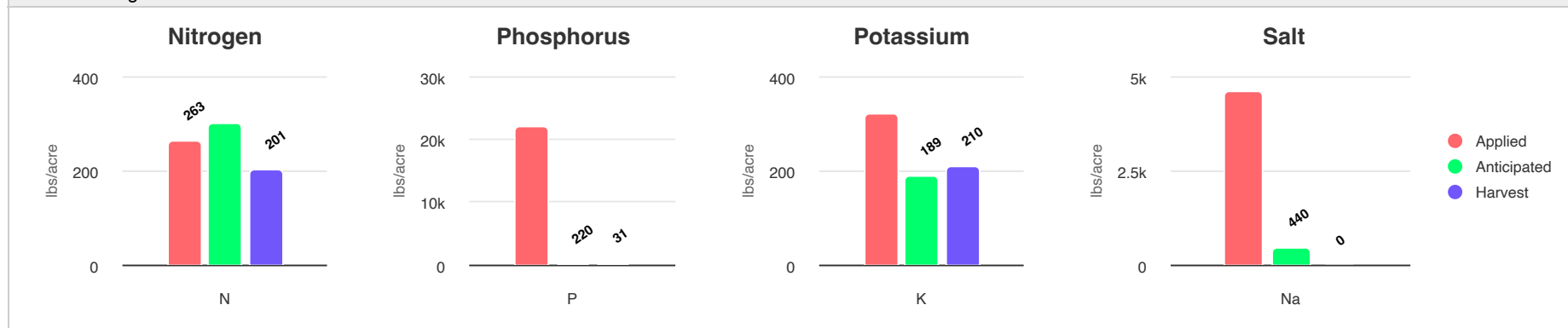
1 harvests

Field name: 318

Crop: Milo

Plant date: 07/30/2023

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	231.46	50.82	129.73	3,511.20
Process wastewater	15.99	18,581.41	12.47	129.62
Fresh water	1.38	3,266.70	178.78	967.76
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	262.83	21,898.93	320.98	4,608.58
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	201.06	31.46	210.06	0.00
Nutrient balance	61.77	21,867.47	110.92	4,608.58
Applied to removed ratio	1.31	696.05	1.53	0.00

Fresh water applied

30,380,914.23 gallons
 1,118.83 acre-inches
 14.42 inches/acre

Process wastewater applied

421,488.83 gallons
 15.52 acre-inches
 0.20 inches/acre

Total Harvests for the crop

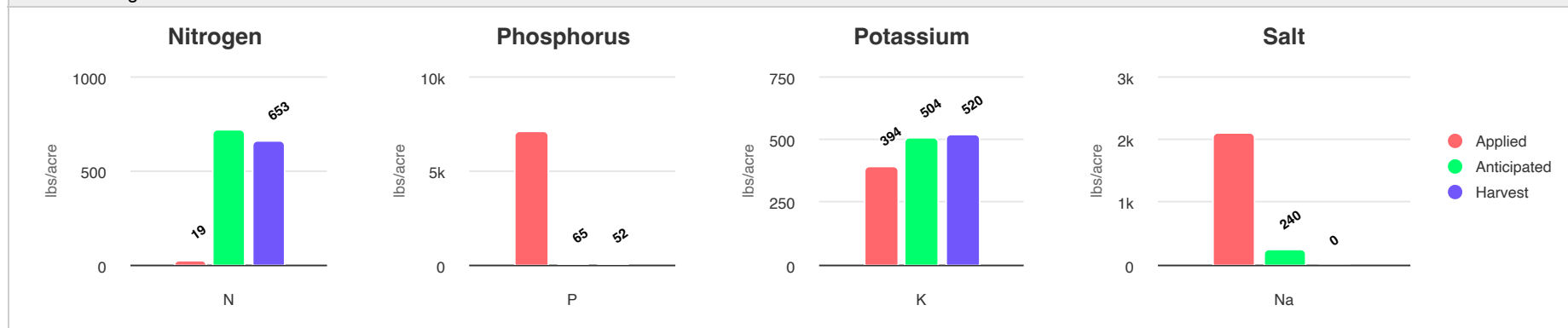
1 harvests

Field name: 321

Crop: Alfalfa

Plant date: 04/01/2020

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	1.92	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.99	7,088.11	387.93	2,099.85
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	18.91	7,093.87	393.69	2,099.85
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	653.37	51.60	519.98	0.00
Nutrient balance	-634.46	7,042.27	-126.29	2,099.85
Applied to removed ratio	0.03	137.49	0.76	0.00

Fresh water applied

61,835,306.76 gallons
 2,277.18 acre-inches
 31.28 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

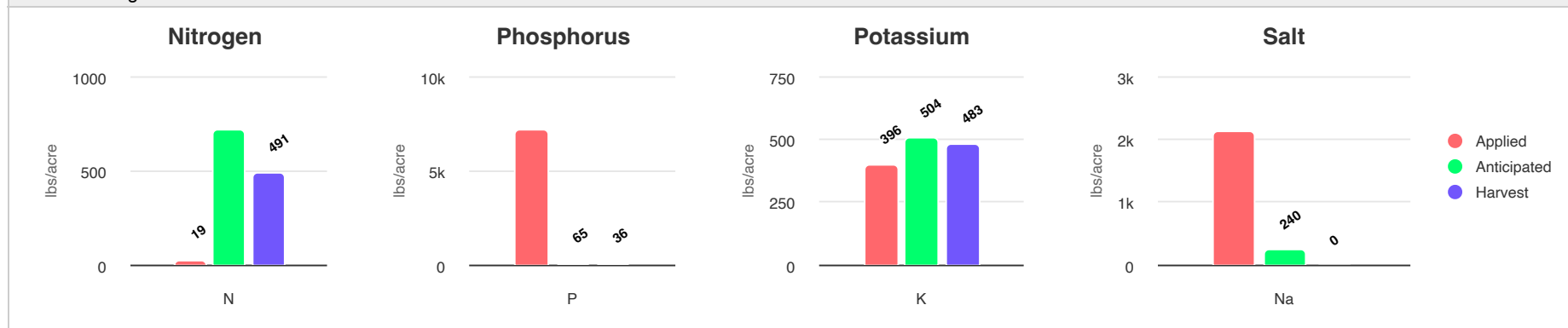
7 harvests

Field name: 322

Crop: Alfalfa

Plant date: 01/02/2020

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	1.92	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.02	7,130.50	390.25	2,112.42
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	18.94	7,136.26	396.01	2,112.42
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	491.16	35.80	482.63	0.00
Nutrient balance	-472.22	7,100.46	-86.62	2,112.42
Applied to removed ratio	0.04	199.36	0.82	0.00

Fresh water applied

61,265,059.86 gallons
 2,256.18 acre-inches
 31.47 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

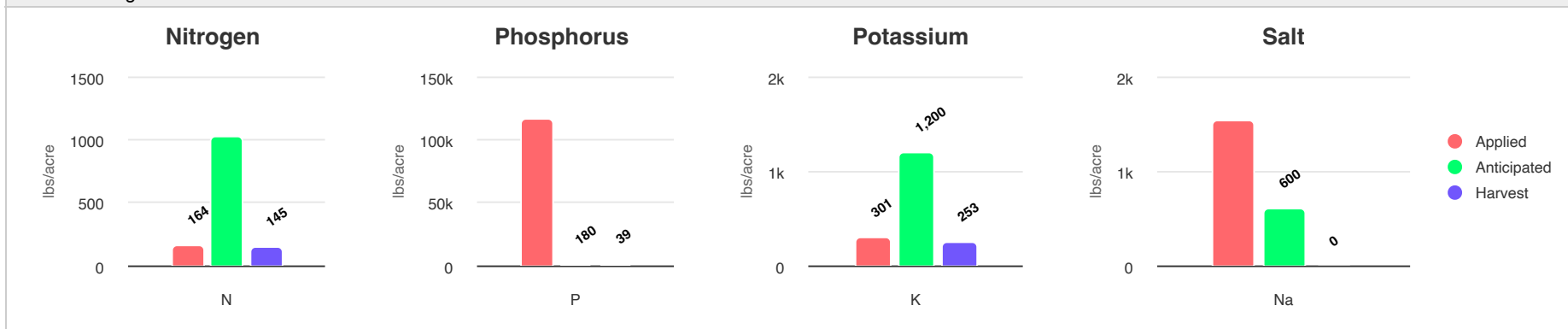
7 harvests

Field name: 323

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	54.08	112,937.34	96.20	478.40
Fresh water	1.52	3,591.65	196.57	1,064.03
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	163.70	116,537.63	301.41	1,542.43
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	145.45	39.00	252.86	0.00
Nutrient balance	18.25	116,498.63	48.55	1,542.43
Applied to removed ratio	1.13	2,988.11	1.19	0.00

Fresh water applied

31,233,796.74 gallons
 1,150.23 acre-inches
 15.85 inches/acre

Process wastewater applied

1,485,822.24 gallons
 54.72 acre-inches
 0.75 inches/acre

Total Harvests for the crop

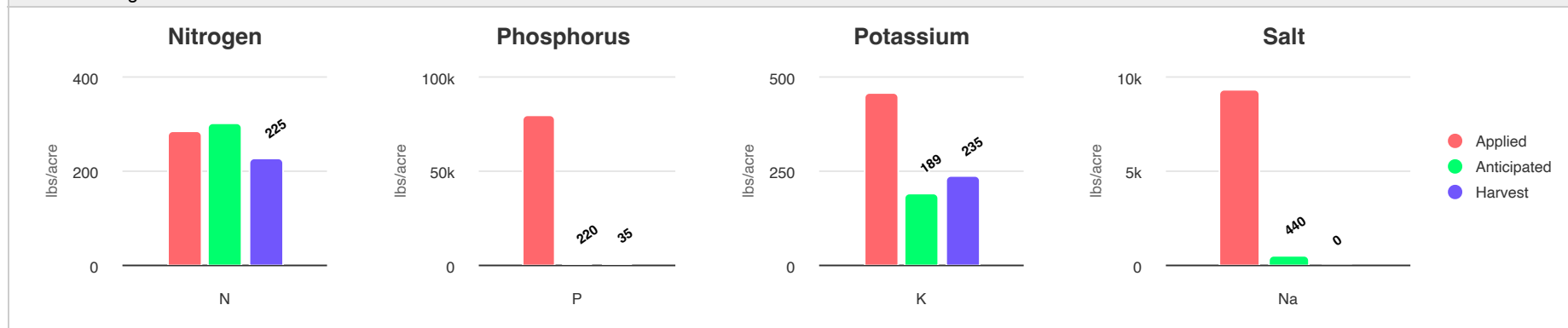
1 harvests

Field name: 324

Crop: Milo

Plant date: 04/15/2023

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	35.39	0.00	0.00	0.00
Dry manure	198.92	58.28	225.63	8,025.16
Process wastewater	31.98	75,671.64	40.86	225.74
Fresh water	1.45	3,427.59	187.58	1,015.43
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	281.74	79,157.51	454.07	9,266.33
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	225.16	35.23	235.24	0.00
Nutrient balance	56.58	79,122.28	218.82	9,266.33
Applied to removed ratio	1.25	2,246.70	1.93	0.00

Fresh water applied

30,205,505.37 gallons
 1,112.37 acre-inches
 15.13 inches/acre

Process wastewater applied

1,130,260.19 gallons
 41.62 acre-inches
 0.57 inches/acre

Total Harvests for the crop

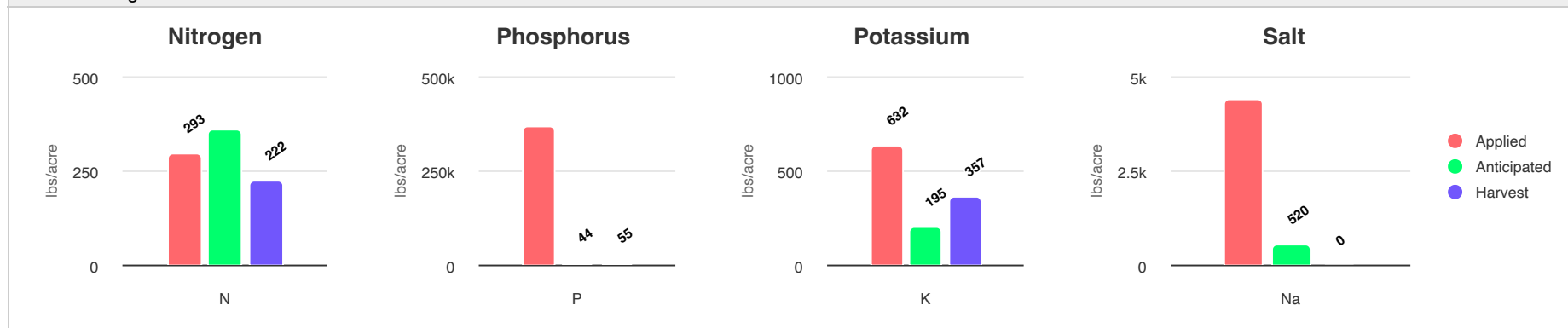
1 harvests

Field name: 324

Crop: Triticale

Plant date: 10/15/2022

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	113.41	29.73	147.96	1,506.20
Process wastewater	177.99	364,390.91	290.75	1,834.07
Fresh water	1.50	3,532.73	193.34	1,046.57
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	292.90	367,953.37	632.05	4,386.84
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	221.74	55.33	357.21	0.00
Nutrient balance	71.15	367,898.04	274.84	4,386.84
Applied to removed ratio	1.32	6,650.59	1.77	0.00

Fresh water applied

31,132,079.57 gallons
 1,146.49 acre-inches
 15.59 inches/acre

Process wastewater applied

4,970,349.33 gallons
 183.04 acre-inches
 2.49 inches/acre

Total Harvests for the crop

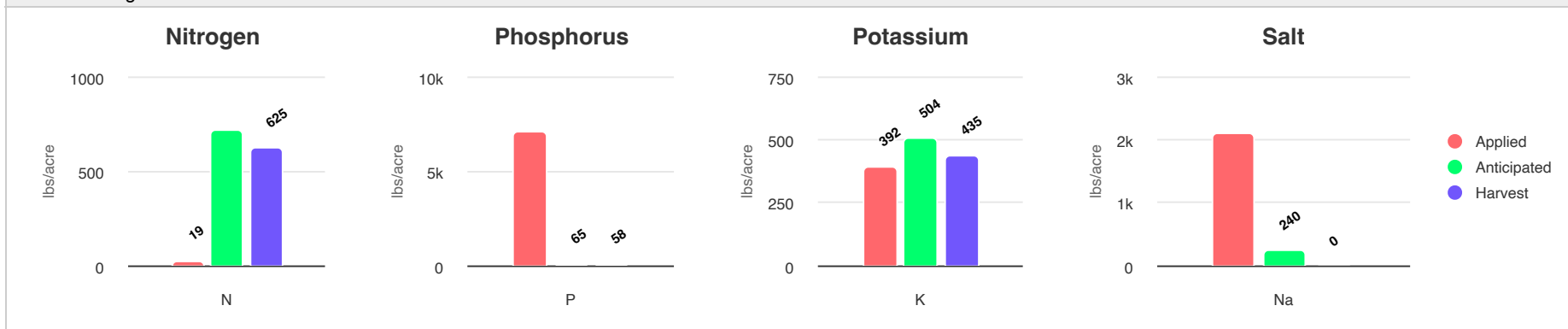
1 harvests

Field name: 325

Crop: Alfalfa

Plant date: 01/02/2020

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	1.92	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.99	7,051.65	385.93	2,089.05
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	18.91	7,057.41	391.69	2,089.05
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	625.49	57.90	435.45	0.00
Nutrient balance	-606.58	6,999.51	-43.76	2,089.05
Applied to removed ratio	0.03	121.89	0.90	0.00

Fresh water applied

61,956,442.75 gallons
 2,281.65 acre-inches
 31.12 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

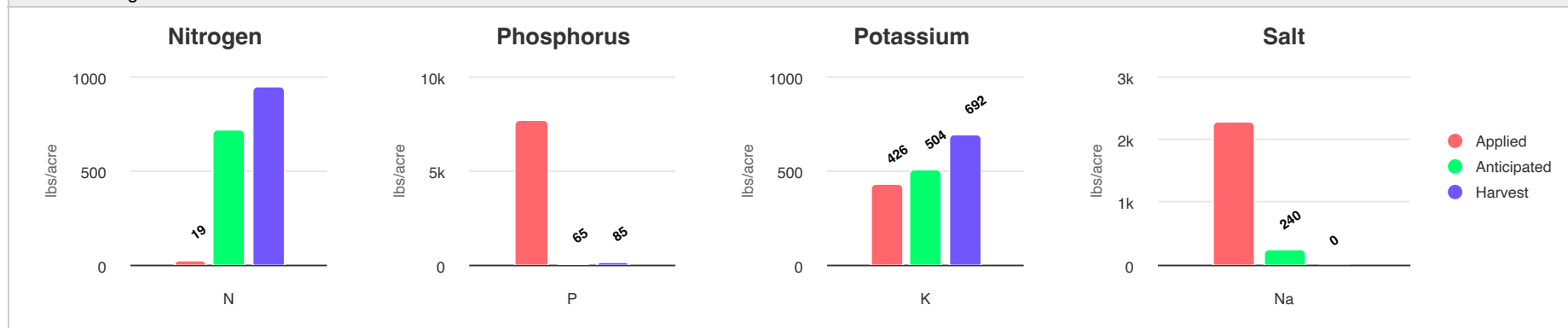
6 harvests

Field name: 326

Crop: Alfalfa

Plant date: 01/02/2020

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	1.92	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.25	7,669.81	419.74	2,272.18
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	19.17	7,675.57	425.50	2,272.18
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	947.24	84.67	692.29	0.00
Nutrient balance	-928.07	7,590.90	-266.79	2,272.18
Applied to removed ratio	0.02	90.65	0.61	0.00

Fresh water applied

65,374,947.99 gallons
 2,407.54 acre-inches
 33.85 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

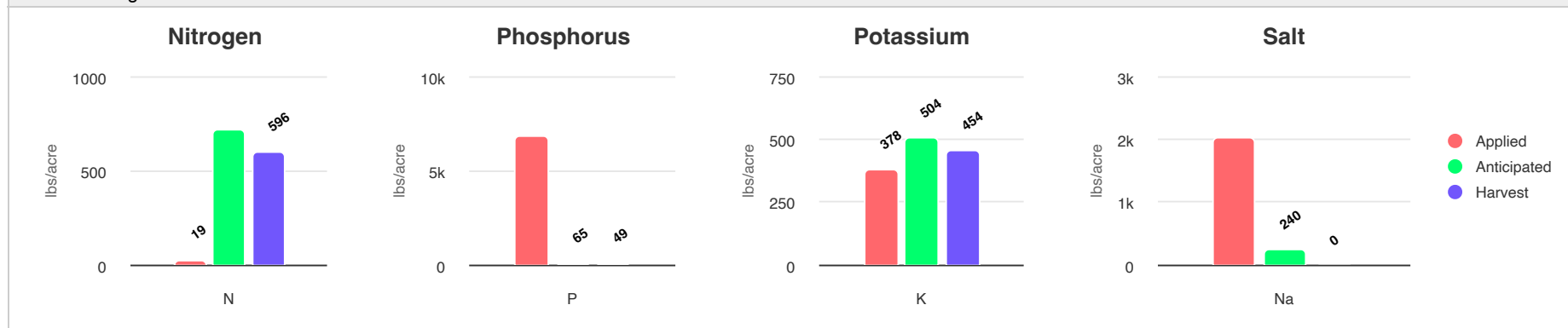
7 harvests

Field name: 327

Crop: Alfalfa

Plant date: 10/01/2022

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	1.92	5.76	5.76	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.88	6,794.68	371.86	2,012.92
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	18.80	6,800.44	377.62	2,012.92
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	595.73	48.75	453.68	0.00
Nutrient balance	-576.93	6,751.69	-76.06	2,012.92
Applied to removed ratio	0.03	139.49	0.83	0.00

Fresh water applied

60,472,210.05 gallons
 2,226.99 acre-inches
 29.99 inches/acre

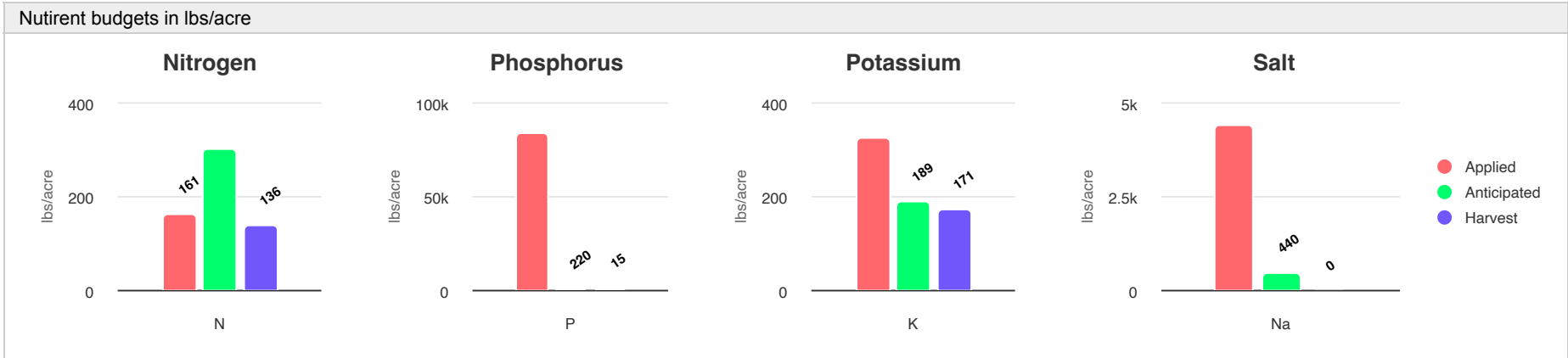
Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

9 harvests

Field name: 328 Crop: Milo Plant date: 04/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	35.39	0.00	0.00	0.00
Dry manure	76.51	22.42	86.78	3,086.60
Process wastewater	33.62	79,548.81	42.96	237.30
Fresh water	1.51	3,560.60	194.86	1,054.83
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	161.03	83,131.83	324.60	4,378.73
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	135.75	14.79	171.01	0.00
Nutrient balance	25.28	83,117.04	153.59	4,378.73
Applied to removed ratio	1.19	5,620.99	1.90	0.00

Fresh water applied	
28,932,850.02	gallons
1,065.50	acre-inches
15.71	inches/acre

Process wastewater applied	
1,095,592.56	gallons
40.35	acre-inches
0.59	inches/acre

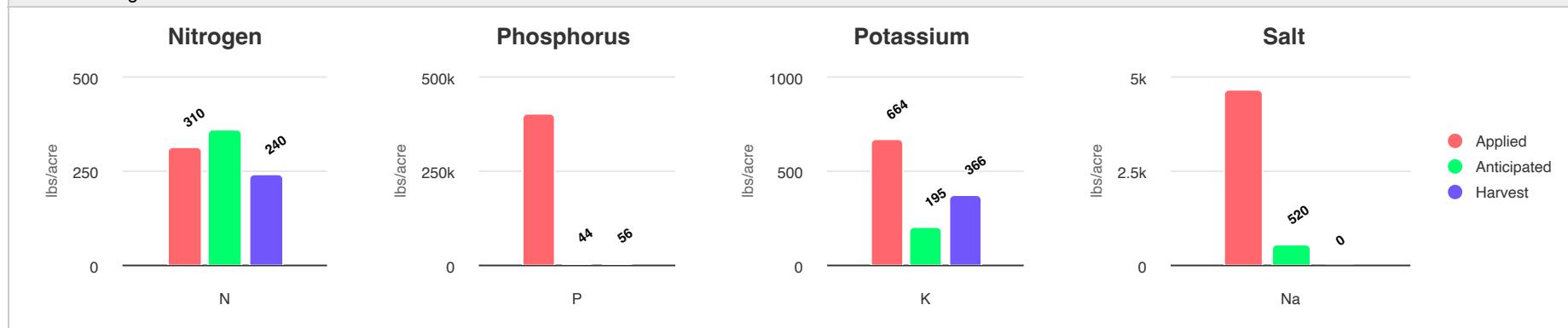
Total Harvests for the crop	
1	harvests

Field name: 328

Crop: Triticale

Plant date: 10/15/2022

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	113.41	29.73	147.96	1,506.20
Process wastewater	194.78	397,654.35	314.22	2,046.91
Fresh water	1.57	3,695.89	202.28	1,094.91
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	309.76	401,379.97	664.46	4,648.02
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	240.41	55.68	365.83	0.00
Nutrient balance	69.35	401,324.28	298.63	4,648.02
Applied to removed ratio	1.29	7,208.44	1.82	0.00

Fresh water applied

30,032,125.47 gallons
 1,105.98 acre-inches
 16.31 inches/acre

Process wastewater applied

5,017,629.85 gallons
 184.78 acre-inches
 2.73 inches/acre

Total Harvests for the crop

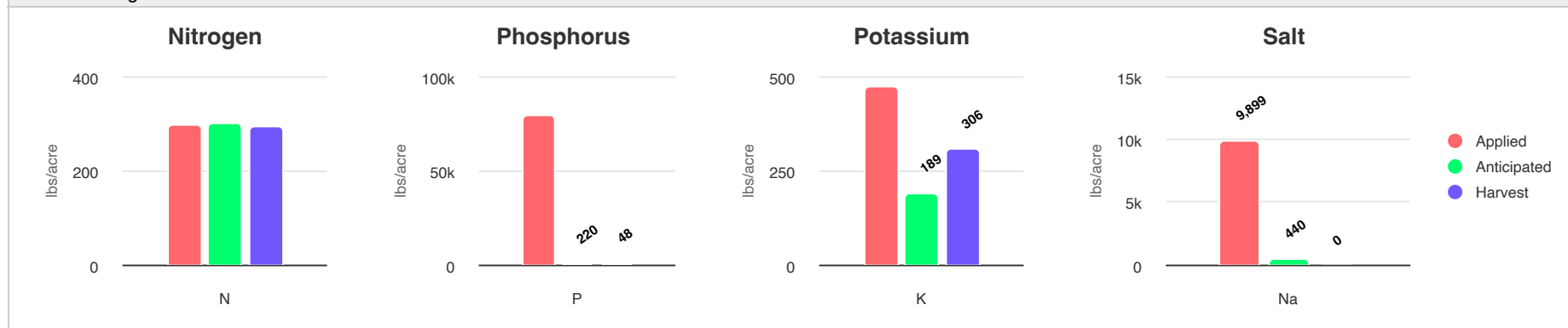
1 harvests

Field name: 331

Crop: Milo

Plant date: 04/15/2023

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	35.39	0.00	0.00	0.00
Dry manure	214.22	62.76	242.98	8,642.48
Process wastewater	31.98	75,671.64	40.86	225.74
Fresh water	1.47	3,478.34	190.37	1,030.45
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	297.06	79,212.74	474.21	9,898.67
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	291.91	48.11	306.33	0.00
Nutrient balance	5.15	79,164.63	167.88	9,898.67
Applied to removed ratio	1.02	1,646.41	1.55	0.00

Fresh water applied

30,286,018.79 gallons
 1,115.33 acre-inches
 15.35 inches/acre

Process wastewater applied

1,116,735.23 gallons
 41.13 acre-inches
 0.57 inches/acre

Total Harvests for the crop

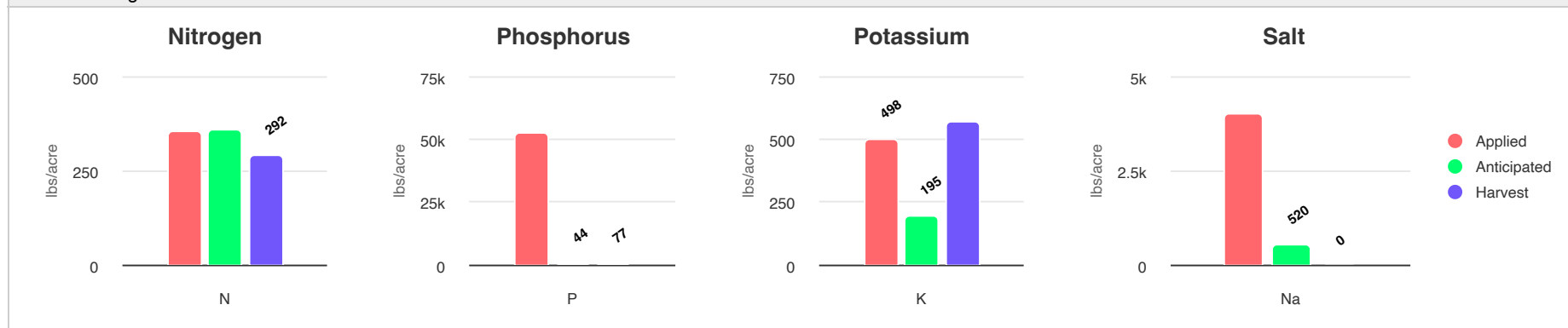
1 harvests

Field name: 331

Crop: Triticale

Plant date: 10/15/2022

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	123.87	0.00	0.00	0.00
Dry manure	204.13	53.51	266.33	2,711.16
Process wastewater	23.96	49,187.93	39.59	242.50
Fresh water	1.49	3,505.53	191.85	1,038.52
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	353.45	52,746.97	497.77	3,992.18
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	291.55	76.88	568.90	0.00
Nutrient balance	61.90	52,670.08	-71.13	3,992.18
Applied to removed ratio	1.21	686.07	0.87	0.00

Fresh water applied

30,522,781.28 gallons
 1,124.05 acre-inches
 15.47 inches/acre

Process wastewater applied

660,965.23 gallons
 24.34 acre-inches
 0.34 inches/acre

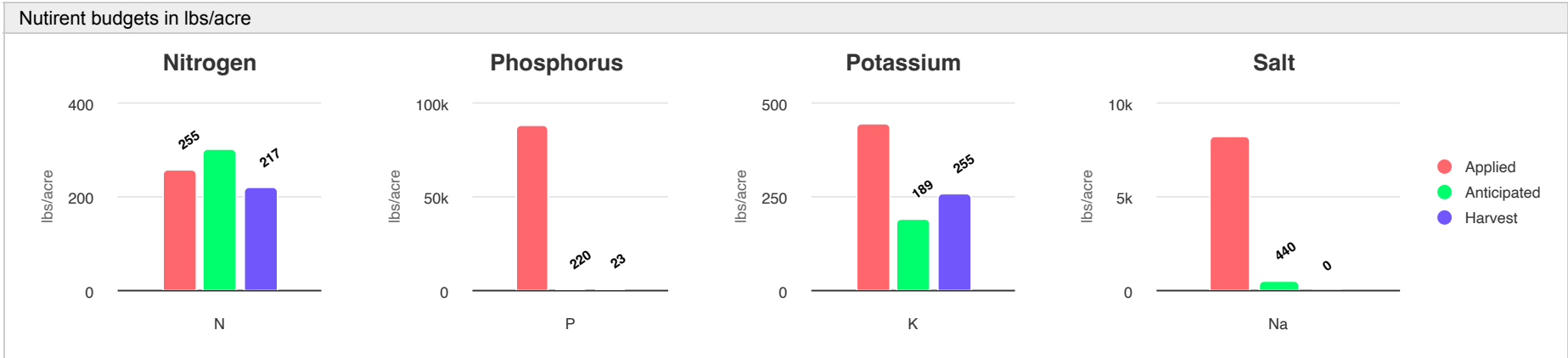
Total Harvests for the crop

1 harvests

Field name: 332

Crop: Milo

Plant date: 04/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	35.39	0.00	0.00	0.00
Dry manure	168.32	49.31	190.91	6,790.52
Process wastewater	35.31	83,559.68	45.12	249.27
Fresh water	1.59	3,747.56	205.09	1,110.21
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	254.61	87,356.55	441.12	8,150.00
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	217.38	22.82	254.61	0.00
Nutrient balance	37.23	87,333.73	186.52	8,150.00
Applied to removed ratio	1.17	3,827.23	1.73	0.00

Fresh water applied	
31,848,581.02	gallons
1,172.87	acre-inches
16.54	inches/acre

Process wastewater applied	
1,203,613.68	gallons
44.32	acre-inches
0.63	inches/acre

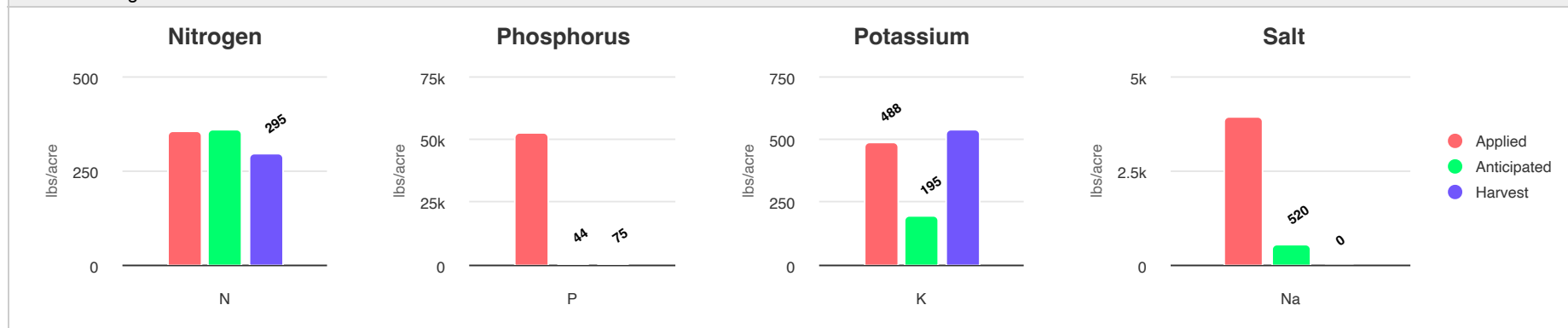
Total Harvests for the crop	
1	harvests

Field name: 332

Crop: Triticale

Plant date: 10/15/2022

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	123.87	0.00	0.00	0.00
Dry manure	204.13	53.51	266.33	2,711.16
Process wastewater	23.96	49,187.93	39.59	242.50
Fresh water	1.41	3,318.38	181.61	983.06
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	353.37	52,559.82	487.53	3,936.72
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	295.43	74.66	538.84	0.00
Nutrient balance	57.95	52,485.16	-51.31	3,936.72
Applied to removed ratio	1.20	703.98	0.90	0.00

Fresh water applied

28,201,150.03 gallons
 1,038.55 acre-inches
 14.64 inches/acre

Process wastewater applied

645,136.95 gallons
 23.76 acre-inches
 0.34 inches/acre

Total Harvests for the crop

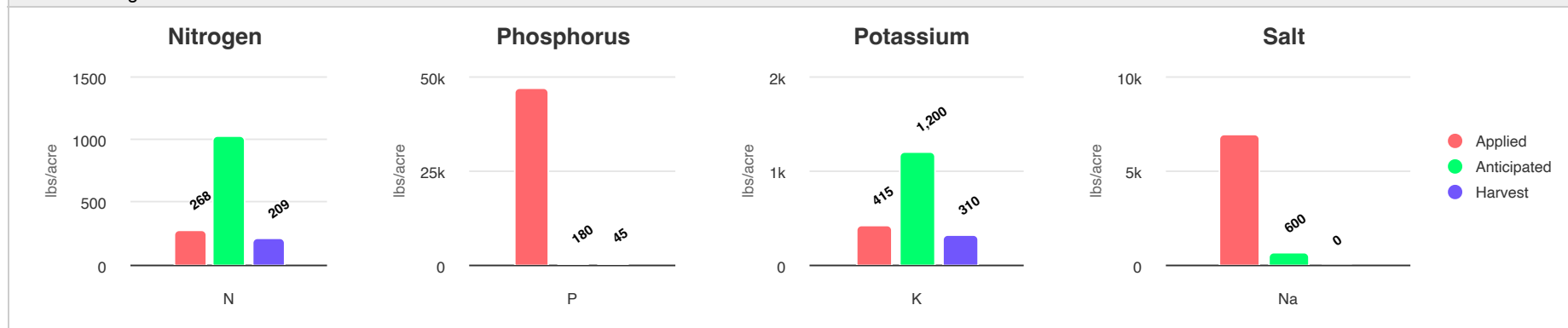
1 harvests

Field name: 333

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	137.71	40.35	156.20	5,555.88
Process wastewater	20.51	42,838.30	36.49	181.46
Fresh water	1.65	3,895.30	213.19	1,153.98
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	267.97	46,782.59	414.52	6,891.32
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	208.55	45.15	309.96	0.00
Nutrient balance	59.42	46,737.43	104.57	6,891.32
Applied to removed ratio	1.28	1,036.06	1.34	0.00

Fresh water applied

32,754,103.18 gallons
 1,206.22 acre-inches
 17.19 inches/acre

Process wastewater applied

544,949.05 gallons
 20.07 acre-inches
 0.29 inches/acre

Total Harvests for the crop

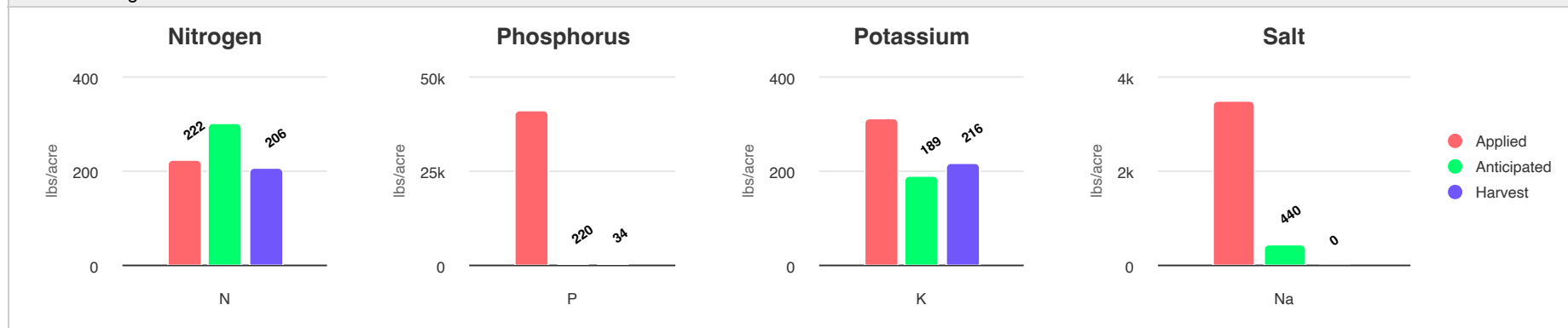
1 harvests

Field name: 333

Crop: Milo

Plant date: 08/01/2023

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	35.39	0.00	0.00	0.00
Dry manure	138.88	30.49	77.84	2,106.72
Process wastewater	31.98	37,162.82	24.94	259.24
Fresh water	1.61	3,797.17	207.80	1,124.92
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	221.86	40,990.48	310.58	3,490.88
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	206.22	33.99	216.41	0.00
Nutrient balance	15.63	40,956.49	94.17	3,490.88
Applied to removed ratio	1.08	1,205.98	1.44	0.00

Fresh water applied

31,929,058.72 gallons
 1,175.84 acre-inches
 16.76 inches/acre

Process wastewater applied

762,166.48 gallons
 28.07 acre-inches
 0.40 inches/acre

Total Harvests for the crop

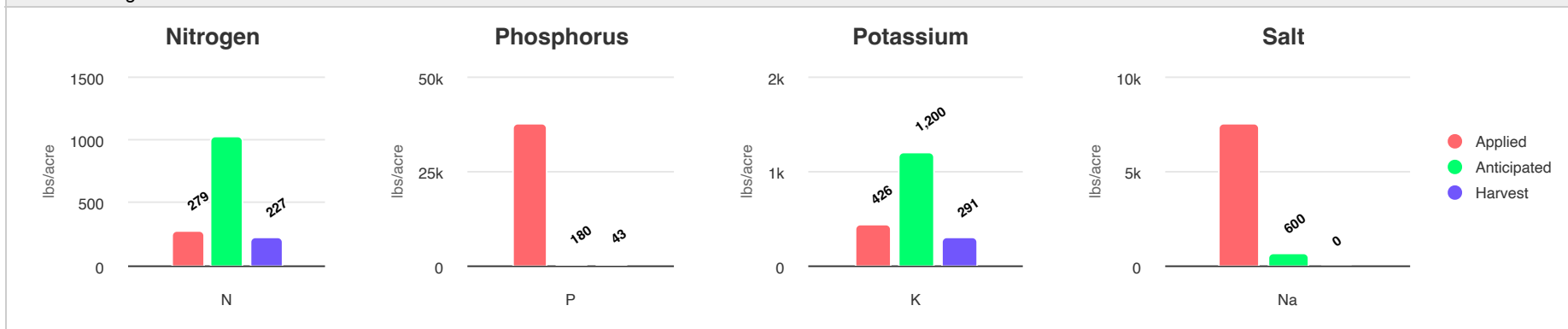
1 harvests

Field name: 334

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	153.01	44.83	173.56	6,173.20
Process wastewater	15.99	33,401.89	28.45	141.49
Fresh water	1.67	3,932.00	215.19	1,164.86
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	278.77	37,387.36	425.84	7,479.55
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	227.46	42.94	291.38	0.00
Nutrient balance	51.32	37,344.42	134.46	7,479.55
Applied to removed ratio	1.23	870.64	1.46	0.00

Fresh water applied

26,631,159.95 gallons
 980.74 acre-inches
 17.35 inches/acre

Process wastewater applied

342,251.54 gallons
 12.60 acre-inches
 0.22 inches/acre

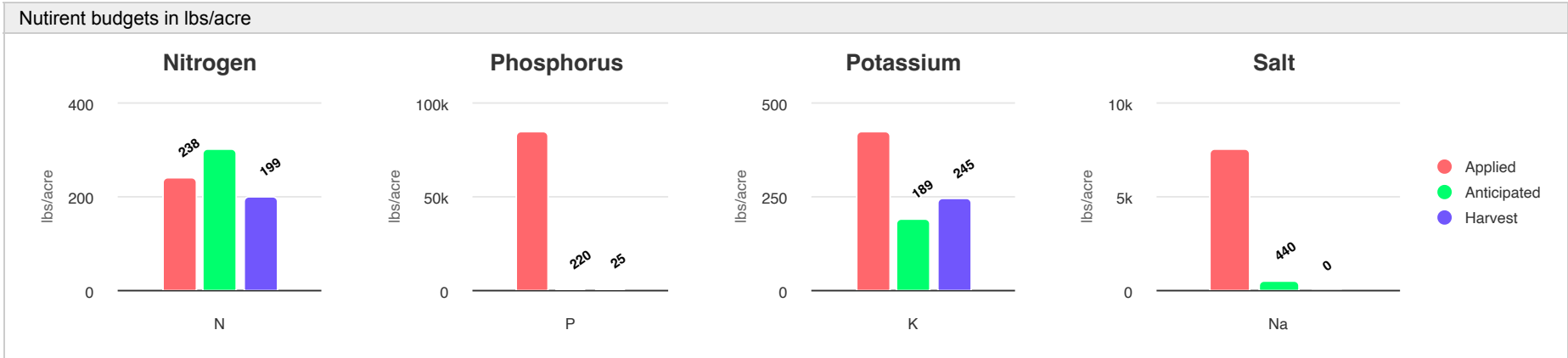
Total Harvests for the crop

1 harvests

Field name: 335

Crop: Milo

Plant date: 04/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	35.39	0.00	0.00	0.00
Dry manure	153.01	44.83	173.56	6,173.20
Process wastewater	33.96	80,350.98	43.39	239.69
Fresh water	1.56	3,714.92	203.31	1,100.55
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	237.92	84,110.73	420.26	7,513.44
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	198.68	25.22	244.77	0.00
Nutrient balance	39.24	84,085.51	175.49	7,513.44
Applied to removed ratio	1.20	3,334.80	1.72	0.00

Fresh water applied	
30,725,448.77	gallons
1,131.51	acre-inches
16.39	inches/acre

Process wastewater applied	
1,126,387.37	gallons
41.48	acre-inches
0.60	inches/acre

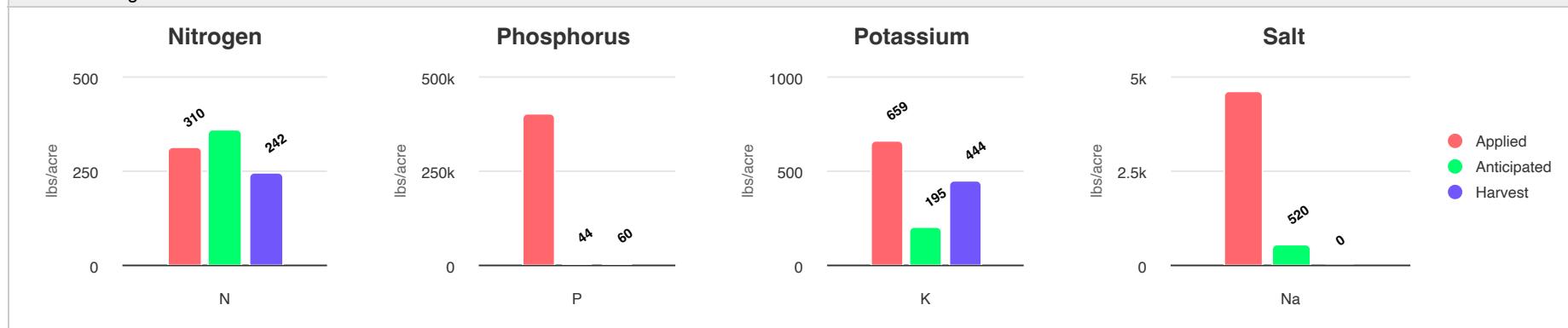
Total Harvests for the crop	
1	harvests

Field name: 335

Crop: Triticale

Plant date: 10/15/2022

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	113.41	29.73	147.96	1,506.20
Process wastewater	194.78	397,654.35	314.22	2,046.91
Fresh water	1.52	3,588.93	196.41	1,063.22
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	309.71	401,273.01	658.59	4,616.33
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	242.46	60.11	444.18	0.00
Nutrient balance	67.25	401,212.90	214.42	4,616.33
Applied to removed ratio	1.28	6,675.86	1.48	0.00

Fresh water applied

29,683,400.76 gallons
 1,093.14 acre-inches
 15.84 inches/acre

Process wastewater applied

5,107,164.25 gallons
 188.08 acre-inches
 2.73 inches/acre

Total Harvests for the crop

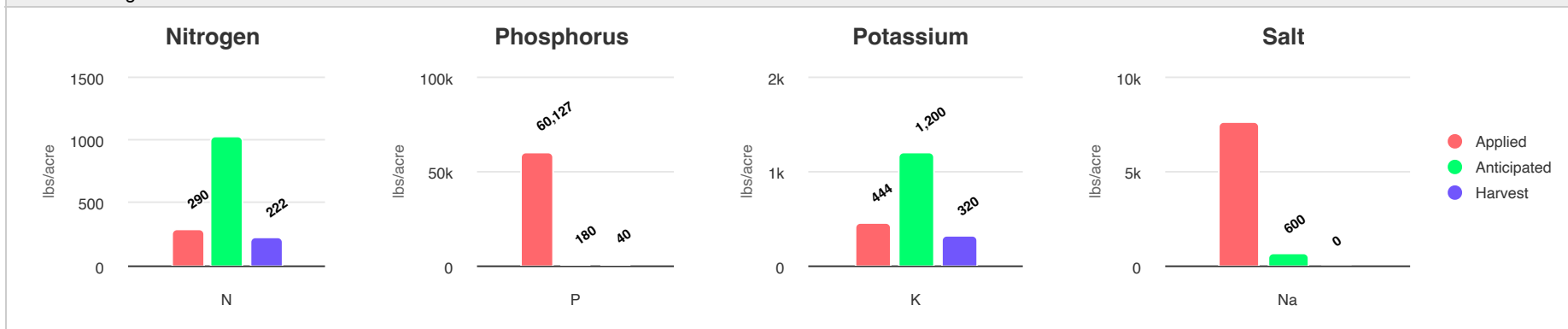
1 harvests

Field name: 336

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	153.01	44.83	173.56	6,173.20
Process wastewater	26.90	56,169.10	47.85	237.93
Fresh water	1.65	3,904.36	213.68	1,156.66
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	289.66	60,126.93	443.73	7,567.79
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	221.54	39.51	320.13	0.00
Nutrient balance	68.12	60,087.42	123.60	7,567.79
Applied to removed ratio	1.31	1,521.88	1.39	0.00

Fresh water applied

37,041,135.73 gallons
 1,364.10 acre-inches
 17.23 inches/acre

Process wastewater applied

806,176.78 gallons
 29.69 acre-inches
 0.38 inches/acre

Total Harvests for the crop

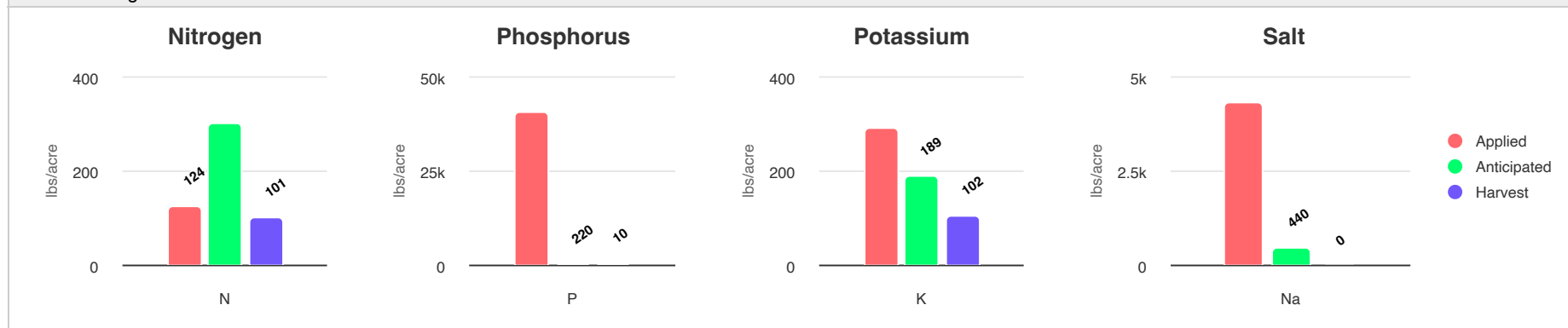
1 harvests

Field name: 336

Crop: Milo

Plant date: 07/30/2023

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	76.51	22.42	86.78	3,086.60
Process wastewater	31.98	37,162.82	24.94	259.24
Fresh water	1.39	3,271.23	179.02	969.10
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	123.88	40,456.47	290.74	4,314.94
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	100.68	9.66	101.79	0.00
Nutrient balance	23.20	40,446.81	188.94	4,314.94
Applied to removed ratio	1.23	4,187.93	2.86	0.00

Fresh water applied

31,034,580.97 gallons
 1,142.90 acre-inches
 14.44 inches/acre

Process wastewater applied

859,921.91 gallons
 31.67 acre-inches
 0.40 inches/acre

Total Harvests for the crop

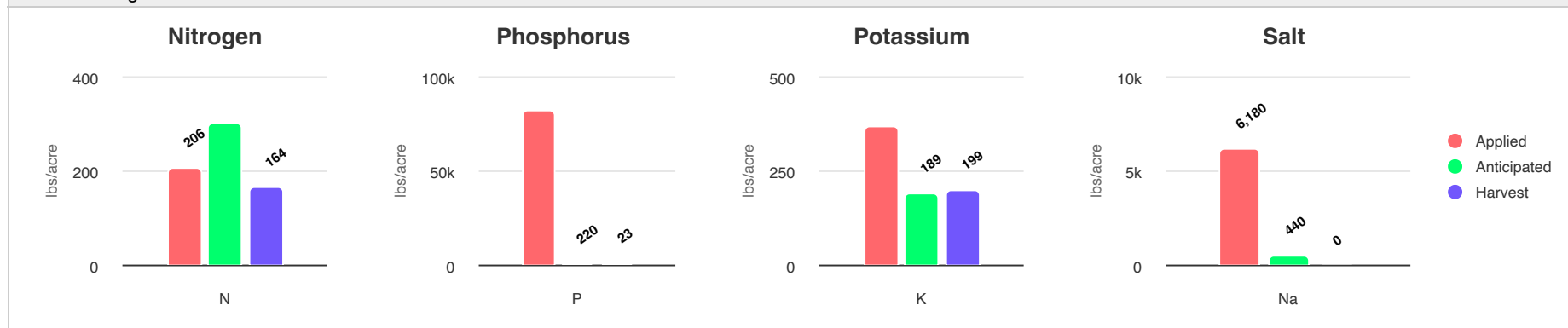
1 harvests

Field name: 337

Crop: Milo

Plant date: 04/15/2023

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	35.39	0.00	0.00	0.00
Dry manure	122.41	35.87	138.85	4,938.56
Process wastewater	33.22	78,612.94	42.45	234.51
Fresh water	1.43	3,399.03	186.03	1,006.96
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	206.45	82,047.84	367.33	6,180.03
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	163.65	23.13	199.44	0.00
Nutrient balance	42.80	82,024.71	167.89	6,180.03
Applied to removed ratio	1.26	3,547.31	1.84	0.00

Fresh water applied

30,731,862.46 gallons
 1,131.75 acre-inches
 15.00 inches/acre

Process wastewater applied

1,204,688.97 gallons
 44.36 acre-inches
 0.59 inches/acre

Total Harvests for the crop

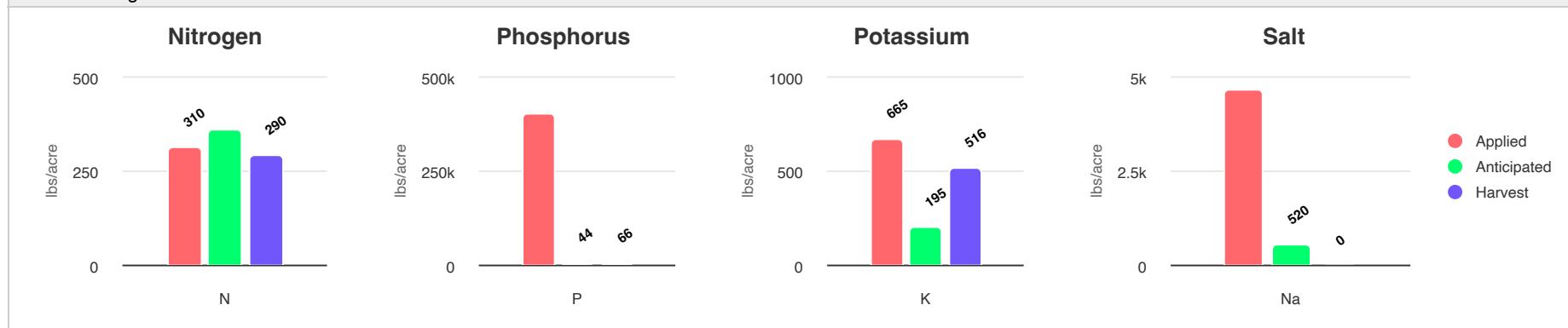
1 harvests

Field name: 337

Crop: Triticale

Plant date: 10/15/2022

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	113.41	29.73	147.96	1,506.20
Process wastewater	194.78	397,654.35	314.22	2,046.91
Fresh water	1.58	3,714.01	203.26	1,100.28
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	309.77	401,398.09	665.44	4,653.39
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	290.25	66.03	515.64	0.00
Nutrient balance	19.52	401,332.06	149.81	4,653.39
Applied to removed ratio	1.07	6,079.24	1.29	0.00

Fresh water applied

33,579,679.89 gallons
 1,236.63 acre-inches
 16.39 inches/acre

Process wastewater applied

5,582,954.89 gallons
 205.60 acre-inches
 2.73 inches/acre

Total Harvests for the crop

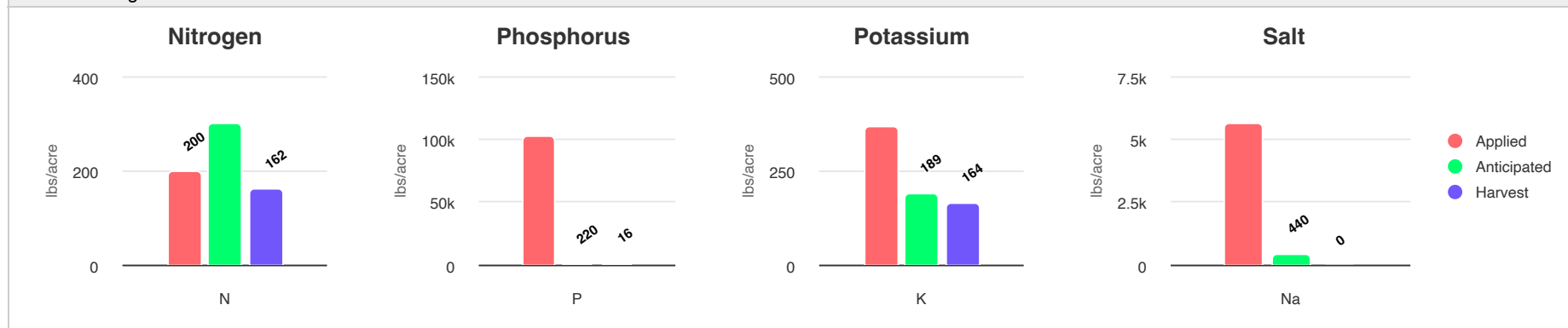
1 harvests

Field name: 338

Crop: Milo

Plant date: 04/15/2023

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	35.39	0.00	0.00	0.00
Dry manure	107.11	31.38	121.49	4,321.24
Process wastewater	41.98	99,335.75	53.65	296.32
Fresh water	1.46	3,467.01	189.75	1,027.10
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	199.94	102,834.14	364.89	5,644.66
Anticipated crop nutrient removal	299.20	220.00	189.20	440.00
Actual crop nutrient removal	162.09	15.55	163.89	0.00
Nutrient balance	37.85	102,818.59	201.00	5,644.66
Applied to removed ratio	1.23	6,611.71	2.23	0.00

Fresh water applied

30,395,097.18 gallons
 1,119.35 acre-inches
 15.30 inches/acre

Process wastewater applied

1,476,049.47 gallons
 54.36 acre-inches
 0.74 inches/acre

Total Harvests for the crop

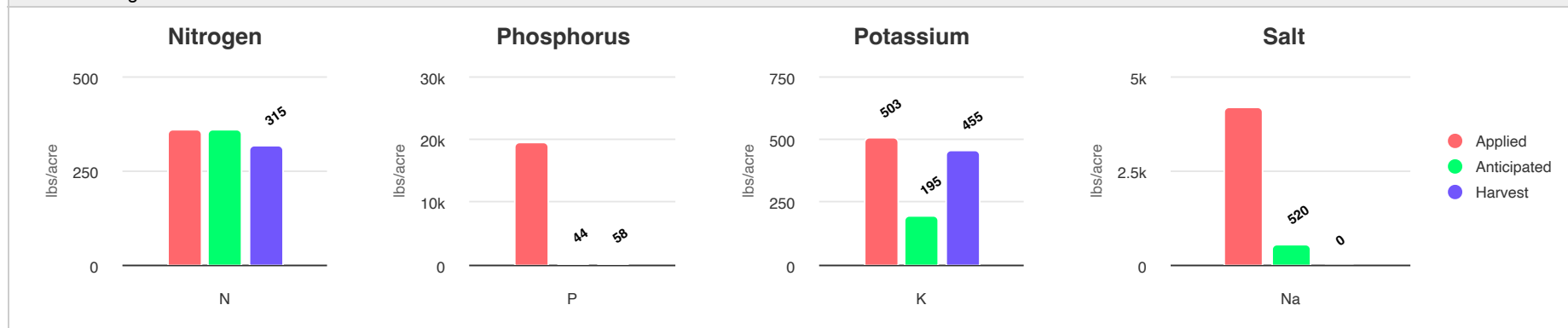
1 harvests

Field name: 338

Crop: Triticale

Plant date: 10/15/2022

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	123.87	0.00	0.00	0.00
Dry manure	226.82	59.45	295.92	3,012.40
Process wastewater	7.97	15,786.04	11.14	101.01
Fresh water	1.52	3,579.86	195.92	1,060.53
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	360.18	19,425.35	502.98	4,173.94
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	314.57	58.46	455.36	0.00
Nutrient balance	45.60	19,366.89	47.62	4,173.94
Applied to removed ratio	1.14	332.31	1.10	0.00

Fresh water applied

31,384,427.12 gallons
 1,155.78 acre-inches
 15.80 inches/acre

Process wastewater applied

222,500.06 gallons
 8.19 acre-inches
 0.11 inches/acre

Total Harvests for the crop

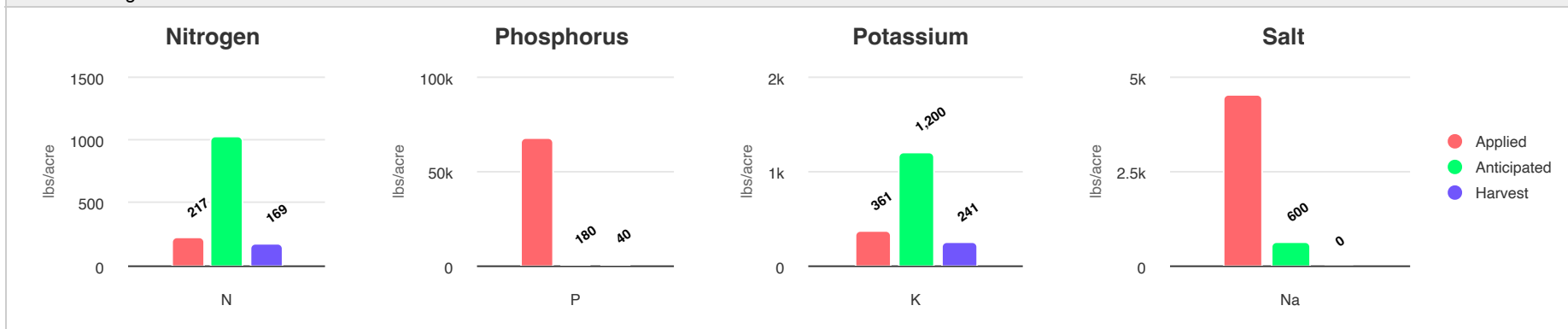
1 harvests

Field name: 341(342)

Crop: Corn, Early Silage

Plant date: 03/25/2023

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	94.10	8.64	8.64	0.00
Dry manure	76.51	22.42	86.78	3,086.60
Process wastewater	30.48	63,658.31	54.23	269.66
Fresh water	1.63	3,855.19	210.99	1,142.11
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	216.72	67,544.56	360.64	4,498.37
Anticipated crop nutrient removal	1,020.00	180.00	1,200.00	600.00
Actual crop nutrient removal	169.27	39.55	240.62	0.00
Nutrient balance	47.44	67,505.01	120.02	4,498.37
Applied to removed ratio	1.28	1,707.83	1.50	0.00

Fresh water applied

56,116,208.43 gallons
 2,066.57 acre-inches
 17.01 inches/acre

Process wastewater applied

1,401,833.26 gallons
 51.62 acre-inches
 0.43 inches/acre

Total Harvests for the crop

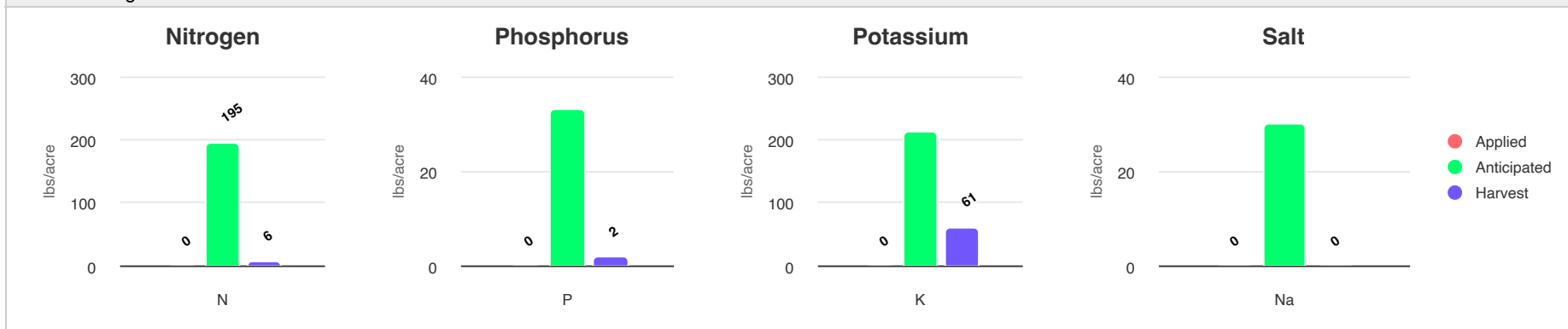
1 harvests

Field name: 3AL

Crop: Almond

Plant date: 01/02/2021

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	170.58	28.80	28.80	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.20	7,575.78	414.60	2,244.32
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	0.00	0.00	0.00	0.00
Anticipated crop nutrient removal	195.00	33.00	211.50	30.00
Actual crop nutrient removal	6.40	2.02	60.57	0.00
Nutrient balance	-6.40	-2.02	-60.57	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

94,023,131.77 gallons
 3,462.55 acre-inches
 33.43 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

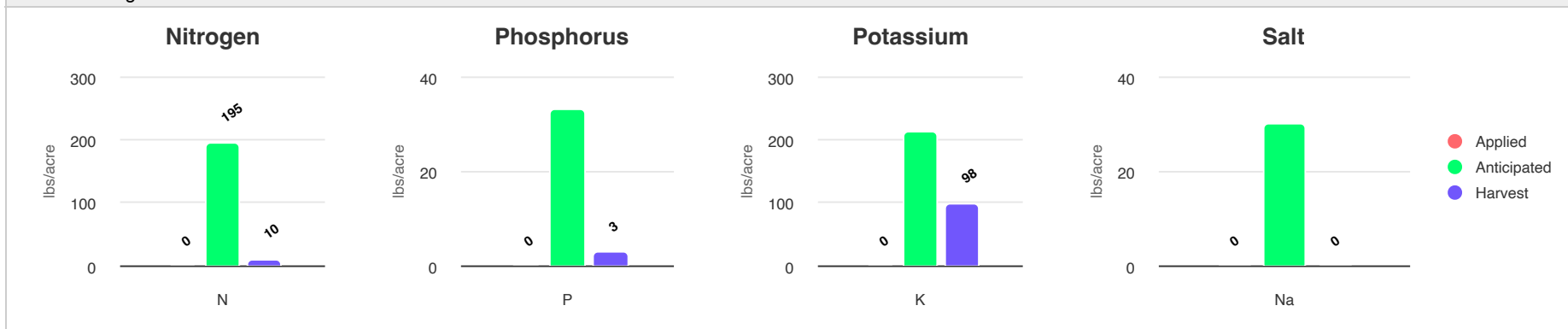
2 harvests

Field name: 4AL

Crop: Almond

Plant date: 01/02/2021

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	177.66	28.80	28.80	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.33	7,827.51	428.38	2,318.91
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	0.00	0.00	0.00	0.00
Anticipated crop nutrient removal	195.00	33.00	211.50	30.00
Actual crop nutrient removal	10.11	3.07	97.64	0.00
Nutrient balance	-10.11	-3.07	-97.64	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

96,303,481.42 gallons
 3,546.53 acre-inches
 34.54 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

2 harvests

NUTRIENT ANALYSES

A. MANURE ANALYSES

T3090011A

Sample and source description name: T3090011A

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

Moisture: 49.4%

	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	15,120.00	4,430.00	17,150.00	11,780.00	7,630.00	4,970.00	4,300.00	958.00	17,150.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3090011B

Sample and source description name: T3090011B

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

Moisture: 78.8%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	14,740.00	1,620.00	2,560.00	6,020.00	2,480.00	1,260.00	2,400.00	416.00	2,560.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167055A

Sample and source description name: T3167055A

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

Moisture: 7.6%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	25,050.00	5,500.00	14,040.00	11,940.00	6,890.00	4,730.00	3,000.00	952.00	14,040.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167055B

Sample and source description name: T3167055B

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

Moisture:

72.1%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	19,460.00	1,100.00	1,120.00	5,320.00	1,950.00	980.00	1,500.00	360.00	1,120.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263083A

Sample and source description name: T3263083A

Sample date: 09/15/2023

Material type: Corral solids

Source of analysis: Lab Analysis

Method of reporting: As-is

Moisture: 6.4%

	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	23,400.00	6,230.00	18,400.00	14,890.00	6,390.00	5,750.00	3,870.00	1,179.00	18,400.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263083B

Sample and source description name: T3263083B

Sample date: 09/15/2023

Material type: Corral solids

Source of analysis: Lab Analysis

Method of reporting: As-is

Moisture: 73.3%

	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	13,700.00	1,390.00	2,800.00	5,720.00	1,780.00	1,000.00	2,300.00	384.00	2,800.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362044A

Sample and source description name: T3362044A

Sample date: 12/22/2023

Material type: Corral solids

Source of analysis: Lab Analysis

Method of reporting: As-is

Moisture: 42.2%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	14,680.00	5,200.00	19,730.00	13,130.00	6,560.00	6,510.00	2,870.00	1,122.00	19,730.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362044B

Sample and source description name: T3362044B

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

Moisture: 78.9%

	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	20,770.00	7,580.00	28,270.00	17,920.00	6,880.00	5,560.00	3,360.00	1,341.00	28,270.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

B. PROCESS WASTEWATER ANALYSES

T3089022A

Sample and source description name: T3089022A

Sample date: 03/17/2023 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	316.40	0.00	226.80	0.12	66.10	563.06	150.68	71.81	215.12	0.00	0.00	162.89	209.84	4.35	2,800.00
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

T3167018A

Sample and source description name: T3167018A

Sample date: 06/12/2023 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	249.20	0.00	212.80	0.12	59.00	318.62	89.74	64.57	157.72	0.00	0.00	210.65	109.89	3.68	1,760.00
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

T3263051A

Sample and source description name: T3263051A

Sample date: 09/15/2023 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)
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Value	352.80	0.00	282.80	0.08	41.00	275.17	65.40	49.58	189.77	0.00	0.00	179.92	147.24	4.51	2,860.00
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

T3362090A

Sample and source description name: T3362090A
Sample date: 12/22/2023 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	103.60	0.00	61.60	0.01	16.20	105.18	26.81	18.68	100.85	0.00	0.00	135.96	48.52	1.49	840.00
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

Canal - Buena Vista

T3362072A-1893

Sample and source description name: T3362072A-1893
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	5.61	0.00	0.01	17.65	5.28	28.42	0.00	0.00	20.73	29.20	0.27	175.00
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-178-1892

Sample and source description name: T3362072C-178-1892
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

BWS

T3362057A

Sample and source description name: T3362057A

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	2.85	0.00	0.05	3.67	0.07	65.55	0.00	0.00	46.07	17.96	0.34	115.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

BWN

T3362057B

Sample and source description name: T3362057B

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	0.00	0.00	0.00	4.30	0.05	67.47	0.00	0.00	46.62	17.93	0.33	135.00
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

3AL

T2236029A

Sample
description: T2236029A

Sample date: 08/22/2022

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	24.00	0.00	0.00	50.40	3.83	0.70	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

E. PLANT TISSUE ANALYSES

283 - 10/05/2022: Triticale

T3139018C

Sample description: T3139018C

Sample date: 05/15/2023 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	11,020.00	2,630.00	15,950.00	190.00	0.00
DL	100.00	200.00	500.00		0.10

327 - 01/01/2023: Alfalfa

T3167025B

Sample description: T3167025B

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	28,350.00	2,320.00	21,590.00	1,360.00	0.00
DL	100.00	200.00	500.00		0.10

294P - 01/01/2023: Pistachio

ATS-H9143017F

Sample description: ATS-H9143017F

Sample date: 05/18/2023 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	18,300.00	3,520.00	16,600.00	0.01	0.00
DL	100.00	200.00	500.00		0.10

296P - 01/01/2023: Pistachio

ATS-T1005013D-2

Sample description: ATS-T1005013D-2

Sample date: 09/01/2023 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	17,500.00	2,800.00	34,000.00	0.06	0.00
DL	100.00	200.00	500.00		0.10

297A - 01/01/2023: Alfalfa

T3167022C

Sample description: T3167022C

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	23,870.00	1,840.00	18,690.00	3,090.00	0.00
DL	100.00	200.00	500.00		0.10

2962P - 01/01/2023: Pistachio

ATS-T1005013F

Sample description: ATS-T1005013F

Sample date: 09/01/2023 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	17,200.00	2,800.00	32,000.00	0.06	0.00
DL	100.00	200.00	500.00		0.10

2972A - 01/01/2023: Alfalfa

T3167022B

Sample description: T3167022B

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	25,110.00	1,720.00	17,910.00	1,420.00	0.00
DL	100.00	200.00	500.00		0.10

291 - 01/01/2023: Alfalfa

T3167022A

Sample description: T3167022A

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	25,990.00	2,210.00	24,380.00	180.00	0.00
DL	100.00	200.00	500.00		0.10

321 - 01/01/2023: Alfalfa

T3167022D

Sample description: T3167022D

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	25,960.00	2,050.00	20,660.00	3,260.00	0.00
DL	100.00	200.00	500.00		0.10

322 - 01/01/2023: Alfalfa

T3167022E

Sample description: T3167022E

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	23,600.00	1,720.00	23,190.00	1,620.00	0.00
DL	100.00	200.00	500.00		0.10

325 - 01/01/2023: Alfalfa

T3167022F

Sample description: T3167022F

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	34,460.00	3,190.00	23,990.00	560.00	0.00
DL	100.00	200.00	500.00		0.10

326 - 01/01/2023: Alfalfa

T3167025A

Sample description: T3167025A
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	39,940.00	3,570.00	29,190.00	860.00	0.00
DL	100.00	200.00	500.00		0.10

1AL - 01/01/2023: Almond

ATS-T1258024A

Sample description: ATS-T1258024A
Sample date: 09/13/2023 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	16,700.00	2,200.00	58,000.00	0.04	0.00
DL	100.00	200.00	500.00		0.10

2AL - 01/01/2023: Almond

ATS-T0282016B

Sample description: ATS-T0282016B

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	11,100.00	2,800.00	41,000.00	0.04	0.00
DL	100.00	200.00	500.00		0.10

3AL - 01/01/2023: Almond

ATS-T0282013D

Sample description: ATS-T0282013D

Sample date: 09/25/2023 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	5,070.00	1,600.00	48,000.00	0.03	0.00
DL	100.00	200.00	500.00		0.10

4AL - 01/01/2023: Almond

ATS-T0282013E

Sample description: ATS-T0282013E

Sample date: 09/25/2023 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	5,590.00	1,700.00	54,000.00	0.04	0.00
DL	100.00	200.00	500.00		0.10

2963P - 01/01/2023: Pistachio

ATS-T1005014A-2

Sample description: ATS-T1005014A-2

Sample date: 09/01/2023 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	16,300.00	2,500.00	29,000.00	0.05	0.00
DL	100.00	200.00	500.00		0.10

2P - 01/01/2023: Pistachio

ATS-15100352A-2

Sample description: ATS-15100352A-2

Sample date: 10/14/2023 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	13,800.00	2,180.00	24,500.00	0.00	0.00
DL	100.00	200.00	500.00		0.10

332 - 10/05/2022: Triticale

T3139019C

Sample description: T3139019C

Sample date: 05/15/2023 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	19,310.00	4,880.00	35,220.00	210.00	0.00
DL	100.00	200.00	500.00		0.10

324 - 10/05/2022: Triticale

T3139018F

Sample description: T3139018F
Sample date: 05/15/2023 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	15,190.00	3,790.00	24,470.00	190.00	0.00
DL	100.00	200.00	500.00		0.10

314B - 10/05/2022: Triticale

T3139018E

Sample description: T3139018E
Sample date: 05/15/2023 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	12,650.00	2,630.00	14,780.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

331 - 10/05/2022: Triticale

T3139019B

Sample description: T3139019B

Sample date: 05/15/2023 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	16,420.00	4,330.00	32,040.00	190.00	0.00
DL	100.00	200.00	500.00		0.10

335 - 10/05/2022: Triticale

T3139019D

Sample description: T3139019D

Sample date: 05/15/2023 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	15,530.00	3,850.00	28,450.00	190.00	0.00
DL	100.00	200.00	500.00		0.10

282 - 10/05/2022: Triticale

T3139018B

Sample description: T3139018B

Sample date: 05/15/2023 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	16,290.00	3,570.00	23,730.00	210.00	0.00
DL	100.00	200.00	500.00		0.10

314A - 10/05/2022: Triticale

T3139018D

Sample description: T3139018D

Sample date: 05/15/2023 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	9,970.00	2,660.00	16,020.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

337 - 10/05/2022: Triticale

T3139019E

Sample description: T3139019E

Sample date: 05/15/2023 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	14,990.00	3,410.00	26,630.00	170.00	0.00
DL	100.00	200.00	500.00		0.10

328 - 10/05/2022: Triticale

T3139019A

Sample description: T3139019A

Sample date: 05/15/2023 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	17,270.00	4,000.00	26,280.00	180.00	0.00
DL	100.00	200.00	500.00		0.10

338 - 10/05/2022: Triticale

T3139019F

Sample description: T3139019F
Sample date: 05/15/2023 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	17,920.00	3,330.00	25,940.00	190.00	0.00
DL	100.00	200.00	500.00		0.10

281 - 10/05/2022: Triticale

T3139018A

Sample description: T3139018A
Sample date: 05/15/2023 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	17,600.00	3,780.00	26,480.00	320.00	0.00
DL	100.00	200.00	500.00		0.10

312 - 03/15/2023: Corn, Early Silage

T3228040C

Sample description: T3228040C

Sample date: 08/11/2023 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	13,300.00	2,350.00	14,100.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

317 - 03/15/2023: Corn, Early Silage

T3228039A

Sample description: T3228039A

Sample date: 08/11/2023 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	12,100.00	2,180.00	13,130.00	60.00	0.00
DL	100.00	200.00	500.00		0.10

313 - 03/15/2023: Corn, Early Silage

T3228040D

Sample description: T3228040D

Sample date: 08/11/2023 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	10,500.00	2,640.00	15,180.00	60.00	0.00
DL	100.00	200.00	500.00		0.10

336 - 03/15/2023: Corn, Early Silage

T3228039F

Sample description: T3228039F

Sample date: 08/11/2023 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	12,000.00	2,140.00	17,340.00	50.00	0.00
DL	100.00	200.00	500.00		0.10

316 - 03/15/2023: Corn, Early Silage

T3228040F

Sample description: T3228040F

Sample date: 08/11/2023 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	13,000.00	2,550.00	18,070.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

341(342) - 02/02/2023: Corn, Early Silage

T3228041A

Sample description: T3228041A

Sample date: 08/11/2023 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	10,700.00	2,500.00	15,210.00	60.00	0.00
DL	100.00	200.00	500.00		0.10

318 - 03/15/2023: Corn, Early Silage

T3228039B

Sample description: T3228039B
Sample date: 08/11/2023 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	10,600.00	2,270.00	16,800.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

311 - 03/15/2023: Corn, Early Silage

T3228040B

Sample description: T3228040B
Sample date: 08/11/2023 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	9,400.00	2,580.00	18,000.00	60.00	0.00
DL	100.00	200.00	500.00		0.10

334 - 03/15/2023: Corn, Early Silage

T3228039E

Sample description: T3228039E
Sample date: 08/11/2023 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	11,600.00	2,190.00	14,860.00	40.00	0.00
DL	100.00	200.00	500.00		0.10

323 - 03/15/2023: Corn, Early Silage

T3228039C

Sample description: T3228039C
Sample date: 08/11/2023 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	9,100.00	2,440.00	15,820.00	50.00	0.00
DL	100.00	200.00	500.00		0.10

315 - 03/15/2023: Corn, Early Silage

T3228040E

Sample description: T3228040E
Sample date: 08/11/2023 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	11,100.00	2,660.00	13,690.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

333 - 03/15/2023: Corn, Early Silage

T3228039D

Sample description: T3228039D

Sample date: 08/11/2023 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	10,900.00	2,360.00	16,200.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

292 - 03/15/2023: Corn, Early Silage

T3228040A

Sample description: T3228040A

Sample date: 08/11/2023 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	11,600.00	2,650.00	16,780.00	90.00	0.00
DL	100.00	200.00	500.00		0.10

282 - 04/15/2023: Milo

T3342018A

Sample description: T3342018A

Sample date: 11/03/2023 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	18,020.00	1,720.00	21,880.00	140.00	0.00
DL	100.00	200.00	500.00		0.10

328 - 04/15/2023: Milo

T3342017C

Sample description: T3342017C
Sample date: 11/03/2023 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	13,860.00	1,510.00	17,460.00	190.00	0.00
DL	100.00	200.00	500.00		0.10

283 - 04/15/2023: Milo

T3342018B

Sample description: T3342018B
Sample date: 11/03/2023 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	13,350.00	1,840.00	20,840.00	310.00	0.00
DL	100.00	200.00	500.00		0.10

338 - 04/15/2023: Milo

T3342016A

Sample description: T3342016A
Sample date: 11/03/2023 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	15,320.00	1,470.00	15,490.00	540.00	0.00
DL	100.00	200.00	500.00		0.10

324 - 04/15/2023: Milo

T3342017B

Sample description: T3342017B
Sample date: 11/03/2023 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	18,980.00	2,970.00	19,830.00	220.00	0.00
DL	100.00	200.00	500.00		0.10

314A - 04/15/2023: Milo

T3342018D

Sample description: T3342018D
Sample date: 11/03/2023 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	18,170.00	4,440.00	23,460.00	190.00	0.00
DL	100.00	200.00	500.00		0.10

331 - 04/15/2023: Milo

T3342017D

Sample description: T3342017D

Sample date: 11/03/2023 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	19,840.00	3,270.00	20,820.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

281 - 04/15/2023: Milo

T3342017F

Sample description: T3342017F

Sample date: 11/03/2023 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	15,170.00	1,750.00	20,800.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

314B - 04/15/2023: Milo

T3342017A

Sample description: T3342017A

Sample date: 11/03/2023 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	14,320.00	1,810.00	20,570.00	280.00	0.00
DL	100.00	200.00	500.00		0.10

337 - 04/15/2023: Milo

T3342018F

Sample description: T3342018F
Sample date: 11/03/2023 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	15,000.00	2,120.00	18,280.00	240.00	0.00
DL	100.00	200.00	500.00		0.10

332 - 04/15/2023: Milo

T3342017E

Sample description: T3342017E
Sample date: 11/03/2023 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	16,000.00	1,680.00	18,740.00	220.00	0.00
DL	100.00	200.00	500.00		0.10

292 - 04/15/2023: Milo

T3362055B

Sample description: T3362055B

Sample date: 10/25/2023 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	17,950.00	2,980.00	25,630.00	640.00	0.00
DL	100.00	200.00	500.00		0.10

335 - 04/15/2023: Milo

T3342018E

Sample description: T3342018E

Sample date: 11/03/2023 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	17,330.00	2,200.00	21,350.00	210.00	0.00
DL	100.00	200.00	500.00		0.10

316 - 07/24/2023: Milo

ATS-T3342018B

Sample description: ATS-T3342018B

Sample date: 11/03/2023 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	13,350.00	1,840.00	20,840.00	310.00	0.00
DL	100.00	200.00	500.00		0.10

318 - 07/24/2023: Milo

ATS-T3342017B

Sample description: ATS-T3342017B

Sample date: 11/03/2023 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	18,980.00	2,970.00	19,830.00	220.00	0.00
DL	100.00	200.00	500.00		0.10

333 - 07/24/2023: Milo

ATS-T3342017D

Sample description: ATS-T3342017D

Sample date: 11/03/2023 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	19,840.00	3,270.00	20,820.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

336 - 07/24/2023: Milo

ATS-T3342016A

Sample description: ATS-T3342016A

Sample date: 11/03/2023 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	15,320.00	1,470.00	15,490.00	540.00	0.00
DL	100.00	200.00	500.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

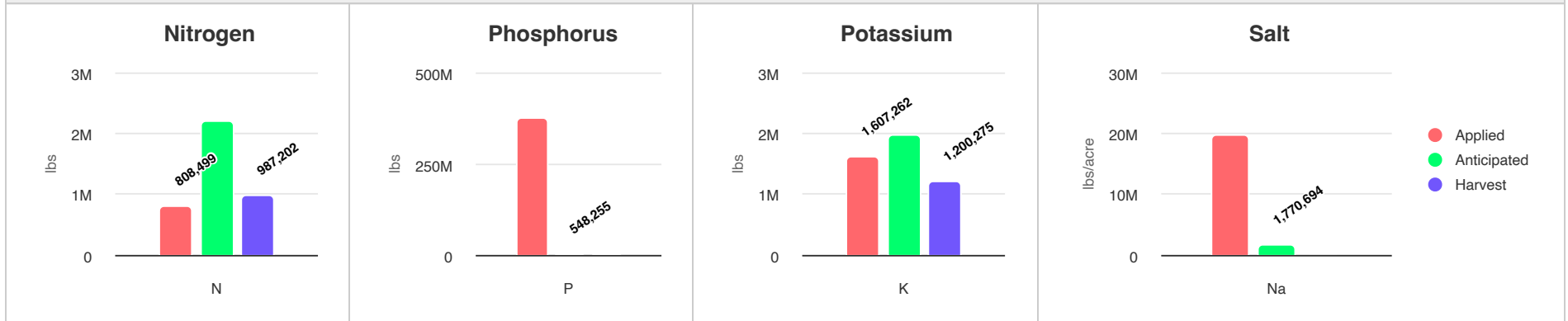
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

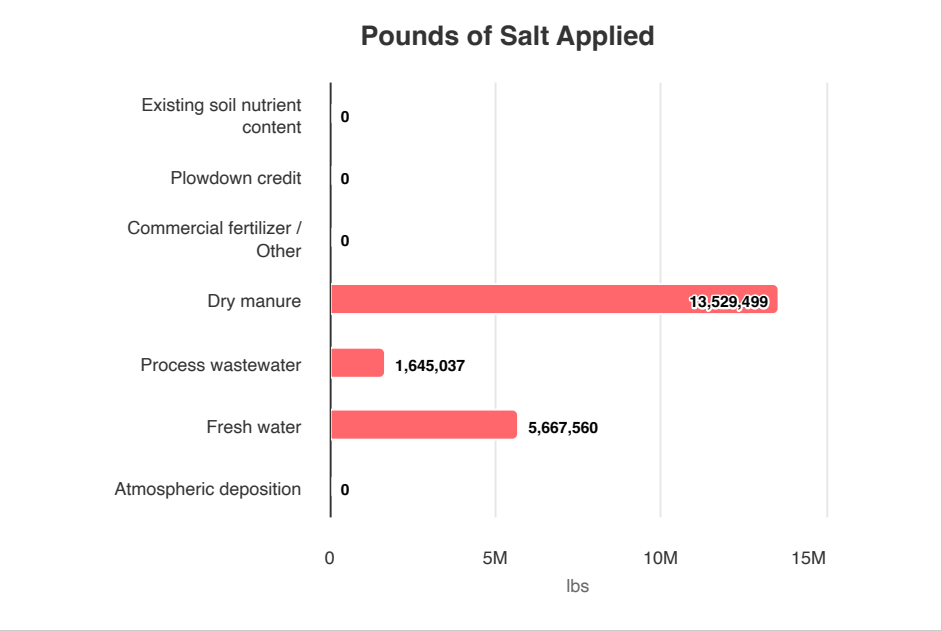
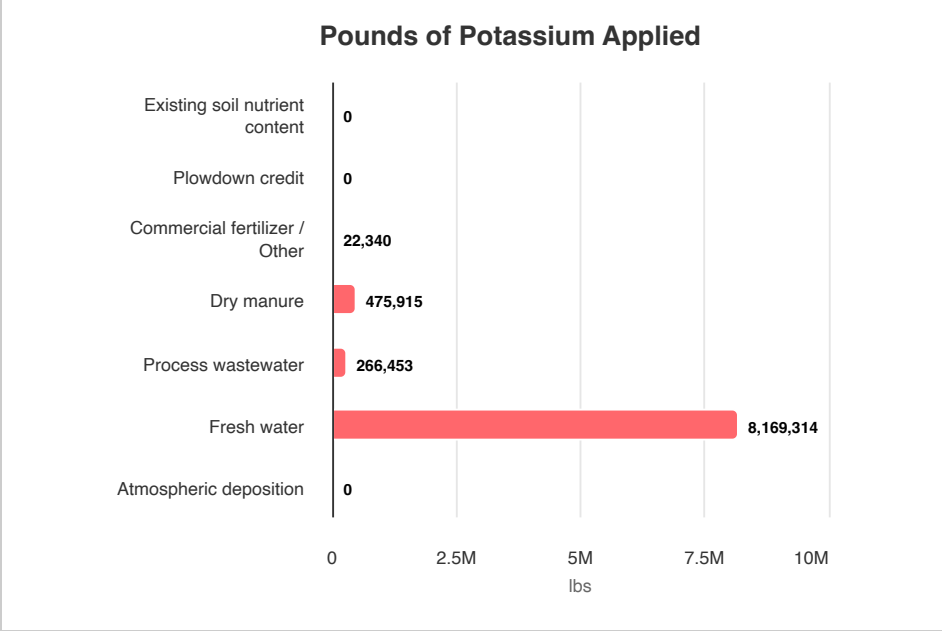
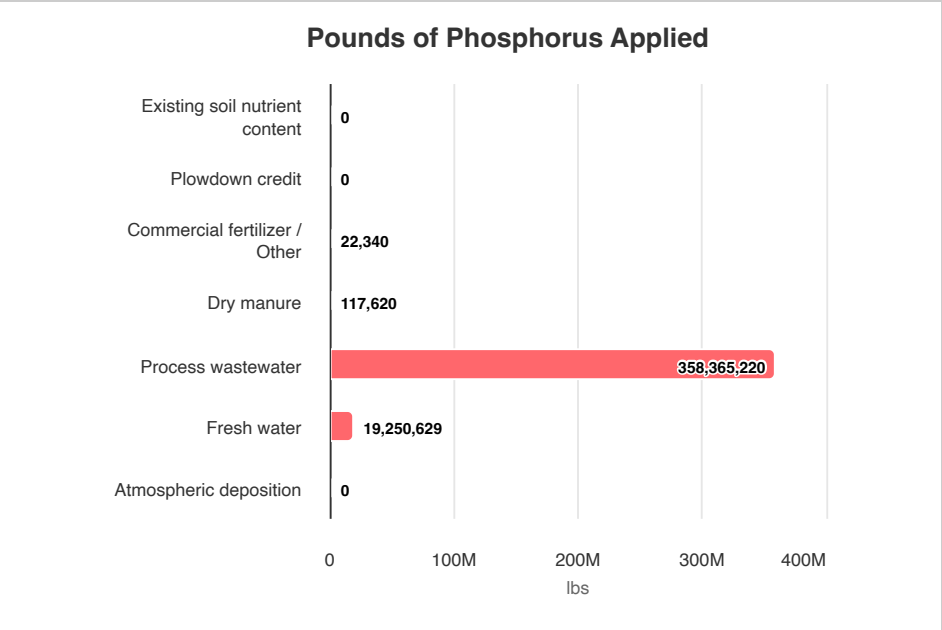
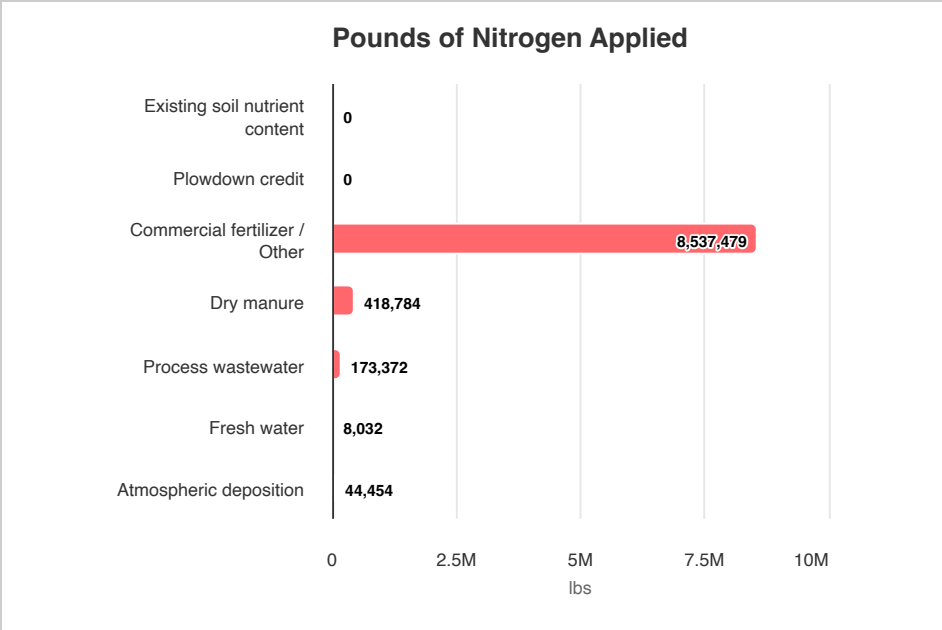
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	8,537,479.43	22,340.20	22,340.20	0.00
Dry manure	418,784.43	117,620.04	475,915.45	0.00
Process wastewater	173,372.31	358,365,219.59	266,453.44	0.00
Fresh water	8,032.04	19,250,629.41	8,169,313.67	2,318.91
Atmospheric deposition	44,454.20	0.00	0.00	0.00
Total nutrients applied	808,498.93	374,081,749.27	1,607,262.19	19,792,204.40
Anticipated crop nutrient removal	2,203,348.91	548,255.45	1,978,296.82	1,770,694.21
Actual crop nutrient removal	987,202.15	150,663.51	1,200,274.98	0.00
Nutrient balance	-178,703.22	373,931,085.75	406,987.20	19,792,204.40
Applied to removed ratio	0.82	2,482.90	1.34	0.00

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>
---	-----------

A. NOTES**Crop Specific Notes**

- **1AL (Almond):** Tree Nut Crop - N ratios dont apply
- **2AL (Almond):** Tree Nut Crop - N ratios dont apply
- **2P (Pistachio):** Tree Nut Crop - N ratios dont apply
- **3AL (Almond):** Tree Nut Crop - N ratios dont apply
- **4AL (Almond):** Tree Nut Crop - N ratios dont apply
- **316 (Milo):** poor germination resulted in low crop yield.
- **336 (Milo):** Sugarcane aphid attacked this field which caused low yield.

Well Specific Notes

2023 Non Op Wells: 105, 108, 17, 18, 5

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

AJ Bos

PRINT OR TYPE NAME

6/29/2024

DATE



SIGNATURE OF OPERATOR OF FACILITY

AJ Bos

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: AJ Bos
Facility Name: Maple Dairy
Facility Address: 15857 Bear Mountain Blvd
Facility City/State: Bakersfield, CA 93311

Contact:

Name: AJ Bos
Number: (661) 396-9600

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.

Manure Hauler / Processor Information:

Name: Reddi Ag
Facility Address: 13214 Eberle rd
Facility City/State: Bakersfield, CA 93313

Contact:

Name: Sid Payne
Number: 661-979-3359

Manure Destination Farmer

Destination Information:

Name: Grimmway Farms
Facility Address: PO Box 81498
Facility City/State: Bakersfield, CA

Contact:

Name: Grimmway Farms
Number: (661) 845-5289

Signature of Owner:



Date:

12/30/2023

Signature of Hauler:



Date:

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Apr 1, 2023 - Apr, 30 2023	12,648	ton	68 %
May 1, 2023 - May, 31 2023	10,790	ton	68 %
Jun 1, 2023 - Jun, 30 2023	11,065	ton	66 %
Jul 1, 2023 - Jul, 31 2023	10,647	ton	68 %
Aug 1, 2023 - Aug, 31 2023	11,258	ton	70 %
Sep 1, 2023 - Sep, 30 2023	13,645	ton	70 %
Total	70,053		

**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

Maple Dairy
15857 Bear Mountain Blvd.
Bakersfield, CA 93311

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

Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BWS	T3362057A	Boron (B)	EPA 200.7	0.290	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
BWS	T3362057A	Electrical Conductivity (EC)	EPA 120.1 and	0.337	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	80.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	46.1	mg/L
		Sodium (Na)	EPA 200.7	65.6	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	115	mg/L
		Calcium (Ca)	EPA 200.7	3.67	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	18.0	mg/L
		Soluble Salts (SALT-SOL)	Calculation	215	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)	91.0	107 (T4002005B)	111 (T4002005B)			3.30
Chloride (Cl)	102	106 (T3361018C)	105 (T3361018C)			1.12
Magnesium (Mg)	93.7	110 (T4002005B)	113 (T4002005B)			3.05
Nitrate Nitrogen (NO ₃ -N)	102	107 (T3361018C)	104 (T3361018C)			2.48
Sodium (Na)	96.4			479 (T4002005B)	482 (DUP)	0.724
Sulfate (SO ₄)	104	112 (T3361018C)	109 (T3361018C)			2.42
Total Dissolved Solids (TDS)	97.0			235 (T3362060A)	240 (Dup)	2.11

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Compliance Analysis Report

Customer

Maple Dairy
15857 Bear Mountain Blvd.
Bakersfield, CA 93311

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
BWS	T3362057A	pH (pH)	SM4500-H+ B-2000	7.9	S.U.

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

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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
BWS	T3362057A	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.85	%

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: 1/3/24

Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BWN	T3362057B	Boron (B)	EPA 200.7	0.310	ppm

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

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Grower

Consultant:

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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
BWN	T3362057B	Electrical Conductivity (EC)	EPA 120.1 and	0.332	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	46.6	mg/L
		Sodium (Na)	EPA 200.7	67.5	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	135	mg/L
		Calcium (Ca)	EPA 200.7	4.30	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	17.9	mg/L
		Soluble Salts (SALT-SOL)	Calculation	213	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)	102	106 (T3361018C)	105 (T3361018C)			1.12
Magnesium (Mg)	102	114 (T3361018C)	117 (T3361018C)			2.48
Nitrate Nitrogen (NO ₃ -N)	102	107 (T3361018C)	104 (T3361018C)			2.48
Sodium (Na)	90.4	119 (T3361018C)	118 (T3361018C)			1.43
Sulfate (SO ₄)	104	112 (T3361018C)	109 (T3361018C)			2.42
Total Dissolved Solids (TDS)	97.0			235 (T3362060A)	240 (Dup)	2.11

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Compliance Analysis Report

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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: 1/8/24

pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BWN	T3362057B	pH (pH)	SM4500-H+ B-2000	7.9	S.U.

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

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Bakersfield, CA 93311

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
BWN	T3362057B	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	12/27/23
Sampled By	Dominic P
Lab Name	Daniel

Maple Dairy

Ranch: MAPLE DAIRY

***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:				 23-03	CHAIN Maple Dairy BWS Ranch: MAPLE DAIRY Date: 12-27-23 2p IW No Lat/Lng
Analysis	Weather	Temp (°F)	# of Bags/Bottles			
W2	SW	68°	1			
2.	Location:				 23-03	CHAIN Maple Dairy BWN Ranch: MAPLE DAIRY Date: 12/27/23 2:15p IW 35.208116, -119.178455
Analysis	Weather	Temp (°F)	# of Bags/Bottles			
W2	SW	68°	1			
3.	Location:					Place CHAIN Label Here Place additional labels on sample bags/bottles
Analysis	Weather	Temp (°F)	# of Bags/Bottles			
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	Daniel	ICON Ag		12/28 10:12A	Logged in By:	Laboratory #
2nd	Albert Matias			12-28-23 10:12		
3rd						
4th	Daniel		12-28-23 12:00		T3362057	