

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

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

DAIRY FACILITY INFORMATION**A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:** Fagundes Dairy (TF Farms)

Physical address of dairy:

23732 Road 12

Number and Street

Chowchilla

City

Madera

County

93610

Zip Code

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

Date facility was originally placed in operation: 01/01/1951Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

X001-X230-X021-XXXX	X001-X230-X022-XXXX	X024-X080-X012-XXXX	X024-X080-X027-XXXX	X025-X018-X007-XXXX	X025-X130-X004-XXXX
X025-X130-X005-XXXX	X025-X130-X006-XXXX	X025-X140-X005-XXXX	X025-X140-X008-XXXX	X025-X140-X030-XXXX	X025-X150-X008-XXXX
X025-X150-X020-XXXX	X025-X150-X021-XXXX	X025-X150-X022-XXXX	X025-X180-X003-XXXX	X025-X180-X007-XXXX	X025-X190-X001-XXXX
X025-X190-X002-XXXX	X025-X200-X001-XXXX	X025-X200-X003-XXXX	X025-X200-X005-XXXX	X025-X200-X008-XXXX	X025-X200-X011-XXXX
X025-X200-X012-XXXX	X025-X210-X001-XXXX	X025-X210-X003-XXXX	X025-X210-X011-XXXX	X026-X170-X014-XXXX	X026-X170-X035-XXXX
X026-X170-X036-XXXX	X026-X231-X001-XXXX	X026-X231-X002-XXXX	X026-X231-X013-XXXX	X026-X231-X014-XXXX	

B. OPERATORS

C/O Ralph, Lloyd, &/or Fred Fagundes, Fagundes Dairy

Operator name: C/O Ralph, Lloyd, &/or Fred Fagundes, Fagundes DairyTelephone no.: (209) 383-6046

Landline Cellular

P.O. Box 2717

Merced

Mailing Address Number and Street

City

CA

95344

State

Zip Code

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

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C/O Ralph, Lloyd, &/or Fred Fagundes, Fagundes Dairy

Legal owner name: C/O Ralph, Lloyd, &/or Fred Fagundes, Fagundes Dairy

Telephone no.: (209) 383-6046

Landline

Cellular

P.O. Box 2717

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	2,014	88	0	575	321	969
Number under roof	0	0	0	0	0	0
Maximum number	2,014	88	0	575	321	969
Average number	2,014	88	0	575	321	969
Avg live weight (lbs)	1,300	1,400	0	750		

Predominant milk cow breed: Holstein

Average milk production: 60 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 60,563.75 tons per reporting period

Total nitrogen from manure: 781,098.00 lbs per reporting period

After ammonia losses (30% loss applied): 546,768.60 lbs per reporting period

Total phosphorus from manure: 124,683.99 lbs per reporting period

Total potassium from manure: 372,467.60 lbs per reporting period

Total salt from manure: 968,527.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 41,075,000 gallons

Total nitrogen generated: 110,291.77 lbs

Total phosphorus generated: 19,618.03 lbs

Total potassium generated: 170,745.33 lbs

Total salt generated: 832,442.12 lbs

<u>41,075,000 gallons applied</u>	
+	<u>0 gallons exported</u>
-	<u>0 gallons imported</u>
=	<u>41,075,000 gallons generated</u>

D. FRESH WATER SOURCES

Source Description	Type
Domestic Well - Calf Ranch	Ground water
Domestic Well - Dairy #1 DW	Ground water
Domestic Well - Dairy #2 DW	Ground water
Domestic Well - Dairy #3 DW	Ground water
Domestic Well - Dairy #4 DW	Ground water

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Source Description	Type
Domestic Well - Dixon 1 DW	Ground water
Domestic Well - Dixon 4 DW	Ground water
Domestic Well - E14-2 DW	Ground water
Domestic Well - Looney 4 DW	Ground water
Domestic Well - Velasco DW	Ground water
Irrigation Water - Baker 1 AW	Ground water
Irrigation Water - Blair 2 -3 #2 AW	Ground water
Irrigation Water - Dixon 1 AW	Ground water
Irrigation Water - Dixon 3 AW	Ground water
Irrigation Water - E14-1 AW	Ground water
Irrigation Water - Looney 1 AW	Ground water
Irrigation Water - Looney 3 AW	Ground water
Irrigation Water - Upton	Ground water
Irrigation Water - Velasco 1 AW	Ground water
Irrigation Water - Velasco 2 AW	Ground water
Irrigation Water - Weholt	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

Date	Material type / Description	Quantity	Reporting basis	Moist. (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	Corral solids <i>Solid Manure Import</i>	2,400.00 ton	As-is	80.2	24,900.00	7,090.00	7,550.00		23.30

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	119,520.00	34,032.00	36,240.00	221,443.20
Process wastewater	0.00	0.00	0.00	0.00
Total imports for all materials	119,520.00	34,032.00	36,240.00	221,443.20

G. NUTRIENT EXPORTS

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No solid nutrient exports entered.

No liquid nutrient exports entered.

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APPLICATION AREA**A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Baker	98	98	0	none	X026-X170-X035-XXXX
Blair 1	97	97	1	none	X025-X200-X012-XXXX
Blair 2-1	40	40	1	process wastewater	X025-X190-X002-XXXX
Blair 2-2	40	40	1	process wastewater	X025-X190-X002-XXXX
Blair 2-3	80	80	1	none	X025-X190-X002-XXXX
Correa	145	145	2	both	X025-X018-X007-XXXX
Dixon 1	60	60	2	both	X025-X180-X003-XXXX
Dixon 2	75	75	2	both	X025-X190-X001-XXXX
Dixon 3	85	85	2	both	X025-X130-X005-XXXX
Dixon 4	25	25	2	both	X025-X130-X005-XXXX
E14-1	28	28	0	none	X026-X231-X014-XXXX
E14-2	39	39	0	none	X026-X231-X013-XXXX
E14-3	38	38	0	none	X026-X231-X001-XXXX
E14-4	20	20	0	none	X026-X231-X002-XXXX
East Chowchilla	1,000	1,000	1	manure	X030-X080-X003-XXXX X030-X090-X003-XXXX X030-X130-X006-XXXX X030-X130-X007-XXXX X030-X130-X019-XXXX X030-X130-X026-XXXX X030-X130-X031-XXXX X030-X130-X032-XXXX X030-X130-X033-XXXX X030-X130-X035-XXXX X030-X130-X036-XXXX X030-X130-X037-XXXX X030-X130-X038-XXXX X030-X130-X039-XXXX X030-X140-X003-XXXX X030-X140-X004-XXXX X030-X140-X007-XXXX X030-X140-X008-XXXX X030-X140-X011-XXXX X030-X140-X012-XXXX

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Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
East Chowchilla (2)	790	790	0	none	X030-X140-X013-XXXX X030-X130-X029-XXXX X030-X130-X040-XXXX X030-X140-X014-XXXX
Ginsburg	62	62	2	manure	X001-X230-X039-XXXX X001-X230-X040-XXXX X001-X230-X041-XXXX X001-X230-X043-XXXX X001-X400-X006-XXXX
Ginsburg 2	9	9	2	manure	X001-X230-X021-XXXX X001-X230-X022-XXXX
Looney 1	38	38	2	manure	X025-X130-X004-XXXX
Looney 2	40	40	2	manure	X025-X140-X003-XXXX
Looney 3	39	39	2	manure	X025-X140-X008-XXXX
Looney 4	97	97	2	manure	X025-X140-X005-XXXX
Marge 1	84	84	1	none	X025-X200-X013-XXXX
Proctor 1	80	80	0	none	X025-X150-X020-XXXX
Proctor 2	49	49	0	none	X025-X150-X021-XXXX
Proctor 3	38	38	0	none	X025-X150-X022-XXXX
Proctor 4	37	37	0	none	X025-X150-X019-XXXX
RD8-1	80	80	0	none	X020-X022-X008-XXXX
Upton 1	115	115	3	both	X025-X130-X006-XXXX
V.C. 1	83	83	0	none	X025-X210-X001-XXXX
V.C. 3	38	38	0	none	X025-X210-X003-XXXX
VBLlease 1	19	19	0	none	X026-X170-X014-XXXX
Velasco 1	80	80	2	manure	X025-X200-X003-XXXX
Velasco 2	50	50	2	manure	X025-X200-X003-XXXX
W14-1	38	38	0	none	X025-X150-X008-XXXX
Weholt 1	36	36	2	manure	X025-X200-X008-XXXX
Weholt 2	19	19	2	manure	X025-X200-X005-XXXX
West 1	78	78	0	none	X024-X080-X026-XXXX
West 2	77	77	0	none	X024-X080-X010-XXXX
Totals for areas that were used for application	2,055	2,055	36		
Totals for areas that were not used for application	1,891	1,891	3		
Land application area totals	3,946	3,946	39		

B. CROPS AND HARVESTS

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Blair 1Field name: Blair 1

10/10/2005: Clover-grass, hay

Crop: Clover-grass, hay Acres planted: 97 Plant date: 10/10/2005

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/30/2023	291.00 ton	Dry-weight		82.6	54,100.00	5,000.00	42,400.00		11.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	228.00	30.00	252.00	0.00
Total actual harvest content	3.00	56.48	5.22	44.27	123.19

Blair 2-1Field name: Blair 2-1

11/05/2021: Clover-grass, hay

Crop: Clover-grass, hay Acres planted: 40 Plant date: 11/05/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/30/2023	168.00 ton	Dry-weight		81.1	42,900.00	3,600.00	36,800.00		11.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	228.00	30.00	252.00	0.00
Total actual harvest content	4.20	68.11	5.72	58.42	179.40

Blair 2-2Field name: Blair 2-2

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Blair 2-2

11/05/2021: Clover-grass, hay

Crop: Clover-grass, hay Acres planted: 40 Plant date: 11/05/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/30/2023	121.00 <i>ton</i>	Dry-weight		74.8	42,300.00	3,800.00	37,600.00		11.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	228.00	30.00	252.00	0.00
Total actual harvest content	3.03	64.49	5.79	57.32	181.43

Blair 2-3Field name: Blair 2-3

10/10/2005: Clover-grass, hay

Crop: Clover-grass, hay Acres planted: 80 Plant date: 10/10/2005

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/30/2023	294.00 <i>ton</i>	Dry-weight		80.4	36,100.00	3,600.00	38,300.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	228.00	30.00	252.00	0.00
Total actual harvest content	3.68	52.01	5.19	55.17	151.26

CorreaField name: Correa

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Correa

11/15/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 145 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	1,862.00 ton	Dry-weight		62.6	16,100.00	4,600.00	31,800.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	12.84	154.65	44.18	305.45	1,056.59

06/11/2023: Corn, silage

Crop: Corn, silage Acres planted: 145 Plant date: 06/11/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	4,338.00 ton	Dry-weight		69.0	13,100.00	3,000.00	22,000.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.92	242.99	55.65	408.07	1,891.97

Dixon 1

Field name: Dixon 1

11/17/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 60 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	989.00 ton	Dry-weight		70.8	15,600.00	3,700.00	23,200.00		9.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	16.48	150.17	35.62	223.33	943.37

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Dixon 1

06/11/2023: Corn, silage

Crop: Corn, silage Acres planted: 60 Plant date: 06/11/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	1,935.00 ton	Dry-weight		65.4	10,100.00	2,700.00	14,900.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.25	225.40	60.26	332.52	1,472.92

Dixon 2

Field name: Dixon 2

11/17/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 75 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,198.00 ton	Dry-weight		64.6	12,900.00	3,200.00	17,600.00		8.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	15.97	145.89	36.19	199.04	904.73

06/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	2,461.00 ton	Dry-weight		66.4	10,800.00	2,200.00	18,500.00		7.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.81	238.15	48.51	407.94	1,697.89

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Dixon 3

Field name: Dixon 3

11/17/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 85 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,187.00 ton	Dry-weight		62.7	14,800.00	3,900.00	24,800.00		9.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	13.96	154.18	40.63	258.36	948.01

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 85 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	2,791.00 ton	Dry-weight		69.0	11,500.00	2,000.00	13,400.00		8.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.84	234.12	40.72	272.80	1,628.63

Dixon 4

Field name: Dixon 4

11/15/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 25 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	412.00 ton	Dry-weight		72.9	12,900.00	6,000.00	29,300.00		14.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	16.48	115.22	53.59	261.71	1,286.23

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Dixon 4

06/11/2023: Corn, silage

Crop: Corn, silage Acres planted: 25 Plant date: 06/11/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	824.00 ton	Dry-weight		74.1	12,200.00	2,500.00	18,500.00		7.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.96	208.29	42.68	315.86	1,195.13

East ChowchillaField name: East Chowchilla

11/17/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 440 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	7,023.00 ton	Dry-weight		67.3	10,900.00	2,800.00	16,900.00		9.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	15.96	113.78	29.23	176.41	981.24

GinsburgField name: Ginsburg

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Ginsburg

11/17/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 62 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	1,022.00 ton	Dry-weight		70.9	15,100.00	3,900.00	24,300.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	16.48	144.86	37.42	233.12	1,007.33

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 62 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	2,040.00 ton	Dry-weight		69.8	12,000.00	2,700.00	13,200.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.90	238.48	53.66	262.33	1,271.91

Ginsburg 2

Field name: Ginsburg 2

11/15/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 9 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	152.00 ton	Dry-weight		70.9	15,100.00	3,900.00	24,300.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	16.89	148.42	38.33	238.85	1,032.08

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Ginsburg 2

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 9 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	296.00 ton	Dry-weight		69.8	12,000.00	2,700.00	13,200.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.89	238.38	53.64	262.22	1,271.35

Looney 1Field name: Looney 1

11/15/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 38 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	645.00 ton	Dry-weight		68.9	10,600.00	3,800.00	26,100.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	16.97	111.91	40.12	275.55	802.38

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	1,250.00 ton	Dry-weight		68.9	9,700.00	2,400.00	12,200.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.89	198.47	49.11	249.62	1,227.63

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Looney 2Field name: Looney 2

11/17/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 40 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	648.00 ton	Dry-weight		67.5	13,900.00	4,000.00	24,300.00		9.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	16.20	146.37	42.12	255.88	979.29

07/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 07/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	1,287.00 ton	Dry-weight		67.8	11,400.00	2,600.00	22,200.00		8.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.18	236.22	53.87	460.00	1,761.26

Looney 3Field name: Looney 3

11/17/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 39 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	662.00 ton	Dry-weight		66.2	12,600.00	3,200.00	21,100.00		9.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	16.97	144.58	36.72	242.12	1,101.57

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Looney 3

07/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 07/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	1,152.00 <i>ton</i>	Dry-weight		68.0	13,200.00	3,000.00	20,700.00		7.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.54	249.54	56.71	391.33	1,474.56

Looney 4Field name: Looney 4

11/15/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 97 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	1,332.00 <i>ton</i>	Dry-weight		52.2	11,700.00	3,800.00	26,900.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	13.73	153.59	49.89	353.14	1,365.29

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 97 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	3,198.00 <i>ton</i>	Dry-weight		75.9	13,200.00	2,500.00	21,100.00		7.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.97	209.76	39.73	335.30	1,191.83

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Marge 1Field name: Marge 1

10/10/2005: Clover-grass, hay

Crop: Clover-grass, hay Acres planted: 84 Plant date: 10/10/2005

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/30/2023	253.00 ton	Dry-weight		79.2	40,900.00	3,600.00	42,300.00		13.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	228.00	30.00	252.00	0.00
Total actual harvest content	3.01	51.25	4.51	53.00	169.15

Upton 1Field name: Upton 1

11/15/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 80 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	1,337.00 ton	Dry-weight		77.5	19,100.00	4,600.00	37,000.00		12.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	16.71	143.64	34.59	278.26	925.04

04/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 04/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/09/2023	2,514.00 ton	Dry-weight		65.3	11,300.00	2,900.00	12,400.00		5.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	31.43	246.44	63.25	270.43	1,177.68

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Upton 1

09/15/2023: Clover-grass, hay

Crop: Clover-grass, hay Acres planted: 35 Plant date: 09/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/30/2023	154.00 <i>ton</i>	Dry-weight		81.7	54,100.00	4,900.00	36,100.00		11.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	228.00	30.00	252.00	0.00
Total actual harvest content	4.40	87.12	7.89	58.14	181.98

Velasco 1Field name: Velasco 1

11/15/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 80 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	1,276.00 <i>ton</i>	Dry-weight		57.1	11,000.00	3,300.00	16,400.00		8.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	15.95	150.54	45.16	224.44	1,108.49

07/02/2023: Corn, silage

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	2,568.00 <i>ton</i>	Dry-weight		67.8	11,900.00	3,700.00	11,500.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.10	246.00	76.49	237.73	1,323.03

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Velasco 2Field name: Velasco 2

11/15/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 50 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	798.00 ton	Dry-weight		59.0	11,200.00	3,300.00	17,700.00		8.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	15.96	146.58	43.19	231.64	1,060.06

08/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 50 Plant date: 08/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	1,649.00 ton	Dry-weight		71.3	12,300.00	3,300.00	17,300.00		7.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.98	232.85	62.47	327.50	1,400.86

Weholt 1Field name: Weholt 1

11/15/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 36 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	584.00 ton	Dry-weight		80.4	23,100.00	5,300.00	38,000.00		12.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	16.22	146.90	33.70	241.65	782.17

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Weholt 1

04/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 04/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/09/2023	898.00 <i>ton</i>	Dry-weight		45.1	10,800.00	2,500.00	5,800.00		2.50
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		30.00 240.00 45.00 198.00				0.00			
Total actual harvest content		24.94 295.80 68.47 158.86				684.73			

Weholt 2

Field name: Weholt 2

11/15/2022: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 19 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	298.00 <i>ton</i>	Dry-weight		80.5	23,000.00	5,000.00	38,700.00		12.30
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		16.00 160.00 25.60 132.80				0.00			
Total actual harvest content		15.68 140.69 30.58 236.72				752.37			

04/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 19 Plant date: 04/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/09/2023	465.00 <i>ton</i>	Dry-weight		48.2	11,600.00	2,800.00	6,200.00		2.40
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		30.00 240.00 45.00 198.00				0.00			
Total actual harvest content		24.47 294.11 70.99 157.20				608.51			

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

Blair 1 - 10/10/2005: Clover-grass, hay

Field name: Blair 1Crop: Clover-grass, hay Plant date: 10/10/2005

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
03/15/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.61	0.00	0.00	445.21	11,250,000.00 gal
Application event totals		6.61	0.00	0.00	445.21	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.52	0.00	0.00	438.80	11,088,000.00 gal
Application event totals		6.52	0.00	0.00	438.80	
05/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.53	0.00	0.00	439.51	11,106,000.00 gal
Application event totals		6.53	0.00	0.00	439.51	
06/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.55	0.00	0.00	440.94	11,142,000.00 gal
Application event totals		6.55	0.00	0.00	440.94	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.52	0.00	0.00	438.80	11,088,000.00 gal
Application event totals		6.52	0.00	0.00	438.80	

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Blair 1 - 10/10/2005: Clover-grass, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/12/2023	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
Irrigation Water - E14-1 AW	Ground water	6.48	0.00	0.00	436.66	11,034,000.00 gal
Application event totals		6.48	0.00	0.00	436.66	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.47	0.00	0.00	435.95	11,016,000.00 gal
Application event totals		6.47	0.00	0.00	435.95	
10/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.44	0.00	0.00	433.81	10,962,000.00 gal
Application event totals		6.44	0.00	0.00	433.81	

Blair 2-1 - 11/05/2021: Clover-grass, hay

Field name: Blair 2-1

Crop: Clover-grass, hay

Plant date: 11/05/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.54	0.00	0.00	440.49	4,590,000.00 gal
Application event totals		6.54	0.00	0.00	440.49	
04/14/2023	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
Irrigation Water - E14-1 AW	Ground water	6.26	0.00	0.00	421.49	4,392,000.00 gal
Application event totals		6.26	0.00	0.00	421.49	

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Blair 2-1 - 11/05/2021: Clover-grass, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.26	0.00	0.00	421.49	4,392,000.00 gal
Application event totals		6.26	0.00	0.00	421.49	
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
Lagoon Water	Process wastewater	24.42	6.27	64.42	272.10	705,000.00 gal
Irrigation Water - E14-1 AW	Ground water	6.36	0.00	0.00	428.40	4,464,000.00 gal
Application event totals		30.78	6.27	64.42	700.50	
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
Irrigation Water - E14-1 AW	Ground water	6.36	0.00	0.00	428.40	4,464,000.00 gal
Application event totals		6.36	0.00	0.00	428.40	
08/12/2023	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
Irrigation Water - E14-1 AW	Ground water	6.54	0.00	0.00	440.49	4,590,000.00 gal
Application event totals		6.54	0.00	0.00	440.49	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.62	0.00	0.00	445.67	4,644,000.00 gal
Application event totals		6.62	0.00	0.00	445.67	
10/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.54	0.00	0.00	440.49	4,590,000.00 gal
Application event totals		6.54	0.00	0.00	440.49	

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Blair 2-2 - 11/05/2021: Clover-grass, hay

Field name: Blair 2-2

Crop: Clover-grass, hay

Plant date: 11/05/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.82	0.00	0.00	459.49	4,788,000.00 gal
Application event totals		6.82	0.00	0.00	459.49	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.09	0.00	0.00	274.61	4,752,000.00 gal
Application event totals		1.09	0.00	0.00	274.61	
05/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	25.97	6.67	68.53	289.47	750,000.00 gal
Irrigation Water - E14-1 AW	Ground water	6.77	0.00	0.00	456.04	4,752,000.00 gal
Application event totals		32.74	6.67	68.53	745.50	
06/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.85	0.00	0.00	461.22	4,806,000.00 gal
Application event totals		6.85	0.00	0.00	461.22	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.90	0.00	0.00	464.67	4,842,000.00 gal
Application event totals		6.90	0.00	0.00	464.67	

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Blair 2-2 - 11/05/2021: Clover-grass, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/12/2023	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
Irrigation Water - E14-1 AW	Ground water	6.95	0.00	0.00	468.13	4,878,000.00 gal
Application event totals		6.95	0.00	0.00	468.13	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	4.16	0.00	0.00	279.84	2,916,000.00 gal
Application event totals		4.16	0.00	0.00	279.84	
10/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	4.08	0.00	0.00	274.66	2,862,000.00 gal
Application event totals		4.08	0.00	0.00	274.66	

Blair 2-3 - 10/10/2005: Clover-grass, hay

Field name: Blair 2-3

Crop: Clover-grass, hay

Plant date: 10/10/2005

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.78	0.00	0.00	456.90	9,522,000.00 gal
Application event totals		6.78	0.00	0.00	456.90	
04/14/2023	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
Irrigation Water - E14-1 AW	Ground water	6.82	0.00	0.00	459.49	9,576,000.00 gal
Application event totals		6.82	0.00	0.00	459.49	

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Blair 2-3 - 10/10/2005: Clover-grass, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.89	0.00	0.00	463.81	9,666,000.00 gal
Application event totals		6.89	0.00	0.00	463.81	
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
Irrigation Water - E14-1 AW	Ground water	6.85	0.00	0.00	461.22	9,612,000.00 gal
Application event totals		6.85	0.00	0.00	461.22	
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
Irrigation Water - E14-1 AW	Ground water	6.86	0.00	0.00	462.08	9,630,000.00 gal
Application event totals		6.86	0.00	0.00	462.08	
08/12/2023	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
Irrigation Water - E14-1 AW	Ground water	6.87	0.00	0.00	462.95	9,648,000.00 gal
Application event totals		6.87	0.00	0.00	462.95	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.81	0.00	0.00	458.63	9,558,000.00 gal
Application event totals		6.81	0.00	0.00	458.63	
10/09/2023	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
Irrigation Water - E14-1 AW	Ground water	6.82	0.00	0.00	459.49	9,576,000.00 gal
Application event totals		6.82	0.00	0.00	459.49	

Correa - 11/15/2022: Oats, silage-soft dough

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Correa - 11/15/2022: Oats, silage-soft dough

Field name: Correa

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/01/2023	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
Irrigation Water - Dixon 1 AW	Ground water	1.04	0.00	0.00	263.14	20,142,000.00 gal
Application event totals		1.04	0.00	0.00	263.14	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	33.63	8.62	72.52	377.44	2,710,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.04	0.00	0.00	262.90	20,124,000.00 gal
Application event totals		34.67	8.62	72.52	640.34	
12/27/2023	Broadcast/incorporate	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
Solid Manure	Corral solids	132.43	24.19	273.92	0.00	1,600.00 ton
Application event totals		132.43	24.19	273.92	0.00	

Correa - 06/11/2023: Corn, silage

Field name: Correa

Crop: Corn, silage

Plant date: 06/11/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	124.15	22.68	256.80	0.00	1,500.00 ton
Application event totals		124.15	22.68	256.80	0.00	

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Correa - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	85.20	11.68	97.47	488.25	3,085,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.23	0.00	0.00	311.35	23,832,000.00 gal
Application event totals		86.44	11.68	97.47	799.60	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 1 AW	Ground water	1.24	0.00	0.00	311.82	23,868,000.00 gal
Application event totals		1.24	0.00	0.00	311.82	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	85.48	11.72	97.79	489.84	3,095,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.24	0.00	0.00	311.58	23,850,000.00 gal
Application event totals		86.72	11.72	97.79	801.42	
08/07/2023	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
Irrigation Water - Dixon 1 AW	Ground water	1.24	0.00	0.00	311.82	23,868,000.00 gal
Application event totals		1.24	0.00	0.00	311.82	
08/22/2023	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
Lagoon Water	Process wastewater	29.38	7.54	77.51	327.40	3,075,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.24	0.00	0.00	311.58	23,850,000.00 gal
Application event totals		30.61	7.54	77.51	638.98	

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Correa - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 1 AW	Ground water	1.23	0.00	0.00	311.11	23,814,000.00 gal
Application event totals		1.23	0.00	0.00	311.11	

Dixon 1 - 11/17/2022: Oats, silage-soft dough

Field name: Dixon 1

Crop: Oats, silage-soft dough Plant date: 11/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	99.79	13.68	114.15	571.81	1,495,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.03	0.00	0.00	260.85	8,262,000.00 gal
Application event totals		100.82	13.68	114.15	832.65	
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
Irrigation Water - Dixon 1 AW	Ground water	1.04	0.00	0.00	263.12	8,334,000.00 gal
Application event totals		1.04	0.00	0.00	263.12	
12/09/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	100.01	18.27	206.87	0.00	500.00 ton
Application event totals		100.01	18.27	206.87	0.00	

Dixon 1 - 06/11/2023: Corn, silage

Field name: Dixon 1

Crop: Corn, silage Plant date: 06/11/2023

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Dixon 1 - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/09/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	104.01	19.00	215.14	0.00	520.00 ton
Application event totals		104.01	19.00	215.14	0.00	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 1 AW	Ground water	1.28	0.00	0.00	323.36	10,242,000.00 gal
Application event totals		1.28	0.00	0.00	323.36	
06/29/2023	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
Lagoon Water	Process wastewater	52.93	13.58	114.15	594.07	1,765,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.20	0.00	0.00	301.76	9,558,000.00 gal
Application event totals		54.12	13.58	114.15	895.83	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 1 AW	Ground water	1.28	0.00	0.00	323.93	10,260,000.00 gal
Application event totals		1.28	0.00	0.00	323.93	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	52.63	13.50	113.50	590.70	1,755,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.18	0.00	0.00	297.22	9,414,000.00 gal
Application event totals		53.80	13.50	113.50	887.92	

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Dixon 1 - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	40.63	10.42	87.63	456.07	1,355,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.26	0.00	0.00	316.54	10,026,000.00 gal
Application event totals		41.89	10.42	87.63	772.61	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 1 AW	Ground water	1.25	0.00	0.00	315.40	9,990,000.00 gal
Application event totals		1.25	0.00	0.00	315.40	

Dixon 2 - 11/17/2022: Oats, silage-soft dough

Field name: Dixon 2

Crop: Oats, silage-soft dough Plant date: 11/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	102.79	14.09	117.59	589.02	1,925,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.07	0.00	0.00	268.69	10,638,000.00 gal
Application event totals		103.85	14.09	117.59	857.71	
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
Irrigation Water - Dixon 1 AW	Ground water	1.07	0.00	0.00	270.05	10,692,000.00 gal
Application event totals		1.07	0.00	0.00	270.05	

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Dixon 2 - 11/17/2022: Oats, silage-soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
12/09/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Solid Manure	Corral solids	91.21	16.66	188.67	0.00
Application event totals		91.21	16.66	188.67	0.00
					570.00 ton

Dixon 2 - 06/18/2023: Corn, silage

Field name: Dixon 2

Crop: Corn, silage

Plant date: 06/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/30/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Solid Manure	Corral solids	112.01	20.46	231.69	0.00
Application event totals		112.01	20.46	231.69	0.00
06/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Water - Dixon 1 AW	Ground water	1.27	0.00	0.00	319.61
Application event totals		1.27	0.00	0.00	319.61
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon Water	Process wastewater	45.63	13.52	114.91	543.82
Irrigation Water - Dixon 1 AW	Ground water	1.29	0.00	0.00	324.16
Application event totals		46.92	13.52	114.91	867.97
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Water - Dixon 1 AW	Ground water	1.30	0.00	0.00	328.70
Application event totals		1.30	0.00	0.00	328.70

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Dixon 2 - 06/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	112.93	15.48	129.20	647.15	2,115,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.31	0.00	0.00	330.52	13,086,000.00 gal
Application event totals		114.24	15.48	129.20	977.67	
08/15/2023	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	Process wastewater	44.02	11.29	94.94	494.10	1,835,000.00 gal
Irrigation Water - Dixon 1 AW	Ground water	1.18	0.00	0.00	296.88	11,754,000.00 gal
Application event totals		45.20	11.29	94.94	790.98	
08/27/2023	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
Irrigation Water - Dixon 1 AW	Ground water	1.20	0.00	0.00	301.42	11,934,000.00 gal
Application event totals		1.20	0.00	0.00	301.42	

Dixon 3 - 11/17/2022: Oats, silage-soft dough

Field name:	Dixon 3	Plant date:	11/17/2022	
Crop:	Oats, silage-soft dough			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Lagoon Water	Process wastewater	91.64	12.56	104.83
Irrigation Water - Dixon 3 AW	Ground water	1.09	0.00	0.00
Application event totals		92.73	12.56	104.83
				800.71

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Dixon 3 - 11/17/2022: Oats, silage-soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 3 AW	Ground water	1.08	0.00	0.00	272.38	12,222,000.00 gal
Application event totals		1.08	0.00	0.00	272.38	
12/10/2023	Broadcast/incorporate	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
Solid Manure	Corral solids	112.95	20.63	233.64	0.00	800.00 ton
Application event totals		112.95	20.63	233.64	0.00	

Dixon 3 - 06/08/2023: Corn, silage

Field name:	Dixon 3					
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/21/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	112.95	20.63	233.64	0.00	800.00 ton
Application event totals		112.95	20.63	233.64	0.00	
05/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 3 AW	Ground water	1.27	0.00	0.00	319.72	14,346,000.00 gal
Application event totals		1.27	0.00	0.00	319.72	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	40.34	10.35	106.43	449.53	2,475,000.00 gal
Irrigation Water - Dixon 3 AW	Ground water	1.26	0.00	0.00	318.91	14,310,000.00 gal
Application event totals		41.60	10.35	106.43	768.44	

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Dixon 3 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/12/2023	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
Irrigation Water - Dixon 3 AW	Ground water	1.27	0.00	0.00	320.52	14,382,000.00 gal
Application event totals		1.27	0.00	0.00	320.52	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	40.66	10.43	107.29	453.16	2,495,000.00 gal
Irrigation Water - Dixon 3 AW	Ground water	1.27	0.00	0.00	319.72	14,346,000.00 gal
Application event totals		41.93	10.43	107.29	772.87	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	118.49	16.25	135.56	679.01	2,515,000.00 gal
Irrigation Water - Dixon 3 AW	Ground water	1.26	0.00	0.00	318.91	14,310,000.00 gal
Application event totals		119.76	16.25	135.56	997.93	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 3 AW	Ground water	1.27	0.00	0.00	320.52	14,382,000.00 gal
Application event totals		1.27	0.00	0.00	320.52	

Dixon 4 - 11/15/2022: Oats, silage-soft dough

Field name: Dixon 4

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Dixon 4 - 11/15/2022: Oats, silage-soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	148.18	20.32	169.51	849.10	925,000.00 gal
Irrigation Water - Dixon 3 AW	Ground water	1.18	0.00	0.00	298.70	3,942,000.00 gal
Application event totals		149.36	20.32	169.51	1,147.80	
04/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 3 AW	Ground water	1.21	0.00	0.00	304.15	4,014,000.00 gal
Application event totals		1.21	0.00	0.00	304.15	

Dixon 4 - 06/11/2023: Corn, silage

Field name: Dixon 4

Crop: Corn, silage

Plant date: 06/11/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	48.00	8.77	99.30	0.00	100.00 ton
Application event totals		48.00	8.77	99.30	0.00	
06/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	120.94	16.58	138.36	693.05	755,000.00 gal
Irrigation Water - Dixon 3 AW	Ground water	1.32	0.00	0.00	334.16	4,410,000.00 gal
Application event totals		122.27	16.58	138.36	1,027.21	

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Dixon 4 - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 3 AW	Ground water	1.31	0.00	0.00	331.43	4,374,000.00 gal
Application event totals		1.31	0.00	0.00	331.43	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water	Process wastewater	49.93	14.80	125.73	595.00	775,000.00 gal
Irrigation Water - Dixon 3 AW	Ground water	1.34	0.00	0.00	336.88	4,446,000.00 gal
Application event totals		51.26	14.80	125.73	931.88	
08/07/2023	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
Irrigation Water - Dixon 1 AW	Ground water	1.32	0.00	0.00	334.16	4,410,000.00 gal
Application event totals		1.32	0.00	0.00	334.16	
08/22/2023	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
Lagoon Water	Process wastewater	52.18	13.38	112.53	585.65	725,000.00 gal
Irrigation Water - Dixon 3 AW	Ground water	1.34	0.00	0.00	336.88	4,446,000.00 gal
Application event totals		53.51	13.38	112.53	922.54	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Dixon 3 AW	Ground water	1.31	0.00	0.00	331.43	4,374,000.00 gal
Application event totals		1.31	0.00	0.00	331.43	

East Chowchilla - 11/17/2022: Oats, silage-soft dough

Field name: East Chowchilla

Crop: Oats, silage-soft dough

Plant date: 11/17/2022

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East Chowchilla - 11/17/2022: Oats, silage-soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/09/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Solid Manure	Corral solids	144.56	26.40	299.02	0.00
Application event totals		144.56	26.40	299.02	0.00

Ginsburg - 11/17/2022: Oats, silage-soft dough

Field name: Ginsburg

Crop: Oats, silage-soft dough

Plant date: 11/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
02/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Water - E14-1 AW	Ground water	8.06	0.00	0.00	542.74
Application event totals		8.06	0.00	0.00	542.74
03/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Water - E14-1 AW	Ground water	8.03	0.00	0.00	540.51
Application event totals		8.03	0.00	0.00	540.51
10/21/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Solid Manure	Corral solids	178.08	32.53	368.36	0.00
Application event totals		178.08	32.53	368.36	0.00

Ginsburg - 06/22/2023: Corn, silage

Field name: Ginsburg

Crop: Corn, silage

Plant date: 06/22/2023

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Ginsburg - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	270.99	49.50	560.55	0.00	1,400.00 ton
Application event totals		270.99	49.50	560.55	0.00	
06/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.04	0.00	0.00	541.63	8,748,000.00 gal
Application event totals		8.04	0.00	0.00	541.63	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.06	0.00	0.00	542.74	8,766,000.00 gal
Application event totals		8.06	0.00	0.00	542.74	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.04	0.00	0.00	541.63	8,748,000.00 gal
Application event totals		8.04	0.00	0.00	541.63	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Domestic Well - E14-2 DW	Ground water	5.64	0.00	0.00	0.00	8,730,000.00 gal
Application event totals		5.64	0.00	0.00	0.00	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.06	0.00	0.00	542.74	8,766,000.00 gal
Application event totals		8.06	0.00	0.00	542.74	

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Ginsburg - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/29/2023	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
Irrigation Water - E14-1 AW	Ground water	8.04	0.00	0.00	541.63	8,748,000.00 gal
Application event totals		8.04	0.00	0.00	541.63	
09/10/2023	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
Irrigation Water - E14-1 AW	Ground water	8.03	0.00	0.00	540.51	8,730,000.00 gal
Application event totals		8.03	0.00	0.00	540.51	

Ginsburg 2 - 11/15/2022: Oats, silage-soft dough

Field name:	Ginsburg 2					
Crop:	Oats, silage-soft dough					
Application date	Plant date: 11/15/2022					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/09/2023	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
Irrigation Water - E14-1 AW	Ground water	9.23	0.00	0.00	621.87	1,458,000.00 gal
Application event totals		9.23	0.00	0.00	621.87	
03/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.89	0.00	0.00	598.84	1,404,000.00 gal
Application event totals		8.89	0.00	0.00	598.84	
10/21/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	133.35	24.36	275.83	0.00	100.00 ton
Application event totals		133.35	24.36	275.83	0.00	

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Ginsburg 2 - 06/22/2023: Corn, silage

Field name: Ginsburg 2

Crop: Corn, silage

Plant date: 06/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	240.02	43.84	496.49	0.00	180.00 ton
Application event totals		240.02	43.84	496.49	0.00	
06/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.55	0.00	0.00	575.81	1,350,000.00 gal
Application event totals		8.55	0.00	0.00	575.81	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.78	0.00	0.00	591.16	1,386,000.00 gal
Application event totals		8.78	0.00	0.00	591.16	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.55	0.00	0.00	575.81	1,350,000.00 gal
Application event totals		8.55	0.00	0.00	575.81	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.89	0.00	0.00	598.84	1,404,000.00 gal
Application event totals		8.89	0.00	0.00	598.84	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.78	0.00	0.00	591.16	1,386,000.00 gal
Application event totals		8.78	0.00	0.00	591.16	

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Ginsburg 2 - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/29/2023	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
Irrigation Water - E14-1 AW	Ground water	8.55	0.00	0.00	575.81	1,350,000.00 gal
Application event totals		8.55	0.00	0.00	575.81	
09/10/2023	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
Irrigation Water - E14-1 AW	Ground water	8.89	0.00	0.00	598.84	1,404,000.00 gal
Application event totals		8.89	0.00	0.00	598.84	

Looney 1 - 11/15/2022: Oats, silage-soft dough

Field name: Looney 1

Crop: Oats, silage-soft dough Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.31	0.00	0.00	329.58	5,418,000.00 gal
Application event totals		1.31	0.00	0.00	329.58	
04/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.32	0.00	0.00	331.77	5,454,000.00 gal
Application event totals		1.32	0.00	0.00	331.77	
12/21/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	145.28	26.53	300.51	0.00	460.00 ton
Application event totals		145.28	26.53	300.51	0.00	

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Looney 1 - 06/22/2023: Corn, silage

Field name: Looney 1

Crop: Corn, silage

Plant date: 06/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	252.66	46.15	522.62	0.00	800.00 ton
Application event totals		252.66	46.15	522.62	0.00	
06/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.33	0.00	0.00	333.96	5,490,000.00 gal
Application event totals		1.33	0.00	0.00	333.96	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.32	0.00	0.00	331.77	5,454,000.00 gal
Application event totals		1.32	0.00	0.00	331.77	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.33	0.00	0.00	336.15	5,526,000.00 gal
Application event totals		1.33	0.00	0.00	336.15	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.33	0.00	0.00	333.96	5,490,000.00 gal
Application event totals		1.33	0.00	0.00	333.96	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.32	0.00	0.00	331.77	5,454,000.00 gal
Application event totals		1.32	0.00	0.00	331.77	

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Looney 1 - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/29/2023	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
Irrigation Water - Looney 1 AW	Ground water	1.33	0.00	0.00	336.15	5,526,000.00 gal
Application event totals		1.33	0.00	0.00	336.15	
09/10/2023	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
Irrigation Water - Looney 1 AW	Ground water	1.33	0.00	0.00	335.06	5,508,000.00 gal
Application event totals		1.33	0.00	0.00	335.06	

Looney 2 - 11/17/2022: Oats, silage-soft dough

Field name: Looney 2

Crop: Oats, silage-soft dough Plant date: 11/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/26/2023	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
Irrigation Water - Looney 1 AW	Ground water	1.31	0.00	0.00	328.70	5,688,000.00 gal
Application event totals		1.31	0.00	0.00	328.70	
04/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.30	0.00	0.00	327.66	5,670,000.00 gal
Application event totals		1.30	0.00	0.00	327.66	
12/28/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	180.02	32.88	372.37	0.00	600.00 ton
Application event totals		180.02	32.88	372.37	0.00	

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Looney 2 - 07/26/2023: Corn, silage

Field name: Looney 2

Crop: Corn, silage

Plant date: 07/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/14/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	300.03	54.80	620.61	0.00	1,000.00 ton
Application event totals		300.03	54.80	620.61	0.00	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	3.00	0.00	0.00	755.19	13,068,000.00 gal
Application event totals		3.00	0.00	0.00	755.19	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	2.99	0.00	0.00	754.15	13,050,000.00 gal
Application event totals		2.99	0.00	0.00	754.15	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	3.01	0.00	0.00	758.31	13,122,000.00 gal
Application event totals		3.01	0.00	0.00	758.31	

Looney 3 - 11/17/2022: Oats, silage-soft dough

Field name: Looney 3

Crop: Oats, silage-soft dough

Plant date: 11/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Looney 3 - 11/17/2022: Oats, silage-soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.24	0.00	0.00	311.53	5,256,000.00 gal
Application event totals		1.24	0.00	0.00	311.53	
04/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.23	0.00	0.00	310.46	5,238,000.00 gal
Application event totals		1.23	0.00	0.00	310.46	
12/28/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	190.79	34.85	394.64	0.00	620.00 ton
Application event totals		190.79	34.85	394.64	0.00	

Looney 3 - 07/26/2023: Corn, silage

Field name: Looney 3

Crop: Corn, silage

Plant date: 07/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	307.72	56.21	636.52	0.00	1,000.00 ton
Application event totals		307.72	56.21	636.52	0.00	
07/19/2023	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
Irrigation Water - Looney 1 AW	Ground water	3.02	0.00	0.00	761.75	12,852,000.00 gal
Application event totals		3.02	0.00	0.00	761.75	

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Looney 3 - 07/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/02/2023	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
Irrigation Water - Looney 1 AW	Ground water	3.02	0.00	0.00	760.68	12,834,000.00 gal
Application event totals		3.02	0.00	0.00	760.68	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	3.01	0.00	0.00	758.55	12,798,000.00 gal
Application event totals		3.01	0.00	0.00	758.55	

Looney 4 - 11/15/2022: Oats, silage-soft dough

Field name: Looney 4

Crop: Oats, silage-soft dough Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.24	0.00	0.00	312.70	13,122,000.00 gal
Application event totals		1.24	0.00	0.00	312.70	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.25	0.00	0.00	313.56	13,158,000.00 gal
Application event totals		1.25	0.00	0.00	313.56	
10/12/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	204.14	37.29	422.27	0.00	1,650.00 ton
Application event totals		204.14	37.29	422.27	0.00	

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Looney 4 - 06/02/2023: Corn, silage

Field name: Looney 4

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/14/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	272.19	49.72	563.03	0.00	2,200.00 ton
Application event totals		272.19	49.72	563.03	0.00	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.50	0.00	0.00	378.33	15,876,000.00 gal
Application event totals		1.50	0.00	0.00	378.33	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.50	0.00	0.00	377.91	15,858,000.00 gal
Application event totals		1.50	0.00	0.00	377.91	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.51	0.00	0.00	380.48	15,966,000.00 gal
Application event totals		1.51	0.00	0.00	380.48	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.51	0.00	0.00	379.62	15,930,000.00 gal
Application event totals		1.51	0.00	0.00	379.62	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.51	0.00	0.00	380.48	15,966,000.00 gal
Application event totals		1.51	0.00	0.00	380.48	

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Looney 4 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.49	0.00	0.00	374.47	15,714,000.00 gal
Application event totals		1.49	0.00	0.00	374.47	

Marge 1 - 10/10/2005: Clover-grass, hay

Field name: Marge 1

Crop: Clover-grass, hay Plant date: 10/10/2005

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.11	0.00	0.00	279.86	10,170,000.00 gal
Application event totals		1.11	0.00	0.00	279.86	
04/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.12	0.00	0.00	281.35	10,224,000.00 gal
Application event totals		1.12	0.00	0.00	281.35	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Looney 1 AW	Ground water	1.13	0.00	0.00	283.83	10,314,000.00 gal
Application event totals		1.13	0.00	0.00	283.83	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.96	0.00	0.00	468.87	10,260,000.00 gal
Application event totals		6.96	0.00	0.00	468.87	

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Marge 1 - 10/10/2005: Clover-grass, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.97	0.00	0.00	469.69	10,278,000.00 gal
Application event totals		6.97	0.00	0.00	469.69	
08/13/2023	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
Irrigation Water - E14-1 AW	Ground water	6.99	0.00	0.00	470.51	10,296,000.00 gal
Application event totals		6.99	0.00	0.00	470.51	
09/12/2023	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
Irrigation Water - E14-1 AW	Ground water	6.93	0.00	0.00	466.40	10,206,000.00 gal
Application event totals		6.93	0.00	0.00	466.40	
10/10/2023	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
Irrigation Water - E14-1 AW	Ground water	6.94	0.00	0.00	467.22	10,224,000.00 gal
Application event totals		6.94	0.00	0.00	467.22	

Upton 1 - 11/15/2022: Oats, silage-soft dough

Field name: Upton 1

Crop: Oats, silage-soft dough Plant date: 11/15/2022

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
Irrigation Water - E14-1 AW	Ground water	8.27	0.00	0.00	557.09	11,610,000.00 gal
Application event totals		8.27	0.00	0.00	557.09	

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Upton 1 - 11/15/2022: Oats, silage-soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.25	0.00	0.00	555.36	11,574,000.00 gal
Application event totals		8.25	0.00	0.00	555.36	
12/23/2023	Broadcast/incorporate	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
Solid Manure	Corral solids	165.02	30.14	341.34	0.00	1,100.00 ton
Application event totals		165.02	30.14	341.34	0.00	

Upton 1 - 04/01/2023: Corn, silage

Field name: Upton 1

Crop: Corn, silage

Plant date: 04/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.27	0.00	0.00	422.35	8,802,000.00 gal
Application event totals		6.27	0.00	0.00	422.35	
03/21/2023	Broadcast/incorporate	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
Solid Manure	Corral solids	255.03	46.58	527.52	0.00	1,700.00 ton
Application event totals		255.03	46.58	527.52	0.00	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.22	0.00	0.00	418.90	8,730,000.00 gal
Application event totals		6.22	0.00	0.00	418.90	

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Upton 1 - 04/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
05/03/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.30	0.00	0.00	424.08	8,838,000.00 gal
Application event totals		6.30	0.00	0.00	424.08	
05/17/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.22	0.00	0.00	418.90	8,730,000.00 gal
Application event totals		6.22	0.00	0.00	418.90	
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
Irrigation Water - E14-1 AW	Ground water	6.25	0.00	0.00	420.63	8,766,000.00 gal
Application event totals		6.25	0.00	0.00	420.63	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.23	0.00	0.00	419.76	8,748,000.00 gal
Application event totals		6.23	0.00	0.00	419.76	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	6.22	0.00	0.00	418.90	8,730,000.00 gal
Application event totals		6.22	0.00	0.00	418.90	
07/12/2023	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
Irrigation Water - E14-1 AW	Ground water	6.19	0.00	0.00	417.17	8,694,000.00 gal
Application event totals		6.19	0.00	0.00	417.17	

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Upton 1 - 04/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/26/2023	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
Irrigation Water - E14-1 AW	Ground water	6.22	0.00	0.00	418.90	8,730,000.00 gal
Application event totals		6.22	0.00	0.00	418.90	
08/09/2023	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
Irrigation Water - E14-1 AW	Ground water	6.25	0.00	0.00	420.63	8,766,000.00 gal
Application event totals		6.25	0.00	0.00	420.63	

Upton 1 - 09/15/2023: Clover-grass, hay

Field name: Upton 1

Crop: Clover-grass, hay

Plant date: 09/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/10/2023	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	Process wastewater	77.23	10.59	88.36	442.58	675,000.00 gal
Irrigation Water - E14-1 AW	Ground water	9.41	0.00	0.00	633.71	5,778,000.00 gal
Application event totals		86.64	10.59	88.36	1,076.30	

Velasco 1 - 11/15/2022: Oats, silage-soft dough

Field name: Velasco 1

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

Velasco 1 - 11/15/2022: Oats, silage-soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.05	0.00	0.00	542.41	11,304,000.00 gal
Application event totals		8.05	0.00	0.00	542.41	
04/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.07	0.00	0.00	543.27	11,322,000.00 gal
Application event totals		8.07	0.00	0.00	543.27	
12/28/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	187.52	34.25	387.88	0.00	1,250.00 ton
Application event totals		187.52	34.25	387.88	0.00	

Velasco 1 - 07/02/2023: Corn, silage

Field name: Velasco 1

Crop: Corn, silage

Plant date: 07/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.14	0.00	0.00	548.45	11,430,000.00 gal
Application event totals		8.14	0.00	0.00	548.45	
06/20/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	277.53	50.69	574.06	0.00	1,850.00 ton
Application event totals		277.53	50.69	574.06	0.00	

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Velasco 1 - 07/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.12	0.00	0.00	546.73	11,394,000.00 gal
Application event totals		8.12	0.00	0.00	546.73	
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
Irrigation Water - E14-1 AW	Ground water	8.09	0.00	0.00	545.00	11,358,000.00 gal
Application event totals		8.09	0.00	0.00	545.00	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.09	0.00	0.00	545.00	11,358,000.00 gal
Application event totals		8.09	0.00	0.00	545.00	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.14	0.00	0.00	548.45	11,430,000.00 gal
Application event totals		8.14	0.00	0.00	548.45	
08/31/2023	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
Irrigation Water - E14-1 AW	Ground water	8.04	0.00	0.00	541.54	11,286,000.00 gal
Application event totals		8.04	0.00	0.00	541.54	
09/14/2023	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
Irrigation Water - E14-1 AW	Ground water	7.94	0.00	0.00	534.63	11,142,000.00 gal
Application event totals		7.94	0.00	0.00	534.63	

Velasco 2 - 11/15/2022: Oats, silage-soft dough

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Velasco 2 - 11/15/2022: Oats, silage-soft dough

Field name: Velasco 2

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.21	0.00	0.00	552.77	7,200,000.00 gal
Application event totals		8.21	0.00	0.00	552.77	
04/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	8.19	0.00	0.00	551.39	7,182,000.00 gal
Application event totals		8.19	0.00	0.00	551.39	
12/28/2023	Broadcast/incorporate	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
Solid Manure	Corral solids	180.02	32.88	372.37	0.00	750.00 ton
Application event totals		180.02	32.88	372.37	0.00	

Velasco 2 - 08/17/2023: Corn, silage

Field name: Velasco 2

Crop: Corn, silage

Plant date: 08/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/05/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	261.63	47.79	541.17	0.00	1,090.00 ton
Application event totals		261.63	47.79	541.17	0.00	

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Velasco 2 - 08/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	19.14	0.00	0.00	1,289.34	16,794,000.00 gal
Application event totals		19.14	0.00	0.00	1,289.34	
08/24/2023	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
Irrigation Water - E14-1 AW	Ground water	19.08	0.00	0.00	1,285.20	16,740,000.00 gal
Application event totals		19.08	0.00	0.00	1,285.20	
09/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - E14-1 AW	Ground water	19.06	0.00	0.00	1,283.81	16,722,000.00 gal
Application event totals		19.06	0.00	0.00	1,283.81	

Weholt 1 - 11/15/2022: Oats, silage-soft dough

Field name: Weholt 1

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

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
Irrigation Water - Weholt	Ground water	3.45	0.00	0.00	344.86	5,130,000.00 gal
Application event totals		3.45	0.00	0.00	344.86	
04/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Weholt	Ground water	3.52	0.00	0.00	352.12	5,238,000.00 gal
Application event totals		3.52	0.00	0.00	352.12	

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Weholt 1 - 11/15/2022: Oats, silage-soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
12/23/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Solid Manure	Corral solids	183.35	33.49	379.26	0.00
Application event totals		183.35	33.49	379.26	0.00

Weholt 1 - 04/01/2023: Corn, silage

Field name: Weholt 1

Crop: Corn, silage

Plant date: 04/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
03/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Water - Weholt	Ground water	2.54	0.00	0.00	254.11
Application event totals		2.54	0.00	0.00	254.11
03/21/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Solid Manure	Corral solids	336.70	61.50	696.46	0.00
Application event totals		336.70	61.50	696.46	0.00
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)
Irrigation Water - Weholt	Ground water	2.55	0.00	0.00	255.32
Application event totals		2.55	0.00	0.00	255.32
05/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Water - Weholt	Ground water	2.53	0.00	0.00	252.90
Application event totals		2.53	0.00	0.00	252.90

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Weholt 1 - 04/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Weholt	Ground water	2.50	0.00	0.00	250.48	3,726,000.00 gal
Application event totals		2.50	0.00	0.00	250.48	
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
Irrigation Water - Weholt	Ground water	2.52	0.00	0.00	251.69	3,744,000.00 gal
Application event totals		2.52	0.00	0.00	251.69	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Weholt	Ground water	2.55	0.00	0.00	255.32	3,798,000.00 gal
Application event totals		2.55	0.00	0.00	255.32	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Weholt	Ground water	2.53	0.00	0.00	252.90	3,762,000.00 gal
Application event totals		2.53	0.00	0.00	252.90	
07/12/2023	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
Irrigation Water - Weholt	Ground water	2.55	0.00	0.00	255.32	3,798,000.00 gal
Application event totals		2.55	0.00	0.00	255.32	
07/26/2023	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
Irrigation Water - Weholt	Ground water	2.53	0.00	0.00	252.90	3,762,000.00 gal
Application event totals		2.53	0.00	0.00	252.90	

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Weholt 1 - 04/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Water - Weholt	Ground water	2.50	0.00	0.00	250.48
Application event totals		2.50	0.00	0.00	250.48

Weholt 2 - 11/15/2022: Oats, silage-soft dough

Field name: Weholt 2

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

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)
Irrigation Water - Weholt	Ground water	3.23	0.00	0.00	323.27
Application event totals		3.23	0.00	0.00	323.27
04/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Water - Weholt	Ground water	3.19	0.00	0.00	318.68
Application event totals		3.19	0.00	0.00	318.68
12/23/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Solid Manure	Corral solids	170.54	31.15	352.77	0.00
Application event totals		170.54	31.15	352.77	0.00

Weholt 2 - 04/01/2023: Corn, silage

Field name: Weholt 2

Crop: Corn, silage

Plant date: 04/01/2023

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Weholt 2 - 04/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Weholt	Ground water	2.57	0.00	0.00	256.78	2,016,000.00 gal
Application event totals		2.57	0.00	0.00	256.78	
03/21/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	334.77	61.15	692.47	0.00	530.00 ton
Application event totals		334.77	61.15	692.47	0.00	
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
Irrigation Water - Weholt	Ground water	2.68	0.00	0.00	268.24	2,106,000.00 gal
Application event totals		2.68	0.00	0.00	268.24	
05/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Weholt	Ground water	2.54	0.00	0.00	254.49	1,998,000.00 gal
Application event totals		2.54	0.00	0.00	254.49	
05/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Weholt	Ground water	2.59	0.00	0.00	259.07	2,034,000.00 gal
Application event totals		2.59	0.00	0.00	259.07	
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
Irrigation Water - Weholt	Ground water	2.36	0.00	0.00	236.15	1,854,000.00 gal
Application event totals		2.36	0.00	0.00	236.15	

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Weholt 2 - 04/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Weholt	Ground water	2.32	0.00	0.00	231.56	1,818,000.00 gal
Application event totals		2.32	0.00	0.00	231.56	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Water - Weholt	Ground water	2.41	0.00	0.00	240.73	1,890,000.00 gal
Application event totals		2.41	0.00	0.00	240.73	
07/12/2023	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
Irrigation Water - Weholt	Ground water	2.32	0.00	0.00	231.56	1,818,000.00 gal
Application event totals		2.32	0.00	0.00	231.56	
07/26/2023	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
Irrigation Water - Weholt	Ground water	2.36	0.00	0.00	236.15	1,854,000.00 gal
Application event totals		2.36	0.00	0.00	236.15	
08/09/2023	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
Irrigation Water - Weholt	Ground water	2.32	0.00	0.00	231.56	1,818,000.00 gal
Application event totals		2.32	0.00	0.00	231.56	

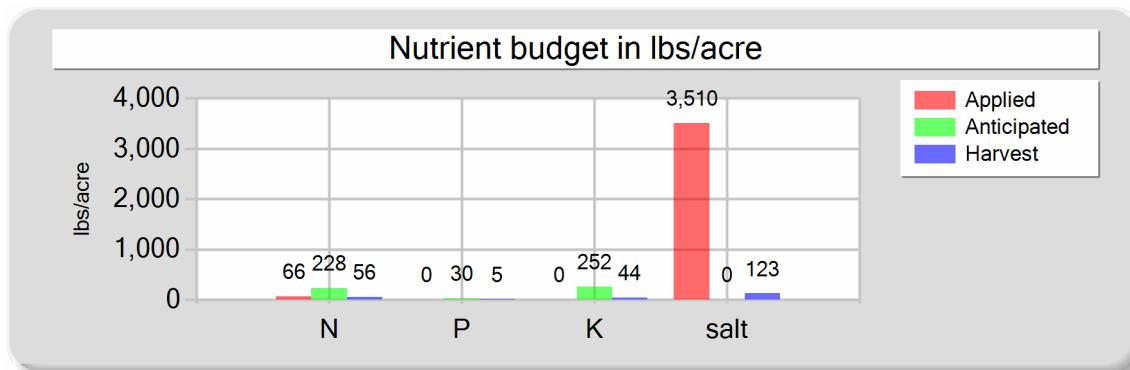
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B. NUTRIENT BUDGET

Blair 1 - 10/10/2005: Clover-grass, hay

Field name: Blair 1 Crop: Clover-grass, hay Plant date: 10/10/2005



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	52.11	0.00	0.00	3,509.68
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	66.11	0.00	0.00	3,509.68
Anticipated crop nutrient removal	228.00	30.00	252.00	0.00
Actual crop nutrient removal	56.48	5.22	44.27	123.19
Nutrient balance	9.63	-5.22	-44.27	3,386.49
Applied to removed ratio	1.17	0.00	0.00	28.49

Fresh water applied
88,686,000.00 gallons
3,266.00 acre-inches
33.67 inches/acre
Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Total harvests for the crop
1 harvests

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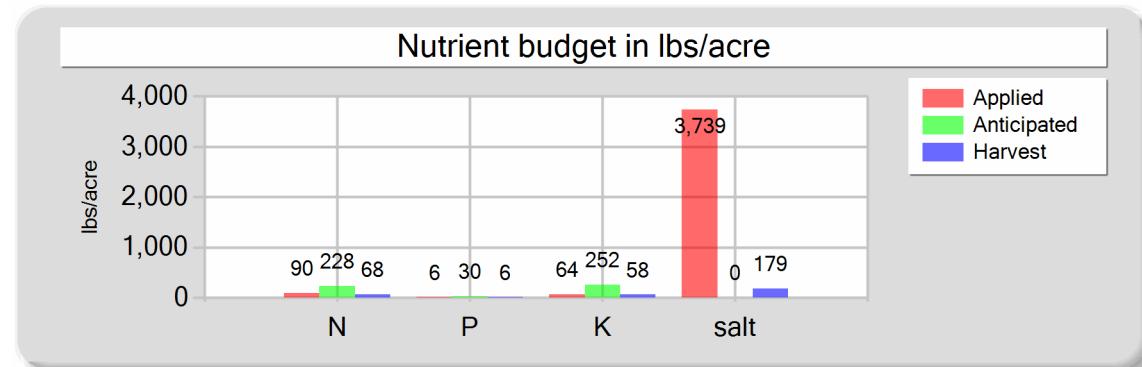
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Blair 2-1 - 11/05/2021: Clover-grass, hay

Field name: Blair 2-1

Crop: Clover-grass, hay

Plant date: 11/05/2021



	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	24.42	6.27	64.42	272.10
Fresh water	51.48	0.00	0.00	3,466.92
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	89.89	6.27	64.42	3,739.02
Anticipated crop nutrient removal	228.00	30.00	252.00	0.00
Actual crop nutrient removal	68.11	5.72	58.42	179.40
Nutrient balance	21.78	0.55	6.00	3,559.62
Applied to removed ratio	1.32	1.10	1.10	20.84

Fresh water applied

36,126,000.00 gallons
1,330.40 acre-inches
33.26 inches/acre

Process wastewater applied

705,000.00 gallons
25.96 acre-inches
0.65 inches/acre

Total harvests for the crop

1 harvests

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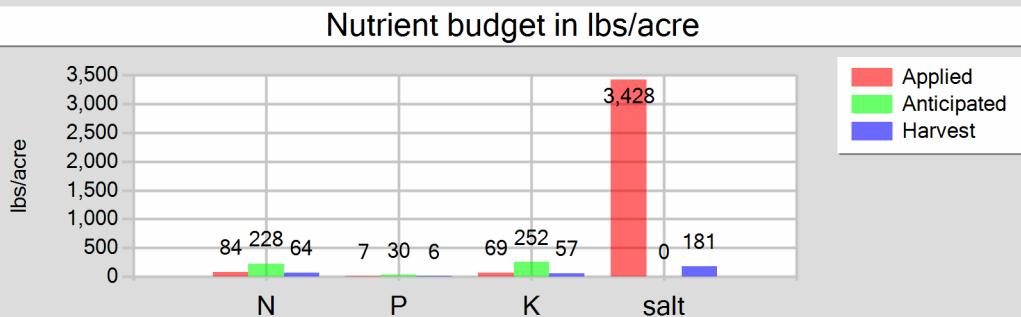
Reporting period 01/01/2023 to 12/31/2023.

Blair 2-2 - 11/05/2021: Clover-grass, hay

Field name: Blair 2-2

Crop: Clover-grass, hay

Plant date: 11/05/2021



	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	25.97	6.67	68.53	289.47
Fresh water	43.62	0.00	0.00	3,138.67
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	83.59	6.67	68.53	3,428.14
Anticipated crop nutrient removal	228.00	30.00	252.00	0.00
Actual crop nutrient removal	64.49	5.79	57.32	181.43
Nutrient balance	19.10	0.87	11.21	3,246.71
Applied to removed ratio	1.30	1.15	1.20	18.90

Fresh water applied

34,596,000.00 gallons
1,274.05 acre-inches
31.85 inches/acre

Process wastewater applied

750,000.00 gallons
27.62 acre-inches
0.69 inches/acre

Total harvests for the crop

1 harvests

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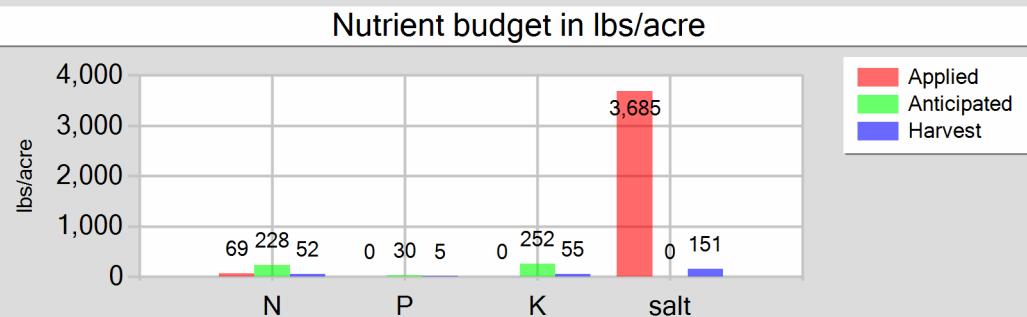
Reporting period 01/01/2023 to 12/31/2023.

Blair 2-3 - 10/10/2005: Clover-grass, hay

Field name: Blair 2-3

Crop: Clover-grass, hay

Plant date: 10/10/2005



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	54.71	0.00	0.00	3,684.58
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	68.71	0.00	0.00	3,684.58
Anticipated crop nutrient removal	228.00	30.00	252.00	0.00
Actual crop nutrient removal	52.01	5.19	55.17	151.26
Nutrient balance	16.70	-5.19	-55.17	3,533.31
Applied to removed ratio	1.32	0.00	0.00	24.36

Fresh water applied

76,788,000.00 gallons
2,827.84 acre-inches
35.35 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

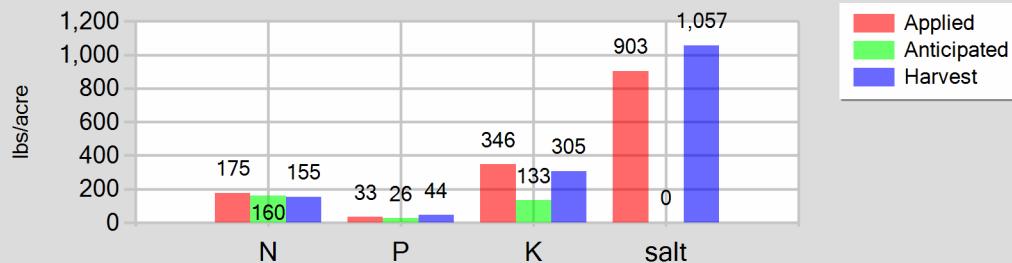
Correa - 11/15/2022: Oats, silage-soft dough

Field name: Correa

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	132.43	24.19	273.92	0.00
Process wastewater	33.63	8.62	72.52	377.44
Fresh water	2.09	0.00	0.00	526.04
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	175.14	32.81	346.45	903.48
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	154.65	44.18	305.45	1,056.59
Nutrient balance	20.49	-11.37	41.00	-153.11
Applied to removed ratio	1.13	0.74	1.13	0.86

Fresh water applied

40,266,000.00 gallons
1,482.86 acre-inches
10.23 inches/acre

Process wastewater applied

2,710,000.00 gallons
99.80 acre-inches
0.69 inches/acre

Total harvests for the crop

1 harvests

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

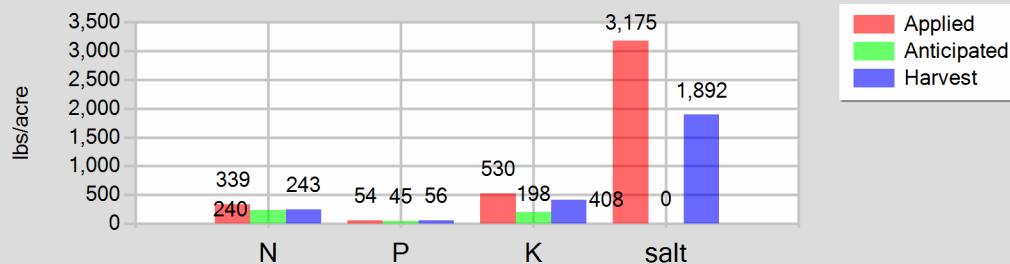
Correa - 06/11/2023: Corn, silage

Field name: Correa

Crop: Corn, silage

Plant date: 06/11/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	124.15	22.68	256.80	0.00
Process wastewater	200.06	30.94	272.78	1,305.49
Fresh water	7.41	0.00	0.00	1,869.26
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	338.62	53.62	529.58	3,174.75
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	242.99	55.65	408.07	1,891.97
Nutrient balance	95.64	-2.03	121.51	1,282.78
Applied to removed ratio	1.39	0.96	1.30	1.68

Fresh water applied

143,082,000.00 gallons
5,269.22 acre-inches
36.34 inches/acre

Process wastewater applied

9,255,000.00 gallons
340.83 acre-inches
2.35 inches/acre

Total harvests for the crop

1 harvests

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

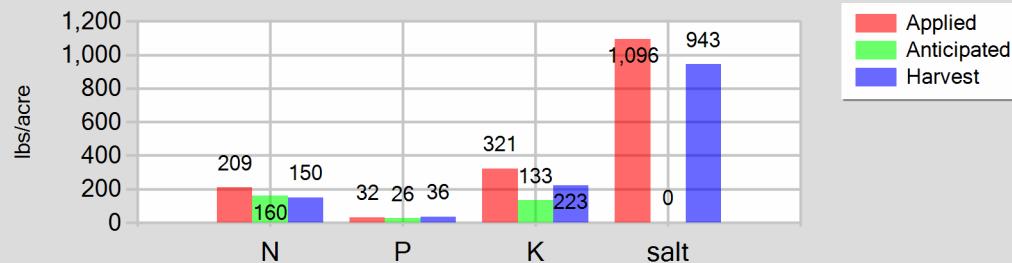
Dixon 1 - 11/17/2022: Oats, silage-soft dough

Field name: Dixon 1

Crop: Oats, silage-soft dough

Plant date: 11/17/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	100.01	18.27	206.87	0.00
Process wastewater	99.79	13.68	114.15	571.81
Fresh water	2.08	0.00	0.00	523.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	208.87	31.95	321.02	1,095.77
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	150.17	35.62	223.33	943.37
Nutrient balance	58.70	-3.67	97.69	152.40
Applied to removed ratio	1.39	0.90	1.44	1.16

Fresh water applied

16,596,000.00 gallons
611.17 acre-inches
10.19 inches/acre

Process wastewater applied

1,495,000.00 gallons
55.06 acre-inches
0.92 inches/acre

Total harvests for the crop

1 harvests

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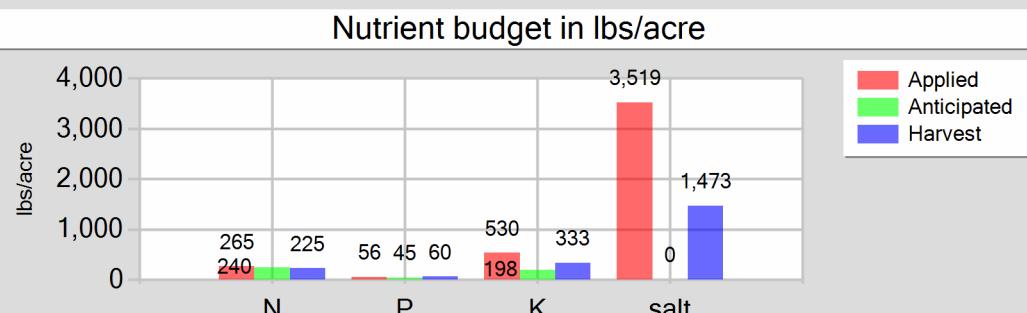
Reporting period 01/01/2023 to 12/31/2023.

Dixon 1 - 06/11/2023: Corn, silage

Field name: Dixon 1

Crop: Corn, silage

Plant date: 06/11/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	104.01	19.00	215.14	0.00
Process wastewater	146.18	37.50	315.28	1,640.84
Fresh water	7.45	0.00	0.00	1,878.21
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.64	56.49	530.43	3,519.05
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	225.40	60.26	332.52	1,472.92
Nutrient balance	39.24	-3.76	197.91	2,046.13
Applied to removed ratio	1.17	0.94	1.60	2.39

Fresh water applied

59,490,000.00 gallons
2,190.81 acre-inches
36.51 inches/acre

Process wastewater applied

4,875,000.00 gallons
179.53 acre-inches
2.99 inches/acre

Total harvests for the crop

1 harvests

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

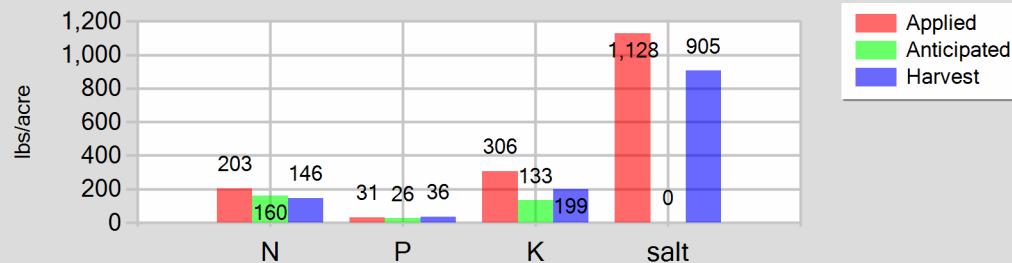
Dixon 2 - 11/17/2022: Oats, silage-soft dough

Field name: Dixon 2

Crop: Oats, silage-soft dough

Plant date: 11/17/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	91.21	16.66	188.67	0.00
Process wastewater	102.79	14.09	117.59	589.02
Fresh water	2.14	0.00	0.00	538.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	203.13	30.75	306.25	1,127.76
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	145.89	36.19	199.04	904.73
Nutrient balance	57.25	-5.44	107.21	223.03
Applied to removed ratio	1.39	0.85	1.54	1.25

Fresh water applied

21,330,000.00 gallons
785.51 acre-inches
10.47 inches/acre

Process wastewater applied

1,925,000.00 gallons
70.89 acre-inches
0.95 inches/acre

Total harvests for the crop

1 harvests

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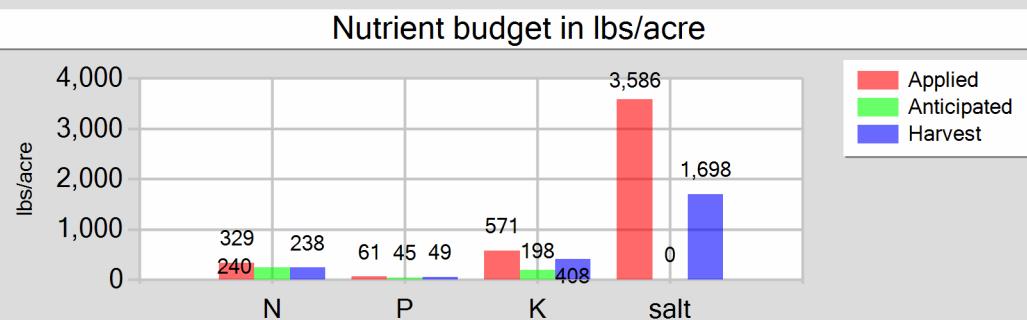
Reporting period 01/01/2023 to 12/31/2023.

Dixon 2 - 06/18/2023: Corn, silage

Field name: Dixon 2

Crop: Corn, silage

Plant date: 06/18/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	75,276,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,772.16 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	36.96 inches/acre
Dry manure	112.01	20.46	231.69	0.00	
Process wastewater	202.59	40.30	339.05	1,685.07	6,075,000.00 gallons
Fresh water	7.54	0.00	0.00	1,901.29	223.72 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.98 inches/acre
Total nutrients applied	329.14	60.76	570.74	3,586.36	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	238.15	48.51	407.94	1,697.89	
Nutrient balance	90.99	12.25	162.81	1,888.47	
Applied to removed ratio	1.38	1.25	1.40	2.11	
Total harvests for the crop					1 harvests

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

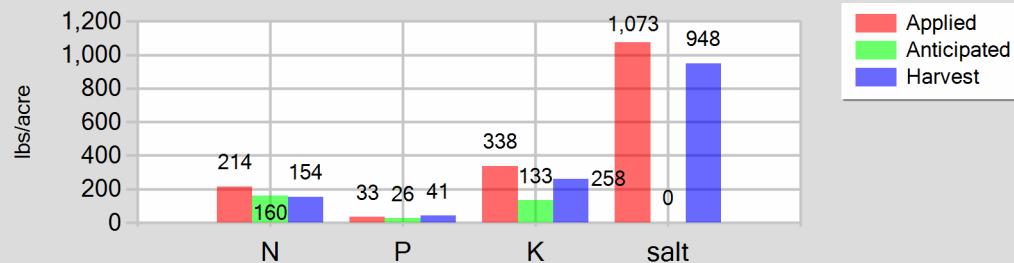
Dixon 3 - 11/17/2022: Oats, silage-soft dough

Field name: Dixon 3

Crop: Oats, silage-soft dough

Plant date: 11/17/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	112.95	20.63	233.64	0.00
Process wastewater	91.64	12.56	104.83	525.12
Fresh water	2.17	0.00	0.00	547.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	213.76	33.20	338.47	1,073.09
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	154.18	40.63	258.36	948.01
Nutrient balance	59.58	-7.43	80.12	125.08
Applied to removed ratio	1.39	0.82	1.31	1.13

Fresh water applied

24,588,000.00 gallons
905.49 acre-inches
10.65 inches/acre

Process wastewater applied

1,945,000.00 gallons
71.63 acre-inches
0.84 inches/acre

Total harvests for the crop

1 harvests

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

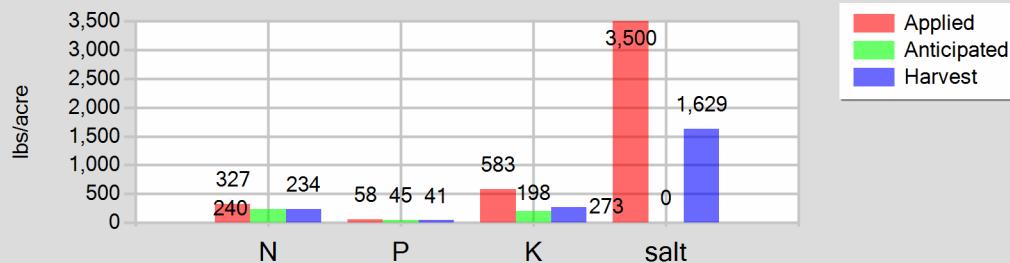
Dixon 3 - 06/08/2023: Corn, silage

Field name: Dixon 3

Crop: Corn, silage

Plant date: 06/08/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	112.95	20.63	233.64	0.00
Process wastewater	199.49	37.03	349.27	1,581.70
Fresh water	7.61	0.00	0.00	1,918.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.05	57.66	582.91	3,499.99
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	234.12	40.72	272.80	1,628.63
Nutrient balance	92.93	16.95	310.12	1,871.36
Applied to removed ratio	1.40	1.42	2.14	2.15

Fresh water applied

86,076,000.00 gallons
3,169.89 acre-inches
37.29 inches/acre

Process wastewater applied

7,485,000.00 gallons
275.65 acre-inches
3.24 inches/acre

Total harvests for the crop

1 harvests

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

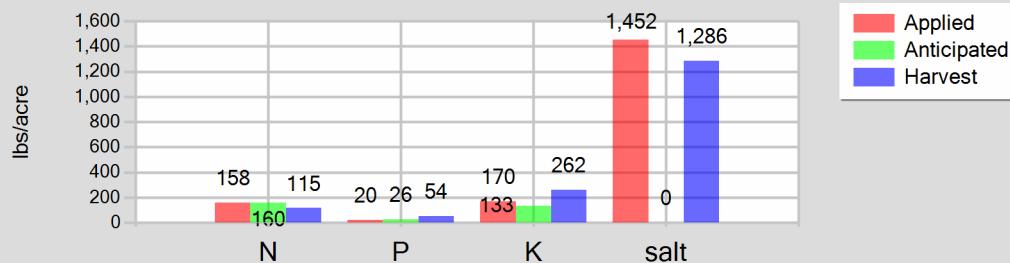
Dixon 4 - 11/15/2022: Oats, silage-soft dough

Field name: Dixon 4

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	7,956,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	292.99 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	11.72 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	148.18	20.32	169.51	849.10	925,000.00 gallons
Fresh water	2.39	0.00	0.00	602.85	34.06 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.36 inches/acre
Total nutrients applied	157.57	20.32	169.51	1,451.95	
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00	
Actual crop nutrient removal	115.22	53.59	261.71	1,286.23	
Nutrient balance	42.34	-33.28	-92.20	165.72	
Applied to removed ratio	1.37	0.38	0.65	1.13	
Total harvests for the crop					1 harvests

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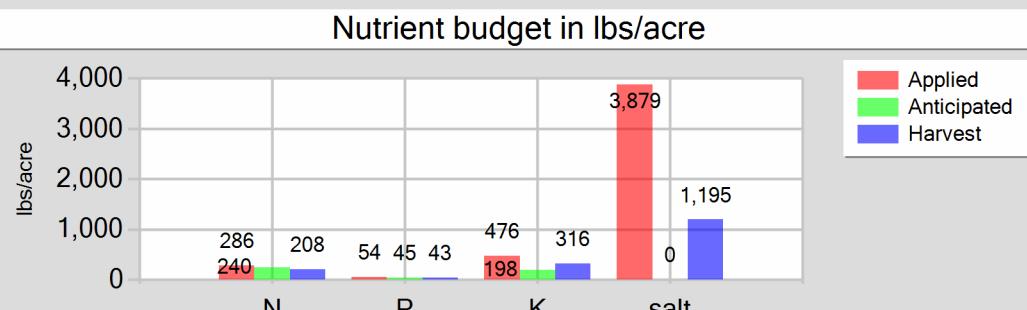
Reporting period 01/01/2023 to 12/31/2023.

Dixon 4 - 06/11/2023: Corn, silage

Field name: Dixon 4

Crop: Corn, silage

Plant date: 06/11/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	48.00	8.77	99.30	0.00
Process wastewater	223.05	44.76	376.62	1,873.70
Fresh water	7.95	0.00	0.00	2,004.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	286.00	53.53	475.91	3,878.65
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	208.29	42.68	315.86	1,195.13
Nutrient balance	77.71	10.85	160.06	2,683.52
Applied to removed ratio	1.37	1.25	1.51	3.25

Fresh water applied

26,460,000.00 gallons
974.43 acre-inches
38.98 inches/acre

Process wastewater applied

2,255,000.00 gallons
83.04 acre-inches
3.32 inches/acre

Total harvests for the crop

1 harvests

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

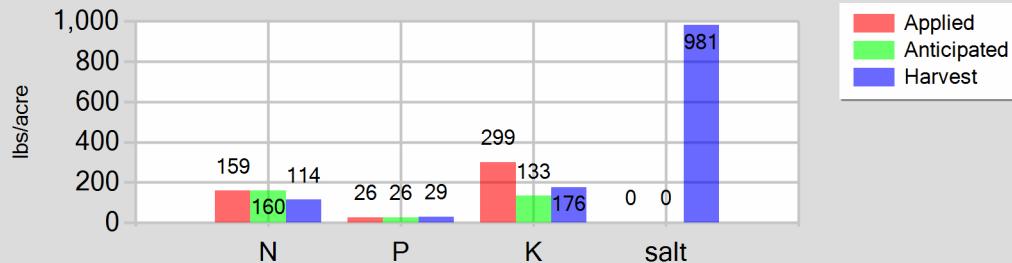
East Chowchilla - 11/17/2022: Oats, silage-soft dough

Field name: East Chowchilla

Crop: Oats, silage-soft dough

Plant date: 11/17/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	0.00 gallons 0.00 acre-inches 0.00 inches/acre
Plowdown credit	0.00	0.00	0.00	0.00	
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	
Dry manure	144.56	26.40	299.02	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	0.00	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	158.56	26.40	299.02	0.00	
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00	
Actual crop nutrient removal	113.78	29.23	176.41	981.24	
Nutrient balance	44.78	-2.82	122.61	-981.24	
Applied to removed ratio	1.39	0.90	1.69	0.00	
Total harvests for the crop					1 harvests

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

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

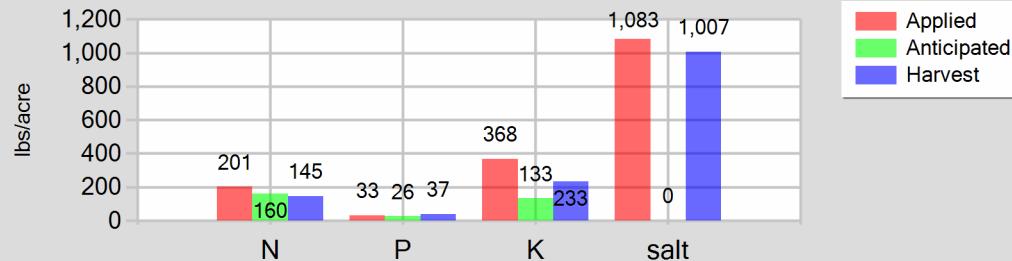
Ginsburg - 11/17/2022: Oats, silage-soft dough

Field name: Ginsburg

Crop: Oats, silage-soft dough

Plant date: 11/17/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	178.08	32.53	368.36	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	16.08	0.00	0.00	1,083.26
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	201.17	32.53	368.36	1,083.26
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	144.86	37.42	233.12	1,007.33
Nutrient balance	56.30	-4.89	135.24	75.93
Applied to removed ratio	1.39	0.87	1.58	1.08

Fresh water applied

17,496,000.00 gallons
644.32 acre-inches
10.39 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

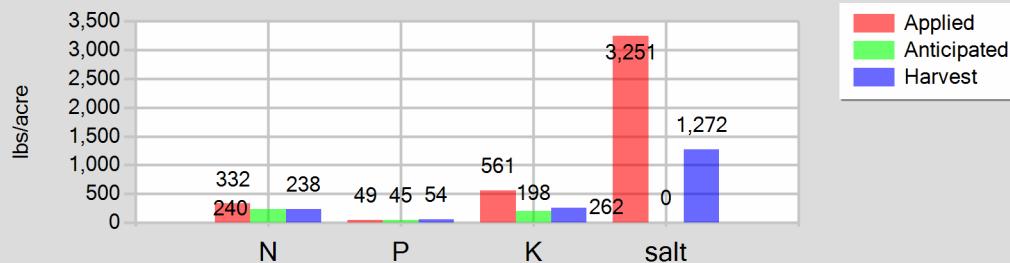
Ginsburg - 06/22/2023: Corn, silage

Field name: Ginsburg

Crop: Corn, silage

Plant date: 06/22/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	270.99	49.50	560.55	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	53.91	0.00	0.00	3,250.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	331.90	49.50	560.55	3,250.88
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	238.48	53.66	262.33	1,271.91
Nutrient balance	93.42	-4.16	298.22	1,978.98
Applied to removed ratio	1.39	0.92	2.14	2.56

Fresh water applied

61,236,000.00 gallons
2,255.11 acre-inches
36.37 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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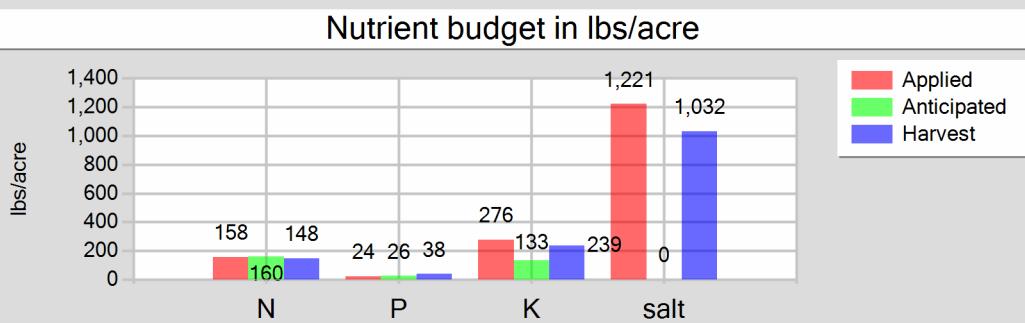
Reporting period 01/01/2023 to 12/31/2023.

Ginsburg 2 - 11/15/2022: Oats, silage-soft dough

Field name: Ginsburg 2

Crop: Oats, silage-soft dough

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	2,862,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	105.40 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	11.71 inches/acre
Dry manure	133.35	24.36	275.83	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	18.12	0.00	0.00	1,220.71	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	158.47	24.36	275.83	1,220.71	Process wastewater applied
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00	0.00 gallons
Actual crop nutrient removal	148.42	38.33	238.85	1,032.08	0.00 acre-inches
Nutrient balance	10.05	-13.98	36.97	188.63	0.00 inches/acre
Applied to removed ratio	1.07	0.64	1.15	1.18	Total harvests for the crop
					1 harvests

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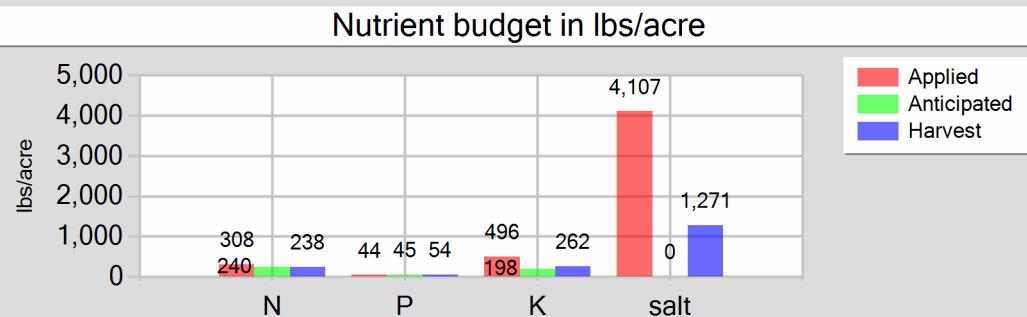
Reporting period 01/01/2023 to 12/31/2023.

Ginsburg 2 - 06/22/2023: Corn, silage

Field name: Ginsburg 2

Crop: Corn, silage

Plant date: 06/22/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	9,630,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	354.64 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	39.40 inches/acre
Dry manure	240.02	43.84	496.49	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	60.99	0.00	0.00	4,107.41	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	308.01	43.84	496.49	4,107.41	Process wastewater applied
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	0.00 gallons
Actual crop nutrient removal	238.38	53.64	262.22	1,271.35	0.00 acre-inches
Nutrient balance	69.63	-9.80	234.27	2,836.06	0.00 inches/acre
Applied to removed ratio	1.29	0.82	1.89	3.23	Total harvests for the crop
					1 harvests

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

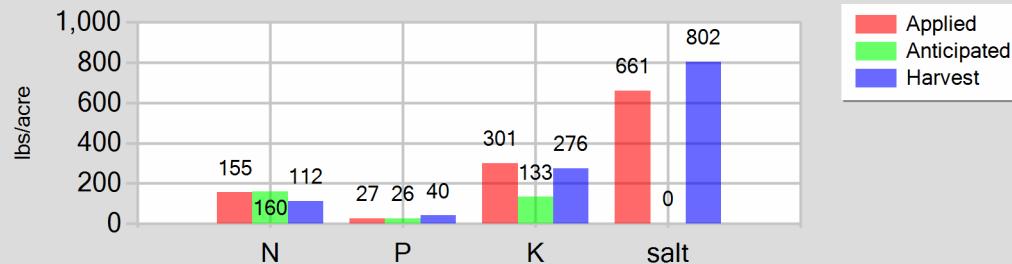
Looney 1 - 11/15/2022: Oats, silage-soft dough

Field name: Looney 1

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	10,872,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	400.38 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.54 inches/acre
Dry manure	145.28	26.53	300.51	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	2.63	0.00	0.00	661.35	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	154.90	26.53	300.51	661.35	Process wastewater applied
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00	0.00 gallons
Actual crop nutrient removal	111.91	40.12	275.55	802.38	0.00 acre-inches
Nutrient balance	42.99	-13.58	24.95	-141.03	0.00 inches/acre
Applied to removed ratio	1.38	0.66	1.09	0.82	Total harvests for the crop
					1 harvests

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

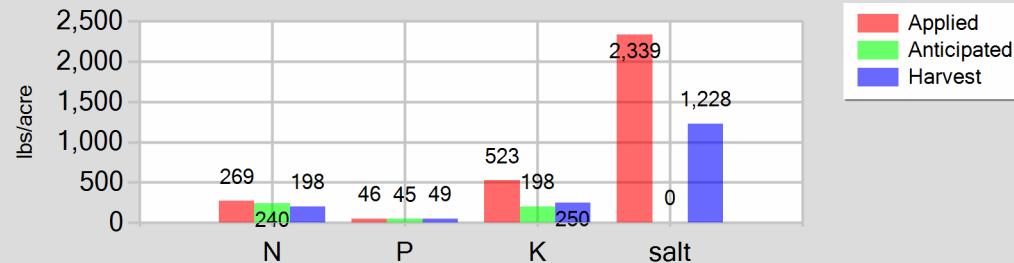
Looney 1 - 06/22/2023: Corn, silage

Field name: Looney 1

Crop: Corn, silage

Plant date: 06/22/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	252.66	46.15	522.62	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.29	0.00	0.00	2,338.82
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	268.94	46.15	522.62	2,338.82
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	198.47	49.11	249.62	1,227.63
Nutrient balance	70.48	-2.96	273.00	1,111.19
Applied to removed ratio	1.36	0.94	2.09	1.91

Fresh water applied

38,448,000.00 gallons
1,415.91 acre-inches
37.26 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

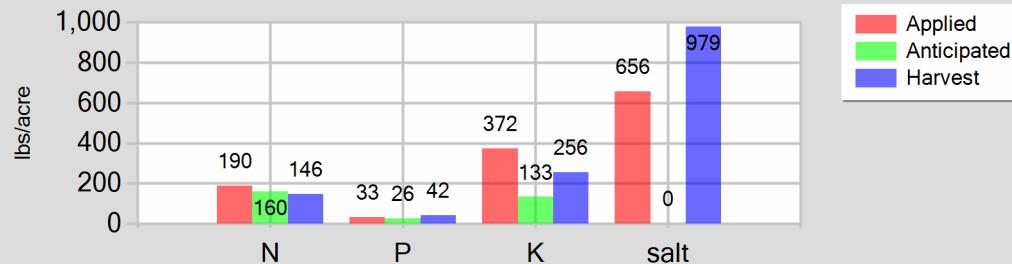
Looney 2 - 11/17/2022: Oats, silage-soft dough

Field name: Looney 2

Crop: Oats, silage-soft dough

Plant date: 11/17/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	11,358,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	418.28 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.46 inches/acre
Dry manure	180.02	32.88	372.37	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	2.61	0.00	0.00	656.37	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	189.62	32.88	372.37	656.37	Process wastewater applied
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00	0.00 gallons
Actual crop nutrient removal	146.37	42.12	255.88	979.29	0.00 acre-inches
Nutrient balance	43.26	-9.24	116.49	-322.92	0.00 inches/acre
Applied to removed ratio	1.30	0.78	1.46	0.67	Total harvests for the crop
					1 harvests

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

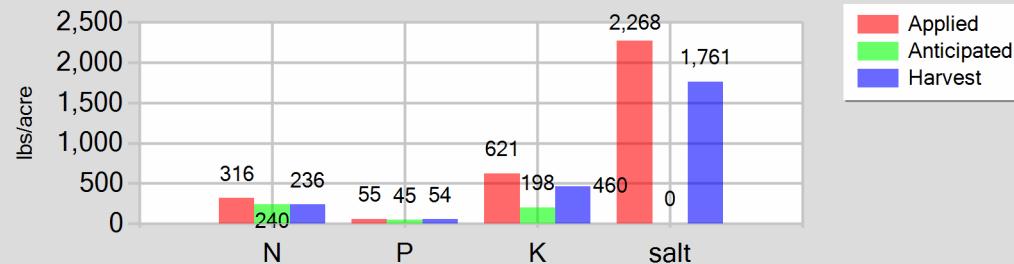
Looney 2 - 07/26/2023: Corn, silage

Field name: Looney 2

Crop: Corn, silage

Plant date: 07/26/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	300.03	54.80	620.61	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.01	0.00	0.00	2,267.65
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	316.04	54.80	620.61	2,267.65
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	236.22	53.87	460.00	1,761.26
Nutrient balance	79.82	0.93	160.61	506.39
Applied to removed ratio	1.34	1.02	1.35	1.29

Fresh water applied

39,240,000.00 *gallons*
1,445.08 *acre-inches*
36.13 *inches/acre*

Process wastewater applied

0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Total harvests for the crop

1 *harvests*

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

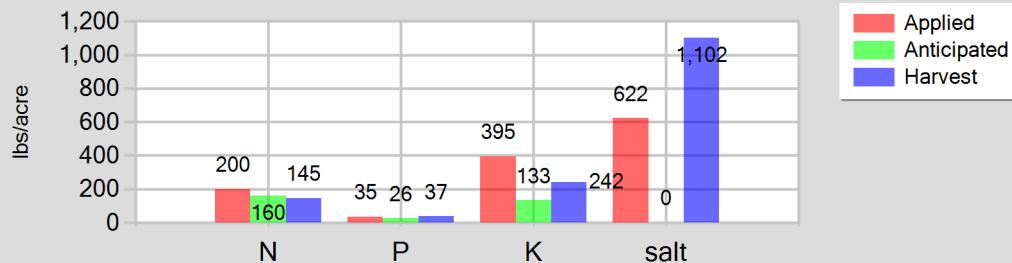
Looney 3 - 11/17/2022: Oats, silage-soft dough

Field name: Looney 3

Crop: Oats, silage-soft dough

Plant date: 11/17/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	190.79	34.85	394.64	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.47	0.00	0.00	621.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	200.26	34.85	394.64	621.99
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	144.58	36.72	242.12	1,101.57
Nutrient balance	55.68	-1.87	152.53	-479.58
Applied to removed ratio	1.39	0.95	1.63	0.56

Fresh water applied

10,494,000.00 *gallons*
386.46 *acre-inches*
9.91 *inches/acre*

Process wastewater applied

0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Total harvests for the crop

1 *harvests*

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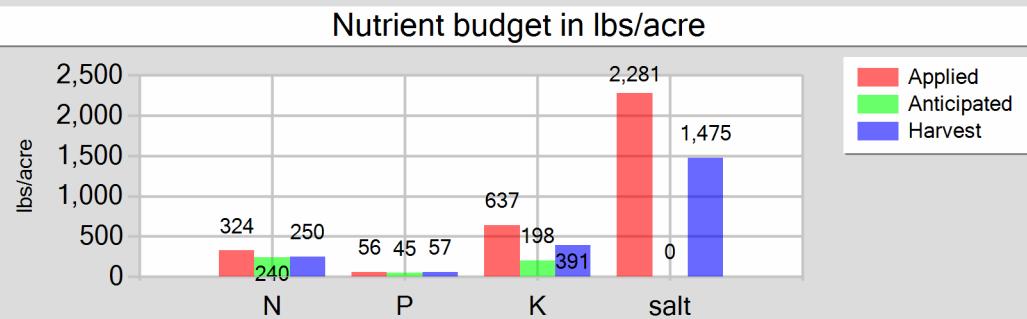
Reporting period 01/01/2023 to 12/31/2023.

Looney 3 - 07/26/2023: Corn, silage

Field name: Looney 3

Crop: Corn, silage

Plant date: 07/26/2023



	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	307.72	56.21	636.52	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.06	0.00	0.00	2,280.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	323.78	56.21	636.52	2,280.98
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	249.54	56.71	391.33	1,474.56
Nutrient balance	74.24	-0.51	245.20	806.42
Applied to removed ratio	1.30	0.99	1.63	1.55

Fresh water applied

38,484,000.00 gallons
1,417.23 acre-inches
36.34 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

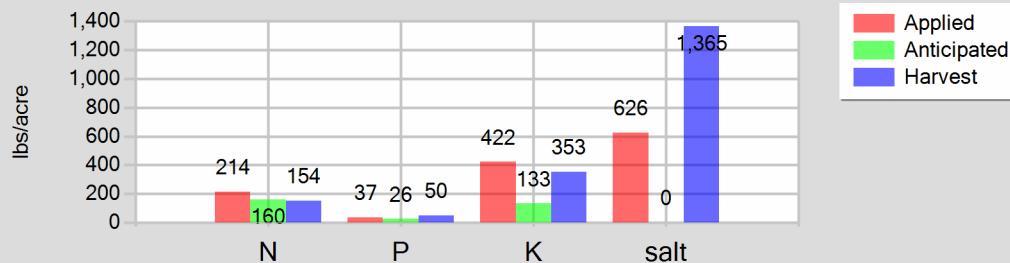
Looney 4 - 11/15/2022: Oats, silage-soft dough

Field name: Looney 4

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	26,280,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	967.80 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	9.98 inches/acre
Dry manure	204.14	37.29	422.27	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	2.49	0.00	0.00	626.27	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	213.63	37.29	422.27	626.27	Process wastewater applied
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00	0.00 gallons
Actual crop nutrient removal	153.59	49.89	353.14	1,365.29	0.00 acre-inches
Nutrient balance	60.04	-12.60	69.13	-739.02	0.00 inches/acre
Applied to removed ratio	1.39	0.75	1.20	0.46	Total harvests for the crop
					1 harvests

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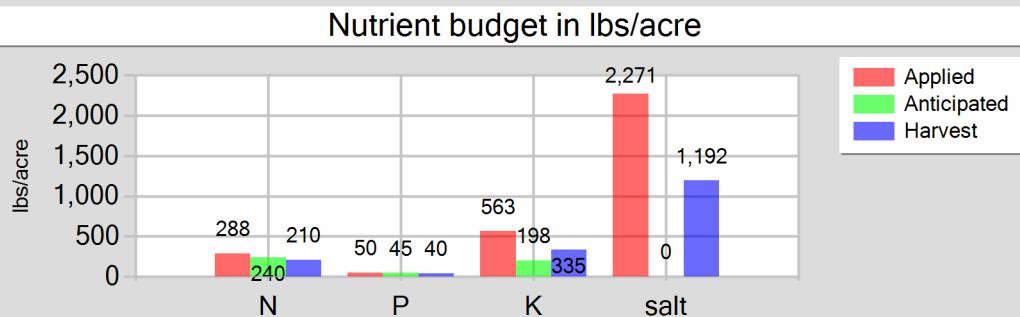
Reporting period 01/01/2023 to 12/31/2023.

Looney 4 - 06/02/2023: Corn, silage

Field name: Looney 4

Crop: Corn, silage

Plant date: 06/02/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	272.19	49.72	563.03	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.02	0.00	0.00	2,271.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	288.21	49.72	563.03	2,271.29
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	209.76	39.73	335.30	1,191.83
Nutrient balance	78.45	9.99	227.73	1,079.46
Applied to removed ratio	1.37	1.25	1.68	1.91

Fresh water applied

95,310,000.00 gallons
3,509.94 acre-inches
36.18 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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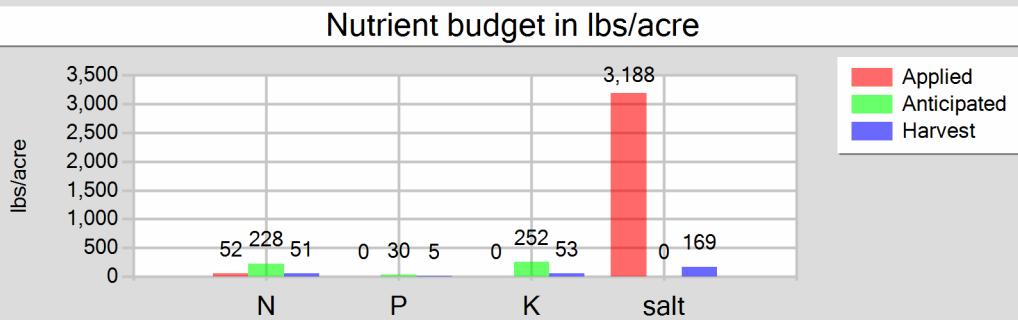
Reporting period 01/01/2023 to 12/31/2023.

Marge 1 - 10/10/2005: Clover-grass, hay

Field name: Marge 1

Crop: Clover-grass, hay

Plant date: 10/10/2005



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	38.14	0.00	0.00	3,187.75
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	52.14	0.00	0.00	3,187.75
Anticipated crop nutrient removal	228.00	30.00	252.00	0.00
Actual crop nutrient removal	51.25	4.51	53.00	169.15
Nutrient balance	0.89	-4.51	-53.00	3,018.60
Applied to removed ratio	1.02	0.00	0.00	18.85

Fresh water applied

81,972,000.00 gallons
3,018.75 acre-inches
35.94 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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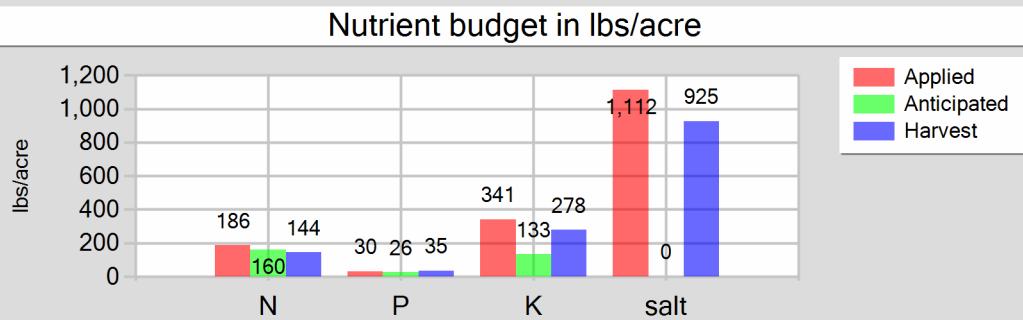
Reporting period 01/01/2023 to 12/31/2023.

Upton 1 - 11/15/2022: Oats, silage-soft dough

Field name: Upton 1

Crop: Oats, silage-soft dough

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	23,184,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	853.79 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.67 inches/acre
Dry manure	165.02	30.14	341.34	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	16.52	0.00	0.00	1,112.46	
Atmospheric deposition	4.67	0.00	0.00	0.00	
Total nutrients applied	186.20	30.14	341.34	1,112.46	
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00	
Actual crop nutrient removal	143.64	34.59	278.26	925.04	
Nutrient balance	42.56	-4.45	63.07	187.42	
Applied to removed ratio	1.30	0.87	1.23	1.20	
Total harvests for the crop					1 harvests

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

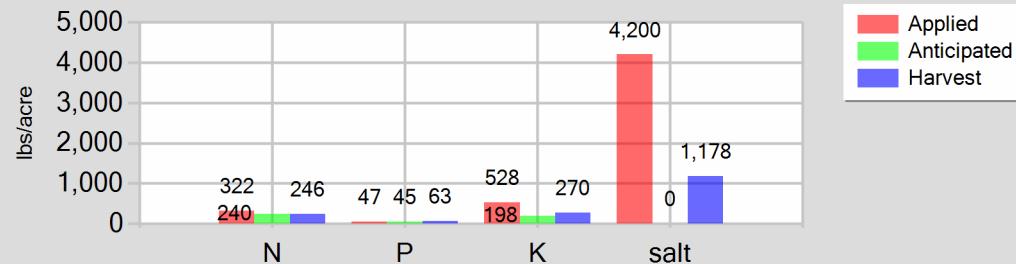
Upton 1 - 04/01/2023: Corn, silage

Field name: Upton 1

Crop: Corn, silage

Plant date: 04/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	87,534,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,223.58 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	40.29 inches/acre
Dry manure	255.03	46.58	527.52	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	62.36	0.00	0.00	4,200.21	
Atmospheric deposition	4.67	0.00	0.00	0.00	
Total nutrients applied	322.06	46.58	527.52	4,200.21	Process wastewater applied
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	0.00 gallons
Actual crop nutrient removal	246.44	63.25	270.43	1,177.68	0.00 acre-inches
Nutrient balance	75.62	-16.67	257.09	3,022.53	0.00 inches/acre
Applied to removed ratio	1.31	0.74	1.95	3.57	Total harvests for the crop
					1 harvests

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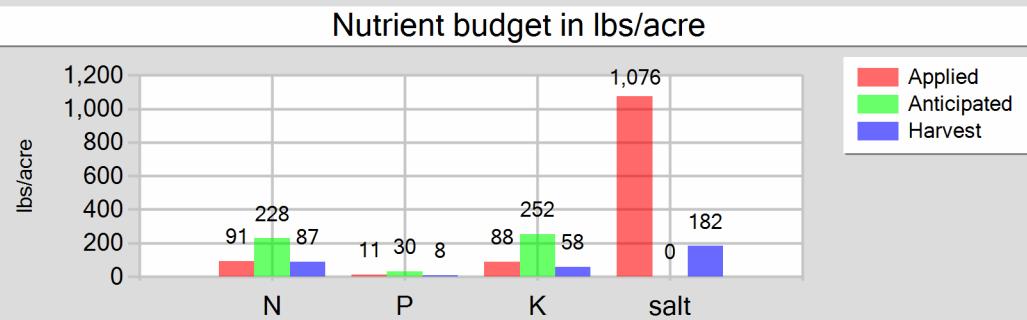
Reporting period 01/01/2023 to 12/31/2023.

Upton 1 - 09/15/2023: Clover-grass, hay

Field name: Upton 1

Crop: Clover-grass, hay

Plant date: 09/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	77.23	10.59	88.36	442.58
Fresh water	9.41	0.00	0.00	633.71
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	91.31	10.59	88.36	1,076.30
Anticipated crop nutrient removal	228.00	30.00	252.00	0.00
Actual crop nutrient removal	87.12	7.89	58.14	181.98
Nutrient balance	4.19	2.70	30.22	894.32
Applied to removed ratio	1.05	1.34	1.52	5.91

Fresh water applied

5,778,000.00 gallons
212.78 acre-inches
6.08 inches/acre

Process wastewater applied

675,000.00 gallons
24.86 acre-inches
0.71 inches/acre

Total harvests for the crop

1 harvests

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

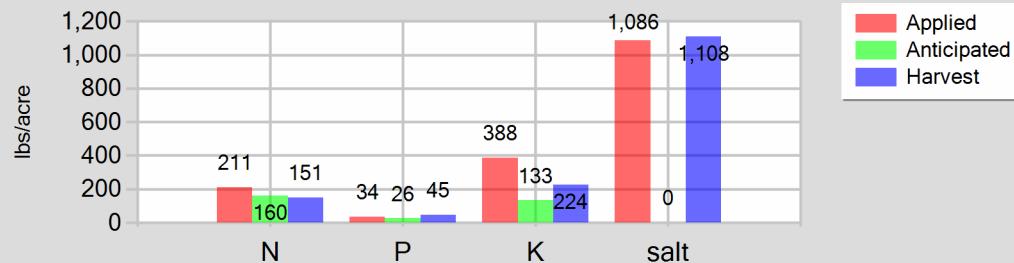
Velasco 1 - 11/15/2022: Oats, silage-soft dough

Field name: Velasco 1

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	187.52	34.25	387.88	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	16.12	0.00	0.00	1,085.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	210.64	34.25	387.88	1,085.68
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	150.54	45.16	224.44	1,108.49
Nutrient balance	60.10	-10.91	163.45	-22.81
Applied to removed ratio	1.40	0.76	1.73	0.98

Fresh water applied

22,626,000.00 gallons
833.24 acre-inches
10.42 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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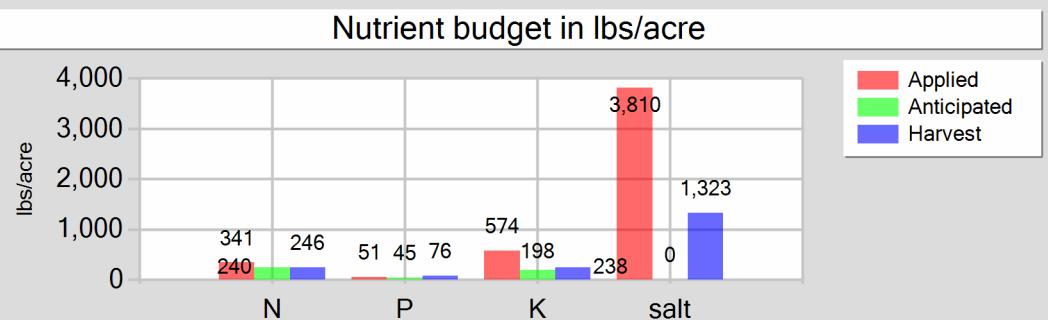
Reporting period 01/01/2023 to 12/31/2023.

Velasco 1 - 07/02/2023: Corn, silage

Field name: Velasco 1

Crop: Corn, silage

Plant date: 07/02/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	277.53	50.69	574.06	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	56.57	0.00	0.00	3,809.81
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	341.10	50.69	574.06	3,809.81
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	246.00	76.49	237.73	1,323.03
Nutrient balance	95.09	-25.80	336.33	2,486.78
Applied to removed ratio	1.39	0.66	2.41	2.88

Fresh water applied

79,398,000.00 gallons
2,923.96 acre-inches
36.55 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

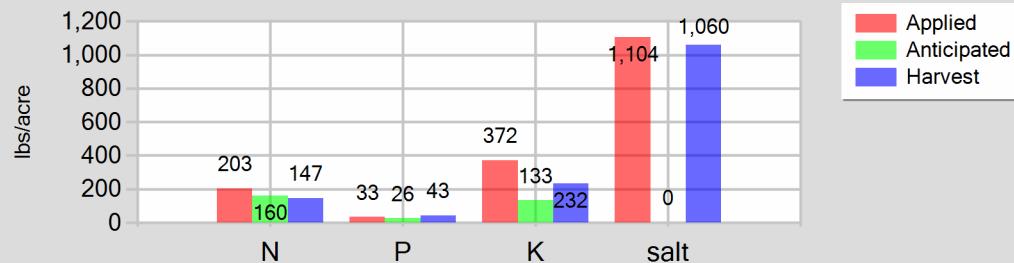
Velasco 2 - 11/15/2022: Oats, silage-soft dough

Field name: Velasco 2

Crop: Oats, silage-soft dough

Plant date: 11/15/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	180.02	32.88	372.37	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	16.39	0.00	0.00	1,104.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	203.41	32.88	372.37	1,104.16
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	146.58	43.19	231.64	1,060.06
Nutrient balance	56.84	-10.31	140.72	44.10
Applied to removed ratio	1.39	0.76	1.61	1.04

Fresh water applied

14,382,000.00 *gallons*
529.64 *acre-inches*
10.59 *inches/acre*

Process wastewater applied

0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Total harvests for the crop

1 *harvests*

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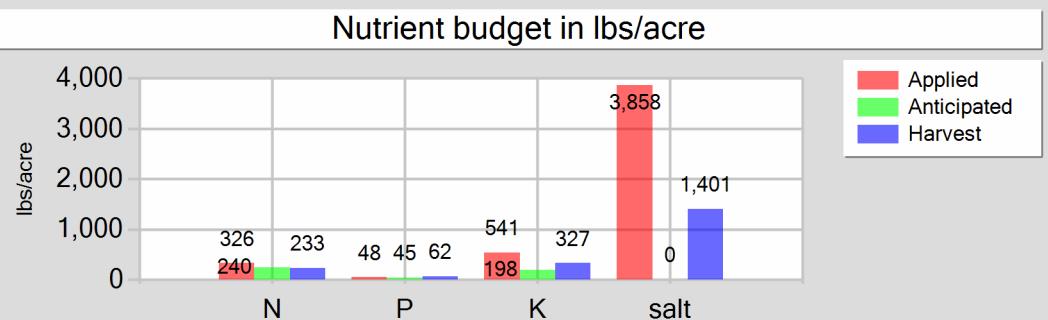
Reporting period 01/01/2023 to 12/31/2023.

Velasco 2 - 08/17/2023: Corn, silage

Field name: Velasco 2

Crop: Corn, silage

Plant date: 08/17/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	50,256,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,850.76 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	37.02 inches/acre
Dry manure	261.63	47.79	541.17	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	57.29	0.00	0.00	3,858.35	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	325.91	47.79	541.17	3,858.35	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	232.85	62.47	327.50	1,400.86	
Nutrient balance	93.07	-14.69	213.67	2,457.50	
Applied to removed ratio	1.40	0.76	1.65	2.75	
Total harvests for the crop					1 harvests

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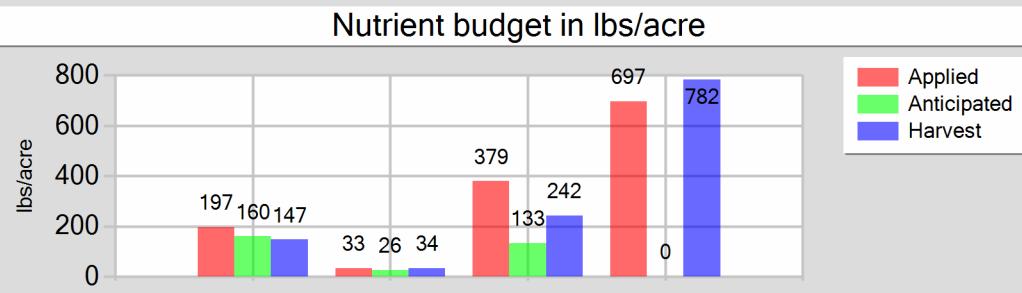
Reporting period 01/01/2023 to 12/31/2023.

Weholt 1 - 11/15/2022: Oats, silage-soft dough

Field name: Weholt 1

Crop: Oats, silage-soft dough

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	10,368,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	381.82 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.61 inches/acre
Dry manure	183.35	33.49	379.26	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	6.97	0.00	0.00	696.97	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	197.32	33.49	379.26	696.97	Process wastewater applied
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00	0.00 gallons
Actual crop nutrient removal	146.90	33.70	241.65	782.17	0.00 acre-inches
Nutrient balance	50.43	-0.21	137.62	-85.20	0.00 inches/acre
Applied to removed ratio	1.34	0.99	1.57	0.89	Total harvests for the crop
					1 harvests

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

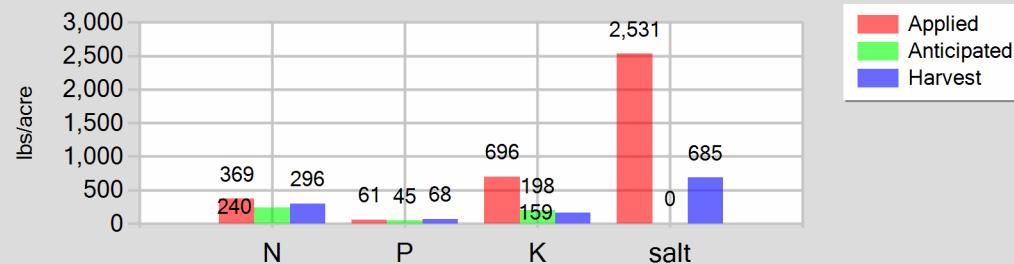
Weholt 1 - 04/01/2023: Corn, silage

Field name: Weholt 1

Crop: Corn, silage

Plant date: 04/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	336.70	61.50	696.46	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	25.31	0.00	0.00	2,531.37
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	369.01	61.50	696.46	2,531.37
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	295.80	68.47	158.86	684.73
Nutrient balance	73.21	-6.97	537.61	1,846.65
Applied to removed ratio	1.25	0.90	4.38	3.70

Fresh water applied

37,656,000.00 gallons
1,386.74 acre-inches
38.52 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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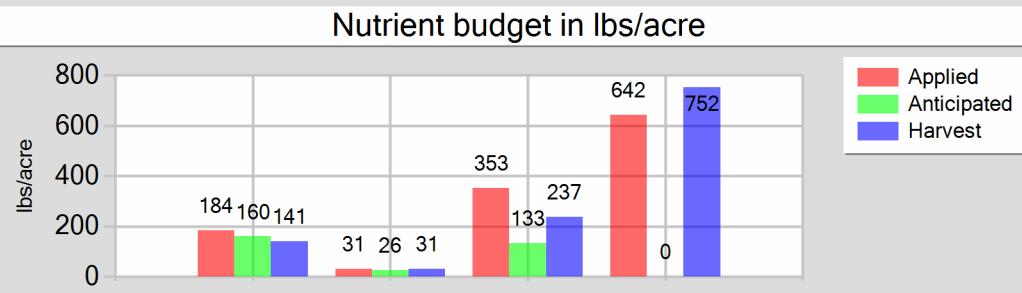
Reporting period 01/01/2023 to 12/31/2023.

Weholt 2 - 11/15/2022: Oats, silage-soft dough

Field name: Weholt 2

Crop: Oats, silage-soft dough

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	5,040,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	185.61 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	9.77 inches/acre
Dry manure	170.54	31.15	352.77	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	6.42	0.00	0.00	641.95	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	183.96	31.15	352.77	641.95	Process wastewater applied
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00	0.00 gallons
Actual crop nutrient removal	140.69	30.58	236.72	752.37	0.00 acre-inches
Nutrient balance	43.28	0.57	116.05	-110.42	0.00 inches/acre
Applied to removed ratio	1.31	1.02	1.49	0.85	Total harvests for the crop
					1 harvests

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

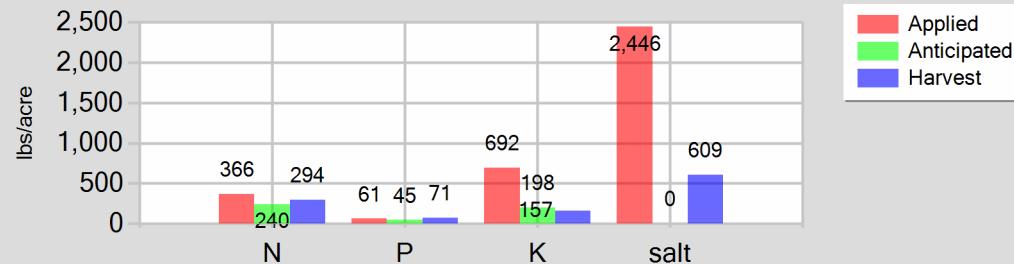
Weholt 2 - 04/01/2023: Corn, silage

Field name: Weholt 2

Crop: Corn, silage

Plant date: 04/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	334.77	61.15	692.47	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	24.46	0.00	0.00	2,446.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	366.23	61.15	692.47	2,446.29
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	294.11	70.99	157.20	608.51
Nutrient balance	72.12	-9.85	535.27	1,837.77
Applied to removed ratio	1.25	0.86	4.41	4.02

Fresh water applied

19,206,000.00 *gallons*
707.29 *acre-inches*
37.23 *inches/acre*

Process wastewater applied

0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Total harvests for the crop

1 *harvests*

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

NUTRIENT ANALYSES**A. MANURE ANALYSES****Solid Manure Import**

Sample and source description: Solid Manure Import

Sample date: 05/10/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: As-is

Moisture: 80.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,900.00	7,090.00	7,550.00	17,900.00	5,720.00	1,980.00	5,100.00	1,130.00		23.30
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

Solid Manure

Sample and source description: Solid Manure

Sample date: 06/07/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: Dry-weight

Moisture: 43.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,100.00	2,400.00	11,500.00							
DL	100.00	100.00	100.00							

Solid Manure

Sample and source description: Solid Manure

Sample date: 10/09/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: Dry-weight

Moisture: 72.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,900.00	4,000.00	45,300.00							
DL	100.00	100.00	100.00							

B. PROCESS WASTEWATER ANALYSES

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

Lagoon Water

Sample and source description: Lagoon Water

Sample date: 02/15/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.30

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	165.00	101.00	0.00	1.00	42.60	438.00								3,630.00	1,850
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

Lagoon Water

Sample and source description: Lagoon Water

Sample date: 06/28/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.20

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	215.00	172.00	0.00	0.60	55.30	465.00								4,550.00	2,420
DL	1.00	0.50	0.50	0.10	0.10	0.50								0.01	10

Lagoon Water

Sample and source description: Lagoon Water

Sample date: 09/18/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.30

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	479.00	230.00	0.00	0.90	65.80	549.00								5,160.00	2,750
DL	1.00	0.50	1.00	0.10	0.10	0.50								10.00	10

Lagoon Water

Sample and source description: Lagoon Water

Sample date: 11/27/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.60

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	193.00	161.00	0.00	0.00	57.20	486.00								4,710.00	2,300
DL	1.00	0.50	1.00	1.00	0.10	0.50								10.00	10

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C. FRESH WATER ANALYSES

Domestic Well - Calf Ranch

Calf Ranch

Sample description: Calf Ranch

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	9.50	0.00	9.50								678.00	0
DL	0.10	1.00	0.10								10.00	1

Domestic Well - Dairy #1 DW

Dairy #1 DW

Sample description: Dairy #1 DW

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.50	0.00	1.50								365.00	0
DL	0.10	1.00	0.10								10.00	1

Domestic Well - Dairy #2 DW

Dairy #2 DW

Sample description: Dairy #2 DW

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.40	0.00	1.40								312.00	0
DL	0.10	1.00	0.10								10.00	1

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Domestic Well - Dairy #3 DW**Dairy #3 DW**Sample description: Dairy #3 DWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	4.00	0.00	1.00								431.00	0
DL	0.10	1.00	0.10								10.00	1

Domestic Well - Dairy #4 DW**Dairy #4 DW**Sample description: Dairy #4 DWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.40	0.00	1.40								310.00	0
DL	0.10	1.00	0.10								10.00	1

Domestic Well - Dixon 1 DW**Dixon 1 DW**Sample description: Dixon 1 DWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	5.00	0.00	5.00								540.00	0
DL	0.10	1.00	0.10								10.00	1

Domestic Well - Dixon 4 DW

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Domestic Well - Dixon 4 DW**Dixon 4 DW**Sample description: Dixon 4 DWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	5.10	0.00	5.10								538.00	0
DL	0.10	1.00	0.10								10.00	1

Domestic Well - E14-2 DW**E14-2 DW**Sample description: E14-2 DWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	4.80	0.00	4.80								823.00	0
DL	0.10	1.00	0.10								10.00	1

Domestic Well - Looney 4 DW**Looney 4 DW**Sample description: Looney 4 DWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	18.60	0.00	18.60								1,270.00	0
DL	0.10	1.00	0.10								10.00	1

Domestic Well - Velasco DW

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Domestic Well - Velasco DW

Velasco DW

Sample description: Velasco DW

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	2.20	0.00	2.20								357.00	0
DL	0.10	1.00	0.10								10.00	1

Irrigation Water - Baker 1 AW

Baker 1 AW

Sample description: Baker 1 AW

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.12	0.00	0.90								244.00	208
DL	1.00	1.00	0.10								10.00	10

Irrigation Water - Blair 2 -3 #2 AW

Blair 2 -3 #2 AW

Sample description: Blair 2 -3 #2 AW

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	6.90	0.00	6.90								486.00	325
DL	1.00	1.00	0.10								10.00	10

Irrigation Water - Dixon 1 AW

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Irrigation Water - Dixon 1 AW**Dixon 1 AW**Sample description: Dixon 1 AWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value	0.90	0.00	0.90								305.00	227
DL	0.10	1.00	0.90								10.00	10

Irrigation Water - Dixon 3 AW**Dixon 3 AW**Sample description: Dixon 3 AWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value	0.90	0.00	0.90								306.00	227
DL	0.90	1.00	0.90								10.00	10

Irrigation Water - E14-1 AW**E14-1 AW**Sample description: E14-1 AWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value	6.83	0.00	6.70								702.00	460
DL	1.00	1.00	0.10								10.00	10

Irrigation Water - Looney 1 AW

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Irrigation Water - Looney 1 AW**Looney 1 AW**Sample description: Looney 1 AWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.10		1.10								398.00	277
DL	1.00		0.10								10.00	10

Irrigation Water - Looney 3 AW**Looney 3 AW**Sample description: Looney 3 AWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	68.90	0.00	68.90								2,150.00	1,430
DL	1.00	1.00	0.10								10.00	10

Irrigation Water - Upton**Upton**Sample description: UptonSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	3.75	0.00	3.70								696.00	455
DL	1.00	1.00	0.10								10.00	10

Irrigation Water - Velasco 1 AW

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Irrigation Water - Velasco 1 AW**Velasco 1 AW**Sample description: Velasco 1 AWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	2.42	0.00	2.40								464.00	320
DL	1.00	1.00	0.10								10.00	10

Irrigation Water - Velasco 2 AW**Velasco 2 AW**Sample description: Velasco 2 AWSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	2.41	0.00	2.40								462.00	310
DL	1.00	1.00	0.10								10.00	10

Irrigation Water - Weholt**Weholt**Sample description: WeholtSample date: 08/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	2.90	0.00	2.90								394.00	290
DL	1.00	1.00	0.10								10.00	10

D. SOIL ANALYSES

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

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Blair 1 - 10/10/2005: Clover-grass, hay

Blair 1 -A

Sample and source description: Blair 1 -A

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 81.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	57,200.00	5,000.00	36,700.00		11.20
DL	100.00	100.00	100.00		0.01

Blair 1 -B

Sample and source description: Blair 1 -B

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 82.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	54,100.00	5,000.00	42,400.00		11.80
DL	100.00	100.00	100.00		0.01

Blair 1 -C

Sample and source description: Blair 1 -C

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,100.00	3,400.00	35,500.00		11.80
DL	100.00	100.00	100.00		0.01

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Blair 1 - 10/10/2005: Clover-grass, hay

Blair -C

Sample and source description: Blair -C

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,100.00	3,400.00	35,500.00		11.80
DL	100.00	100.00	100.00		0.01

Blair 2-1 - 11/05/2021: Clover-grass, hay

Blair 2-1

Sample and source description: Blair 2-1

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 81.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	42,900.00	3,600.00	36,800.00		11.30
DL	100.00	100.00	100.00		0.01

Blair 2-2 - 11/05/2021: Clover-grass, hay

Blair 2-2

Sample and source description: Blair 2-2

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 74.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	42,300.00	3,800.00	37,600.00		11.90
DL	100.00	100.00	100.00		0.01

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Blair 2-3 - 10/10/2005: Clover-grass, hay

Blair 2-3(A)

Sample and source description: Blair 2-3(A)

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 80.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,100.00	3,600.00	38,300.00		10.50
DL	100.00	100.00	100.00		0.01

Blair 2-3(B)

Sample and source description: Blair 2-3(B)

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	44,200.00	4,300.00	34,100.00		11.40
DL	100.00	100.00	100.00		0.01

Correa - 11/15/2022: Oats, silage-soft dough

Correa - A

Sample and source description: Correa - A

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,000.00	4,500.00	29,900.00		11.10
DL	100.00	100.00	100.00		0.01

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Correa - 11/15/2022: Oats, silage-soft dough

Correa - B

Sample and source description: Correa - B

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,900.00	4,400.00	31,700.00		11.80
DL	100.00	100.00	100.00		0.01

Correa - C

Sample and source description: Correa - C

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,800.00	5,000.00	30,500.00		11.50
DL	100.00	100.00	100.00		0.01

Correa - D

Sample and source description: Correa - D

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,100.00	4,600.00	31,800.00		11.00
DL	100.00	100.00	100.00		0.01

Correa - 06/11/2023: Corn, silage

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Correa - 06/11/2023: Corn, silage

Correa - A

Sample and source description: Correa - A

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,100.00	3,000.00	22,000.00		10.20
DL	100.00	100.00	100.00		0.01

Correa - B

Sample and source description: Correa - B

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,700.00	2,700.00	20,700.00		8.40
DL	100.00	100.00	100.00		0.01

Correa - C

Sample and source description: Correa - C

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,300.00	2,500.00	17,700.00		10.90
DL	100.00	100.00	100.00		0.01

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Correa - 06/11/2023: Corn, silage

Correa - D

Sample and source description: Correa - D

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,600.00	3,100.00	22,000.00		8.50
DL	100.00	100.00	100.00		0.01

Dixon 1 - 11/17/2022: Oats, silage-soft dough

Dixon 1 - A

Sample and source description: Dixon 1 - A

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

Moisture: 72.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,400.00	3,400.00	22,800.00		9.60
DL	100.00	100.00	100.00		0.01

Dixon 1 - B

Sample and source description: Dixon 1 - B

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

Moisture: 70.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,600.00	3,700.00	23,200.00		9.80
DL	100.00	100.00	100.00		0.01

Dixon 1 - 06/11/2023: Corn, silage

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Dixon 1 - 06/11/2023: Corn, silage

Dixon 1 - A

Sample and source description: Dixon 1 - A

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

Moisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,000.00	2,300.00	15,400.00		7.80
DL	100.00	100.00	100.00		0.01

Dixon 1 - B

Sample and source description: Dixon 1 - B

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

Moisture: 65.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,100.00	2,700.00	14,900.00		6.60
DL	100.00	100.00	100.00		0.01

Dixon 2 - 11/17/2022: Oats, silage-soft dough

Dixon 2 - A

Sample and source description: Dixon 2 - A

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

Moisture: 66.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,400.00	3,200.00	18,200.00		10.30
DL	100.00	100.00	100.00		0.01

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Dixon 2 - 11/17/2022: Oats, silage-soft dough

Dixon 2 - B

Sample and source description: Dixon 2 - B

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

Moisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,900.00	3,200.00	17,600.00		8.00
DL	100.00	100.00	100.00		0.01

Dixon 2 - 06/18/2023: Corn, silage

Dixon 2 - A

Sample and source description: Dixon 2 - A

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

Moisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,800.00	2,200.00	18,500.00		7.70
DL	100.00	100.00	100.00		0.01

Dixon 2 - B

Sample and source description: Dixon 2 - B

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

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,200.00	3,400.00	18,600.00		7.70
DL	100.00	100.00	100.00		0.01

Dixon 3 - 11/17/2022: Oats, silage-soft dough

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Dixon 3 - 11/17/2022: Oats, silage-soft dough

Dixon 3 - A

Sample and source description: Dixon 3 - A

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

Moisture: 62.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,800.00	3,900.00	24,800.00		9.10
DL	100.00	100.00	100.00		0.01

Dixon 3 - B

Sample and source description: Dixon 3 - B

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

Moisture: 64.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,800.00	3,100.00	16,300.00		7.50
DL	100.00	100.00	100.00		0.01

Dixon 3 - 06/08/2023: Corn, silage

Dixon 3 - A

Sample and source description: Dixon 3 - A

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,600.00	2,200.00	14,900.00		7.20
DL	100.00	100.00	100.00		0.01

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Dixon 3 - 06/08/2023: Corn, silage

Dixon 3 - B

Sample and source description: Dixon 3 - B

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,500.00	2,000.00	13,400.00		8.00
DL	100.00	100.00	100.00		0.01

Dixon 4 - 11/15/2022: Oats, silage-soft dough

Dixon 4

Sample and source description: Dixon 4

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,900.00	6,000.00	29,300.00		14.40
DL	100.00	100.00	100.00		0.01

Dixon 4 - 06/11/2023: Corn, silage

Dixon 4

Sample and source description: Dixon 4

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 74.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,200.00	2,500.00	18,500.00		7.00
DL	100.00	100.00	100.00		0.01

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East Chowchilla - 11/17/2022: Oats, silage-soft dough

East Chowchilla - 1

Sample and source description: East Chowchilla - 1

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,400.00	2,700.00	15,600.00		7.70
DL	100.00	100.00	100.00		0.01

East Chowchilla - 10

Sample and source description: East Chowchilla - 10

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,800.00	2,700.00	15,300.00		7.40
DL	100.00	100.00	100.00		0.01

East Chowchilla - 2

Sample and source description: East Chowchilla - 2

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,100.00	2,500.00	14,700.00		7.50
DL	100.00	100.00	100.00		0.01

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East Chowchilla - 11/17/2022: Oats, silage-soft dough

East Chowchilla - 3

Sample and source description: East Chowchilla - 3

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,900.00	2,500.00	14,400.00		7.40
DL	100.00	100.00	100.00		0.01

East Chowchilla - 4

Sample and source description: East Chowchilla - 4

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,200.00	2,400.00	14,700.00		7.20
DL	100.00	100.00	100.00		0.01

East Chowchilla - 5

Sample and source description: East Chowchilla - 5

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,700.00	2,900.00	19,000.00		10.20
DL	100.00	100.00	100.00		0.01

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East Chowchilla - 11/17/2022: Oats, silage-soft dough

East Chowchilla - 6

Sample and source description: East Chowchilla - 6

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,100.00	2,400.00	14,500.00		7.10
DL	100.00	100.00	100.00		0.01

East Chowchilla - 7

Sample and source description: East Chowchilla - 7

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,600.00	2,400.00	14,300.00		6.60
DL	100.00	100.00	100.00		0.01

East Chowchilla - 8

Sample and source description: East Chowchilla - 8

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,900.00	2,800.00	16,900.00		9.40
DL	100.00	100.00	100.00		0.01

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East Chowchilla - 11/17/2022: Oats, silage-soft dough

East Chowchilla - 9

Sample and source description: East Chowchilla - 9

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,300.00	2,700.00	15,200.00		8.20
DL	100.00	100.00	100.00		0.01

East Chowchilla - 11

Sample and source description: East Chowchilla - 11

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

Moisture: 68.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,800.00	4,700.00	28,600.00		12.10
DL	100.00	100.00	100.00		0.01

Ginsburg - 11/17/2022: Oats, silage-soft dough

Ginsburg & Ginsburg 2 - A

Sample and source description: Ginsburg & Ginsburg 2 - A

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,300.00	3,900.00	26,600.00		8.60
DL	10.00	10.00	10.00		1.00

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Ginsburg - 11/17/2022: Oats, silage-soft dough

Ginsburg & Ginsburg 2 - B

Sample and source description: Ginsburg & Ginsburg 2 - B

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,100.00	3,900.00	24,300.00		10.50
DL	10.00	10.00	10.00		1.00

Ginsburg - 06/22/2023: Corn, silage

Ginsburg & Ginsburg 2 - A

Sample and source description: Ginsburg & Ginsburg 2 - A

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

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	2,700.00	13,200.00		6.40
DL	100.00	100.00	100.00		0.01

Ginsburg & Ginsburg 2 - B

Sample and source description: Ginsburg & Ginsburg 2 - B

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

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	2,700.00	14,100.00		6.80
DL	100.00	100.00	100.00		0.01

Ginsburg 2 - 11/15/2022: Oats, silage-soft dough

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Ginsburg 2 - 11/15/2022: Oats, silage-soft dough

Ginsburg & Ginsburg 2 - A

Sample and source description: Ginsburg & Ginsburg 2 - A

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,300.00	3,900.00	26,600.00		8.60
DL	100.00	100.00	100.00		0.01

Ginsburg & Ginsburg 2 - B

Sample and source description: Ginsburg & Ginsburg 2 - B

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,100.00	3,900.00	24,300.00		10.50
DL	100.00	100.00	100.00		0.01

Ginsburg 2 - 06/22/2023: Corn, silage

Ginsburg & Ginsburg 2 - A

Sample and source description: Ginsburg & Ginsburg 2 - A

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

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	2,700.00	13,200.00		6.40
DL	100.00	100.00	100.00		0.01

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Ginsburg 2 - 06/22/2023: Corn, silage

Ginsburg & Ginsburg 2 - B

Sample and source description: Ginsburg & Ginsburg 2 - B

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

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	2,700.00	14,100.00		6.80
DL	100.00	100.00	100.00		0.01

Looney 1 - 11/15/2022: Oats, silage-soft dough

Looney 1

Sample and source description: Looney 1

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,600.00	3,800.00	26,100.00		7.60
DL	100.00	100.00	100.00		0.01

Looney 1 - 06/22/2023: Corn, silage

Looney 1

Sample and source description: Looney 1

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

Moisture: 68.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,700.00	2,400.00	12,200.00		6.00
DL	100.00	100.00	100.00		0.01

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Looney 2 - 11/17/2022: Oats, silage-soft dough

Looney 2

Sample and source description: Looney 2

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

Moisture: 67.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,900.00	4,000.00	24,300.00		9.30
DL	100.00	100.00	100.00		0.01

Looney 2 - 07/26/2023: Corn, silage

Looney 2

Sample and source description: Looney 2

Sample date: 09/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	2,600.00	22,200.00		8.50
DL	100.00	100.00	100.00		0.01

Looney 3 - 11/17/2022: Oats, silage-soft dough

Looney 3

Sample and source description: Looney 3

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

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	3,200.00	21,100.00		9.60
DL	100.00	100.00	100.00		0.01

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Looney 3 - 07/26/2023: Corn, silage

Looney 3

Sample and source description: Looney 3

Sample date: 09/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,200.00	3,000.00	20,700.00		7.80
DL	100.00	100.00	100.00		0.01

Looney 4 - 11/15/2022: Oats, silage-soft dough

Looney 4-A

Sample and source description: Looney 4-A

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 52.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,900.00	4,100.00	28,100.00		9.70
DL	100.00	100.00	100.00		0.01

Looney 4-B

Sample and source description: Looney 4-B

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 52.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,700.00	3,800.00	26,900.00		10.40
DL	100.00	100.00	100.00		0.01

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Looney 4 - 11/15/2022: Oats, silage-soft dough

Looney 4-C

Sample and source description: Looney 4-C

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 54.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,400.00	4,900.00	29,000.00		10.40
DL	100.00	100.00	100.00		0.01

Looney 4 - 06/02/2023: Corn, silage

Looney 4-A

Sample and source description: Looney 4-A

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	2,700.00	22,100.00		8.10
DL	100.00	100.00	100.00		0.01

Looney 4-B

Sample and source description: Looney 4-B

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 76.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,900.00	3,100.00	22,900.00		9.00
DL	100.00	100.00	100.00		0.01

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Looney 4 - 06/02/2023: Corn, silage

Looney 4-C

Sample and source description: Looney 4-C

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,200.00	2,500.00	21,100.00		7.50
DL	100.00	100.00	100.00		0.01

Marge 1 - 10/10/2005: Clover-grass, hay

Marge 1A

Sample and source description: Marge 1A

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,700.00	3,900.00	34,800.00		9.40
DL	100.00	100.00	100.00		0.01

Marge 1B

Sample and source description: Marge 1B

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 79.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	40,900.00	3,600.00	42,300.00		13.50
DL	100.00	100.00	100.00		0.01

Upton 1 - 11/15/2022: Oats, silage-soft dough

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Upton 1 - 11/15/2022: Oats, silage-soft dough

Upton A

Sample and source description: Upton A

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 76.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,900.00	4,600.00	37,100.00		12.00
DL	100.00	100.00	100.00		0.01

Upton B

Sample and source description: Upton B

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 77.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,100.00	4,600.00	37,000.00		12.30
DL	100.00	100.00	100.00		0.01

Upton 1 - 04/01/2023: Corn, silage

Upton A

Sample and source description: Upton A

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

Moisture: 63.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,000.00	2,700.00	12,600.00		5.60
DL	100.00	100.00	100.00		0.01

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Upton 1 - 04/01/2023: Corn, silage

Upton B

Sample and source description: Upton B

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

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	2,900.00	12,400.00		5.40
DL	100.00	100.00	100.00		0.01

Upton 1 - 09/15/2023: Clover-grass, hay

Upton C

Sample and source description: Upton C

Sample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 81.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	54,100.00	4,900.00	36,100.00		11.30
DL	100.00	100.00	100.00		0.01

Velasco 1 - 11/15/2022: Oats, silage-soft dough

Velasco 1

Sample and source description: Velasco 1

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

Moisture: 57.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,000.00	3,300.00	16,400.00		8.10
DL	100.00	100.00	100.00		0.01

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Velasco 1 - 07/02/2023: Corn, silage

Velasco 1-A

Sample and source description: Velasco 1-A

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

Moisture: 68.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,700.00	3,600.00	12,900.00		6.00
DL	100.00	100.00	100.00		0.01

Velasco 1-B

Sample and source description: Velasco 1-B

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

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,900.00	3,700.00	11,500.00		6.40
DL	100.00	100.00	100.00		0.01

Velasco 2 - 11/15/2022: Oats, silage-soft dough

Velasco 2

Sample and source description: Velasco 2

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

Moisture: 59.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,200.00	3,300.00	17,700.00		8.10
DL	100.00	100.00	100.00		0.01

Velasco 2 - 08/17/2023: Corn, silage

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Velasco 2 - 08/17/2023: Corn, silage

Velasco 2

Sample and source description: Velasco 2

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

Moisture: 71.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,300.00	3,300.00	17,300.00		7.40
DL	100.00	100.00	100.00		0.01

Weholt 1 - 11/15/2022: Oats, silage-soft dough

Weholt 1

Sample and source description: Weholt 1

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 80.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,100.00	5,300.00	38,000.00		12.30
DL	100.00	100.00	100.00		0.01

Weholt 1 - 04/01/2023: Corn, silage

Weholt 1

Sample and source description: Weholt 1

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

Moisture: 45.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,800.00	2,500.00	5,800.00		2.50
DL	100.00	100.00	100.00		0.01

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Weholt 2 - 11/15/2022: Oats, silage-soft dough

Weholt 2

Sample and source description: Weholt 2

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 80.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,000.00	5,000.00	38,700.00		12.30
DL	100.00	100.00	100.00		0.01

Weholt 2 - 04/01/2023: Corn, silage

Weholt 2

Sample and source description: Weholt 2

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

Moisture: 48.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,600.00	2,800.00	6,200.00		2.40
DL	100.00	100.00	100.00		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

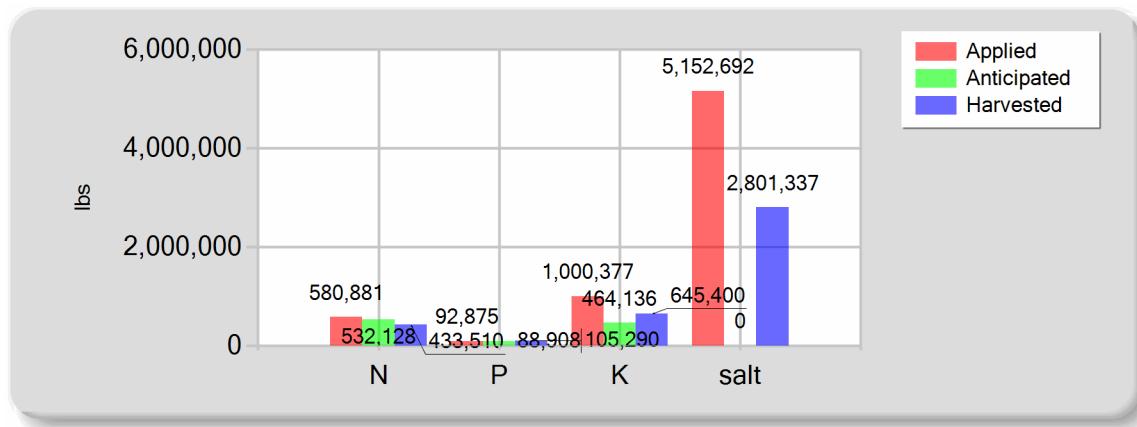
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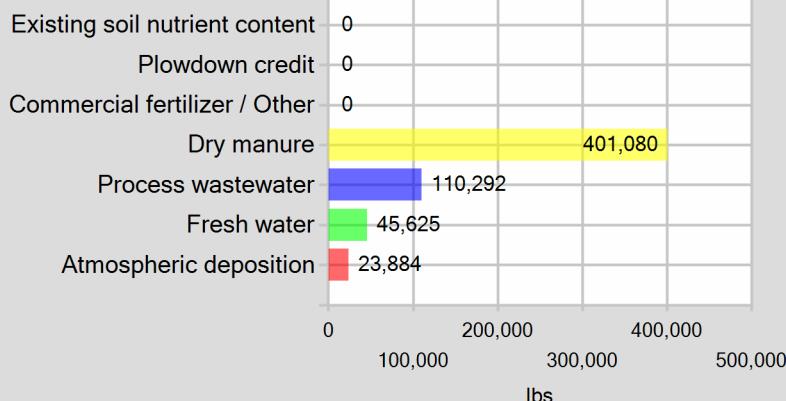
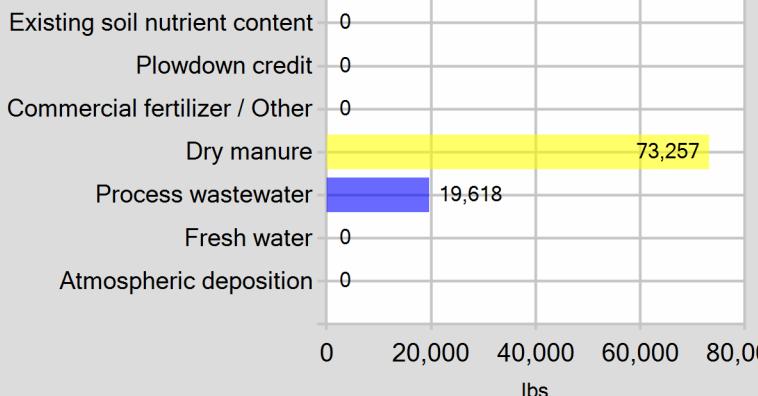
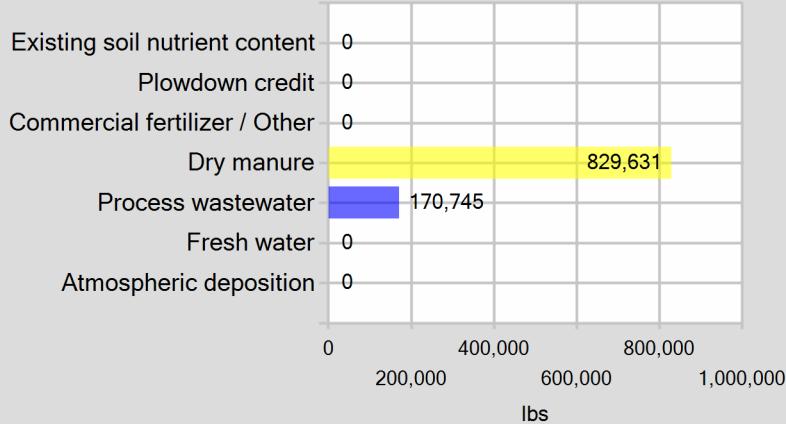
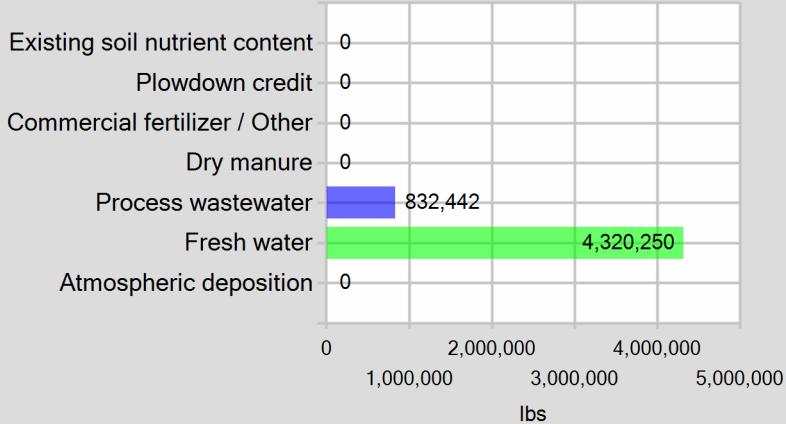
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NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**

	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	0.00	0.00	0.00	0.00
Dry manure	401,080.10	73,256.64	829,631.45	0.00
Process wastewater	110,291.77	19,618.03	170,745.33	832,442.12
Fresh water	45,624.91	0.00	0.00	4,320,249.74
Atmospheric deposition	23,884.00	0.00	0.00	0.00
Total nutrients applied	580,880.78	92,874.67	1,000,376.78	5,152,691.87
Anticipated crop nutrient removal	532,128.00	88,908.00	464,136.00	0.00
Actual crop nutrient removal	433,510.06	105,290.06	645,400.04	2,801,336.86
Nutrient balance	147,370.72	-12,415.39	354,976.74	2,351,355.01
Applied to removed ratio	1.34	0.88	1.55	1.84

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE**Pounds of nitrogen applied****Pounds of phosphorus applied****Pounds of potassium applied****Pounds of salt applied**

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EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

No notes entered for this annual report.

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

Lloyd Fagundes

Lloyd Fagundes (June 25, 2024 17:07 PDT)

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Fagundes Dairy C/O Ralph, Lloyd, &/or Fred Fagundes

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

6/25/2024

DATE

DATE



R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/21/2023 10:21

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1364-01	Baker 1 AW	Ag Water	T. Madruga		08/14/2023 13:30
23H1364-02	Blair 2 -3 #2 AW	Ag Water	T. Madruga		08/14/2023 13:45
23H1364-03	Dixon 1 AW	Ag Water	T. Madruga		08/14/2023 14:00
23H1364-04	Dixon 3 AW	Ag Water	T. Madruga		08/14/2023 14:15
23H1364-05	E14-1 AW	Ag Water	T. Madruga		08/14/2023 14:30
23H1364-06	Looney 1 AW	Ag Water	T. Madruga		08/14/2023 14:45
23H1364-07	Looney 3 AW	Ag Water	T. Madruga		08/14/2023 15:00
23H1364-08	Upton	Ag Water	T. Madruga		08/14/2023 15:15
23H1364-09	Velasco 1 AW	Ag Water	T. Madruga		08/14/2023 15:30
23H1364-10	Velasco 2 AW	Ag Water	T. Madruga		08/14/2023 15:45

Default Cooler Temperature on Receipt °C: 1.4
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/21/2023 10:21

Sample Results

**Sample: Baker 1 AW
23H1364-01 (Water)**

Sampled: 8/14/2023 13:30

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.24	mmhos/cm	0.01	1		08/15/23 17:49	SM 2510 B		BEH0757
Electrical Conductivity umhos	244	umhos/cm	10.0	1		08/15/23 17:49	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	0.9	mg/L	0.1	1	10	08/16/23 03:54	EPA 300.0		BEH0727
pH	7.8	units	1.0	1		08/15/23 17:49	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	208	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 17:49	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/17/23 10:05	SM 4500-NH3 C		BEH0783
Total Nitrogen	1.12	mg/L	1.00	1		08/17/23 10:05	SM 4500-NH3 C		BEH0783

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Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/21/2023 10:21

**Sample: Blair 2 -3 #2 AW
23H1364-02 (Water)**

Sampled: 8/14/2023 13:45

Sampled By: T. Madruga

Sample Results
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.49	mmhos/cm	0.01	1		08/15/23 17:50	SM 2510 B		BEH0757
Electrical Conductivity umhos	486	umhos/cm	10.0	1		08/15/23 17:50	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	6.9	mg/L	0.1	1	10	08/16/23 04:14	EPA 300.0		BEH0727
pH	7.3	units	1.0	1		08/15/23 17:50	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	325	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 17:50	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/17/23 10:07	SM 4500-NH3 C		BEH0783
Total Nitrogen	6.88	mg/L	1.00	1		08/17/23 10:07	SM 4500-NH3 C		BEH0783

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Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/21/2023 10:21

Sample Results
(Continued)

Sample: Dixon 1 AW
23H1364-03 (Water)

Sampled: 8/14/2023 14:00

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.30	mmhos/cm	0.01	1		08/15/23 17:52	SM 2510 B		BEH0757
Electrical Conductivity umhos	305	umhos/cm	10.0	1		08/15/23 17:52	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	0.9	mg/L	0.1	1	10	08/16/23 04:34	EPA 300.0		BEH0727
pH	7.7	units	1.0	1		08/15/23 17:52	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	227	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 17:52	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/17/23 10:08	SM 4500-NH3 C		BEH0783
Total Nitrogen	ND	mg/L	1.00	1		08/17/23 10:08	SM 4500-NH3 C		BEH0783

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Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/21/2023 10:21

Sample: Dixon 3 AW
23H1364-04 (Water)

Sampled: 8/14/2023 14:15

Sampled By: T. Madruga

Sample Results
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.31	mmhos/cm	0.01	1		08/15/23 17:53	SM 2510 B		BEH0757
Electrical Conductivity umhos	306	umhos/cm	10.0	1		08/15/23 17:53	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	0.9	mg/L	0.1	1	10	08/16/23 04:55	EPA 300.0		BEH0727
pH	7.7	units	1.0	1		08/15/23 17:53	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	227	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 17:53	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/17/23 10:09	SM 4500-NH3 C		BEH0783
Total Nitrogen	ND	mg/L	1.00	1		08/17/23 10:09	SM 4500-NH3 C		BEH0783

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Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/21/2023 10:21

Sample Results
(Continued)

Sample: E14-1 AW
23H1364-05 (Water)

Sampled: 8/14/2023 14:30

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.70	mmhos/cm	0.01	1		08/15/23 17:54	SM 2510 B		BEH0757
Electrical Conductivity umhos	702	umhos/cm	10.0	1		08/15/23 17:54	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	6.7	mg/L	0.1	1	10	08/16/23 05:15	EPA 300.0		BEH0727
pH	7.7	units	1.0	1		08/15/23 17:54	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	460	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 17:54	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/17/23 10:11	SM 4500-NH3 C		BEH0783
Total Nitrogen	6.83	mg/L	1.00	1		08/17/23 10:11	SM 4500-NH3 C		BEH0783

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Received: 08/15/2023 14:18
Reported: 08/21/2023 10:21

Sample Results
(Continued)

**Sample: Looney 1 AW
23H1364-06 (Water)**

Sampled: 8/14/2023 14:45

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.40	mmhos/cm	0.01	1		08/15/23 17:55	SM 2510 B		BEH0757
Electrical Conductivity umhos	398	umhos/cm	10.0	1		08/15/23 17:55	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	1.1	mg/L	0.1	1	10	08/16/23 05:35	EPA 300.0		BEH0727
pH	7.7	units	1.0	1		08/15/23 17:55	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	277	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 17:55	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/17/23 10:12	SM 4500-NH3 C		BEH0783
Total Nitrogen	1.09	mg/L	1.00	1		08/17/23 10:12	SM 4500-NH3 C		BEH0783

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Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/21/2023 10:21

Sample Results
(Continued)

**Sample: Looney 3 AW
23H1364-07 (Water)**

Sampled: 8/14/2023 15:00

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	2.15	mmhos/cm	0.01	1		08/15/23 18:03	SM 2510 B		BEH0757
Electrical Conductivity umhos	2150	umhos/cm	10.0	1		08/15/23 18:03	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	68.9	mg/L	0.1	1	10	08/16/23 05:56	EPA 300.0		BEH0727
pH	7.1	units	1.0	1		08/15/23 18:03	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	1430	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 18:03	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/17/23 10:13	SM 4500-NH3 C		BEH0783
Total Nitrogen	68.9	mg/L	1.00	1		08/17/23 10:13	SM 4500-NH3 C		BEH0783

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Reported: 08/21/2023 10:21

Sample Results
(Continued)

Sample: Upton
23H1364-08 (Water)

Sampled: 8/14/2023 15:15

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.70	mmhos/cm	0.01	1		08/15/23 18:05	SM 2510 B		BEH0757
Electrical Conductivity umhos	696	umhos/cm	10.0	1		08/15/23 18:05	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	3.7	mg/L	0.1	1	10	08/16/23 06:16	EPA 300.0		BEH0727
pH	7.6	units	1.0	1		08/15/23 18:05	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	455	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 18:05	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/17/23 10:15	SM 4500-NH3 C		BEH0783
Total Nitrogen	3.75	mg/L	1.00	1		08/17/23 10:15	SM 4500-NH3 C		BEH0783

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Sample Results
(Continued)

**Sample: Velasco 1 AW
23H1364-09 (Water)**

Sampled: 8/14/2023 15:30

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.46	mmhos/cm	0.01	1		08/15/23 18:06	SM 2510 B		BEH0757
Electrical Conductivity umhos	464	umhos/cm	10.0	1		08/15/23 18:06	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	2.4	mg/L	0.1	1	10	08/16/23 06:36	EPA 300.0		BEH0727
pH	7.8	units	1.0	1		08/15/23 18:06	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	320	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 18:06	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/17/23 10:17	SM 4500-NH3 C		BEH0783
Total Nitrogen	2.42	mg/L	1.00	1		08/17/23 10:17	SM 4500-NH3 C		BEH0783

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Ranch: TF Farms

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Sample Results
(Continued)

**Sample: Velasco 2 AW
23H1364-10 (Water)**

Sampled: 8/14/2023 15:45

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.46	mmhos/cm	0.01	1		08/15/23 18:07	SM 2510 B		BEH0757
Electrical Conductivity umhos	462	umhos/cm	10.0	1		08/15/23 18:07	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	2.4	mg/L	0.1	1	10	08/16/23 06:56	EPA 300.0		BEH0727
pH	7.8	units	1.0	1		08/15/23 18:07	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	310	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 18:07	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/17/23 10:18	SM 4500-NH3 C		BEH0783
Total Nitrogen	2.41	mg/L	1.00	1		08/17/23 10:18	SM 4500-NH3 C		BEH0783

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Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0727									
Blank (BEH0727-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/15/2023				
Blank (BEH0727-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 8/15/2023 Analyzed: 8/16/2023				
Blank (BEH0727-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 8/15/2023 Analyzed: 8/16/2023				
LCS (BEH0727-BS1)									
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000		109	90-110		
LCS (BEH0727-BS2)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		103	90-110		
Duplicate (BEH0727-DUP1)									
Nitrate Nitrogen as NO3N	1.4	0.1	mg/L		Prepared: 8/15/2023 Analyzed: 8/16/2023			0.293	10
Duplicate (BEH0727-DUP2)									
Nitrate Nitrogen as NO3N	0.9	0.1	mg/L		Prepared: 8/15/2023 Analyzed: 8/16/2023			0.442	10
Matrix Spike (BEH0727-MS1)									
Nitrate Nitrogen as NO3N	6.6	0.1	mg/L	5.000	1.4	104	90-110		
Matrix Spike (BEH0727-MS2)									
Nitrate Nitrogen as NO3N	6.1	0.1	mg/L	5.000	0.9	104	90-110		
Reference (BEH0727-SRM1)									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Reference (BEH0727-SRM2)									
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00		103	90-110		

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0757									
Blank (BEH0757-BLK1)									
Prepared & Analyzed: 8/15/2023									
pH	5.3	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEH0757-BLK2)									
Prepared & Analyzed: 8/15/2023									
pH	7.1	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEH0757-BLK3)									
Prepared & Analyzed: 8/15/2023									
pH	7.0	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Duplicate (BEH0757-DUP1)									
Source: 23H1364-01 Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	0.24	0.01	mmhos/cm		0.24			1.49	10
pH	7.8	1.0	units		7.8			0.384	10
Electrical Conductivity umhos	240	10.0	umhos/cm		244			1.49	10
Duplicate (BEH0757-DUP2)									
Source: 23H1368-03 Prepared & Analyzed: 8/15/2023									
pH	7.6	1.0	units		7.6			0.656	10
Electrical Conductivity	3.35	0.01	mmhos/cm		3.36			0.215	10
Electrical Conductivity umhos	3350	10.0	umhos/cm		3360			0.215	10
Reference (BEH0757-SRM1)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	515		umhos/cm		538.0	95.7	90-110		
Reference (BEH0757-SRM2)									
Prepared & Analyzed: 8/15/2023									
pH	5.8		units		5.820	100	28178-101.7:		
Reference (BEH0757-SRM3)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	949		umhos/cm		1000	94.9	90-110		
Electrical Conductivity umhos	949		umhos/cm		1000	94.9	90-110		
Reference (BEH0757-SRM4)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	954		umhos/cm		1000	95.4	90-110		
Electrical Conductivity umhos	954		umhos/cm		1000	95.4	90-110		
Reference (BEH0757-SRM5)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	958		umhos/cm		1000	95.8	90-110		

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R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/21/2023 10:21

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0757 (Continued)									
Reference (BEH0757-SRM5)									
Electrical Conductivity umhos	958		umhos/cm	1000	95.8	90-110			
Reference (BEH0757-SRM6)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEH0757-SRM7)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEH0757-SRM8)									
pH	4.0		units	4.000	100	97.5-102.5			

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0781									
Blank (BEH0781-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/16/2023 Analyzed: 8/17/2023				
LCS (BEH0781-BS1)					Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Filterable Solids (TDS)	21.2	10.0	mg/L	2000	1.06	0-200			
Duplicate (BEH0781-DUP1)		Source: 23H1364-05			Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Filterable Solids (TDS)	490	10.0	mg/L	460			6.32	10	
Duplicate (BEH0781-DUP2)		Source: 23H1455-01			Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Filterable Solids (TDS)	2510	10.0	mg/L	2520			0.496	10	
Reference (BEH0781-SRM1)					Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Filterable Solids (TDS)	310		mg/L	325.0	95.4	90-110			
Reference (BEH0781-SRM2)					Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Filterable Solids (TDS)	480		mg/L	495.0	97.0	90-110			

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Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/21/2023 10:21

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0783									
Blank (BEH0783-BLK1)									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L		Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Nitrogen	ND	1.00	mg/L						
Blank (BEH0783-BLK2)									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L		Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Nitrogen	ND	1.00	mg/L						
LCS (BEH0783-BS1)									
Kjeldahl Nitrogen (TKN), Total	5.83	1.00	mg/L	5.709		102	90-110		
LCS (BEH0783-BS2)									
Kjeldahl Nitrogen (TKN), Total	5.86	1.00	mg/L	5.709		103	90-110		
Duplicate (BEH0783-DUP1)									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		Prepared: 8/16/2023 Analyzed: 8/17/2023				
					ND				10
Duplicate (BEH0783-DUP2)									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		Prepared: 8/16/2023 Analyzed: 8/17/2023				
					ND				10
Matrix Spike (BEH0783-MS1)									
Kjeldahl Nitrogen (TKN), Total	6.68	1.40	mg/L	7.992		83.6	90-110		
Matrix Spike (BEH0783-MS2)									
Kjeldahl Nitrogen (TKN), Total	7.77	1.40	mg/L	7.992		97.3	90-110		
Reference (BEH0783-SRM1)									
Kjeldahl Nitrogen (TKN), Total	23.4		mg/L	23.80		98.1	90-110		
					Prepared: 8/16/2023 Analyzed: 8/17/2023				

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08/15/23 14:18

23H1364


DELLAVALLE LABORATORY, INC.

 1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
 www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

Purchase Order No	Bill To:	Acct #	Cons #
		19840	08

No. Samples	10	No. of Bottles:	<u>20</u>
-------------	----	-----------------	-----------

Water Type:	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Wastewater
[X] Ag Water	<input type="checkbox"/> Groundwater	<input type="checkbox"/> Monitoring Well

Results Need By _____

Name: R & J Avila Inc
 Address: 8119 Ellington Avenue
 City: Hilmar State: CA Zip: 95324
 Telephone: (209) 669-7919 Fax: (209) 634-4604
 Cell/Email: 209 678-3086 Rui / 209 678-1723 John frontdesk.randjavila@gmail.com

COPY TO:

REQUESTED BY: Rui & John Avila
 PROJECT: TF Farms
 ID CROP: N/A

Copy of Chain QA/QC Documents

Sampled By: T. Madruga

Other: _____

Analysis and Bottles Required: (Please indicate Analysis)

DWW1: EC, pH, NO₃-N (NH₄-N Field Test)
 (1-1 Liter Plastic, Unpreserved) White Per Sample

DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS
 (1-1 Liter Plastic, Unpreserved) White Per Sample

DCW1: EC, NO₃-N, TDS + TKN & TN
 (1-1 Liter Plastic, Unpreserved) White Per Sample

DPW1: EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK
 (1-1 Liter Plastic, Unpreserved) White Per Sample

DPW2: DPW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na
 (1-1 Liter Plastic, Unpreserved) White Per Sample

Other _____

Description of Samples		Date Sampled	Time Sampled	Rec'd Temp °C	Field NH ₄ -N
1	Baker 1 AW	8/14/2023	1330	<u>1.4</u>	
2	Blair 2 -3 #2 AW	8/14/2023	1345	<u>1.3</u>	
3	Dixon 1 AW	8/14/2023	1400	<u>2.9</u>	
4	Dixon 3 AW	8/14/2023	1415	<u>2.5</u>	
5	E14-1 AW	8/14/2023	1430	<u>2.9</u>	
6	Looney 1 AW	8/14/2023	1445	<u>1.8</u>	
7	Looney 3 AW	8/14/2023	1500	<u>2.3</u>	
8	Upton	8/14/2023	1515	<u>1.8</u>	
9	Velasco 1 AW	8/14/2023	1530	<u>1.8</u>	
10	Velasco 2 AW	8/14/2023	1545	<u>1.5</u>	

CHAIN OF CUSTODY				
Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>John Avila</u>	R & J Avila, Inc.	8/14/2023 @ 1545	8/15/23 @ 900
Second	<u>JLF</u>	Dellavalle Laboratory, Inc.	8/15/2023 @ 900	<u>8/15/23 1:55</u>
Third				
Fourth	<u>JM</u>	DL1	8/15/23 14:18	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

Signature _____

Samples received in cooler with ice (coolant)

[] Yes [] No



08/15/23 14:18

23H1364

Shipping Information:	Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	GSO <input type="checkbox"/>	Picked-Up <input checked="" type="checkbox"/>	Walk In <input type="checkbox"/>	DLI Sampler <input type="checkbox"/>				
Ontrac <input type="checkbox"/>	PMS <input type="checkbox"/>	USPS <input type="checkbox"/>	Other <input type="checkbox"/>							
Shipping Container:	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/>	Box <input type="checkbox"/>							
Refrigerant:	Wet Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	None <input type="checkbox"/>							
Container(s) Received	1	2	3	4	5	6	7	8	9	10
Plastics:										
100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
250 mL unpreserved (White)										
250 mL HNO ₃ (Red)										
250 mL H ₂ SO ₄ (Yellow)										
500 mL unpreserved (White)										
500 mL HNO ₃ (Red)										
500 mL H ₂ SO ₄ (Yellow)										
1 L unpreserved (White)										
1 L unpreserved (BOD) (Purple)										
1 L HNO ₃ (Red)										
1 L H ₂ SO ₄ (Yellow)										
VOA Vials in sets of 3:										
40 mL VOA, HCl (Blue)										
40 mL VOA, Na ₂ S ₂ O ₃ (Green)										
40 mL VOA, unpreserved (White)										
Glass:										
250 mL AG unpreserved (White)										
250 mL AG H ₂ SO ₄ (Yellow)										
250 mL AG Na ₂ S ₂ O ₃ (Green)										
250 mL AG Na ₂ S ₂ O ₃ + MCAA										
500 mL glass unpreserved (White)										
500 mL AG HCl (Blue)										
1 L AG unpreserved (White)										
1 L AG H ₂ SO ₄ (Yellow)										
1 L AG Na ₂ S ₂ O ₃ (Green)										
1 L AG HCl (Blue)										
Special:										
Cr ⁶⁺ w/Borate/HCO ₃ /CO ₃										
Cyanide - 500 mL NaOH										
Asbestos - 2 - 1L P wrapped in foil										
500 mL or 1 L AP Na ₂ S ₂ O ₃ (Green)										
1 L AG or P NaOH + ZnAc (Sulfide)										
Chlorite/Bromate 250 mL AG with EDA										
TTHM										
HAA5										
40 mL VOA, Na ₂ S ₂ O ₃ + MCAA										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025



R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/23/2023 15:57

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1366-01	Weholt	Ag Water	T. Madruga		08/14/2023 16:00

Default Cooler Temperature on Receipt °C: 1.6
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Reported: 08/23/2023 15:57

Sample Results

Sample: Weholt
23H1366-01 (Water)

Sampled: 8/14/2023 16:00
Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.39	mmhos/cm	0.01	1		08/15/23 18:08	SM 2510 B		BEH0757
Electrical Conductivity umhos	394	umhos/cm	10.0	1		08/15/23 18:08	SM 2510 B		BEH0757
Nitrate Nitrogen as NO3N	2.9	mg/L	0.1	1	10	08/16/23 01:43	EPA 300.0		BEH0724
pH	7.8	units	1.0	1		08/15/23 18:08	SM 4500-H+	H	BEH0757
Total Filterable Solids (TDS)	290	mg/L	10.0	1		08/17/23 16:38	SM 2540 C		BEH0781
Temperature	25.0	°C	0.0	1		08/15/23 18:08	SM 2510 B		BEH0757
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 13:16	SM 4500-NH3 C		BEH0808
Total Nitrogen	2.85	mg/L	1.00	1		08/18/23 13:16	SM 4500-NH3 C		BEH0808

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Ranch: TF Farms

Received: 08/15/2023 14:18
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Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0724									
Blank (BEH0724-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/15/2023				
Blank (BEH0724-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/15/2023				
Blank (BEH0724-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 8/15/2023 Analyzed: 8/16/2023				
LCS (BEH0724-BS1)									
Nitrate Nitrogen as NO3N	5.5	0.1	mg/L	5.000	110	90-110			
LCS (BEH0724-BS2)									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	103	90-110			
Duplicate (BEH0724-DUP1)									
Nitrate Nitrogen as NO3N	0.1	0.1	mg/L	0.08			26.2	10	
Duplicate (BEH0724-DUP2)									
Nitrate Nitrogen as NO3N	0.7	0.1	mg/L	0.7			0.542	10	
Matrix Spike (BEH0724-MS1)									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	0.08	97.4	90-110		
Matrix Spike (BEH0724-MS2)									
Nitrate Nitrogen as NO3N	5.7	0.1	mg/L	5.000	0.7	99.3	90-110		
Reference (BEH0724-SRM1)									
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.0	90-110		
Reference (BEH0724-SRM2)									
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		98.6	90-110		
Reference (BEH0724-SRM3)									
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		99.2	90-110		

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Received: 08/15/2023 14:18
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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0757									
Blank (BEH0757-BLK1)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.3	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEH0757-BLK2)									
Prepared & Analyzed: 8/15/2023									
pH	7.1	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEH0757-BLK3)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.0	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Duplicate (BEH0757-DUP1)									
Source: 23H1364-01 Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	0.24	0.01	mmhos/cm		0.24			1.49	10
pH	7.8	1.0	units		7.8			0.384	10
Electrical Conductivity umhos	240	10.0	umhos/cm		244			1.49	10
Duplicate (BEH0757-DUP2)									
Source: 23H1368-03 Prepared & Analyzed: 8/15/2023									
pH	7.6	1.0	units		7.6			0.656	10
Electrical Conductivity	3.35	0.01	mmhos/cm		3.36			0.215	10
Electrical Conductivity umhos	3350	10.0	umhos/cm		3360			0.215	10
Reference (BEH0757-SRM1)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	515		umhos/cm		538.0	95.7	90-110		
Reference (BEH0757-SRM2)									
Prepared & Analyzed: 8/15/2023									
pH	5.8		units		5.820	100	28178-101.7:		
Reference (BEH0757-SRM3)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	949		umhos/cm		1000	94.9	90-110		
Electrical Conductivity umhos	949		umhos/cm		1000	94.9	90-110		
Reference (BEH0757-SRM4)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	954		umhos/cm		1000	95.4	90-110		
Electrical Conductivity umhos	954		umhos/cm		1000	95.4	90-110		
Reference (BEH0757-SRM5)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	958		umhos/cm		1000	95.8	90-110		

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Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/23/2023 15:57

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0757 (Continued)									
Reference (BEH0757-SRM5)									
Electrical Conductivity umhos	958		umhos/cm	1000	95.8	90-110			
Reference (BEH0757-SRM6)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEH0757-SRM7)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEH0757-SRM8)									
pH	4.0		units	4.000	100	97.5-102.5			

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R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/23/2023 15:57

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0781									
Blank (BEH0781-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/16/2023 Analyzed: 8/17/2023				
LCS (BEH0781-BS1)					Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Filterable Solids (TDS)	21.2	10.0	mg/L	2000	1.06	0-200			
Duplicate (BEH0781-DUP1)		Source: 23H1364-05			Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Filterable Solids (TDS)	490	10.0	mg/L	460			6.32	10	
Duplicate (BEH0781-DUP2)		Source: 23H1455-01			Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Filterable Solids (TDS)	2510	10.0	mg/L	2520			0.496	10	
Reference (BEH0781-SRM1)					Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Filterable Solids (TDS)	310		mg/L	325.0	95.4	90-110			
Reference (BEH0781-SRM2)					Prepared: 8/16/2023 Analyzed: 8/17/2023				
Total Filterable Solids (TDS)	480		mg/L	495.0	97.0	90-110			

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Submitted By: Rui & John Avila
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Received: 08/15/2023 14:18
Reported: 08/23/2023 15:57

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0808									
Blank (BEH0808-BLK1)									
Kjeldahl Nitrogen (TKN), Total									
ND 1.00 mg/L									
Total Nitrogen									
ND 1.00 mg/L									
Blank (BEH0808-BLK2)									
Kjeldahl Nitrogen (TKN), Total									
ND 1.00 mg/L									
Total Nitrogen									
ND 1.00 mg/L									
LCS (BEH0808-BS1)									
Kjeldahl Nitrogen (TKN), Total									
5.65 1.00 mg/L 5.709 99.0 90-110									
LCS (BEH0808-BS2)									
Kjeldahl Nitrogen (TKN), Total									
6.17 1.00 mg/L 5.709 108 90-110									
Duplicate (BEH0808-DUP1)									
Kjeldahl Nitrogen (TKN), Total									
16.8 1.40 mg/L ND 10 10									
Duplicate (BEH0808-DUP2)									
Kjeldahl Nitrogen (TKN), Total									
284 3.50 mg/L 287 1.23 10									
Matrix Spike (BEH0808-MS1)									
Kjeldahl Nitrogen (TKN), Total									
8.86 1.40 mg/L 7.992 ND 111 90-110									
Matrix Spike (BEH0808-MS2)									
Kjeldahl Nitrogen (TKN), Total									
278 3.50 mg/L 9.990 287 NR 90-110									
Reference (BEH0808-SRM1)									
Kjeldahl Nitrogen (TKN), Total									
24.3 mg/L 23.80 102 90-110									

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08/15/23 14:18

23H1366

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

JL

No. Samples 1 No. of Bottles: 2

19840 | 08

Purchase Order No Bill To: Acct # Cons #

Water Type: [] Drinking Water [] Wastewater
[X] Ag Water [] Groundwater [] Monitoring Well

Results Need By

Name: R & J Avila Inc

Address: 8119 Ellington Avenue

City: Hilmar State: CA Zip: 95324

Telephone: (209) 669-7919 Fax: (209) 634-4604

Cell/Email: 209 678-3086 Rui / 209 678-1723 John frontdesk.randjavila@gmail.com

COPY TO:

REQUESTED BY: Rui & John Avila

PROJECT TF Farms

ID CROP: N/A

[X] Copy of Chain [X] QA/QC Documents

Sampled By: T. Madruga

Other:

Analysis and Bottles Required: (Please indicate Analysis)

- () DWW1: EC, pH, NO₃-N (NH₄-N Field Test)
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- (X) DCW1: EC, NO₃-N, TDS + TKN & TN
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () DPW1: EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () DPW2: DPW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () Other

Description of Samples		Date Sampled	Time Sampled	Rec'd Temp °C	Field NH ₄ -N
1	Weholt	8/14/2023	1600	1.6	
2					
3					
4					
5					
6				IR Thermometer SN: 192603727 Correction Factor: 0°C Calibration Due: 9/26/2023 Location: Laboratory	
7					
8					
9					
10					

CHAIN OF CUSTODY				
Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	John Avila	R & J Avila, Inc.	8/14/2023 @ 1600	8/15/2023 @ 900
Second	JLF	Dellavalle Laboratory, Inc.	8/15/2023 @ 900	8/15/23 1:55
Third				
Fourth	DL1		8/15/23 14:18	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

Signature

Samples received in cooler with ice (coolant)

[] Yes [] No



08/15/23 14:18

23H1366

Shipping Information: Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Picked-Up <input checked="" type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Ontrac <input type="checkbox"/> PMS <input type="checkbox"/> USPS <input type="checkbox"/> Other <input type="checkbox"/>										
Shipping Container: Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/>										
Refrigerant: Wet Ice: <input checked="" type="checkbox"/> Blue Ice: <input type="checkbox"/> None: <input type="checkbox"/>										
Container(s) Received	1	2	3	4	5	6	7	8	9	10
Plastics:										
100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
250 mL unpreserved (White)										
250 mL HNO ₃ (Red)										
250 mL H ₂ SO ₄ (Yellow)										
500 mL unpreserved (White)										
500 mL HNO ₃ (Red)										
500 mL H ₂ SO ₄ (Yellow)	1									
1 L unpreserved (White)	1									
1 L unpreserved (BOD) (Purple)										
1 L HNO ₃ (Red)										
1 L H ₂ SO ₄ (Yellow)										
VOA Vials in sets of 3:										
40 mL VOA, HCl (Blue)										
40 mL VOA, Na ₂ S ₂ O ₃ (Green)										
40 mL VOA, unpreserved (White)										
Glass:										
250 mL AG unpreserved (White)										
250 mL AG H ₂ SO ₄ (Yellow)										
250 mL AG Na ₂ S ₂ O ₃ (Green)										
250 mL AG Na ₂ S ₂ O ₃ + MCAA										
500 mL glass unpreserved (White)										
500 mL AG HCl (Blue)										
1 L AG unpreserved (White)										
1 L AG H ₂ SO ₄ (Yellow)										
1 L AG Na ₂ S ₂ O ₃ (Green)										
1 L AG HCl (Blue)										
Special:										
Cr ⁶⁺ w/Borate/HCO ₃ /CO ₃										
Cyanide - 500 mL NaOH										
Asbestos - 2 - 1L P wrapped in foil										
500 mL or 1 L AP Na ₂ S ₂ O ₃ (Green)										
1 L AG or P NaOH + ZnAc (Sulfide)										
Chlorite/Bromate 250 mL AG with EDA										
TTHM										
HAA5										
40 mL VOA, Na ₂ S ₂ O ₃ + MCAA										



R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1361-01	Calf Ranch	Ag Water	T. Madruga		08/14/2023 13:45
23H1361-02	Dairy #1 DW	Ag Water	T. Madruga		08/14/2023 14:00
23H1361-03	Dairy #2 DW	Ag Water	T. Madruga		08/14/2023 14:15
23H1361-04	Dairy #3 DW	Ag Water	T. Madruga		08/14/2023 14:30
23H1361-05	Dairy #4 DW	Ag Water	T. Madruga		08/14/2023 14:45
23H1361-06	Dixon 1 DW	Ag Water	T. Madruga		08/14/2023 15:00
23H1361-07	Dixon 4 DW	Ag Water	T. Madruga		08/14/2023 15:15
23H1361-08	E14-2 DW	Ag Water	T. Madruga		08/14/2023 15:30
23H1361-09	Looney 4 DW	Ag Water	T. Madruga		08/14/2023 15:45
23H1361-10	Velasco DW	Ag Water	T. Madruga		08/14/2023 16:00

Default Cooler Temperature on Receipt °C: 1.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

Sample Results

Sample: Calf Ranch
23H1361-01 (Water)

Sampled: 8/14/2023 13:45

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.68	mmhos/cm	0.01	1		08/15/23 17:20	SM 2510 B		BEH0723
Electrical Conductivity umhos	678	umhos/cm	10.0	1		08/15/23 17:20	SM 2510 B		BEH0723
Ammonia (as N)	ND	mg/L	0.00	1		08/14/23 13:45	Field		BEH0753
Nitrate Nitrogen as NO3N	9.5	mg/L	0.1	1	10	08/15/23 22:09	EPA 300.0		BEH0727
pH	7.2	units	1.0	1		08/15/23 17:20	SM 4500-H+	H	BEH0723
Temperature	25.0	°C	0.0	1		08/15/23 17:20	SM 2510 B		BEH0723

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8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

**Sample: Dairy #1 DW
23H1361-02 (Water)**

Sampled: 8/14/2023 14:00

Sampled By: T. Madruga

Sample Results
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.37	mmhos/cm	0.01	1		08/15/23 17:21	SM 2510 B		BEH0723
Electrical Conductivity umhos	365	umhos/cm	10.0	1		08/15/23 17:21	SM 2510 B		BEH0723
Ammonia (as N)	ND	mg/L	0.00	1		08/14/23 14:00	Field		BEH0753
Nitrate Nitrogen as NO3N	1.5	mg/L	0.1	1	10	08/15/23 22:29	EPA 300.0		BEH0727
pH	7.6	units	1.0	1		08/15/23 17:21	SM 4500-H+	H	BEH0723
Temperature	25.0	°C	0.0	1		08/15/23 17:21	SM 2510 B		BEH0723

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8119 Ellington Ave
Hilmar, CA 95324

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Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

**Sample: Dairy #2 DW
23H1361-03 (Water)**

Sampled: 8/14/2023 14:15

Sampled By: T. Madruga

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.31	mmhos/cm	0.01	1		08/15/23 17:23	SM 2510 B		BEH0723
Electrical Conductivity umhos	312	umhos/cm	10.0	1		08/15/23 17:23	SM 2510 B		BEH0723
Ammonia (as N)	ND	mg/L	0.00	1		08/14/23 14:15	Field		BEH0753
Nitrate Nitrogen as NO3N	1.4	mg/L	0.1	1	10	08/15/23 22:49	EPA 300.0		BEH0727
pH	7.8	units	1.0	1		08/15/23 17:23	SM 4500-H+	H	BEH0723
Temperature	25.0	°C	0.0	1		08/15/23 17:23	SM 2510 B		BEH0723

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Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

**Sample: Dairy #3 DW
23H1361-04 (Water)**

Sampled: 8/14/2023 14:30

Sampled By: T. Madruga

Sample Results
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.43	mmhos/cm	0.01	1		08/15/23 17:24	SM 2510 B		BEH0723
Electrical Conductivity umhos	431	umhos/cm	10.0	1		08/15/23 17:24	SM 2510 B		BEH0723
Ammonia (as N)	ND	mg/L	0.00	1		08/14/23 14:30	Field		BEH0753
Nitrate Nitrogen as NO3N	4.0	mg/L	0.1	1	10	08/15/23 23:09	EPA 300.0		BEH0727
pH	7.5	units	1.0	1		08/15/23 17:24	SM 4500-H+	H	BEH0723
Temperature	25.0	°C	0.0	1		08/15/23 17:24	SM 2510 B		BEH0723

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Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

**Sample: Dairy #4 DW
23H1361-05 (Water)**

Sampled: 8/14/2023 14:45

Sampled By: T. Madruga

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.31	mmhos/cm	0.01	1		08/15/23 17:25	SM 2510 B		BEH0723
Electrical Conductivity umhos	310	umhos/cm	10.0	1		08/15/23 17:25	SM 2510 B		BEH0723
Ammonia (as N)	ND	mg/L	0.00	1		08/14/23 14:45	Field		BEH0753
Nitrate Nitrogen as NO3N	1.4	mg/L	0.1	1	10	08/15/23 23:30	EPA 300.0		BEH0727
pH	7.8	units	1.0	1		08/15/23 17:25	SM 4500-H+	H	BEH0723
Temperature	25.0	°C	0.0	1		08/15/23 17:25	SM 2510 B		BEH0723

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8119 Ellington Ave
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Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

Sample Results
(Continued)

Sample: Dixon 1 DW
23H1361-06 (Water)

Sampled: 8/14/2023 15:00

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.54	mmhos/cm	0.01	1		08/15/23 17:26	SM 2510 B		BEH0723
Electrical Conductivity umhos	540	umhos/cm	10.0	1		08/15/23 17:26	SM 2510 B		BEH0723
Ammonia (as N)	ND	mg/L	0.00	1		08/14/23 15:00	Field		BEH0753
Nitrate Nitrogen as NO3N	5.0	mg/L	0.1	1	10	08/15/23 23:50	EPA 300.0		BEH0727
pH	7.5	units	1.0	1		08/15/23 17:26	SM 4500-H+	H	BEH0723
Temperature	25.0	°C	0.0	1		08/15/23 17:26	SM 2510 B		BEH0723

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Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

Sample: Dixon 4 DW
23H1361-07 (Water)

Sampled: 8/14/2023 15:15

Sampled By: T. Madruga

Sample Results
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.54	mmhos/cm	0.01	1		08/15/23 17:43	SM 2510 B		BEH0757
Electrical Conductivity umhos	538	umhos/cm	10.0	1		08/15/23 17:43	SM 2510 B		BEH0757
Ammonia (as N)	ND	mg/L	0.00	1		08/14/23 15:15	Field		BEH0753
Nitrate Nitrogen as NO3N	5.1	mg/L	0.1	1	10	08/16/23 00:10	EPA 300.0		BEH0727
pH	7.4	units	1.0	1		08/15/23 17:43	SM 4500-H+	H	BEH0757
Temperature	25.0	°C	0.0	1		08/15/23 17:43	SM 2510 B		BEH0757

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Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

Sample: E14-2 DW
23H1361-08 (Water)

Sampled: 8/14/2023 15:30

Sampled By: T. Madruga

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.82	mmhos/cm	0.01	1		08/15/23 17:45	SM 2510 B		BEH0757
Electrical Conductivity umhos	823	umhos/cm	10.0	1		08/15/23 17:45	SM 2510 B		BEH0757
Ammonia (as N)	ND	mg/L	0.00	1		08/14/23 15:30	Field		BEH0753
Nitrate Nitrogen as NO3N	4.8	mg/L	0.1	1	10	08/16/23 00:30	EPA 300.0		BEH0727
pH	7.4	units	1.0	1		08/15/23 17:45	SM 4500-H+	H	BEH0757
Temperature	25.0	°C	0.0	1		08/15/23 17:45	SM 2510 B		BEH0757

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R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

**Sample: Looney 4 DW
23H1361-09 (Water)**

Sampled: 8/14/2023 15:45

Sampled By: T. Madruga

Sample Results
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.27	mmhos/cm	0.01	1		08/15/23 17:46	SM 2510 B		BEH0757
Electrical Conductivity umhos	1270	umhos/cm	10.0	1		08/15/23 17:46	SM 2510 B		BEH0757
Ammonia (as N)	ND	mg/L	0.00	1		08/14/23 15:45	Field		BEH0753
Nitrate Nitrogen as NO3N	18.6	mg/L	0.1	1	10	08/16/23 00:51	EPA 300.0		BEH0727
pH	7.3	units	1.0	1		08/15/23 17:46	SM 4500-H+	H	BEH0757
Temperature	25.0	°C	0.0	1		08/15/23 17:46	SM 2510 B		BEH0757

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R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

Sample: Velasco DW
23H1361-10 (Water)

Sampled: 8/14/2023 16:00

Sampled By: T. Madruga

Sample Results
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.36	mmhos/cm	0.01	1		08/15/23 17:48	SM 2510 B		BEH0757
Electrical Conductivity umhos	357	umhos/cm	10.0	1		08/15/23 17:48	SM 2510 B		BEH0757
Ammonia (as N)	ND	mg/L	0.00	1		08/14/23 16:00	Field		BEH0753
Nitrate Nitrogen as NO3N	2.2	mg/L	0.1	1	10	08/16/23 01:11	EPA 300.0		BEH0727
pH	7.6	units	1.0	1		08/15/23 17:48	SM 4500-H+	H	BEH0757
Temperature	25.0	°C	0.0	1		08/15/23 17:48	SM 2510 B		BEH0757

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Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0723									
Blank (BEH0723-BLK1)									
Prepared & Analyzed: 8/15/2023									
pH	5.4	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEH0723-BLK2)									
Prepared & Analyzed: 8/15/2023									
pH	7.3	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEH0723-BLK3)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.7	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Duplicate (BEH0723-DUP1)									
Source: 23H0088-01 Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	1.25	0.01	mmhos/cm		1.26		0.748	10	
pH	8.4	1.0	units		8.4		0.237	10	
Electrical Conductivity umhos	1250	10.0	umhos/cm		1260		0.748	10	
Duplicate (BEH0723-DUP2)									
Source: 23H1361-04 Prepared & Analyzed: 8/15/2023									
pH	7.5	1.0	units		7.5		0.266	10	
Electrical Conductivity	0.43	0.01	mmhos/cm		0.43		1.12	10	
Electrical Conductivity umhos	426	10.0	umhos/cm		431		1.12	10	
Reference (BEH0723-SRM1)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	523		umhos/cm		538.0	97.1	90-110		
Reference (BEH0723-SRM2)									
Prepared & Analyzed: 8/15/2023									
pH	5.8		units		5.820	99.8	28178-101.7		
Reference (BEH0723-SRM3)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	939		umhos/cm		1000	93.9	90-110		
Electrical Conductivity umhos	939		umhos/cm		1000	93.9	90-110		
Reference (BEH0723-SRM4)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	941		umhos/cm		1000	94.1	90-110		
Electrical Conductivity umhos	941		umhos/cm		1000	94.1	90-110		
Reference (BEH0723-SRM5)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	950		umhos/cm		1000	95.0	90-110		

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Reported: 08/18/2023 11:12

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0723 (Continued)									
Reference (BEH0723-SRM5)									
Electrical Conductivity umhos	950		umhos/cm	1000	95.0	90-110			
Reference (BEH0723-SRM6)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEH0723-SRM7)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEH0723-SRM8)									
pH	4.0		units	4.000	100	97.5-102.5			

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0727									
Blank (BEH0727-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/15/2023				
Blank (BEH0727-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 8/15/2023 Analyzed: 8/16/2023				
Blank (BEH0727-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 8/15/2023 Analyzed: 8/16/2023				
LCS (BEH0727-BS1)									
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000		109	90-110		
LCS (BEH0727-BS2)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		103	90-110		
Duplicate (BEH0727-DUP1)									
Nitrate Nitrogen as NO3N	1.4	0.1	mg/L		Prepared: 8/15/2023 Analyzed: 8/16/2023			0.293	10
Duplicate (BEH0727-DUP2)									
Nitrate Nitrogen as NO3N	0.9	0.1	mg/L		Prepared: 8/15/2023 Analyzed: 8/16/2023			0.442	10
Matrix Spike (BEH0727-MS1)									
Nitrate Nitrogen as NO3N	6.6	0.1	mg/L	5.000	1.4	104	90-110		
Matrix Spike (BEH0727-MS2)									
Nitrate Nitrogen as NO3N	6.1	0.1	mg/L	5.000	0.9	104	90-110		
Reference (BEH0727-SRM1)									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Reference (BEH0727-SRM2)									
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00		103	90-110		

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Ranch: TF Farms

Received: 08/15/2023 14:18
Reported: 08/18/2023 11:12

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0757									
Blank (BEH0757-BLK1)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.3	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEH0757-BLK2)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.1	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEH0757-BLK3)									
Prepared & Analyzed: 8/15/2023									
pH	7.0	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Duplicate (BEH0757-DUP1)									
Source: 23H1364-01 Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	0.24	0.01	mmhos/cm		0.24			1.49	10
pH	7.8	1.0	units		7.8			0.384	10
Electrical Conductivity umhos	240	10.0	umhos/cm		244			1.49	10
Duplicate (BEH0757-DUP2)									
Source: 23H1368-03 Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	3.35	0.01	mmhos/cm		3.36			0.215	10
pH	7.6	1.0	units		7.6			0.656	10
Electrical Conductivity umhos	3350	10.0	umhos/cm		3360			0.215	10
Reference (BEH0757-SRM1)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	515		umhos/cm	538.0	95.7	90-110			
Reference (BEH0757-SRM2)									
Prepared & Analyzed: 8/15/2023									
pH	5.8		units	5.820	100	28178-101.7			
Reference (BEH0757-SRM3)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	949		umhos/cm	1000	94.9	90-110			
Electrical Conductivity umhos	949		umhos/cm	1000	94.9	90-110			
Reference (BEH0757-SRM4)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	954		umhos/cm	1000	95.4	90-110			
Electrical Conductivity umhos	954		umhos/cm	1000	95.4	90-110			
Reference (BEH0757-SRM5)									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	958		umhos/cm	1000	95.8	90-110			

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0757 (Continued)									
Reference (BEH0757-SRM5)									
Electrical Conductivity umhos	958		umhos/cm	1000	95.8	90-110			
Reference (BEH0757-SRM6)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEH0757-SRM7)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEH0757-SRM8)									
pH	4.0		units	4.000	100	97.5-102.5			

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08/15/23 14:18

23H1361

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

JL

Purchase Order No	Bill To:	19840	08
		Acct #	Cons #

No. Samples 10 No. of Bottles: 10

Results Need By _____

Name: R & J Avila Inc
 Address: 8119 Ellington Avenue
 City: Hilmar State: CA Zip: 95324
 Telephone: (209) 669-7919 Fax: (209) 634-4604
 Cell/Email: 209 678-3086 Rui / 209 678-1723 John frontdesk.randjavila@gmail.com
COPY TO:
 REQUESTED BY: Rui & John Avila
PROJECT TF Farms
 ID CROP: N/A

[X] Copy of Chain [X] QA/QC Documents

Sampled By: T. Madruga

 Water Type: Drinking Water Wastewater
 Ag Water Groundwater Monitoring Well

Other:

Analysis and Bottles Required: (Please indicate Analysis)

- (X) DWW1: EC, pH, NO₃-N (NH₄-N Field Test)
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () DCW1: EC, NO₃-N, TDS + TKN & TN
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () DPW1: EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () DPW2: DPW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () Other

Description of Samples		Date Sampled	Time Sampled	Rec'd Temp °C	Field NH ₄ -N
1	Calf Ranch	8/14/2023	1345	1.8	ND
2	Dairy #1 DW	8/14/2023	1400	2.9	ND
3	Dairy #2 DW	8/14/2023	1415	2.3	ND
4	Dairy #3 DW	8/14/2023	1430	1.9	ND
5	Dairy #4 DW	8/14/2023	1445	2.5	ND
6	Dixon 1 DW	8/14/2023	1500	1.7	ND
7	Dixon 4 DW	8/14/2023	1515	2.4	ND
8	E14-2 DW	8/14/2023	1530	2.6	ND
9	Looney 4 DW	8/14/2023	1545	1.9	ND
10	Velasco DW	8/14/2023	1600	1.5	ND

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	John Avila	R & J Avila, Inc.	8/14/2023 @ 1600	8/15/2023 @ 900
Second	JLF	Dellavalle Laboratory, Inc.	8/15/2023 @ 900	8/15/23 1:55
Third				
Fourth	MJZ	DLJ	8/15/23 14:18	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

Signature

Samples received in cooler with ice (coolant)

[] Yes [] No



08/15/23 14:18

23H1361

Shipping Information:	Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	GSO <input type="checkbox"/>	Picked-Up <input checked="" type="checkbox"/>	Walk In <input type="checkbox"/>	DLI Sampler <input type="checkbox"/>				
Ontrac <input type="checkbox"/>	PMS <input type="checkbox"/>	USPS <input type="checkbox"/>	Other <input type="checkbox"/>							
Shipping Container:	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/>	Box <input type="checkbox"/>							
Refrigerant:	Wet Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	None <input type="checkbox"/>							
Container(s) Received	1	2	3	4	5	6	7	8	9	10
Plastics:										
100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
250 mL unpreserved (White)										
250 mL HNO ₃ (Red)										
250 mL H ₂ SO ₄ (Yellow)										
500 mL unpreserved (White)										
500 mL HNO ₃ (Red)										
500 mL H ₂ SO ₄ (Yellow)										
1 L unpreserved (White)	1	1	1	1	1	1	1	1	1	1
1 L unpreserved (BOD) (Purple)										
1 L HNO ₃ (Red)										
1 L H ₂ SO ₄ (Yellow)										
VOA Vials in sets of 3:										
40 mL VOA, HCl (Blue)										
40 mL VOA, Na ₂ S ₂ O ₃ (Green)										
40 mL VOA, unpreserved (White)										
Glass:										
250 mL AG unpreserved (White)										
250 mL AG H ₂ SO ₄ (Yellow)										
250 mL AG Na ₂ S ₂ O ₃ (Green)										
250 mL AG Na ₂ S ₂ O ₃ + MCAA										
500 mL glass unpreserved (White)										
500 mL AG HCl (Blue)										
1 L AG unpreserved (White)										
1 L AG H ₂ SO ₄ (Yellow)										
1 L AG Na ₂ S ₂ O ₃ (Green)										
1 L AG HCl (Blue)										
Special:										
Cr ⁶⁺ w/Borate/HCO ₃ /CO ₃										
Cyanide - 500 mL NaOH										
Asbestos - 2 - 1L P wrapped in foil										
500 mL or 1 L AP Na ₂ S ₂ O ₃ (Green)										
1 L AG or P NaOH + ZnAc (Sulfide)										
Chlorite/Bromate 250 mL AG with EDA										
TTHM										
HAA5										
40 mL VOA, Na ₂ S ₂ O ₃ + MCAA										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025