

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:Trilogy Dairy

Physical address of dairy:

17661 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:

0184-0130-0076-0000 0184-0130-0081-0000 0184-0130-0084-0000**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

Bakersfield

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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	469	0	0	0	0
Number under roof	4,126	0	0	0	0	0
Maxiumu number	4,130	480	0	0	0	0
Average number	4,126	469	0	0	0	0
Average live weight (lbs)	1400	1450	1100	300		

Predominant milk cow breed: Holsteins

Average Milk Production: 78 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 116,587.93 tons per reporting period

Total nitrogen from manure: 1,520,020.25 lbs per reporting period

After ammonia losses (30% loss applied): 1,064,014.17 lbs per reporting period

Total phosphorus from manure: 254,876.60 lbs per reporting period

Total potassium from manure: 811,853.33 lbs per reporting period

Total salt from manure: 2,050,573.65 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 10,082,983.65 gallons

Total nitrogen generated: 55,895.77 lbs

Total phosphorus generated: 34,118,787.39 lbs

Total potassium generated: 56,494.54 lbs

Total salt generated: 542,211.55 lbs

	10,082,983.65 gallons applied
+	0 gallons exported
-	0 gallons imported
=	10,082,983.65 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
1	Ground Water
2	Ground Water
3	Ground Water
6	Ground Water
7	Ground Water
8	Ground Water
BARN WELL	Ground Water
Canal - Buena Vista	Surface Water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No fresh water sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	TFS (%)
02/22/2023	Separator solids	8,869 tons	as-is	64.2	27,600.00	10.00	24,520.00	28.00
03/28/2023	Separator solids	8,863 tons	as-is	68.2	25,470.00	6,770.00	28,270.00	27.00
05/03/2023	Separator solids	12,485 tons	as-is	67.8	25,470.00	6,770.00	28,270.00	27.00
05/31/2023	Separator solids	9,645 tons	as-is	70.1	25,470.00	6,770.00	28,270.00	27.00
07/02/2023	Separator solids	8,653 tons	as-is	68.5	25,190.00	5,800.00	7,110.00	28.00
07/17/2023	Separator solids	9,798 tons	as-is	70.4	25,190.00	5,800.00	7,110.00	28.00
10/02/2023	Separator solids	9,754 tons	as-is	68.6	23,200.00	5,630.00	14,050.00	39.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	3,450,499.20	743,684.24	2,723,740.60	39,643,540.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	3,450,499.20	743,684.24	2,723,740.60	39,643,540.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
0P	41.11	37.51	1	NONE	0184-0130-0084-0000
1P	123.62	113.86	1	NONE	0184-0130-0084-0000
3PA	55.04	49.35	1	NONE	0184-0130-0084-0000
4PB (2951)	74.70	73.93	1	NONE	0184-0130-0081-0000
4PA	90.57	90.57	1	NONE	0184-0130-0084-0000
51P	68.16	68.00	1	NONE	0184-0130-0084-0000
52P	62.39	60.84	0	NONE	0184-0130-0084-0000
61	48.26	49.00	2	BOTH	0184-0130-0076-0000
62	36.74	39.00	2	PROCESS WASTEWATER	0184-0130-0076-0000
71	57.43	57.00	2	BOTH	0184-0130-0076-0000
72	50.07	52.00	1	BOTH	0184-0130-0076-0000
Totals for areas that were used for application	708.09	691.06	13.00		
Totals for areas that were not used for application	17.03	17.03			
Land application area totals	708.09	708.09	13.00		

B. CROPS AND HARVESTS

0P

Field Name: 0P

01/01/2017: Pistachio

Crop: Pistachio Acres planted: 37.51 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 (%)
09/12/2023	177,422.29 pound	As-is		0.00	1,305.50	525.00	19,250.00	0.02	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	2.37	6.18	2.48	91.05	0.00

Field Name: 1P

01/02/2022: Pistachio

Crop: Pistachio Acres planted: 113.86 Plant date: 01/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/10/2023	574,309.84 pound	As-is		0.00	13,125.00	1,610.00	18,200.00	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	2.52	66.20	8.12	91.80	0.00

Field Name: 3PA

01/02/2022: Pistachio

Crop: Pistachio Acres planted: 49.35 Plant date: 01/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	219,311.39 pound	As-is		0.00	1,774.50	560.00	16,800.00	0.01	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.60	94.08	7.68	45.76	32.00
Total actual harvest content	2.22	7.89	2.49	74.66	0.00

4PB (2951)

Field Name: 4PB (2951)

01/02/2022: Pistachio

Crop: Pistachio Acres planted: 73.93 Plant date: 01/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	277,459.29 pound	As-is		0.00	7,140.00	700.00	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	1.60	94.08	7.68	45.76	32.00
Total actual harvest content	1.88	26.80	2.63	0.00	0.00

Field Name: 4PA

01/02/2022: Pistachio

Crop: Pistachio Acres planted: 90.57 Plant date: 01/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	308,300.28 pound	As-is		0.00	7,140.00	700.00	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	1.60	94.08	7.68	45.76	32.00
Total actual harvest content	1.70	24.30	2.38	0.00	0.00

Field Name: 51P

01/02/2022: Pistachio

Crop: Pistachio Acres planted: 68 Plant date: 01/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	206,924.00 pound	As-is		0.00	4,445.00	822.50	7,525.00	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	1.52	13.53	2.50	22.90	0.00

Field Name: 52P

01/02/2022: Pistachio

Crop: Pistachio Acres planted: 60.84 Plant date: 01/02/2022

No Harvest Data Available

Field Name: 61

11/20/2022: Triticale

Crop: Triticale Acres planted: 49 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/13/2023	869.85 ton	As-is		0.00	6,012.00	1,332.00	14,760.00	0.11	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	17.75	213.45	47.29	524.04	0.00

05/20/2023: Sudan

Crop: Sudan Acres planted: 49 Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/03/2023	951.38 ton	As-is		0.00	3,048.00	669.60	8,174.40	168.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	360.00	66.00	495.00	300.00
Total actual harvest content	19.42	118.36	26.00	317.43	0.00

Field Name: 62

11/20/2022: Triticale

Crop: Triticale Acres planted: 39 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/14/2023	383.41 ton	As-is		0.00	5,472.00	1,044.00	10,080.00	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	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	9.83	107.59	20.53	198.19	0.00

05/20/2023: Sudan

Crop: Sudan Acres planted: 39 Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/04/2023	582.54 ton	As-is		0.00	3,120.00	652.80	8,428.80	187.20	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	360.00	66.00	495.00	300.00
Total actual harvest content	14.94	93.21	19.50	251.80	0.00

Field Name: 71

11/20/2022: Triticale

Crop: Triticale Acres planted: 57 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/13/2023	1,071.94 ton	As-is		0.00	5,400.00	1,080.00	11,880.00	0.10	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	18.81	203.10	40.62	446.83	0.00

05/20/2023: Sudan

Crop: Sudan Acres planted: 57 Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/03/2023	1,029.19 ton	As-is		0.00	3,144.00	756.00	8,983.20	182.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	360.00	66.00	495.00	300.00
Total actual harvest content	18.06	113.54	27.30	324.40	0.00

Field Name: 72

11/20/2022: Triticale

Crop: Triticale Acres planted: 52 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/14/2023	978.38 ton	As-is		0.00	5,796.00	1,260.00	15,480.00	0.01	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	18.82	218.10	47.41	582.51	0.00

05/28/2023: Corn Silage

Crop: Corn Silage Acres planted: 52 Plant date: 05/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/12/2023	968.66 ton	As-is		0.00	4,340.00	808.50	4,826.50	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	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	18.63	161.69	30.12	179.82	0.00

NUTRIENT BUDGET

A. LAND APPLICATIONS

0P

Field name: 0P

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
02/15/2023	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	0.01	1,090.18	26,600.51	190.78	4,900,278.59 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	187.55 <i>Gal.</i>
Application event totals		17.71	1,090.18	26,600.51	190.78	

03/07/2023	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	0.00	312.71	7,630.16	54.72	1,405,608.94 <i>gal</i>
Application event totals		0.00	312.71	7,630.16	54.72	

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	0.00	295.72	7,215.48	51.75	1,329,217.10 <i>gal</i>
Application event totals		0.00	295.72	7,215.48	51.75	

03/27/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	187.55 <i>Gal.</i>
Well Water	Ground water	0.00	269.66	6,579.63	47.19	1,212,083.13 <i>gal</i>
Application event totals		17.70	269.66	6,579.63	47.19	

04/08/2023	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
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Well Water	Ground water	0.00	298.89	7,292.88	52.31	1,343,476.96 <i>gal</i>
Steric 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.30	6.91	6.91	0.00	450.12 <i>Gal.</i>
Application event totals		2.30	305.80	7,299.79	52.31	

04/20/2023	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	0.00	220.71	5,385.34	38.62	992,074.70 <i>gal</i>
Application event totals		0.00	220.71	5,385.34	38.62	

05/02/2023	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	0.00	277.13	6,762.09	48.50	1,245,695.52 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	375.10 <i>Gal.</i>
Application event totals		35.39	277.13	6,762.09	48.50	

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	0.00	261.73	6,386.11	45.80	1,176,433.55 <i>gal</i>
Application event totals		0.00	261.73	6,386.11	45.80	

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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	187.55 <i>Gal.</i>
Well Water	Ground water	0.01	605.03	14,762.70	105.88	2,719,547.82 <i>gal</i>
Application event totals		17.71	605.03	14,762.70	105.88	

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	0.01	597.78	14,585.77	104.61	2,686,953.92 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	300.08 <i>Gal.</i>
Application event totals		28.32	597.78	14,585.77	104.61	

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	0.01	622.48	15,188.44	108.93	2,797,976.63 <i>gal</i>		
Application event totals			0.01	622.48	15,188.44	108.93			

07/01/2023		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	0.01	653.30	15,940.40	114.33	2,936,500.32 <i>gal</i>		
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	187.55 <i>Gal.</i>		
Application event totals			17.71	653.30	15,940.40	114.33			

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		
Aqua Amonia		Commercial fertilizer / Other: Liquid commercial fertilizer	114,553.13	0.00	0.00	0.00	74.08 <i>Ac. In.</i>		
Application event totals			114,553.13	0.00	0.00	0.00			

Field name: 1P

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	569.30 <i>Gal.</i>
Well Water	Ground water	0.01	976.43	23,824.90	170.88	13,322,510.12 <i>gal</i>
Application event totals		17.71	976.43	23,824.90	170.88	

03/07/2023	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	0.00	300.02	7,320.53	52.50	4,093,525.96 <i>gal</i>
Application event totals		0.00	300.02	7,320.53	52.50	

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	0.00	233.63	5,700.50	40.88	3,187,632.43 <i>gal</i>
Application event totals		0.00	233.63	5,700.50	40.88	

03/27/2023	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	0.00	261.73	6,386.11	45.80	3,571,013.87 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	569.30 <i>Gal.</i>
Application event totals		17.70	261.73	6,386.11	45.80	

04/08/2023	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
Steric 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.30	6.91	6.91	0.00	1,366.32 <i>Gal.</i>
Well Water	Ground water	0.00	313.39	7,646.75	54.84	4,275,941.44 <i>gal</i>

Application event totals		2.30	320.30	7,653.66	54.84	
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	0.00	209.38	5,108.89	36.64	2,856,811.24 <i>gal</i>
Application event totals		0.00	209.38	5,108.89	36.64	
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	0.00	201.22	4,909.84	35.21	2,745,506.87 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	1,138.60 <i>Gal.</i>
Application event totals		35.39	201.22	4,909.84	35.21	
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	0.00	287.11	7,005.37	50.24	3,917,293.97 <i>gal</i>
Application event totals		0.00	287.11	7,005.37	50.24	
05/26/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	493.77	12,047.91	86.41	6,737,003.51 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	569.30 <i>Gal.</i>
Application event totals		17.70	493.77	12,047.91	86.41	
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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	910.88 <i>Gal.</i>
Well Water	Ground water	0.01	558.35	13,623.71	97.71	7,618,163.07 <i>gal</i>
Application event totals		28.32	558.35	13,623.71	97.71	
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	0.01	670.74	16,366.14	117.38	9,151,689.56 <i>gal</i>
Application event totals		0.01	670.74	16,366.14	117.38	

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	0.00	491.27	11,987.09	85.97	6,702,994.11 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	569.30 <i>Gal.</i>
Application event totals		17.70	491.27	11,987.09	85.97	

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	0.00	459.10	11,201.96	80.34	6,263,960.48 <i>gal</i>
Application event totals		0.00	459.10	11,201.96	80.34	

Field name: 3PA

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
02/20/2023	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	861.09	21,010.59	150.69	5,092,242.96 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	246.75 <i>Gal.</i>
Application event totals		17.71	861.09	21,010.59	150.69	

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	285.52	6,966.67	49.97	1,688,480.57 <i>gal</i>
Application event totals		0.00	285.52	6,966.67	49.97	

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	319.51	7,796.03	55.91	1,889,490.13 <i>gal</i>
Application event totals		0.00	319.51	7,796.03	55.91	

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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	246.75 <i>Gal.</i>
Well Water	Ground water	0.00	275.32	6,717.86	48.18	1,628,177.75 <i>gal</i>
Application event totals		17.70	275.32	6,717.86	48.18	

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	329.71	8,044.84	57.70	1,949,793.11 <i>gal</i>
Steric 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.30	6.91	6.91	0.00	592.20 <i>Gal.</i>

Application event totals		2.30	336.62	8,051.75	57.70	
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	224.34	5,473.81	39.26	1,326,663.33 <i>gal</i>
Application event totals		0.00	224.34	5,473.81	39.26	
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	58,001.58	0.00	0.00	0.00	49.35 <i>Ac. In.</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	493.50 <i>Gal.</i>
Application event totals		58,036.97	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	226.60	5,529.10	39.66	1,340,063.95 <i>gal</i>
Application event totals		0.00	226.60	5,529.10	39.66	
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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	246.75 <i>Gal.</i>
Well Water	Ground water	0.01	599.59	14,630.00	104.93	3,545,809.42 <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	605.71	14,779.29	106.00	3,581,991.08 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	394.80 <i>Gal.</i>
Application event totals		28.32	605.71	14,779.29	106.00	
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	686.61	16,753.18	120.16	4,060,393.74 <i>gal</i>
Application event totals		0.01	686.61	16,753.18	120.16	

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	528.44	12,893.86	92.48	3,125,029.16 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	246.75 <i>Gal.</i>
Application event totals		17.70	528.44	12,893.86	92.48	

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	513.48	12,528.94	89.86	3,036,584.96 <i>gal</i>
Application event totals		0.00	513.48	12,528.94	89.86	

Field name: 4PA

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
03/07/2023	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	0.00	309.31	7,547.22	54.13	3,357,031.39 <i>gal</i>
Application event totals		0.00	309.31	7,547.22	54.13	

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	0.00	285.52	6,966.67	49.97	3,098,798.16 <i>gal</i>
Application event totals		0.00	285.52	6,966.67	49.97	

03/27/2023	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	0.00	282.12	6,883.73	49.37	3,061,907.74 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	452.85 <i>Gal.</i>
Application event totals		17.70	282.12	6,883.73	49.37	

04/08/2023	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	0.00	336.50	8,210.72	58.89	3,652,155.04 <i>gal</i>
Steric 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	905.70 <i>Gal.</i>
Application event totals		1.92	342.26	8,216.48	58.89	

04/20/2023	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	0.00	224.34	5,473.81	39.26	2,434,770.03 <i>gal</i>
Application event totals		0.00	224.34	5,473.81	39.26	

05/02/2023	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	0.00	226.60	5,529.10	39.66	2,459,363.64 <i>gal</i>
CAN 17	Commercial fertilizer / Other: Liquid commercial fertilizer	21.49	0.00	0.00	0.00	905.70 <i>Gal.</i>
Application event totals		21.49	226.60	5,529.10	39.66	

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	0.00	222.07	5,418.52	38.86	2,410,176.41 <i>gal</i>
Application event totals		0.00	222.07	5,418.52	38.86	

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	0.01	617.95	15,077.86	108.14	6,706,684.64 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	452.85 <i>Gal.</i>
Application event totals		17.71	617.95	15,077.86	108.14	

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	0.01	630.18	15,376.43	110.28	6,839,490.62 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	724.56 <i>Gal.</i>
Application event totals		28.32	630.18	15,376.43	110.28	

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	0.01	707.00	17,250.80	123.72	7,673,214.27 <i>gal</i>
Application event totals		0.01	707.00	17,250.80	123.72	

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	0.00	523.45	12,772.22	91.60	5,681,129.86 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	452.85 <i>Gal.</i>

Application event totals		17.70	523.45	12,772.22	91.60	
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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	0.00	518.47	12,650.58	90.73	5,627,024.27 <i>gal</i>
Application event totals		0.00	518.47	12,650.58	90.73	

Field name: 4PB (2951)

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
03/09/2023	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	0.13	304.78	16.68	90.29	2,700,109.54 <i>gal</i>
Application event totals		0.13	304.78	16.68	90.29	
03/19/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.15	345.57	18.91	102.37	3,061,462.37 <i>gal</i>
Application event totals		0.15	345.57	18.91	102.37	
03/29/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.12	276.91	15.15	82.03	2,453,184.98 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	369.65 <i>Gal.</i>
Application event totals		17.82	276.91	15.15	82.03	
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
Steric 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	1.92	5.76	5.76	0.00	739.30 <i>Gal.</i>
Well Water	Ground water	0.10	242.46	13.27	71.83	2,148,042.59 <i>gal</i>
Application event totals		2.02	248.22	19.03	71.83	
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
Well Water	Ground water	0.10	241.33	13.21	71.49	2,138,005.02 <i>gal</i>
Application event totals		0.10	241.33	13.21	71.49	
05/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.11	265.35	14.52	78.61	2,350,801.64 <i>gal</i>
CAN 17	Commercial fertilizer / Other: Liquid commercial fertilizer	21.49	0.00	0.00	0.00	739.30 <i>Gal.</i>
Application event totals		21.60	265.35	14.52	78.61	

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
Well Water	Ground water	0.08	189.89	10.39	56.26	1,682,298.69 <i>gal</i>
Application event totals		0.08	189.89	10.39	56.26	

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
Well Water	Ground water	0.30	718.33	39.31	212.81	6,363,826.96 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	369.65 <i>Gal.</i>
Application event totals		18.00	718.33	39.31	212.81	

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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	591.44 <i>Gal.</i>
Well Water	Ground water	0.21	488.78	26.75	144.80	4,330,212.88 <i>gal</i>
Application event totals		28.52	488.78	26.75	144.80	

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
Well Water	Ground water	0.27	636.07	34.81	188.44	5,635,098.22 <i>gal</i>
Application event totals		0.27	636.07	34.81	188.44	

07/03/2023	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	0.26	608.43	33.30	180.25	5,390,181.27 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	369.65 <i>Gal.</i>

Application event totals		17.96	608.43	33.30	180.25	
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07/15/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.25	590.07	32.29	174.81	5,227,572.74 <i>gal</i>
Application event totals		0.25	590.07	32.29	174.81	

Field name: 51P

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
03/09/2023	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	0.00	261.27	6,375.05	45.72	2,129,004.60 <i>gal</i>
Application event totals		0.00	261.27	6,375.05	45.72	

03/21/2023	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	0.00	288.69	7,044.08	50.52	2,352,430.16 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	340.00 <i>Gal.</i>
Application event totals		17.70	288.69	7,044.08	50.52	

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
Well Water	Ground water	0.00	360.98	8,807.86	63.17	2,941,460.93 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	340.00 <i>Gal.</i>
Application event totals		17.70	360.98	8,807.86	63.17	

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
Well Water	Ground water	0.00	307.95	7,514.05	53.89	2,509,381.78 <i>gal</i>
Application event totals		0.00	307.95	7,514.05	53.89	

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	0.00	165.42	4,036.24	28.95	1,347,938.77 <i>gal</i>
Application event totals		0.00	165.42	4,036.24	28.95	

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	0.00	228.87	5,584.39	40.05	1,864,956.32 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	340.00 <i>Gal.</i>
Application event totals		17.70	228.87	5,584.39	40.05	

05/20/2023 Surface (Irrigation) No precipitation No precipitation No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	221.39	5,401.93	38.74	1,804,022.11 <i>gal</i>
Application event totals		0.00	221.39	5,401.93	38.74	

06/01/2023 Surface (Irrigation) No precipitation No precipitation No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	683.21	16,670.24	119.56	5,567,171.83 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	28.31	0.00	0.00	0.00	544.00 <i>Gal.</i>
Application event totals		28.32	683.21	16,670.24	119.56	

06/13/2023 Surface (Irrigation) No precipitation No precipitation No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	238.84	5,827.67	41.80	1,946,201.99 <i>gal</i>
Application event totals		0.00	238.84	5,827.67	41.80	

06/25/2023 Surface (Irrigation) No precipitation No precipitation No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	844.55	20,606.96	147.80	6,881,873.52 <i>gal</i>
Application event totals		0.01	844.55	20,606.96	147.80	

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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	340.00 <i>Gal.</i>
Well Water	Ground water	0.01	786.08	19,180.45	137.56	6,405,478.93 <i>gal</i>
Application event totals		17.71	786.08	19,180.45	137.56	

Field name: 52P

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
03/02/2023	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	0.00	277.36	6,767.62	48.54	2,022,129.65 <i>gal</i>
Application event totals		0.00	277.36	6,767.62	48.54	
03/14/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	288.69	7,044.08	50.52	2,104,733.11 <i>gal</i>
Application event totals		0.00	288.69	7,044.08	50.52	
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
Well Water	Ground water	0.00	239.97	5,855.32	42.00	1,749,538.70 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	304.20 <i>Gal.</i>
Application event totals		17.70	239.97	5,855.32	42.00	
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	0.00	259.23	6,325.29	45.37	1,889,964.44 <i>gal</i>
Application event totals		0.00	259.23	6,325.29	45.37	
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
Well Water	Ground water	0.00	280.08	6,833.97	49.01	2,041,954.39 <i>gal</i>
Application event totals		0.00	280.08	6,833.97	49.01	
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
Un 32	Commercial fertilizer / Other: Liquid	28.31	0.00	0.00	0.00	486.72 <i>Gal.</i>

	commercial fertilizer					
Well Water	Ground water	0.00	193.52	4,721.85	33.87	1,410,864.95 <i>gal</i>
Application event totals		28.31	193.52	4,721.85	33.87	

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	0.00	245.18	5,982.49	42.91	1,787,536.24 <i>gal</i>
Application event totals		0.00	245.18	5,982.49	42.91	

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	304.20 <i>Gal.</i>
Well Water	Ground water	0.00	533.20	13,009.98	93.31	3,887,312.92 <i>gal</i>
Application event totals		17.70	533.20	13,009.98	93.31	

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
Aqua Amonia	Commercial fertilizer / Other: Liquid commercial fertilizer	47,619.30	0.00	0.00	0.00	49.95 <i>Ac. In.</i>
Application event totals		47,619.30	0.00	0.00	0.00	

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	0.01	743.94	18,152.04	130.19	5,423,735.09 <i>gal</i>
Application event totals		0.01	743.94	18,152.04	130.19	

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	0.01	923.41	22,531.09	161.60	6,732,171.65 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	304.20 <i>Gal.</i>
Application event totals		17.71	923.41	22,531.09	161.60	

Field name: 61

Crop: Sudan

Plant date: 05/20/2023

05/20/2023: Sudan

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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	686.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
05/26/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	65.58	27,872.11	65.73	752.55	545,529.59 <i>gal</i>
Canal Water	Ground water	0.01	1,110.35	27,092.60	194.31	6,519,744.10 <i>gal</i>
Application event totals		65.59	28,982.46	27,158.33	946.86	
06/10/2023	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	48.30	20,530.19	48.42	554.32	401,829.10 <i>gal</i>
Well Water	Ground water	0.01	1,414.00	34,501.59	247.45	8,302,694.06 <i>gal</i>
Application event totals		48.31	21,944.19	34,550.01	801.77	
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
Canal Water	Ground water	0.01	1,373.21	33,506.35	240.31	8,063,193.49 <i>gal</i>
Lagoon Water Effluent	Process wastewater	33.27	14,140.00	33.35	381.78	276,756.48 <i>gal</i>
Application event totals		33.28	15,513.21	33,539.70	622.09	
07/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,427.60	34,833.34	249.83	8,382,528.22 <i>gal</i>
Application event totals		0.01	1,427.60	34,833.34	249.83	

11/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
11/20/2022	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	0.26	879.22	2.35	113.20	5,162,572.93 <i>gal</i>
Application event totals		0.26	879.22	2.35	113.20	

12/14/2022	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	0.23	779.51	2.08	100.36	4,577,126.46 <i>gal</i>
Lagoon Water Effluent	Process wastewater	18.17	16,063.85	17.97	200.33	184,947.84 <i>gal</i>
Application event totals		18.40	16,843.36	20.05	300.69	

01/07/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	34.51	30,509.76	34.13	380.47	351,267.84 <i>gal</i>
Canal Water	Ground water	0.00	1,008.38	2.70	171.42	5,920,991.72 <i>gal</i>
Application event totals		34.51	31,518.14	36.83	551.89	

02/01/2023	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	0.01	1,031.04	25,157.41	180.43	6,054,048.23 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.23	13,070.66	17.75	116.65	155,675.52 <i>gal</i>
Application event totals		17.24	14,101.70	25,175.16	297.08	

02/26/2023	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
Canal Water	Ground water	0.00	997.05	2.67	169.50	5,854,464.10 <i>gal</i>
Lagoon Water Effluent	Process wastewater	50.95	38,653.40	52.50	344.98	460,373.74 <i>gal</i>
Application event totals		50.95	39,650.45	55.17	514.48	

03/23/2023	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	0.01	1,042.37	25,433.87	182.42	6,120,575.85 <i>gal</i>
Lagoon Water Effluent	Process wastewater	58.45	44,350.87	60.23	395.83	528,232.34 <i>gal</i>
Application event totals		58.46	45,393.24	25,494.10	578.25	

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
Lagoon Water Effluent	Process wastewater	44.91	34,073.09	46.27	304.10	405,820.81 <i>gal</i>
Canal Water	Ground water	0.00	1,076.36	2.88	182.98	6,320,159.97 <i>gal</i>

Application event totals		44.91	35,149.45	49.15	487.08	
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
Canal Water	Ground water	0.01	961.25	23,454.45	168.22	5,644,235.00 <i>gal</i>
Lagoon Water Effluent	Process wastewater	43.98	18,694.71	44.09	504.76	365,904.01 <i>gal</i>
Application event totals		43.99	19,655.96	23,498.54	672.98	

Field name: 62

Crop: Sudan

Plant date: 05/20/2023

05/20/2023: Sudan

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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	546.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
05/26/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.01	1,121.68	27,369.05	196.29	5,242,134.63 <i>gal</i>
Lagoon Water Effluent	Process wastewater	41.59	17,675.00	41.68	477.22	275,344.45 <i>gal</i>
Application event totals		41.60	18,796.68	27,410.73	673.51	
06/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.01	1,346.02	32,842.86	235.55	6,290,561.86 <i>gal</i>
Application event totals		0.01	1,346.02	32,842.86	235.55	
06/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,346.02	32,842.86	235.55	6,290,561.86 <i>gal</i>
Lagoon Water Effluent	Process wastewater	47.66	20,258.27	47.78	546.97	315,587.12 <i>gal</i>
Application event totals		47.67	21,604.29	32,890.64	782.52	
07/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,441.19	35,165.09	252.21	6,735,349.14 <i>gal</i>
Application event totals		0.01	1,441.19	35,165.09	252.21	

11/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
11/20/2022	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	0.33	852.03	2.22	103.66	3,981,904.43 <i>gal</i>
Application event totals		0.33	852.03	2.22	103.66	
12/14/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	734.19	1.96	124.81	3,431,215.54 <i>gal</i>
Application event totals		0.00	734.19	1.96	124.81	
01/07/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	27.84	24,615.83	27.54	306.97	225,570.65 <i>gal</i>
Canal Water	Ground water	0.00	997.05	2.67	169.50	4,659,675.51 <i>gal</i>
Application event totals		27.84	25,612.88	30.21	476.47	
02/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	951.73	2.54	161.79	4,447,871.78 <i>gal</i>
Application event totals		0.00	951.73	2.54	161.79	
02/26/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,087.69	26,539.69	190.35	5,083,282.47 <i>gal</i>
Lagoon Water Effluent	Process wastewater	21.64	16,422.11	22.30	146.57	155,675.52 <i>gal</i>
Application event totals		21.65	17,509.80	26,561.99	336.92	
03/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,076.36	26,263.23	188.36	5,030,331.41 <i>gal</i>
Application event totals		0.01	1,076.36	26,263.23	188.36	
04/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,121.68	27,369.05	196.29	5,242,134.63 <i>gal</i>
Lagoon Water Effluent	Process wastewater	44.91	34,073.09	46.27	304.10	323,000.23 <i>gal</i>
Application event totals		44.92	35,194.77	27,415.32	500.39	
05/10/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	43.98	18,694.71	44.09	504.76	291,229.72 <i>gal</i>
Canal Water	Ground water	0.01	951.73	23,222.23	166.55	4,447,871.78 <i>gal</i>
Application event totals		43.99	19,646.44	23,266.32	671.31	

Field name: 71

Crop: Sudan

Plant date: 05/20/2023

05/20/2023: Sudan

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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	798.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
05/26/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	65.58	27,872.11	65.73	752.55	634,595.65 <i>gal</i>
Canal Water	Ground water	0.01	1,121.68	27,369.05	196.29	7,661,581.39 <i>gal</i>
Application event totals		65.59	28,993.79	27,434.78	948.84	
06/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.01	1,386.81	33,838.10	242.69	9,472,500.81 <i>gal</i>
Application event totals		0.01	1,386.81	33,838.10	242.69	
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	62.22	26,444.51	62.36	714.00	602,091.97 <i>gal</i>
Well Water	Ground water	0.01	1,359.62	33,174.61	237.93	9,286,765.68 <i>gal</i>
Application event totals		62.23	27,804.13	33,236.97	951.93	
07/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,427.60	34,833.34	249.83	9,751,104.25 <i>gal</i>
Application event totals		0.01	1,427.60	34,833.34	249.83	

11/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
11/15/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	203.96	0.07	181.20	2,069.20	285.00 <i>ton</i>
Application event totals		203.96	0.07	181.20	2,069.20	

11/20/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.31	806.70	2.10	98.15	5,510,147.55 <i>gal</i>
Application event totals		0.31	806.70	2.10	98.15	

12/14/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	725.13	1.94	123.27	4,952,941.77 <i>gal</i>
Application event totals		0.00	725.13	1.94	123.27	

01/07/2023	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	0.01	997.05	24,328.05	174.48	6,810,294.98 <i>gal</i>
Lagoon Water Effluent	Process wastewater	24.05	21,264.38	23.79	265.18	284,794.15 <i>gal</i>
Application event totals		24.06	22,261.43	24,351.84	439.66	

02/01/2023	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
Canal Water	Ground water	0.00	1,076.36	2.88	182.98	7,352,022.83 <i>gal</i>
Application event totals		0.00	1,076.36	2.88	182.98	

02/26/2023	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	0.01	1,110.35	27,092.60	194.31	7,584,192.12 <i>gal</i>
Lagoon Water Effluent	Process wastewater	21.64	16,422.11	22.30	146.57	227,525.76 <i>gal</i>
Application event totals		21.65	17,532.46	27,114.90	340.88	

03/23/2023	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	0.01	917.74	22,392.86	160.60	6,268,567.13 <i>gal</i>
Application event totals		0.01	917.74	22,392.86	160.60	

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
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Canal Water	Ground water	0.00	1,133.01	3.03	192.61	7,738,971.40 <i>gal</i>
Lagoon Water Effluent	Process wastewater	24.59	18,656.41	25.34	166.51	258,481.64 <i>gal</i>
Application event totals		24.59	19,789.42	28.37	359.12	

05/10/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.01	961.25	23,454.45	168.22	6,565,742.75 <i>gal</i>
Application event totals		0.01	961.25	23,454.45	168.22	

Field name: 72

Crop: Corn Silage

Plant date: 05/28/2023

05/28/2023: Corn Silage

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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	728.00 <i>Lbs</i>
Corral Solids	Corral Solids	45.59	10.50	12.87	506.80	52.00 <i>ton</i>
Application event totals		59.59	10.50	12.87	506.80	

05/30/2023	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
Anova 5-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	0.12	0.00	0.00	0.00	52.00 <i>Qt.</i>
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	2.88	8.64	8.64	0.00	780.00 <i>Gal.</i>
NOVUS 28-0-0	Commercial fertilizer / Other: Liquid commercial fertilizer	3.14	0.00	0.00	0.00	52.00 <i>Gal.</i>
Application event totals		6.14	8.64	8.64	0.00	

06/13/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,296.17	31,626.46	226.83	8,076,770.41 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	32.58	0.00	0.00	0.00	520.00 <i>Gal.</i>
Application event totals		32.59	1,296.17	31,626.46	226.83	

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
Canal Water	Ground water	0.01	1,178.33	28,751.33	206.21	7,342,518.56 <i>gal</i>
Lagoon Water Effluent	Process wastewater	69.90	29,707.59	70.06	802.10	617,054.00 <i>gal</i>
Application event totals		69.91	30,885.92	28,821.39	1,008.31	

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
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Well Water	Ground water	0.01	1,414.00	34,501.59	247.45	8,811,022.27 <i>gal</i>
Application event totals		0.01	1,414.00	34,501.59	247.45	

07/27/2023	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
Canal Water	Ground water	0.01	1,427.60	34,833.34	249.83	8,895,744.23 <i>gal</i>
Nitro 721 28.6-0-0-.8ca	Commercial fertilizer / Other: Liquid commercial fertilizer	55.38	0.00	0.00	0.00	884.00 <i>Gal.</i>
Application event totals		55.39	1,427.60	34,833.34	249.83	

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
Well Water	Ground water	0.01	1,414.00	34,501.59	247.45	8,811,022.27 <i>gal</i>
Application event totals		0.01	1,414.00	34,501.59	247.45	

11/20/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/20/2022	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	0.32	815.77	2.13	99.25	5,083,282.13 <i>gal</i>
Application event totals		0.32	815.77	2.13	99.25	

12/14/2022	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	18.17	16,063.85	17.97	200.33	196,271.17 <i>gal</i>
Well Water	Ground water	0.30	770.45	2.01	93.74	4,800,877.83 <i>gal</i>
Application event totals		18.47	16,834.30	19.98	294.07	

01/07/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	34.51	30,509.76	34.13	380.47	372,774.03 <i>gal</i>
Canal Water	Ground water	0.00	1,019.71	2.73	173.35	6,354,102.83 <i>gal</i>
Application event totals		34.51	31,529.47	36.86	553.82	

02/01/2023	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
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Well Water	Ground water	0.01	1,076.36	26,263.23	188.36	6,707,108.54 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.23	13,070.66	17.75	116.65	165,206.67 <i>gal</i>
Application event totals		17.24	14,147.02	26,280.98	305.01	

02/26/2023	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
Canal Water	Ground water	0.00	963.06	2.58	163.72	6,001,097.12 <i>gal</i>
Lagoon Water Effluent	Process wastewater	21.64	16,422.11	22.30	146.57	207,567.36 <i>gal</i>
Application event totals		21.64	17,385.17	24.88	310.29	

03/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	45.35	34,408.23	46.73	307.09	434,903.04 <i>gal</i>
Well Water	Ground water	0.01	940.40	22,945.77	164.57	5,859,894.97 <i>gal</i>
Application event totals		45.36	35,348.63	22,992.50	471.66	

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
Lagoon Water Effluent	Process wastewater	44.91	34,073.09	46.27	304.10	430,666.98 <i>gal</i>
Canal Water	Ground water	0.00	1,121.68	3.00	190.69	6,989,512.84 <i>gal</i>
Application event totals		44.91	35,194.77	49.27	494.79	

05/10/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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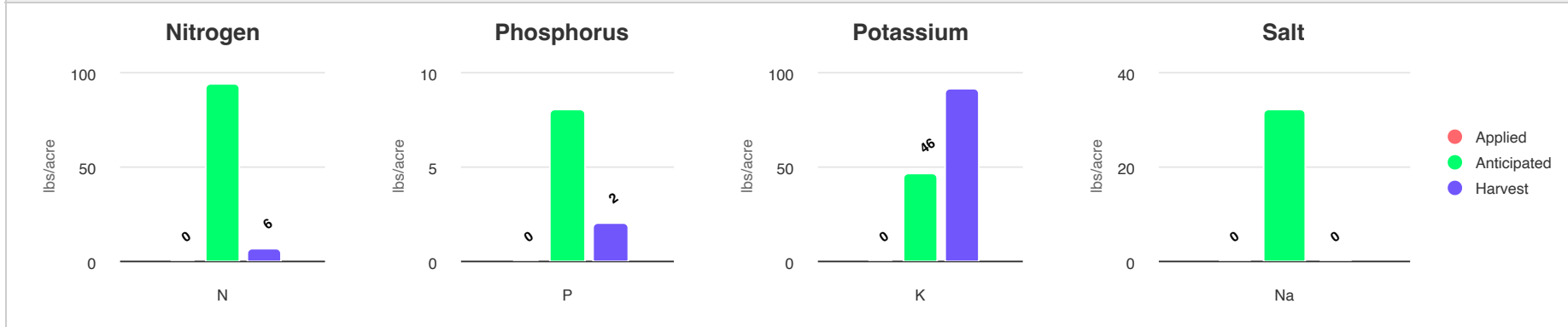
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.01	932.70	22,757.78	163.22	5,811,885.63 <i>gal</i>
Lagoon Water Effluent	Process wastewater	43.98	18,694.71	44.09	504.76	388,306.29 <i>gal</i>
Application event totals		43.99	19,627.41	22,801.87	667.98	

B. NUTRIENT BUDGET

0P - 01/01/2017: Pistachio

Field name: 0P 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	114,689.93	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	0.05	5,505.32	134,329.51	963.42
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	6.18	2.48	91.05	0.00
Nutrient balance	-6.18	-2.48	-91.05	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
24,745,847.19	gallons
911.31	acre-inches
24.29	inches/acre

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

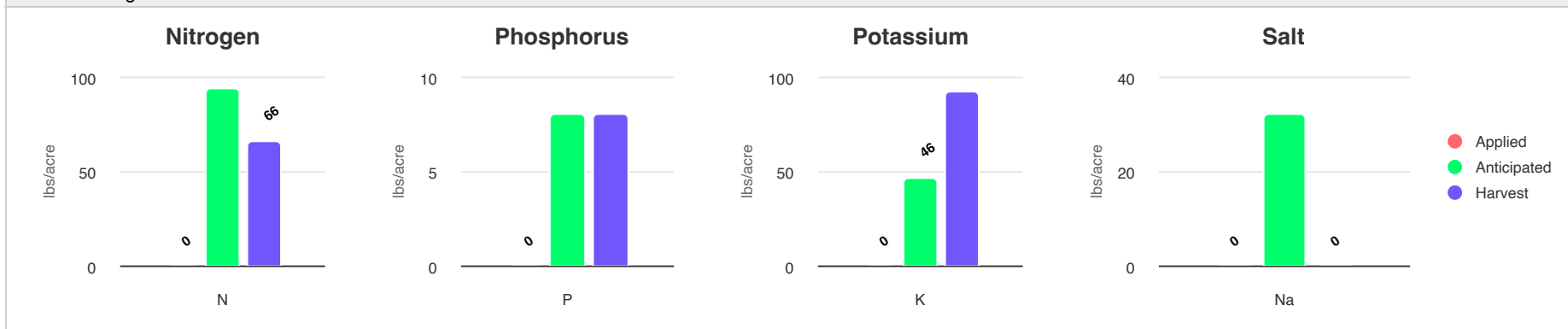
Total Harvests for the crop	
1	harvests

Field name: 1P

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	136.80	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	0.03	5,456.14	133,129.70	954.80
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	66.20	8.12	91.80	0.00
Nutrient balance	-66.20	-8.12	-91.80	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

74,444,046.63 gallons
 2,741.52 acre-inches
 24.08 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

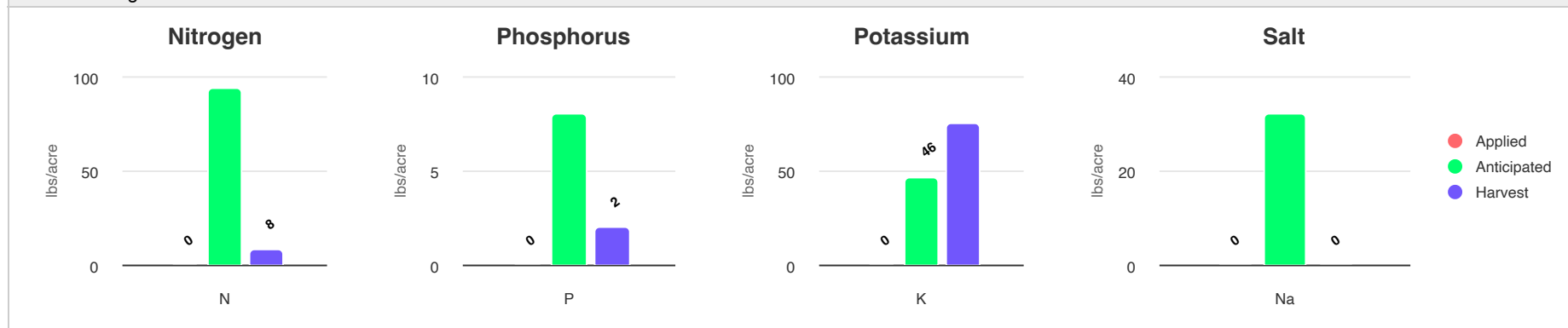
1 harvests

Field name: 3PA

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	58,138.38	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	5,455.92	133,124.17	954.80
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	7.89	2.49	74.66	0.00
Nutrient balance	-7.89	-2.49	-74.66	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

32,264,720.14 gallons
 1,188.20 acre-inches
 24.08 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

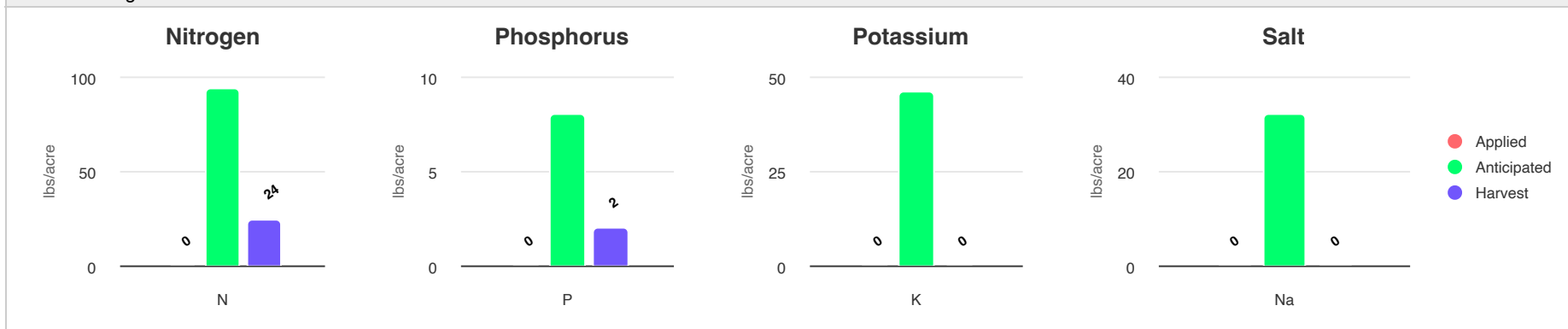
1 harvests

Field name: 4PA

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	104.82	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	0.03	4,883.51	119,157.66	854.61
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	24.30	2.38	0.00	0.00
Nutrient balance	-24.30	-2.38	0.00	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

53,001,746.06 gallons
 1,951.87 acre-inches
 21.55 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

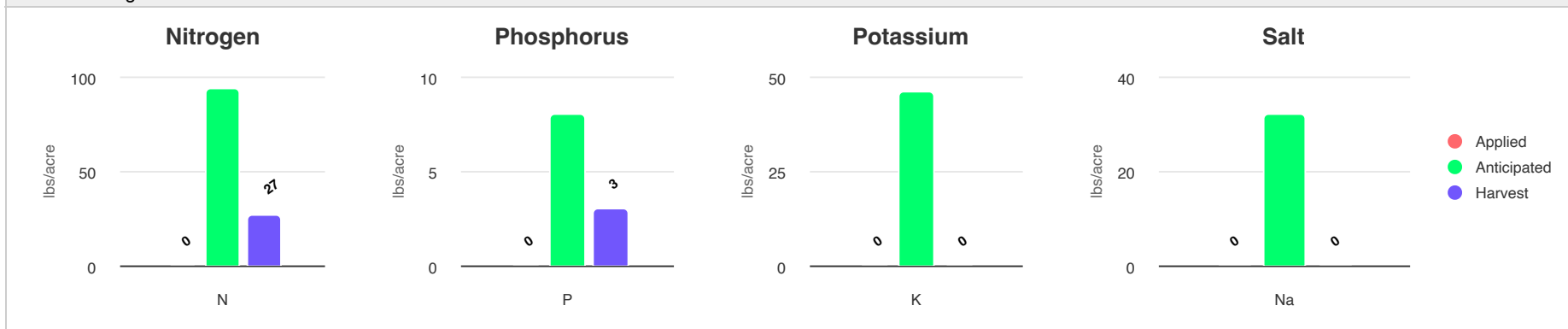
1 harvests

Field name: 4PB (2951)

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	104.82	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	2.08	4,907.97	268.59	1,453.99
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	26.80	2.63	0.00	0.00
Nutrient balance	-26.80	-2.63	0.00	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

43,480,796.90 gallons
 1,601.25 acre-inches
 21.66 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

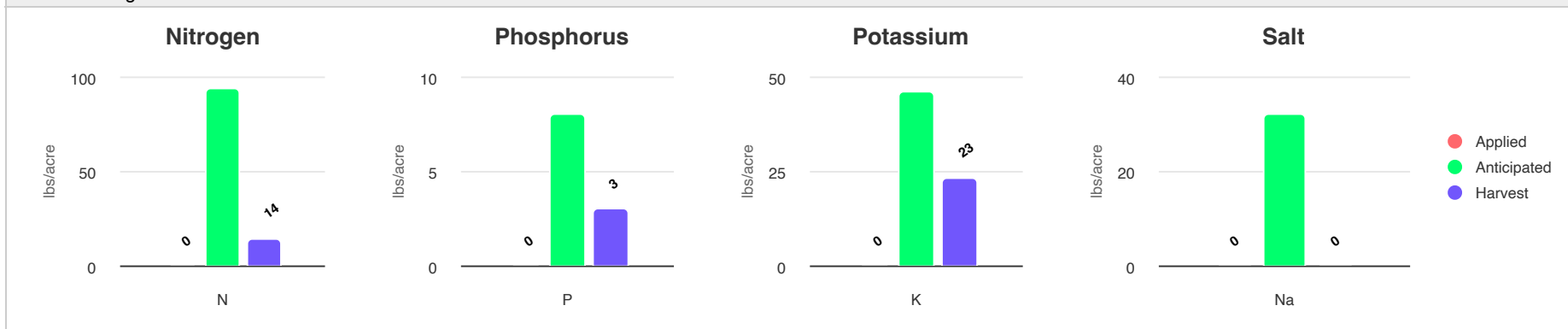
1 harvests

Field name: 51P

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	0.03	4,387.25	107,048.92	767.76
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	13.53	2.50	22.90	0.00
Nutrient balance	-13.53	-2.50	-22.90	0.00
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

35,749,920.95 gallons
 1,316.55 acre-inches
 19.36 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

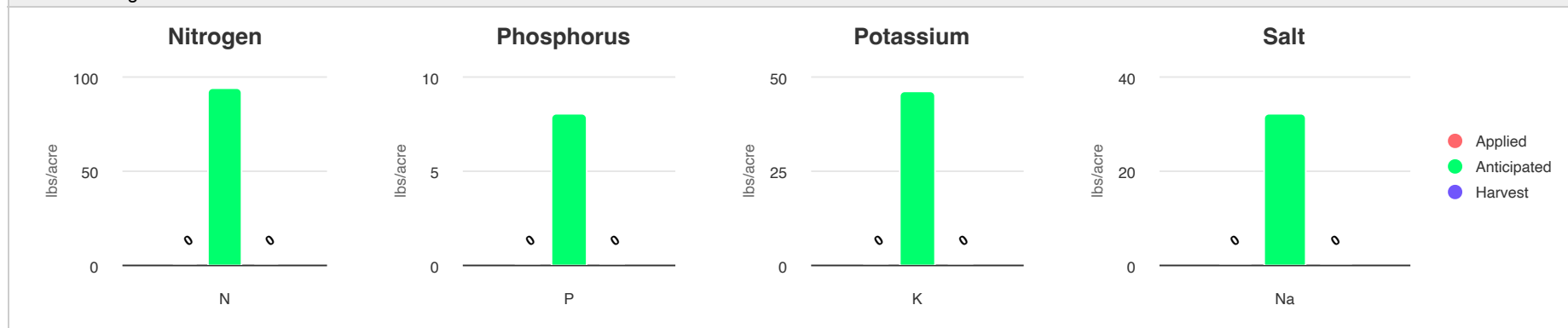
1 harvests

Field name: 52P

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	47,700.71	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.02	3,984.58	97,223.73	697.32
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

29,049,941.15 gallons
 1,069.81 acre-inches
 17.58 inches/acre

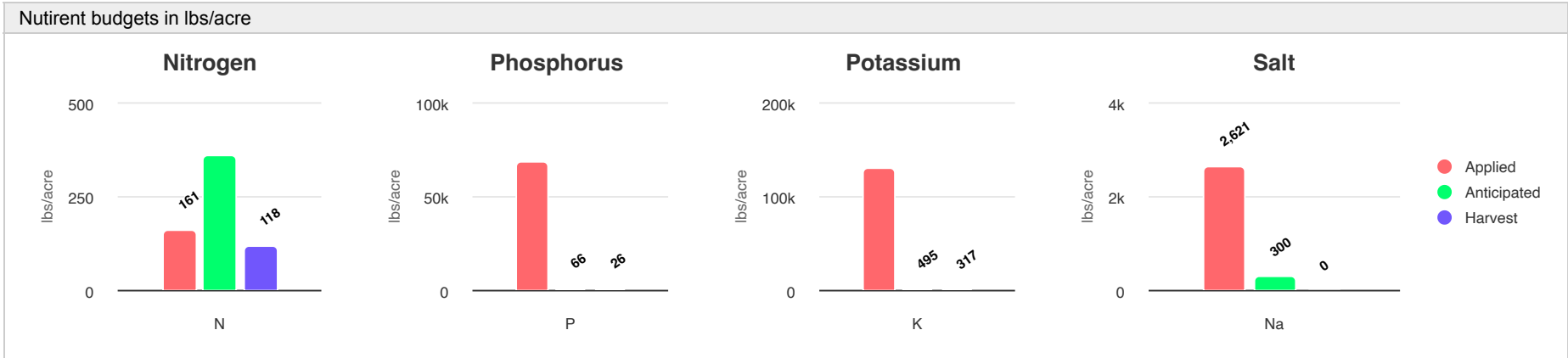
Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

Total Harvests for the crop

1 harvests

Field name: 61 Crop: Sudan Plant date: 05/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	147.15	62,542.30	147.50	1,688.65
Fresh water	0.04	5,325.16	129,933.88	931.90
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	161.19	67,867.46	130,081.38	2,620.55
Anticipated crop nutrient removal	360.00	66.00	495.00	300.00
Actual crop nutrient removal	118.36	26.00	317.43	0.00
Nutrient balance	42.83	67,841.46	129,763.95	2,620.55
Applied to removed ratio	1.36	2,610.10	409.80	0.00

Fresh water applied	
31,268,159.87	gallons
1,151.50	acre-inches
23.50	inches/acre

Process wastewater applied	
1,224,115.18	gallons
45.08	acre-inches
0.92	inches/acre

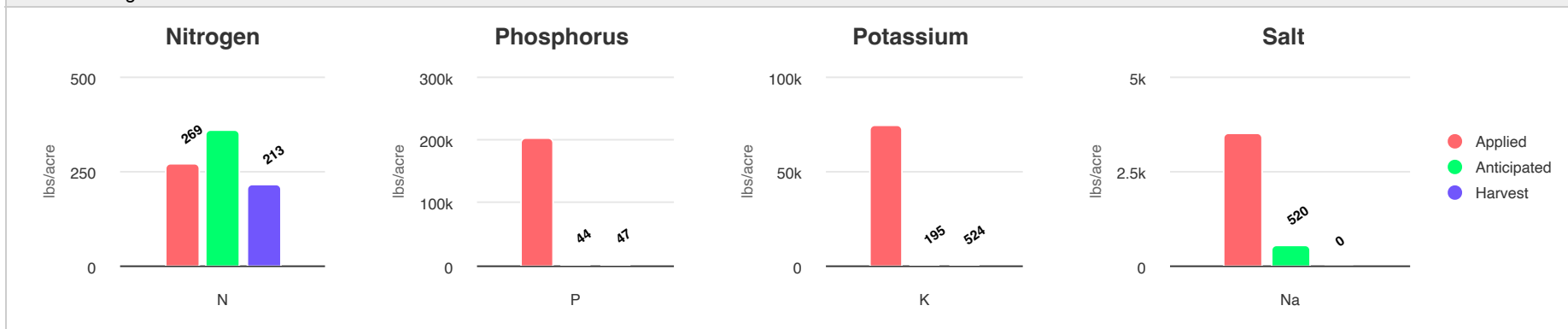
Total Harvests for the crop	
1	harvests

Field name: 61

Crop: Triticale

Plant date: 11/20/2022

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	268.20	195,416.34	272.94	2,247.12
Fresh water	0.52	7,775.18	74,058.41	1,268.53
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	268.72	203,191.52	74,331.35	3,515.65
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	213.45	47.29	524.04	0.00
Nutrient balance	55.27	203,144.23	73,807.31	3,515.65
Applied to removed ratio	1.26	4,296.59	141.84	0.00

Fresh water applied

45,654,174.26 gallons
 1,681.29 acre-inches
 34.31 inches/acre

Process wastewater applied

2,452,222.08 gallons
 90.31 acre-inches
 1.84 inches/acre

Total Harvests for the crop

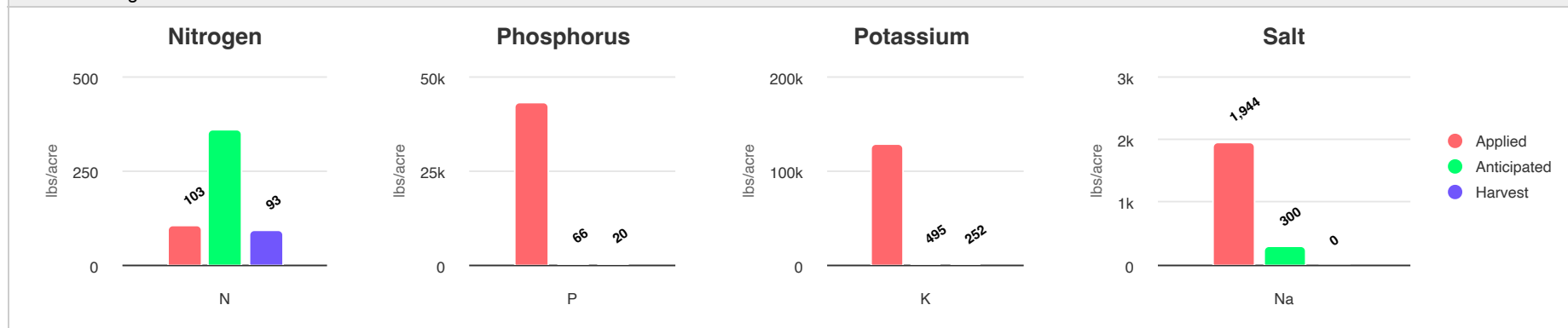
1 harvests

Field name: 62

Crop: Sudan

Plant date: 05/20/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	89.25	37,933.27	89.46	1,024.19
Fresh water	0.04	5,254.91	128,219.86	919.60
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	103.29	43,188.18	128,309.32	1,943.79
Anticipated crop nutrient removal	360.00	66.00	495.00	300.00
Actual crop nutrient removal	93.21	19.50	251.80	0.00
Nutrient balance	10.08	43,168.68	128,057.52	1,943.79
Applied to removed ratio	1.11	2,214.58	509.56	0.00

Fresh water applied

24,558,607.50 gallons
 904.41 acre-inches
 23.19 inches/acre

Process wastewater applied

590,931.56 gallons
 21.76 acre-inches
 0.56 inches/acre

Total Harvests for the crop

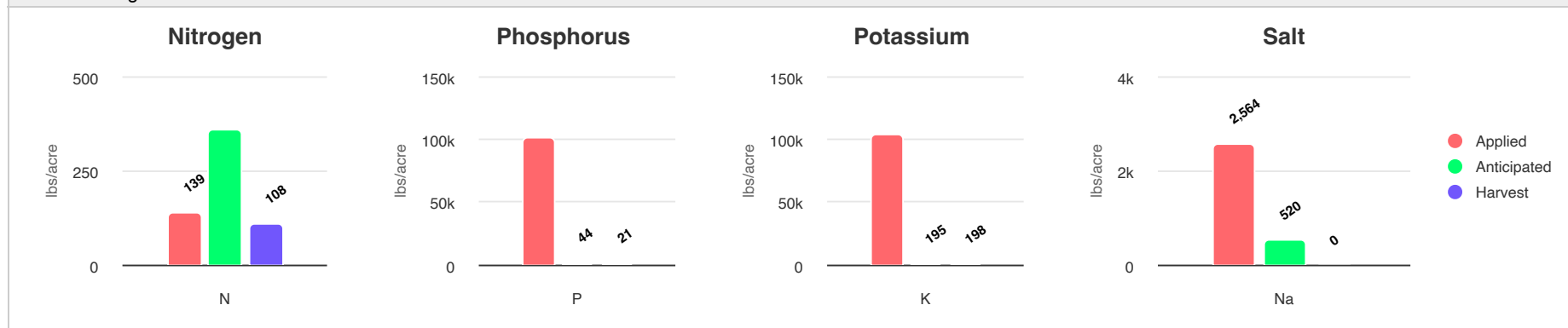
1 harvests

Field name: 62

Crop: Triticale

Plant date: 11/20/2022

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	138.37	93,805.74	140.20	1,262.40
Fresh water	0.37	7,772.46	103,403.59	1,301.31
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	138.74	101,578.20	103,543.79	2,563.71
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	107.59	20.53	198.19	0.00
Nutrient balance	31.15	101,557.67	103,345.60	2,563.71
Applied to removed ratio	1.29	4,948.49	522.44	0.00

Fresh water applied

36,324,287.54 gallons
 1,337.70 acre-inches
 34.30 inches/acre

Process wastewater applied

995,476.12 gallons
 36.66 acre-inches
 0.94 inches/acre

Total Harvests for the crop

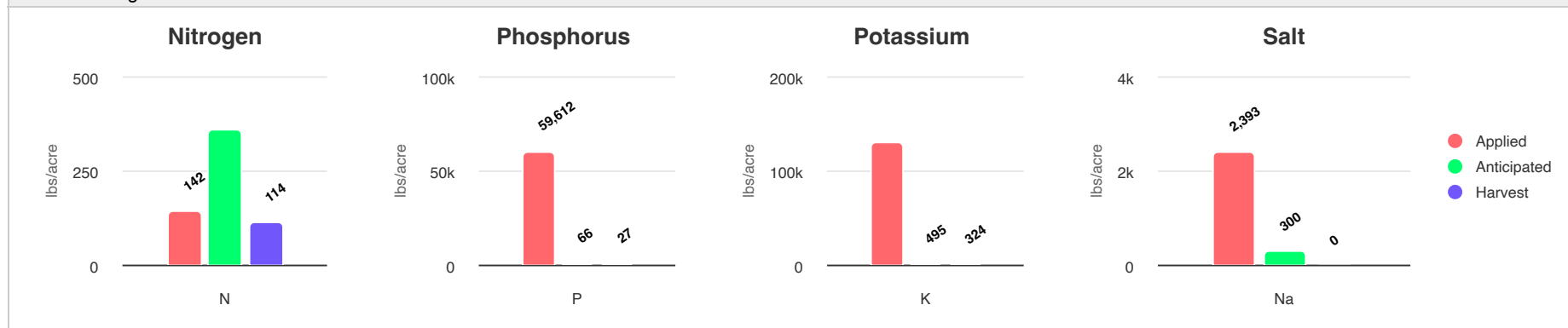
1 harvests

Field name: 71

Crop: Sudan

Plant date: 05/20/2023

Nutrient budgets in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	127.80	54,316.62	128.09	1,466.55
Fresh water	0.04	5,295.71	129,215.10	926.74
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	141.84	59,612.33	129,343.19	2,393.29
Anticipated crop nutrient removal	360.00	66.00	495.00	300.00
Actual crop nutrient removal	113.54	27.30	324.40	0.00
Nutrient balance	28.30	59,585.03	129,018.79	2,393.29
Applied to removed ratio	1.25	2,183.55	398.71	0.00

Fresh water applied

36,171,952.13 gallons
 1,332.09 acre-inches
 23.37 inches/acre

Process wastewater applied

1,236,687.62 gallons
 45.54 acre-inches
 0.80 inches/acre

Total Harvests for the crop

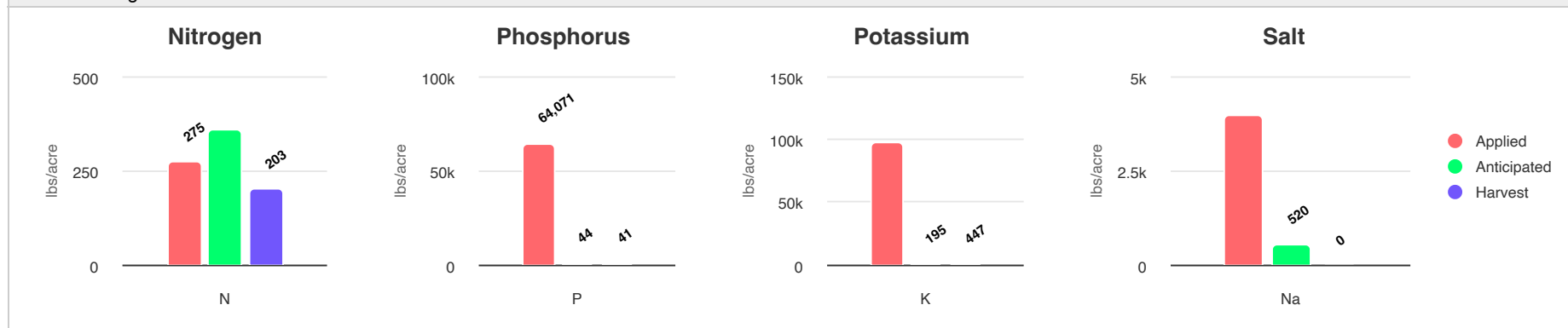
1 harvests

Field name: 71

Crop: Triticale

Plant date: 11/20/2022

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	203.96	0.07	181.20	2,069.20
Process wastewater	70.28	56,342.90	71.43	578.26
Fresh water	0.35	7,727.59	97,277.91	1,294.62
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	274.59	64,070.56	97,530.54	3,942.08
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	203.10	40.62	446.83	0.00
Nutrient balance	71.49	64,029.94	97,083.71	3,942.08
Applied to removed ratio	1.35	1,577.28	218.27	0.00

Fresh water applied

52,782,880.51 gallons
 1,943.81 acre-inches
 34.10 inches/acre

Process wastewater applied

770,801.54 gallons
 28.39 acre-inches
 0.50 inches/acre

Total Harvests for the crop

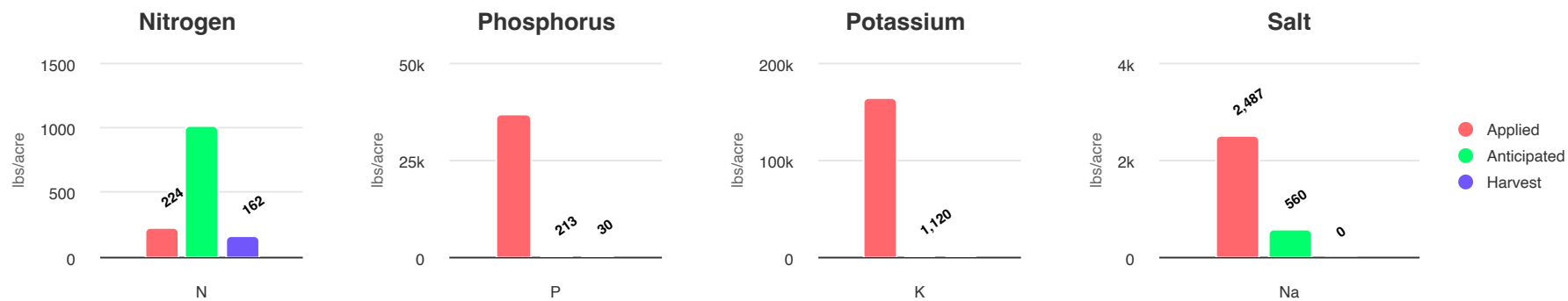
1 harvests

Field name: 72

Crop: Corn Silage

Plant date: 05/28/2023

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	45.59	10.50	12.87	506.80
Process wastewater	69.90	29,707.59	70.06	802.10
Fresh water	0.05	6,730.10	164,214.31	1,177.77
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	223.64	36,456.83	164,305.88	2,486.67
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	161.69	30.12	179.82	0.00
Nutrient balance	61.95	36,426.71	164,126.06	2,486.67
Applied to removed ratio	1.38	1,210.33	913.74	0.00

Fresh water applied

41,937,077.74 gallons
 1,544.40 acre-inches
 29.70 inches/acre

Process wastewater applied

617,054.00 gallons
 22.72 acre-inches
 0.44 inches/acre

Total Harvests for the crop

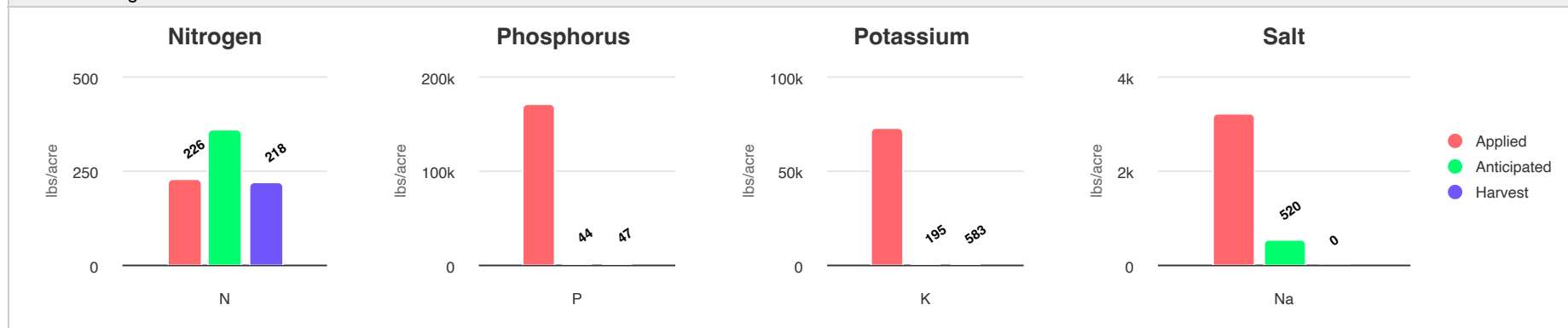
1 harvests

Field name: 72

Crop: Triticale

Plant date: 11/20/2022

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	225.79	163,242.41	229.24	1,959.97
Fresh water	0.65	7,640.13	71,979.23	1,236.90
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	226.44	170,882.54	72,208.47	3,196.87
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	218.10	47.41	582.51	0.00
Nutrient balance	8.34	170,835.13	71,625.96	3,196.87
Applied to removed ratio	1.04	3,604.07	123.96	0.00

Fresh water applied

47,607,761.89 gallons
 1,753.23 acre-inches
 33.72 inches/acre

Process wastewater applied

2,195,695.54 gallons
 80.86 acre-inches
 1.56 inches/acre

Total Harvests for the crop

1 harvests

NUTRIENT ANALYSES

A. MANURE ANALYSES

T3090003A

Sample and source description name: T3090003A

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

Moisture: 42%

	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	25,470.00	6,770.00	28,270.00	13,050.00	6,270.00	3,720.00	5,400.00	958.00	28,270.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3090003B

Sample and source description name: T3090003B

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

Moisture: 74.3%

	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	16,490.00	1,710.00	3,890.00	7,620.00	3,180.00	1,630.00	2,900.00	529.00	3,890.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3090003C

Sample and source description name: T3090003C

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

Moisture: 85.4%

	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	27,400.00	7,280.00	7,560.00	13,070.00	8,460.00	3,060.00	3,400.00	922.00	7,560.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167064A

Sample and source description name: T3167064A

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

Moisture:

9.5%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	25,190.00	5,800.00	7,110.00	14,610.00	6,650.00	4,160.00	2,400.00	1,073.00	7,110.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167064B

Sample and source description name: T3167064B

Sample date: 06/12/2023

Material type: Corral solids

Source of analysis: Lab Analysis

Method of reporting: As-is

Moisture: 79.5%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	18,310.00	1,680.00	1,940.00	7,150.00	2,950.00	1,500.00	2,400.00	495.00	1,940.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167064C

Sample and source description name: T3167064C

Sample date: 06/12/2023

Material type: Corral solids

Source of analysis: Lab Analysis

Method of reporting: As-is

Moisture: 82.1%

	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	23,310.00	7,410.00	3,710.00	17,250.00	8,380.00	2,100.00	2,300.00	1,106.00	3,710.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263075A

Sample and source description name: T3263075A

Sample date: 09/15/2023

Material type: Corral solids

Source of analysis: Lab Analysis

Method of reporting: As-is

Moisture: 5.7%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	23,200.00	5,630.00	14,050.00	18,070.00	7,810.00	4,660.00	3,830.00	1,299.00	14,050.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263075B

Sample and source description name: T3263075B

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

Moisture: 74%

	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	14,200.00	1,630.00	3,260.00	10,870.00	2,950.00	1,210.00	3,420.00	690.00	3,260.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263075C

Sample and source description name: T3263075C

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

Moisture: 83%

	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	28,800.00	6,650.00	4,670.00	13,350.00	8,330.00	2,560.00	3,270.00	909.00	4,670.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362034A

Sample and source description name: T3362034A

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

Moisture: 18.5%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	25,460.00	6,090.00	18,890.00	15,060.00	6,830.00	7,920.00	3,620.00	1,313.00	18,890.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362034B

Sample and source description name: T3362034B

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

Moisture: 77.1%

	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 (%)
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Value	15,990.00	1,430.00	3,620.00	7,080.00	2,260.00	1,700.00	2,080.00	501.00	3,620.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362034C

Sample and source description name: T3362034C

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

Moisture: 83.7%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	30,840.00	5,980.00	6,030.00	12,270.00	5,820.00	2,300.00	2,070.00	833.00	6,030.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

B. PROCESS WASTEWATER ANALYSES

T3089015A

Sample and source description name: T3089015A

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	649.60	0.00	478.80	0.18	49.30	669.55	211.78	109.16	318.02	0.00	0.00	268.26	192.97	7.07	4,400.00
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

T3167012A

Sample and source description name: T3167012A

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	705.60	0.00	649.60	0.24	30.00	707.50	170.25	105.60	344.44	0.00	0.00	383.68	203.57	8.03	8,100.00
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

T3263048A

Sample and source description name: T3263048A

Sample date: 09/15/2023				Material type: Process wastewater				Source of analysis:		Lab Analysis				pH: 0	
	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	352.80	0.00	280.00	0.25	19.70	218.75	59.28	47.02	177.22	0.00	0.00	181.42	98.38	4.28	4,300.00
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

T3362095A															
Sample and source description name:					T3362095A										
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	478.80	0.00	282.80	0.08	39.30	361.70	90.76	72.49	191.02	0.00	0.00	257.28	135.18	5.20	5,940.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

C. FRESH WATER ANALYSES

Canal - Buena Vista

T3362072A-1893-1885

Sample and source description name:

T3362072A-1893-1885

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

BARN WELL												
T3362071A												
Sample and source description name: T3362071A												
Sample date: 12/27/2023Source 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	2.80	0.00	0.00	14.27	0.75	90.08	0.00	0.00	106.01	11.81	0.46	165.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

2

T3362071B

Sample and source description name: T3362071B

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	4.07	0.00	1.27	11.59	0.11	65.95	0.00	0.00	78.09	23.51	0.36	130.00
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

51P

T2269031A

Sample
description: T2269031A

Sample date: 09/15/2022 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	250.00	0.00	0.00	130.67	8.07	6.60	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

E. PLANT TISSUE ANALYSES

4PB (2951) - 01/01/2023: Pistachio

ATS-ATS-T1258025B 2

Sample
description: ATS-ATS-T1258025B 2

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	20,400.00	2,000.00	0.00	0.01	0.00
DL	100.00	200.00	500.00		0.10

3PA - 01/01/2023: Pistachio

ATS-T0282013D-3

Sample description: ATS-T0282013D-3

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

1P - 01/01/2023: Pistachio

ATS-T0282001C

Sample description: ATS-T0282001C

Sample date: 10/05/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	37,500.00	4,600.00	52,000.00	0.01	0.00
DL	100.00	200.00	500.00		0.10

0P - 01/01/2023: Pistachio

ATS-T0282013F-2

Sample description: ATS-T0282013F-2

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	3,730.00	1,500.00	55,000.00	0.05	0.00
DL	100.00	200.00	500.00		0.10

4PA - 01/01/2023: Pistachio

ATS-ATS-T1258025B 3

Sample description: ATS-ATS-T1258025B 3

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	20,400.00	2,000.00	0.00	0.01	0.00
DL	100.00	200.00	500.00		0.10

51P - 01/01/2023: Pistachio

ATS-15090416A-2

Sample description: ATS-15090416A-2

Sample date: 09/11/2023 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	12,700.00	2,350.00	21,500.00	0.00	0.00
DL	100.00	200.00	500.00		0.10

52P - 01/01/2023: Pistachio

ATS-T0281040C

Sample
description: ATS-T0281040C

Sample date: 10/05/2023 Source of analysis: Lab Analysis Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	40,300.00	4,600.00	53,000.00	0.01	0.00
DL	100.00	200.00	500.00		0.10

71 - 11/15/2022: Triticale

T3139037C

Sample
description: T3139037C

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	15,000.00	3,000.00	33,000.00	0.27	0.00
DL	100.00	200.00	500.00		0.10

72 - 11/15/2022: Triticale

T3139037D

Sample
description: T3139037D

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	16,100.00	3,500.00	43,000.00	0.04	0.00
DL	100.00	200.00	500.00		0.10

62 - 11/15/2022: Triticale

T3139037B

Sample description: T3139037B
 Sample date: 05/15/2023 Source of analysis: Lab Analysis Method of reporting: Dry
 Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	15,200.00	2,900.00	28,000.00	0.10	0.00
DL	100.00	200.00	500.00		0.10

61 - 11/15/2022: Triticale

T3139037A

Sample description: T3139037A
 Sample date: 05/15/2023 Source of analysis: Lab Analysis Method of reporting: Dry
 Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	16,700.00	3,700.00	41,000.00	0.31	0.00
DL	100.00	200.00	500.00		0.10

71 - 05/15/2023: Sudan

T3228047C

Sample description: T3228047C

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	13,100.00	3,150.00	37,430.00	760.00	0.00
DL	100.00	200.00	500.00		0.10

62 - 05/15/2023: Sudan

T3228047B

Sample description: T3228047B

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	2,720.00	35,120.00	780.00	0.00
DL	100.00	200.00	500.00		0.10

61 - 05/15/2023: Sudan

T3228047A

Sample description: T3228047A

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	12,700.00	2,790.00	34,060.00	700.00	0.00
DL	100.00	200.00	500.00		0.10

T3228047D

Sample
description: T3228047D

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	12,400.00	2,310.00	13,790.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

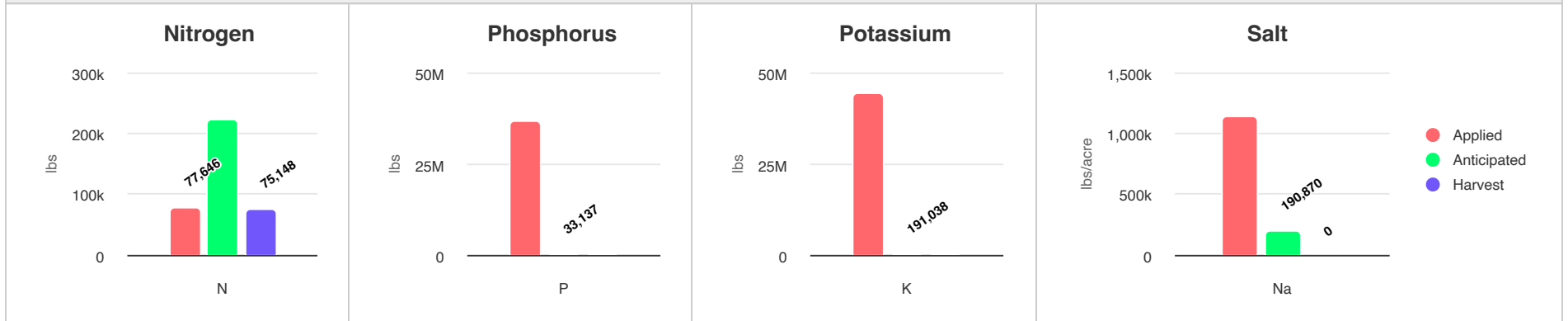
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

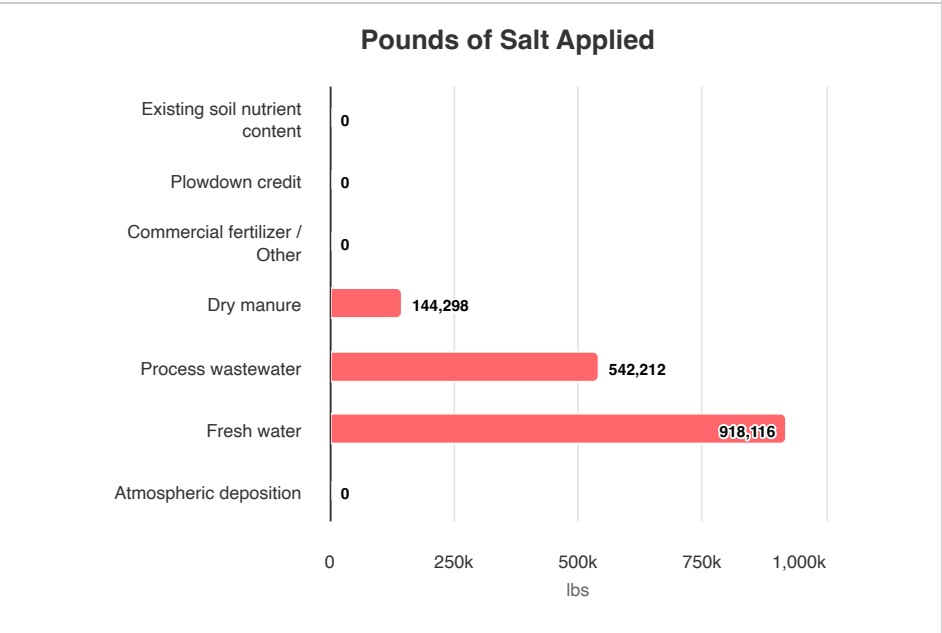
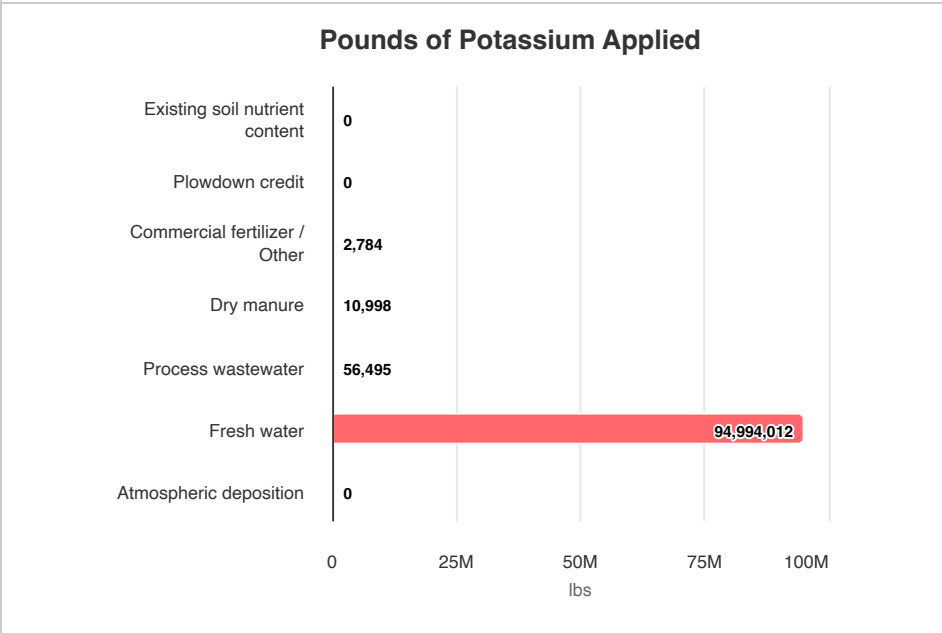
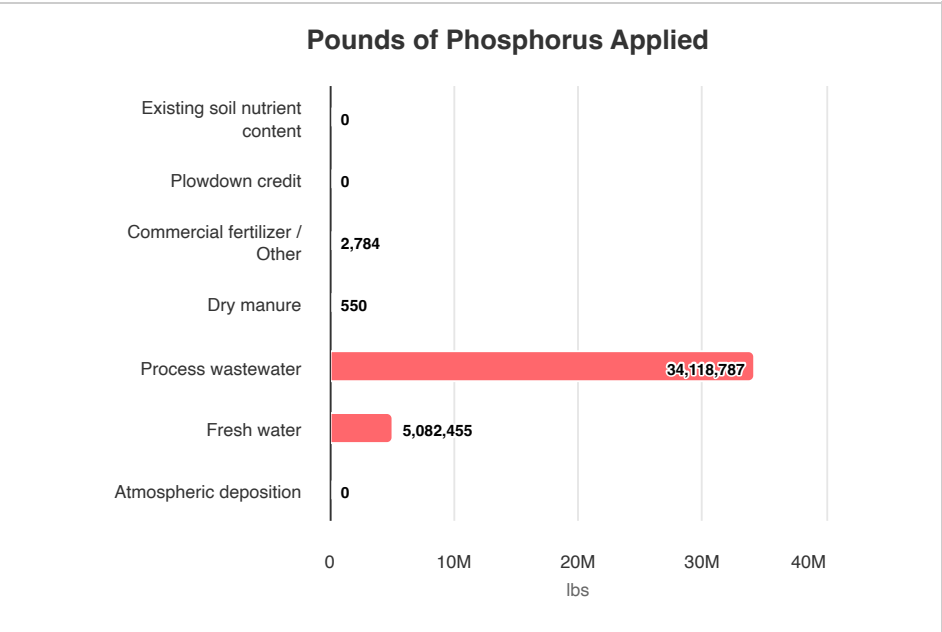
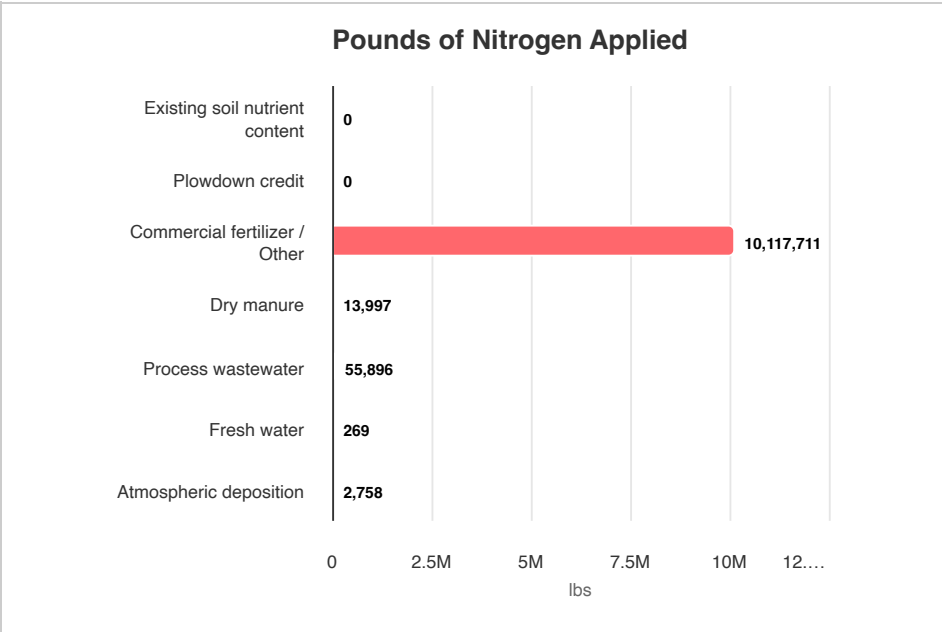
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	10,117,710.87	2,783.78	2,783.78	0.00
Dry manure	13,996.83	550.11	10,997.75	0.00
Process wastewater	55,895.77	34,118,787.39	56,494.54	1,959.97
Fresh water	269.07	5,082,455.01	94,994,011.81	1,236.90
Atmospheric deposition	2,758.00	0.00	0.00	0.00
Total nutrients applied	77,645.86	36,759,350.93	44,289,043.98	1,133,126.47
Anticipated crop nutrient removal	221,780.77	33,137.38	191,038.18	190,869.92
Actual crop nutrient removal	75,148.34	14,776.69	161,492.36	0.00
Nutrient balance	2,497.52	36,744,574.24	44,127,551.63	1,133,126.47
Applied to removed ratio	1.03	2,487.66	274.25	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>
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A. NOTES

Crop Specific Notes

- **0P (Pistachio):** Tree Nut Crop - N ratios dont apply
- **1P (Pistachio):** Tree Nut Crop - N ratios dont apply
- **3PA (Pistachio):** Tree Nut Crop - N ratios dont apply
- **4PB (2951) (Pistachio):** Tree Nut Crop - N ratios dont apply
- **4PA (Pistachio):** Tree Nut Crop - N ratios dont apply
- **51P (Pistachio):** Tree Nut Crop - N ratios dont apply
- **52P (Pistachio):** Trees in developement - no harvest yield

Well Specific Notes

2023 Non Op Wells: 1, 3, 6 , 7, 8

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: Trilogy Dairy
Facility Address: 17661 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: Grimmway Farms
Facility Address: PO Box 81498
Facility City/State: Bakersfield, CA 93380

Contact:

Name: Sid Payne
Number: 661979-3359

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

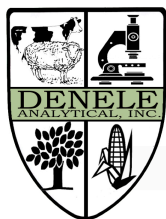
Signature of Hauler:



Date:

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Feb 1, 2023 - Feb, 28 2023	8,869	ton	64 %
Mar 1, 2023 - Mar, 31 2023	8,863	ton	68 %
May 1, 2023 - May, 31 2023	22,130	ton	69 %
Jul 1, 2023 - Jul, 31 2023	18,451	ton	69 %
Oct 1, 2023 - Oct, 31 2023	9,754	ton	69 %
Total	68,067		



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

Trilogy*
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: 1/3/24

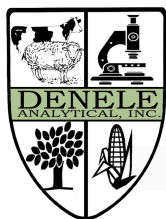
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Barn Well	T3362071A	Boron (B)	EPA 200.7	0.380	ppm

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



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Compliance Analysis Report

Customer

Trilogy*
15857 Bear Mountain Blvd.
Bakersfield, CA 93311

Grower

Consultant:

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

PURCHASE ORDER:

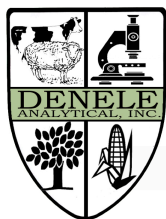
RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/2/24

Irrigation /Ground Water (H14)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Barn Well	T3362071A	Electrical Conductivity (EC)	EPA 120.1 and	0.460	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	96.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	106	mg/L
		Sodium (Na)	EPA 200.7	90.1	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	0.750	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	165	mg/L
		Calcium (Ca)	EPA 200.7	14.3	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	11.8	mg/L
		Soluble Salts (SALT-SOL)	Calculation	294	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH ₃ -N)	97.4	101 (T3362070A)	98.8 (T3362070A)			2.40
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO ₃ -N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO ₄)	102	111 (W4002001A)	108 (W4002001A)			3.31
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

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



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

Compliance Analysis Report

Customer

Trilogy*
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: 1/10/24

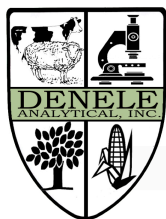
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Barn Well	T3362071A	pH (pH)	SM4500-H+ B-2000	7.9	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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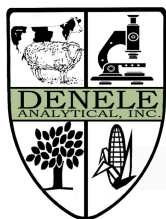
RECEIVED DATE: 12/28/23 12:00 PM
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Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Barn Well	T3362071A	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.80	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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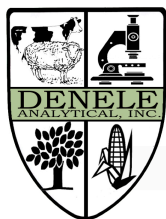
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
2	T3362071B	Boron (B)	EPA 200.7	0.150	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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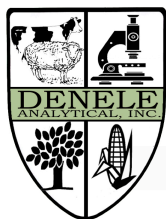
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ANALYZED DATE: 1/2/24

Irrigation /Ground Water (H14)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
2	T3362071B	Electrical Conductivity (EC)	EPA 120.1 and	0.362	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	50.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	78.1	mg/L
		Sodium (Na)	EPA 200.7	66.0	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	1.27	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	130	mg/L
		Calcium (Ca)	EPA 200.7	11.6	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	23.5	mg/L
		Soluble Salts (SALT-SOL)	Calculation	232	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH ₃ -N)	97.4	101 (T3362070A)	98.8 (T3362070A)			2.40
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO ₃ -N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO ₄)	102	111 (W4002001A)	108 (W4002001A)			3.31
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

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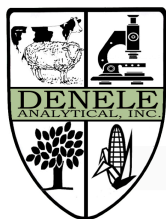
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
2	T3362071B	pH (pH)	SM4500-H+ B-2000	7.9	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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ANALYZED DATE: 1/4/24

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
2	T3362071B	Total Nitrogen (TN)	SM 4500-NH3 D,C	4.07	%

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	TONY
Lab Name	Denele

Trilogy Dairy

Ranch: TRILOGY 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:	<div> <div>CHAIN</div> <div>23-01</div> </div>				Trilogy Dairy BARN WELL W Ranch: TRILOGY DAIRY Date: 12-27-23 8:20 am IW 35.205201, -119.194399
Analysis	Weather	Temp (°F)	# of Bags/Bottles		
W2	CC	52	1		
2. Location:	<div> <div>CHAIN</div> <div>23-03</div> </div>				Trilogy Dairy 2 W Ranch: TRILOGY DAIRY Date: 12-27-23 8:40 IW 35.205584, -119.199171
Analysis	Weather	Temp (°F)	# of Bags/Bottles		
3. Location:	<div> <div>CHAIN</div> <div>23-03</div> </div>				Place CHAIN Label Here Place additional labels on sample bags/bottles
Analysis	Weather	Temp (°F)	# of Bags/Bottles		
4. Location:	<div> <div>CHAIN</div> <div>23-03</div> </div>				Place CHAIN Label Here Place additional labels on sample bags/bottles
Analysis	Weather	Temp (°F)	# of Bags/Bottles		
5. Location:	<div> <div>CHAIN</div> <div>23-03</div> </div>				Place CHAIN Label Here Place additional labels on sample bags/bottles
Analysis	Weather	Temp (°F)	# of Bags/Bottles		
6. Location:	<div> <div>CHAIN</div> <div>23-03</div> </div>				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	Antonio Mera	Icon Ag		12-27-23 3:00 pm	Logged in By:	Laboratory #
2nd	Denele	Icon Ag	12/28 5:30 A	12/28 10:18 A		
3rd	Albert Moton Jr			12-28-23 10:18		
4th	Denele	Denele	12-28-23 12:00		T3362071	