

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: Bidart 2

Physical address of dairy:

20400 Old River Rd.

Number and Street

Bakersfield

City

Kern

County

93311

Zip Code

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

Date facility was originally placed in operation: 01/01/2004

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X295-X080-XX06-XXXX

B. OPERATORS

Bidart, John

Operator name: Bidart, John

Telephone no.: (661) 397-5400

Landline

Cellular

P.O. Box 11810

Bakersfield

CA

93311

Mailing Address Number and Street

City

State

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Bidart, John

Legal owner name: Bidart, John

Telephone no.: (661) 397-5400

Landline

Cellular

P.O. Box 11810

Bakersfield

CA

93311

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	1,290	1,330	1,295	1,325
Number under roof	7,870	810	0	0	0	0
Maximum number	8,035	825	1,345	1,350	1,325	1,355
Average number	7,870	810	1,290	1,330	1,295	1,325
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Holstein

Average milk production: 75 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 253,739.08 tons per reporting period

Total nitrogen from manure: 3,230,167.38 lbs per reporting period

After ammonia losses (30% loss applied): 2,261,117.17 lbs per reporting period

Total phosphorus from manure: 529,001.43 lbs per reporting period

Total potassium from manure: 1,533,030.56 lbs per reporting period

Total salt from manure: 3,891,849.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 236,526,594 gallons

Total nitrogen generated: 855,224.56 lbs

Total phosphorus generated: 115,193.83 lbs

Total potassium generated: 1,138,267.24 lbs

Total salt generated: 8,935,046.12 lbs

<u>236,526,594 gallons applied</u> + <u>0 gallons exported</u> - <u>0 gallons imported</u> = <u>236,526,594 gallons generated</u>
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D. FRESH WATER SOURCES

Source Description	Type
2B1	Ground water
DW1	Ground water
DW2	Ground water
DW3	Ground water
Kern Delta ID	Surface water

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Source Description	Type
W1	Ground water
W11	Ground water
W12	Ground water
W2	Ground water
W3	Ground water
W4	Ground water
W5	Ground water
W6	Ground water
W9	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

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
10N	144	144	2	both	X295-X070-XX44-XXXX
10S	145	145	2	process wastewater	X295-X070-XX44-XXXX
11b1	165	165	2	both	X295-X070-XX43-XXXX
12b1	51	51	0	none	X295-X070-XX40-XXXX
12b2	51	51	0	none	X295-X070-XX40-XXXX
12b3	210	210	2	both	X295-X070-XX41-XXXX
12b4	65	65	0	none	X295-X070-XX41-XXXX
2b1	28	28	2	process wastewater	X295-X070-XX43-XXXX
2b2	45	45	2	process wastewater	X295-X070-XX43-XXXX
2b3	69	69	2	process wastewater	X295-X070-XX43-XXXX
2b4n	125	125	2	process wastewater	X295-X070-XX43-XXXX
2b4s	125	125	2	process wastewater	X295-X070-XX43-XXXX
3a1	30	30	2	process wastewater	X295-X070-XX24-XXXX
3a2	30	30	2	process wastewater	X295-X070-XX24-XXXX
3b1	67	67	2	process wastewater	X295-X070-XX24-XXXX
3b2	45	45	2	process wastewater	X295-X070-XX24-XXXX
3b3	47	47	2	process wastewater	X295-X070-XX24-XXXX
3c	66	66	2	process wastewater	X295-X070-XX24-XXXX
4E	135	135	2	manure	X295-X080-XX50-XXXX
4W	135	135	2	manure	X295-X080-XX50-XXXX
9	282	282	2	manure	X295-X080-XX51-XXXX
b61	129	129	1	none	X445-X020-XX52-XXXX
b62	123	123	1	none	X445-X020-XX52-XXXX
b63	151	151	1	both	X445-X020-XX52-XXXX
b64	140	140	1	both	X445-X020-XX52-XXXX
b73	173	173	2	both	X445-X020-XX33-XXXX
b74	143	143	2	both	X445-X020-XX34-XXXX
b75w	15	15	2	process wastewater	X445-X020-XX33-XXXX
b76w	20	20	2	process wastewater	X445-X020-XX50-XXXX
b77w	77	77	2	process wastewater	X445-X020-XX50-XXXX
b78	120	120	2	process wastewater	X445-X020-XX33-XXXX
b79	77	77	2	process wastewater	X445-X020-XX34-XXXX
b80	75	75	0	none	X445-X020-XX34-XXXX

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Totals for areas that were used for application	2,809	2,809	52		
Totals for areas that were not used for application	494	494	2		
Land application area totals	3,303	3,303	54		

B. CROPS AND HARVESTS

10N										
Field name: <u>10N</u>										
11/10/2022: Wheat, silage, soft dough										
Crop: <u>Wheat, silage, soft dough</u>								Acres planted:	<u>144</u>	Plant date: <u>11/10/2022</u>
Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)	
04/26/2023	2,620.00 ton	Dry-weight		69.6	17,800.00	4,000.00	23,400.00		9.51	
	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)					
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00					
Total actual harvest content	18.19	196.91	44.25	258.86	1,052.02					
05/25/2023: Corn, silage										
Crop: <u>Corn, silage</u>								Acres planted:	<u>144</u>	Plant date: <u>05/25/2023</u>
Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)	
09/18/2023	4,333.00 ton	Dry-weight		69.3	13,600.00	3,400.00	15,300.00		5.22	
	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	1,500.00					
Total actual harvest content	30.09	251.27	62.82	282.67	964.42					
10S										
Field name: <u>10S</u>										

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10S

11/10/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 145 Plant date: 11/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	2,625.00 ton	Dry-weight		67.1	16,300.00	3,400.00	25,900.00		8.23

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.10	194.17	40.50	308.52	980.36

05/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 145 Plant date: 05/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	4,364.00 ton	Dry-weight		68.1	12,100.00	3,300.00	14,200.00		5.25

	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	1,500.00
Total actual harvest content	30.10	232.34	63.37	272.66	1,008.08

11b1

Field name: 11b1

11/11/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 165 Plant date: 11/11/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	2,995.00 ton	Dry-weight		66.9	18,300.00	4,400.00	28,500.00		8.86

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.15	219.90	52.87	342.46	1,064.64

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11b1

05/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 165 Plant date: 05/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	4,969.00 ton	Dry-weight		70.5	14,500.00	2,700.00	14,600.00		6.22

	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	1,500.00
Total actual harvest content	30.12	257.64	47.97	259.41	1,105.17

12b3

Field name: 12b3

11/11/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 210 Plant date: 11/11/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	3,806.00 ton	Dry-weight		67.6	18,000.00	4,200.00	30,800.00		9.07

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.12	211.40	49.33	361.72	1,065.20

06/15/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 210 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/15/2023	5,281.00 ton	Dry-weight		76.8	15,600.00	3,900.00	29,400.00		12.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	180.00	35.00	342.50	1,500.00
Total actual harvest content	25.15	182.03	45.51	343.05	1,446.89

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2b1Field name: 2b1

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 28 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/30/2023	531.00 ton	Dry-weight		70.9	18,100.00	3,900.00	20,800.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.96	199.77	43.05	229.57	1,114.76

05/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 28 Plant date: 05/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	864.00 ton	Dry-weight		66.8	11,400.00	3,300.00	18,600.00		6.86

	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	1,500.00
Total actual harvest content	30.86	233.58	67.61	381.10	1,405.56

2b2Field name: 2b2

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 45 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/30/2023	829.00 ton	Dry-weight		70.7	17,000.00	2,700.00	15,900.00		8.72

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.42	183.52	29.15	171.65	941.36

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2b2

05/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 45 Plant date: 05/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,368.00 <i>ton</i>	Dry-weight		70.4	14,200.00	1,800.00	13,900.00		10.20

	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	1,500.00
Total actual harvest content	30.40	255.55	32.39	250.16	1,835.67

2b3

Field name: 2b3

11/11/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 69 Plant date: 11/11/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/30/2023	1,266.00 <i>ton</i>	Dry-weight		70.5	17,700.00	3,700.00	16,700.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.35	191.61	40.05	180.78	1,104.17

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 69 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	2,091.00 <i>ton</i>	Dry-weight		68.0	13,200.00	2,400.00	12,500.00		5.71

	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	1,500.00
Total actual harvest content	30.30	256.01	46.55	242.43	1,107.44

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2b4nField name: 2b4n

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 125 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	2,269.00 ton	Dry-weight		71.6	18,600.00	4,200.00	22,000.00		8.53

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.15	191.77	43.30	226.83	879.47

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 125 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	3,769.00 ton	Dry-weight		66.4	11,300.00	2,900.00	11,700.00		4.91

	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	1,500.00
Total actual harvest content	30.15	228.96	58.76	237.07	994.87

2b4sField name: 2b4s

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 125 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/20/2023	2,269.00 ton	Dry-weight		71.5	19,700.00	4,600.00	27,600.00		9.25

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.15	203.83	47.59	285.57	957.06

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2b4s

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 125 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	3,764.00 <i>ton</i>	Dry-weight		67.5	13,000.00	2,800.00	11,800.00		5.32

	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	1,500.00
Total actual harvest content	30.11	254.45	54.80	230.96	1,041.27

3a1

Field name: 3a1

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 30 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	563.00 <i>ton</i>	Dry-weight		64.5	16,600.00	3,600.00	33,900.00		9.93

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.77	221.18	47.97	451.69	1,323.11

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	916.00 <i>ton</i>	Dry-weight		67.0	12,900.00	2,900.00	13,200.00		5.74

	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	1,500.00
Total actual harvest content	30.53	259.96	58.44	266.01	1,156.72

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3a2Field name: 3a2

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 30 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	559.00 ton	Dry-weight		71.8	18,200.00	4,000.00	31,100.00		9.92

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.63	191.27	42.04	326.84	1,042.51

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	919.00 ton	Dry-weight		66.3	11,400.00	2,900.00	12,700.00		5.66

	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	1,500.00
Total actual harvest content	30.63	235.37	59.88	262.22	1,168.61

3b1Field name: 3b1

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 67 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	1,218.00 ton	Dry-weight		67.9	16,500.00	4,000.00	26,100.00		12.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.18	192.57	46.68	304.61	1,482.22

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3b1

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 67 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 (%)
09/16/2023	2,023.00 ton	Dry-weight		67.5	13,100.00	3,100.00	20,800.00		7.90

	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	1,500.00
Total actual harvest content	30.19	257.10	60.84	408.22	1,550.46

3b2

Field name: 3b2

11/13/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 45 Plant date: 11/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/21/2023	827.00 ton	Dry-weight		69.0	16,400.00	3,900.00	24,500.00		13.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.38	186.87	44.44	279.16	1,504.04

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 45 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 (%)
09/16/2023	1,369.00 ton	Dry-weight		65.1	12,200.00	2,600.00	11,000.00		5.01

	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	1,500.00
Total actual harvest content	30.42	259.06	55.21	233.58	1,063.86

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3b3

Field name: 3b3

11/13/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 47 Plant date: 11/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/29/2023	869.00 ton	Dry-weight		73.1	19,200.00	4,200.00	29,600.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.49	190.99	41.78	294.44	1,104.15

06/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 47 Plant date: 06/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	1,422.00 ton	Dry-weight		65.1	10,800.00	2,600.00	9,900.00		4.40

	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	1,500.00
Total actual harvest content	30.26	228.08	54.91	209.07	929.20

3c

Field name: 3c

11/13/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 66 Plant date: 11/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	1,209.00 ton	Dry-weight		65.8	15,400.00	3,600.00	23,300.00		9.73

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.32	192.96	45.11	291.94	1,219.13

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3c

06/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 66 Plant date: 06/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/17/2023	1,991.00 <i>ton</i>	Dry-weight		65.9	11,100.00	2,700.00	10,800.00		5.19

	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	1,500.00
Total actual harvest content	30.17	228.37	55.55	222.20	1,067.77

4E

Field name: 4E

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 135 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	2,438.00 <i>ton</i>	Dry-weight		71.5	21,000.00	3,900.00	22,900.00		9.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.06	216.17	40.15	235.73	1,003.64

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 135 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	4,069.00 <i>ton</i>	Dry-weight		69.9	13,500.00	2,500.00	14,800.00		6.45

	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	1,500.00
Total actual harvest content	30.14	244.95	45.36	268.54	1,170.33

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4WField name: 4W

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 135 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	2,439.00 ton	Dry-weight		70.5	19,500.00	4,100.00	29,400.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.07	207.86	43.70	313.38	1,151.21

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 135 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	4,069.00 ton	Dry-weight		70.5	12,900.00	2,600.00	17,100.00		7.06

	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	1,500.00
Total actual harvest content	30.14	229.40	46.24	304.09	1,255.48

9Field name: 9

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 282 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	5,084.00 ton	Dry-weight		70.5	17,000.00	3,900.00	27,300.00		8.57

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.03	180.82	41.48	290.38	911.57

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9

06/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 282 Plant date: 06/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/17/2023	8,475.00 <i>ton</i>	Dry-weight		64.7	11,400.00	2,500.00	15,700.00		5.87

	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	1,500.00
Total actual harvest content	30.05	241.88	53.04	333.12	1,245.47

b61

Field name: b61

11/16/2018: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 129 Plant date: 11/16/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/07/2023	1,064.00 <i>ton</i>	Dry-weight		9.6	37,500.00	2,900.00	22,200.00		20.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,600.00
Total actual harvest content	8.25	559.22	43.25	331.06	3,042.15

b62

Field name: b62

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b62

11/16/2018: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 123 Plant date: 11/16/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/07/2023	1,024.00 <i>ton</i>	Dry-weight		10.0	38,000.00	2,900.00	24,400.00		12.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,600.00
Total actual harvest content	8.33	569.44	43.46	365.64	1,843.20

b63

Field name: b63

06/19/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 151 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/15/2023	3,789.00 <i>ton</i>	Dry-weight		77.1	20,400.00	4,200.00	29,700.00		14.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	180.00	35.00	342.50	1,500.00
Total actual harvest content	25.09	234.45	48.27	341.33	1,608.94

b64

Field name: b64

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b64

06/20/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 140 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/15/2023	3,513.00 ton	Dry-weight		76.6	16,900.00	4,200.00	31,400.00		13.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	180.00	35.00	342.50	1,500.00
Total actual harvest content	25.09	198.46	49.32	368.74	1,632.34

b73

Field name: b73

11/16/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 173 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/29/2023	3,133.00 ton	Dry-weight		73.2	19,200.00	4,200.00	29,000.00		10.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.11	186.37	40.77	281.50	1,038.63

06/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 173 Plant date: 06/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	5,209.00 ton	Dry-weight		72.8	14,500.00	3,000.00	16,400.00		6.03

	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	1,500.00
Total actual harvest content	30.11	237.51	49.14	268.63	987.70

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b74

Field name: b74

11/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 143 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 (%)
04/19/2023	2,591.00 ton	Dry-weight		64.9	15,700.00	3,000.00	23,000.00		8.46

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.12	199.70	38.16	292.55	1,076.07

06/05/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 143 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	3,599.00 ton	Dry-weight		70.6	13,300.00	2,700.00	19,400.00		11.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	180.00	35.00	342.50	1,500.00
Total actual harvest content	25.17	196.82	39.96	287.09	1,716.65

b75w

Field name: b75w

11/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 15 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 (%)
04/22/2023	294.00 ton	Dry-weight		72.3	20,400.00	3,700.00	24,000.00		9.84

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	19.60	221.51	40.18	260.60	1,068.47

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b75w

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 15 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	466.00 <i>ton</i>	Dry-weight		65.5	11,400.00	3,000.00	14,400.00		6.10

	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	1,500.00
Total actual harvest content	31.07	244.37	64.31	308.68	1,307.60

b76w

Field name: b76w

11/16/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 20 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	381.00 <i>ton</i>	Dry-weight		62.7	15,100.00	3,200.00	23,100.00		8.67

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	19.05	214.59	45.48	328.28	1,232.12

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 20 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	616.00 <i>ton</i>	Dry-weight		66.5	11,200.00	2,800.00	17,000.00		6.53

	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	1,500.00
Total actual harvest content	30.80	231.12	57.78	350.81	1,347.53

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b77wField name: b77w

11/16/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/02/2023	1,408.00 ton	Dry-weight		69.0	17,600.00	1,900.00	9,500.00		8.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.29	199.53	21.54	107.70	969.33

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	2,319.00 ton	Dry-weight		64.9	11,700.00	3,000.00	16,900.00		6.19

	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	1,500.00
Total actual harvest content	30.12	247.36	63.43	357.30	1,308.69

b78Field name: b78

11/16/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 120 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/24/2023	2,181.00 ton	Dry-weight		65.3	18,200.00	4,000.00	22,600.00		8.72

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.18	229.56	50.45	285.06	1,099.89

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b78

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 120 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	3,628.00 ton	Dry-weight		72.8	14,500.00	3,000.00	14,600.00		6.64

	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	1,500.00
Total actual harvest content	30.23	238.48	49.34	240.13	1,092.08

b79

Field name: b79

11/16/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/29/2023	1,409.00 ton	Dry-weight		68.9	16,700.00	3,200.00	16,800.00		8.46

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.30	190.08	36.42	191.21	962.90

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	2,322.00 ton	Dry-weight		66.1	12,300.00	2,700.00	12,800.00		5.88

	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	1,500.00
Total actual harvest content	30.16	251.48	55.20	261.70	1,202.20

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

10N - 11/10/2022: Wheat, silage, soft dough

Field name: 10NCrop: Wheat, silage, soft doughPlant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
10/24/2022	Broadcast/incorporate	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	193.85	47.83	70.49	0.00	950.00 ton
Application event totals		193.85	47.83	70.49	0.00	
11/11/2022	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
W11	Ground water	0.00	0.00	0.00	961.97	18,651,224.00 gal
Application event totals		0.00	0.00	0.00	961.97	
01/24/2023	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
Lagoon	Process wastewater	19.35	3.01	22.81	272.10	948,554.00 gal
W11	Ground water	0.00	0.00	0.00	1,008.07	19,545,119.00 gal
Application event totals		19.35	3.01	22.81	1,280.18	
02/25/2023	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	Process wastewater	15.39	2.39	18.14	216.39	754,334.00 gal
W11	Ground water	0.00	0.00	0.00	951.38	18,445,991.00 gal
Application event totals		15.39	2.39	18.14	1,167.77	

10N - 05/25/2023: Corn, silage

Field name: 10NCrop: Corn, silagePlant date: 05/25/2023

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10N - 05/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	90.50	8.45	133.14	483.17	2,646,852.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	66.96	19,256,987.00 gal
Application event totals		90.50	8.45	133.14	550.13	
06/09/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	69.32	19,935,498.00 gal
Application event totals		0.00	0.00	0.00	69.32	
06/24/2023	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
Lagoon	Process wastewater	99.00	9.25	145.65	528.56	2,895,489.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	69.05	19,859,753.00 gal
Application event totals		99.00	9.25	145.65	597.62	
07/07/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	69.01	19,847,963.00 gal
Application event totals		0.00	0.00	0.00	69.01	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	93.22	19.20	132.30	1,320.59	4,188,963.00 gal
Kern Delta ID	Surface water	3.20	0.00	0.00	68.66	19,747,852.00 gal
Application event totals		96.42	19.20	132.30	1,389.26	

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10N - 05/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	69.05	19,859,842.00 gal
Application event totals		0.00	0.00	0.00	69.05	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	68.11	19,589,668.00 gal
Application event totals		0.00	0.00	0.00	68.11	
09/04/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	67.35	19,369,778.00 gal
Application event totals		0.00	0.00	0.00	67.35	

10S - 11/10/2022: Wheat, silage, soft dough

Field name: 10S

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/11/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.27	11.07	84.02	1,002.18	3,517,885.00 gal
W11	Ground water	0.00	0.00	0.00	887.40	17,324,991.00 gal
Application event totals		71.27	11.07	84.02	1,889.58	

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10S - 11/10/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.62	11.13	84.44	1,007.21	3,535,545.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	59.89	17,344,921.00 gal
Application event totals		71.62	11.13	84.44	1,067.10	
02/25/2023	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	Process wastewater	74.08	11.51	87.34	1,041.80	3,656,948.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	59.17	17,133,951.00 gal
Application event totals		74.08	11.51	87.34	1,100.96	

10S - 05/25/2023: Corn, silage

Field name: 10S

Crop: Corn, silage

Plant date: 05/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	96.50	9.01	141.97	515.20	2,841,885.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	70.98	20,554,862.00 gal
Application event totals		96.50	9.01	141.97	586.18	
06/06/2023	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)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	71.29	20,645,882.00 gal
Application event totals		0.00	0.00	0.00	71.29	

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10S - 05/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	83.33	7.78	122.60	444.90	2,454,115.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	70.74	20,485,667.00 gal
Application event totals		83.33	7.78	122.60	515.64	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	71.32	20,654,775.00 gal
Application event totals		0.00	0.00	0.00	71.32	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	93.61	8.74	137.72	499.80	2,756,943.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	71.30	20,648,951.00 gal
Application event totals		93.61	8.74	137.72	571.10	
07/28/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	67.87	19,654,258.00 gal
Application event totals		0.00	0.00	0.00	67.87	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	63.25	18,316,558.00 gal
Application event totals		0.00	0.00	0.00	63.25	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	62.71	18,159,886.00 gal
Application event totals		0.00	0.00	0.00	62.71	

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11b1 - 11/11/2022: Wheat, silage, soft dough

Field name: 11b1

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/26/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	178.08	43.94	64.76	0.00	1,000.00 ton
Application event totals		178.08	43.94	64.76	0.00	
11/12/2022	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
Kern Delta ID	Surface water	0.00	0.00	0.00	69.58	22,930,219.00 gal
Application event totals		0.00	0.00	0.00	69.58	
01/24/2023	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
Lagoon	Process wastewater	67.32	10.46	79.37	946.66	3,781,337.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	63.82	21,031,228.00 gal
Application event totals		67.32	10.46	79.37	1,010.48	
02/25/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	67.16	22,132,852.00 gal
Application event totals		0.00	0.00	0.00	67.16	

11b1 - 05/30/2023: Corn, silage

Field name: 11b1

Crop: Corn, silage

Plant date: 05/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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11b1 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	84.15	7.86	123.80	449.28	2,820,115.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	63.50	20,924,596.00 gal
Application event totals		84.15	7.86	123.80	512.78	
06/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	85.98	28,333,219.00 gal
Application event totals		0.00	0.00	0.00	85.98	
06/25/2023	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	Process wastewater	72.17	6.74	106.18	385.33	2,418,664.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	87.16	28,721,559.00 gal
Application event totals		72.17	6.74	106.18	472.48	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	79.90	26,331,228.00 gal
Application event totals		0.00	0.00	0.00	79.90	
07/22/2023	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	Process wastewater	81.94	7.65	120.54	437.46	2,745,877.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	61.17	20,157,889.00 gal
Application event totals		81.94	7.65	120.54	498.63	

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11b1 - 05/30/2023: 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
Kern Delta ID	Surface water	0.00	0.00	0.00	68.15	22,458,779.00 gal
Application event totals		0.00	0.00	0.00	68.15	
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
Lagoon	Process wastewater	71.65	14.76	101.70	1,015.09	3,689,448.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	56.11	18,489,335.00 gal
Application event totals		71.65	14.76	101.70	1,071.19	
09/02/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	61.18	20,159,753.00 gal
Application event totals		0.00	0.00	0.00	61.18	

12b3 - 11/11/2022: Wheat, silage, soft dough

Field name:	12b3	Plant date:	11/11/2022			
Crop:	Wheat, silage, soft dough					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/26/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	174.90	43.16	63.60	0.00	1,250.00 ton
Application event totals		174.90	43.16	63.60	0.00	
11/12/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	73.35	30,765,224.00 gal
Application event totals		0.00	0.00	0.00	73.35	

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12b3 - 11/11/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/24/2023	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	Process wastewater	62.29	9.68	73.44	875.96	4,453,221.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	66.91	28,061,224.00 gal
Application event totals		62.29	9.68	73.44	942.87	
02/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	48.53	20,355,459.00 gal
Application event totals		0.00	0.00	0.00	48.53	

12b3 - 06/15/2023: Sorghum-Sudangrass, forage

Field name: 12b3

Crop: Sorghum-Sudangrass, forage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/16/2023	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
Lagoon	Process wastewater	70.39	6.57	103.55	375.79	3,002,115.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	79.52	33,350,221.00 gal
Application event totals		70.39	6.57	103.55	455.31	
07/11/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.00	31,456,991.00 gal
Application event totals		0.00	0.00	0.00	75.00	

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12b3 - 06/15/2023: Sorghum-Sudangrass, forage

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
Lagoon	Process wastewater	71.64	6.69	105.39	382.47	3,055,498.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	79.06	33,159,664.00 gal
Application event totals		71.64	6.69	105.39	461.53	
09/04/2023	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	Process wastewater	89.14	8.32	131.15	475.93	3,802,115.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	67.60	28,351,224.00 gal
Application event totals		89.14	8.32	131.15	543.53	
10/04/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	71.96	30,179,334.00 gal
Application event totals		0.00	0.00	0.00	71.96	

2b1 - 11/12/2022: Wheat, silage, soft dough

Field name:	2b1	Plant date:	11/12/2022	
Crop:	Wheat, silage, soft dough			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/13/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Lagoon	Process wastewater	79.29	12.32	93.48
Kern Delta ID	Surface water	0.00	0.00	0.00
Application event totals		79.29	12.32	93.48
				1,115.05 755,825.00 gal
				62.87 3,515,664.00 gal
				1,177.92

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2b1 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/24/2023	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	Process wastewater	72.90	11.33	85.95	1,025.14	694,881.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	63.57	3,554,991.00 gal
Application event totals		72.90	11.33	85.95	1,088.71	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	68.76	10.69	81.07	966.97	655,449.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	64.35	3,598,554.00 gal
Application event totals		68.76	10.69	81.07	1,031.32	

2b1 - 05/30/2023: Corn, silage

Field name: 2b1

Crop: Corn, silage

Plant date: 05/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	88.88	8.30	130.76	474.52	505,445.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	71.71	4,010,224.00 gal
Application event totals		88.88	8.30	130.76	546.23	
06/10/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	68.57	3,834,559.00 gal
Application event totals		0.00	0.00	0.00	68.57	

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2b1 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	98.41	9.19	144.78	525.42	559,664.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	63.15	3,531,225.00 gal
Application event totals		98.41	9.19	144.78	588.57	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	63.32	3,541,005.00 gal
Application event totals		0.00	0.00	0.00	63.32	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	80.79	16.64	114.66	1,144.46	705,882.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	68.69	3,841,221.00 gal
Application event totals		80.79	16.64	114.66	1,213.15	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	66.62	3,725,449.00 gal
Application event totals		0.00	0.00	0.00	66.62	
08/11/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	57.61	3,221,554.00 gal
Application event totals		0.00	0.00	0.00	57.61	
08/27/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	54.70	3,058,996.00 gal
Application event totals		0.00	0.00	0.00	54.70	

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

2b2 - 11/12/2022: Wheat, silage, soft dough

Field name: 2b2

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	81.70	12.70	96.32	1,148.87	1,251,559.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	56.23	5,053,221.00 gal
Application event totals		81.70	12.70	96.32	1,205.09	
01/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	73.10	11.36	86.18	1,027.97	1,119,852.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	61.75	5,549,882.00 gal
Application event totals		73.10	11.36	86.18	1,089.72	
02/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	64.63	10.04	76.20	908.88	990,119.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	67.30	6,048,221.00 gal
Application event totals		64.63	10.04	76.20	976.18	

2b2 - 05/30/2023: Corn, silage

Field name: 2b2

Crop: Corn, silage

Plant date: 05/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	89.88	8.39	132.23	479.85	821,449.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	67.23	6,042,331.00 gal
Application event totals		89.88	8.39	132.23	547.08	

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2b2 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	68.43	6,150,119.00 gal
Application event totals		0.00	0.00	0.00	68.43	
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
Lagoon	Process wastewater	82.44	7.70	121.28	440.13	753,449.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	72.70	6,533,540.00 gal
Application event totals		82.44	7.70	121.28	512.82	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	82.66	7.72	121.61	441.32	755,495.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	72.89	6,551,229.00 gal
Application event totals		82.66	7.72	121.61	514.22	
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	Process wastewater	46.81	9.64	66.43	663.13	657,334.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	68.31	6,138,990.00 gal
Application event totals		46.81	9.64	66.43	731.44	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	72.88	6,549,654.00 gal
Application event totals		0.00	0.00	0.00	72.88	

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2b2 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/20/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	69.50	6,245,879.00 gal
Application event totals		0.00	0.00	0.00	69.50	
09/05/2023	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
Lagoon	Process wastewater	23.38	4.82	33.19	331.25	328,357.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	71.71	6,444,597.00 gal
Application event totals		23.38	4.82	33.19	402.96	

2b3 - 11/11/2022: Wheat, silage, soft dough

Field name: 2b3

Crop: Wheat, silage, soft dough Plant date: 11/11/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/12/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.49	11.73	89.00	1,061.58	1,773,245.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	74.22	10,228,551.00 gal
Application event totals		75.49	11.73	89.00	1,135.80	
01/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	79.66	12.38	93.92	1,120.24	1,871,239.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	62.06	8,552,336.00 gal
Application event totals		79.66	12.38	93.92	1,182.30	

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2b3 - 11/11/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
02/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	66.40	10.32	78.28	933.71
Kern Delta ID	Surface water	0.00	0.00	0.00	61.82
Application event totals		66.40	10.32	78.28	995.54

2b3 - 06/01/2023: Corn, silage

Field name: 2b3

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	83.72	7.82	123.16	446.96
Kern Delta ID	Surface water	0.00	0.00	0.00	58.27
Application event totals		83.72	7.82	123.16	505.23
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)
Kern Delta ID	Surface water	0.00	0.00	0.00	66.02
Application event totals		0.00	0.00	0.00	66.02
06/27/2023	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)
Lagoon	Process wastewater	85.93	8.02	126.42	458.77
Kern Delta ID	Surface water	0.00	0.00	0.00	65.45
Application event totals		85.93	8.02	126.42	524.22

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2b3 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Lagoon	Process wastewater	69.40	6.48	102.10	370.51	972,558.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	65.42	9,015,446.00 gal
Application event totals		69.40	6.48	102.10	435.93	
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
Lagoon	Process wastewater	62.40	5.83	91.81	333.18	874,559.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	72.68	10,015,664.00 gal
Application event totals		62.40	5.83	91.81	405.86	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	58.27	8,029,991.00 gal
Application event totals		0.00	0.00	0.00	58.27	
08/23/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	58.94	8,122,159.00 gal
Application event totals		0.00	0.00	0.00	58.94	
09/05/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	69.57	9,587,448.00 gal
Application event totals		0.00	0.00	0.00	69.57	

2b4n - 11/12/2022: Wheat, silage, soft dough

Field name: 2b4n

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

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2b4n - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	60.89	9.46	71.78	856.23	2,591,005.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	54.90	13,705,449.00 gal
Application event totals		60.89	9.46	71.78	911.13	
01/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	67.97	10.56	80.14	955.84	2,892,449.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	66.90	16,702,195.00 gal
Application event totals		67.97	10.56	80.14	1,022.75	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.62	12.22	92.70	1,105.66	3,345,811.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	69.71	17,401,943.00 gal
Application event totals		78.62	12.22	92.70	1,175.37	

2b4n - 06/01/2023: Corn, silage

Field name: 2b4n

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.48	7.33	115.46	419.02	1,992,559.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	70.90	17,701,224.00 gal
Application event totals		78.48	7.33	115.46	489.93	

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2b4n - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	70.90	17,699,543.00 gal
Application event totals		0.00	0.00	0.00	70.90	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.83	7.36	115.97	420.85	2,001,229.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	68.88	17,195,831.00 gal
Application event totals		78.83	7.36	115.97	489.73	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.61	7.34	115.64	419.68	1,995,669.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	66.70	16,652,664.00 gal
Application event totals		78.61	7.34	115.64	486.38	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	69.03	17,232,449.00 gal
Application event totals		0.00	0.00	0.00	69.03	
08/06/2023	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
Lagoon	Process wastewater	61.58	12.69	87.41	872.45	2,402,285.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	70.46	17,589,240.00 gal
Application event totals		61.58	12.69	87.41	942.90	

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2b4n - 06/01/2023: 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	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	68.80	17,175,809.00 gal
Application event totals		0.00	0.00	0.00	68.80	
09/06/2023	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)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	69.13	17,258,996.00 gal
Application event totals		0.00	0.00	0.00	69.13	

2b4s - 11/12/2022: Wheat, silage, soft dough

Field name: 2b4s

Crop: Wheat, silage, soft dough Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.58	12.06	91.46	1,090.93	3,301,225.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	58.90	14,705,645.00 gal
Application event totals		77.58	12.06	91.46	1,149.83	
01/24/2023	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
Lagoon	Process wastewater	74.60	11.59	87.95	1,049.07	3,174,559.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	58.88	14,699,568.00 gal
Application event totals		74.60	11.59	87.95	1,107.95	

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2b4s - 11/12/2022: Wheat, silage, soft dough

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)
Lagoon	Process wastewater	75.24	11.69	88.70	1,057.99
Kern Delta ID	Surface water	0.00	0.00	0.00	70.12
Application event totals		75.24	11.69	88.70	1,128.11

2b4s - 06/01/2023: Corn, silage

Field name: 2b4s

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	90.42	8.44	133.03	482.76
Kern Delta ID	Surface water	0.00	0.00	0.00	67.11
Application event totals		90.42	8.44	133.03	549.88
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)
Kern Delta ID	Surface water	0.00	0.00	0.00	66.35
Application event totals		0.00	0.00	0.00	66.35
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)
Lagoon	Process wastewater	103.72	9.57	150.79	547.21
Kern Delta ID	Surface water	0.00	0.00	0.00	65.70
Application event totals		103.72	9.57	150.79	612.91

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2b4s - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	95.55	8.92	140.58	510.16	2,425,951.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	62.31	15,555,468.00 gal
Application event totals		95.55	8.92	140.58	572.47	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	61.32	15,308,991.00 gal
Application event totals		0.00	0.00	0.00	61.32	
08/05/2023	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	Process wastewater	32.27	6.65	45.81	457.22	1,258,946.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	61.12	15,259,880.00 gal
Application event totals		32.27	6.65	45.81	518.34	
08/20/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	66.03	16,483,276.00 gal
Application event totals		0.00	0.00	0.00	66.03	
09/04/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	62.75	15,665,487.00 gal
Application event totals		0.00	0.00	0.00	62.75	

3a1 - 11/12/2022: Wheat, silage, soft dough

Field name: 3a1

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

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3a1 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	85.43	13.28	100.72	1,201.31	872,459.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	51.22	3,068,721.00 gal
Application event totals		85.43	13.28	100.72	1,252.53	
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	87.98	13.67	103.72	1,237.19	898,514.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	51.01	3,056,334.00 gal
Application event totals		87.98	13.67	103.72	1,288.20	
02/19/2023	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	Process wastewater	78.74	12.24	92.84	1,107.32	804,195.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	51.34	3,075,824.00 gal
Application event totals		78.74	12.24	92.84	1,158.65	

3a1 - 06/01/2023: Corn, silage

Field name: 3a1

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	82.26	7.68	121.03	439.21	501,254.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	64.92	3,889,654.00 gal
Application event totals		82.26	7.68	121.03	504.13	

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3a1 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	78.04	4,675,648.00 gal
Application event totals		0.00	0.00	0.00	78.04	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	90.68	8.47	133.41	484.16	552,554.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	63.00	3,774,655.00 gal
Application event totals		90.68	8.47	133.41	547.16	
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
Lagoon	Process wastewater	90.59	8.46	133.27	483.63	551,951.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	73.25	4,388,582.00 gal
Application event totals		90.59	8.46	133.27	556.88	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	73.12	15.06	103.78	1,035.88	684,552.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	67.90	4,068,524.00 gal
Application event totals		73.12	15.06	103.78	1,103.79	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	69.86	4,185,498.00 gal
Application event totals		0.00	0.00	0.00	69.86	

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3a1 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	66.19	3,965,821.00 gal
Application event totals		0.00	0.00	0.00	66.19	
09/04/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	72.75	4,358,991.00 gal
Application event totals		0.00	0.00	0.00	72.75	

3a2 - 11/12/2022: Wheat, silage, soft dough

Field name: 3a2

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	76.95	11.96	90.73	1,082.17	785,931.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	61.85	3,705,648.00 gal
Application event totals		76.95	11.96	90.73	1,144.02	
01/18/2023	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	Process wastewater	73.89	11.48	87.11	1,039.02	754,597.00 gal
W11	Ground water	0.00	0.00	0.00	911.71	3,682,654.00 gal
Application event totals		73.89	11.48	87.11	1,950.73	

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3a2 - 11/12/2022: Wheat, silage, soft dough

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)
Lagoon	Process wastewater	64.32	9.99	75.83	904.44
W11	Ground water	0.00	0.00	0.00	867.86
Application event totals		64.32	9.99	75.83	1,772.30

3a2 - 06/01/2023: Corn, silage

Field name: 3a2

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	86.10	8.04	126.66	459.67
Kern Delta ID	Surface water	0.00	0.00	0.00	59.36
Application event totals		86.10	8.04	126.66	519.02
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)
Kern Delta ID	Surface water	0.00	0.00	0.00	59.51
Application event totals		0.00	0.00	0.00	59.51
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)
Lagoon	Process wastewater	74.82	6.99	110.07	399.46
Kern Delta ID	Surface water	0.00	0.00	0.00	69.69
Application event totals		74.82	6.99	110.07	469.15

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3a2 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	64.55	3,867,843.00 gal
Application event totals		0.00	0.00	0.00	64.55	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	70.03	14.43	99.40	992.14	655,645.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	64.57	3,868,714.00 gal
Application event totals		70.03	14.43	99.40	1,056.71	
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
Lagoon	Process wastewater	69.00	14.21	97.93	977.47	645,948.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	59.68	3,575,648.00 gal
Application event totals		69.00	14.21	97.93	1,037.14	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	59.75	3,579,698.00 gal
Application event totals		0.00	0.00	0.00	59.75	
09/03/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	59.72	3,578,449.00 gal
Application event totals		0.00	0.00	0.00	59.72	

3b1 - 11/12/2022: Wheat, silage, soft dough

Field name: 3b1

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

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3b1 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	80.93	12.58	95.42	1,138.12	1,845,991.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	67.17	8,987,915.00 gal
Application event totals		80.93	12.58	95.42	1,205.28	
01/24/2023	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
Lagoon	Process wastewater	69.09	10.74	81.46	971.62	1,575,946.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	67.77	9,068,557.00 gal
Application event totals		69.09	10.74	81.46	1,039.39	
02/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	63.73	9.90	75.13	896.16	1,453,554.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	63.68	8,521,558.00 gal
Application event totals		63.73	9.90	75.13	959.85	

3b1 - 06/02/2023: Corn, silage

Field name: 3b1

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	65.58	6.12	96.48	350.14	892,449.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	83.14	11,124,934.00 gal
Application event totals		65.58	6.12	96.48	433.28	

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3b1 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	68.77	6.42	101.18	367.17	935,841.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	68.98	9,230,492.00 gal
Application event totals		68.77	6.42	101.18	436.15	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.36	7.04	110.87	402.34	1,025,493.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	71.66	9,589,617.00 gal
Application event totals		75.36	7.04	110.87	474.01	
07/16/2023	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
Lagoon	Process wastewater	53.38	10.99	75.75	756.16	1,115,994.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	78.59	10,515,735.00 gal
Application event totals		53.38	10.99	75.75	834.74	
07/28/2023	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
Lagoon	Process wastewater	59.19	12.19	84.01	838.53	1,237,559.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	71.16	9,522,735.00 gal
Application event totals		59.19	12.19	84.01	909.69	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	71.15	9,520,493.00 gal
Application event totals		0.00	0.00	0.00	71.15	

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3b1 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/27/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	71.23	9,531,559.00 gal
Application event totals		0.00	0.00	0.00	71.23	

3b2 - 11/13/2022: Wheat, silage, soft dough

Field name: 3b2

Crop: Wheat, silage, soft dough Plant date: 11/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/14/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	79.74	12.39	94.01	1,121.36	1,221,587.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	56.23	5,053,667.00 gal
Application event totals		79.74	12.39	94.01	1,177.59	
01/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.58	11.75	89.11	1,062.88	1,157,884.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	55.97	5,029,825.00 gal
Application event totals		75.58	11.75	89.11	1,118.84	
02/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.99	11.19	84.88	1,012.39	1,102,885.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	67.32	6,050,159.00 gal
Application event totals		71.99	11.19	84.88	1,079.71	

3b2 - 06/02/2023: Corn, silage

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3b2 - 06/02/2023: Corn, silage

Field name: 3b2

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.09	7.20	113.41	411.57	704,559.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	69.56	6,251,228.00 gal
Application event totals		77.09	7.20	113.41	481.12	
06/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	66.19	5,949,175.00 gal
Application event totals		0.00	0.00	0.00	66.19	
06/27/2023	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
Lagoon	Process wastewater	71.01	6.63	104.47	379.11	648,996.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	66.14	5,944,581.00 gal
Application event totals		71.01	6.63	104.47	445.25	
07/10/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	66.23	5,952,685.00 gal
Application event totals		0.00	0.00	0.00	66.23	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	70.89	14.60	100.61	1,004.26	995,485.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	68.15	6,124,951.00 gal
Application event totals		70.89	14.60	100.61	1,072.41	

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3b2 - 06/02/2023: 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)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	67.38	6,055,784.00 gal
Application event totals		0.00	0.00	0.00	67.38	
08/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	70.13	14.45	99.53	993.51	984,825.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	66.08	5,938,914.00 gal
Application event totals		70.13	14.45	99.53	1,059.59	
09/07/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	66.62	5,987,448.00 gal
Application event totals		0.00	0.00	0.00	66.62	

3b3 - 11/13/2022: Wheat, silage, soft dough

Field name: 3b3

Crop: Wheat, silage, soft dough

Plant date: 11/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/14/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	70.09	10.89	82.64	985.71	1,121,542.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	54.18	5,085,449.00 gal
Application event totals		70.09	10.89	82.64	1,039.89	

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3b3 - 11/13/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	81.91	12.73	96.57	1,151.83	1,310,559.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	53.98	5,066,582.00 gal
Application event totals		81.91	12.73	96.57	1,205.81	
02/21/2023	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
Lagoon	Process wastewater	67.89	10.55	80.05	954.77	1,086,338.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	55.30	5,191,224.00 gal
Application event totals		67.89	10.55	80.05	1,010.07	

3b3 - 06/03/2023: Corn, silage

Field name: 3b3

Crop: Corn, silage

Plant date: 06/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	80.82	7.55	118.91	431.52	771,548.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	59.49	5,584,559.00 gal
Application event totals		80.82	7.55	118.91	491.01	
06/15/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	66.92	6,281,229.00 gal
Application event totals		0.00	0.00	0.00	66.92	

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3b3 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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	Process wastewater	79.16	7.39	116.46	422.65	755,684.00 gal
W11	Ground water	0.00	0.00	0.00	433.77	7,185,492.00 gal
Application event totals		79.16	7.39	116.46	856.42	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	69.95	6,565,825.00 gal
Application event totals		0.00	0.00	0.00	69.95	
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
Lagoon	Process wastewater	84.42	7.88	124.20	450.71	805,864.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	70.09	6,579,558.00 gal
Application event totals		84.42	7.88	124.20	520.81	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	70.17	6,586,554.00 gal
Application event totals		0.00	0.00	0.00	70.17	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	51.60	10.63	73.24	731.04	756,852.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	70.10	6,580,465.00 gal
Application event totals		51.60	10.63	73.24	801.14	

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3b3 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/05/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	54.61	5,126,335.00 gal
Application event totals		0.00	0.00	0.00	54.61	

3c - 11/13/2022: Wheat, silage, soft dough

Field name: 3c

Crop: Wheat, silage, soft dough Plant date: 11/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/14/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	86.84	13.50	102.39	1,221.22	1,951,227.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	56.38	7,431,449.00 gal
Application event totals		86.84	13.50	102.39	1,277.60	
01/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	73.45	11.41	86.59	1,032.84	1,650,228.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	60.39	7,959,884.00 gal
Application event totals		73.45	11.41	86.59	1,093.22	
02/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.15	12.14	92.14	1,098.96	1,755,880.00 gal
W11	Ground water	0.00	0.00	0.00	798.66	7,097,229.00 gal
Application event totals		78.15	12.14	92.14	1,897.62	

3c - 06/04/2023: Corn, silage

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3c - 06/04/2023: Corn, silage

Field name: 3c

Crop: Corn, silage

Plant date: 06/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	86.20	8.05	126.82	460.24	1,155,546.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	73.17	9,644,489.00 gal
Application event totals		86.20	8.05	126.82	533.40	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	73.01	9,623,456.00 gal
Application event totals		0.00	0.00	0.00	73.01	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.80	7.36	115.93	420.72	1,056,331.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	70.04	9,232,456.00 gal
Application event totals		78.80	7.36	115.93	490.76	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	72.26	9,524,896.00 gal
Application event totals		0.00	0.00	0.00	72.26	
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
Lagoon	Process wastewater	99.35	20.47	141.01	1,407.53	2,046,331.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	72.23	9,521,665.00 gal
Application event totals		99.35	20.47	141.01	1,479.76	

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3c - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	70.90	9,345,321.00 gal
Application event totals		0.00	0.00	0.00	70.90	
09/03/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	70.75	9,325,446.00 gal
Application event totals		0.00	0.00	0.00	70.75	

4E - 11/12/2022: Wheat, silage, soft dough

Field name: 4E

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/24/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	217.65	53.71	79.15	0.00	1,000.00 ton
Application event totals		217.65	53.71	79.15	0.00	
11/13/2022	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
Kern Delta ID	Surface water	0.00	0.00	0.00	51.42	13,864,889.00 gal
Application event totals		0.00	0.00	0.00	51.42	
01/19/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	55.10	14,856,221.00 gal
Application event totals		0.00	0.00	0.00	55.10	

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4E - 11/12/2022: Wheat, silage, soft dough

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
Kern Delta ID	Surface water	0.00	0.00	0.00	49.18	13,259,834.00 gal
Application event totals		0.00	0.00	0.00	49.18	

4E - 06/01/2023: Corn, silage

Field name: 4E

Crop: Corn, silage

Plant date: 06/01/2023

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
Manure	Corral solids	246.96	73.77	362.43	0.00	850.00 ton
Application event totals		246.96	73.77	362.43	0.00	
05/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,995.00 gal
Application event totals		0.00	0.00	0.00	75.87	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	

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4E - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
08/06/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
09/04/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	

4W - 11/14/2022: Wheat, silage, soft dough

Field name: 4W

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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4W - 11/14/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/24/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	206.77	51.02	75.19	0.00	950.00 ton
Application event totals		206.77	51.02	75.19	0.00	
11/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	58.46	15,761,548.00 gal
Application event totals		0.00	0.00	0.00	58.46	
01/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	57.72	15,562,147.00 gal
Application event totals		0.00	0.00	0.00	57.72	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	59.21	15,963,805.00 gal
Application event totals		0.00	0.00	0.00	59.21	

4W - 06/01/2023: Corn, silage

Field name: 4W

Crop: Corn, silage

Plant date: 06/01/2023

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
Manure	Corral solids	228.54	56.39	83.10	0.00	1,050.00 ton
Application event totals		228.54	56.39	83.10	0.00	

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4W - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
08/06/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	

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4W - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/20/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	
09/05/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	75.87	20,456,992.00 gal
Application event totals		0.00	0.00	0.00	75.87	

9 - 11/14/2022: Wheat, silage, soft dough

Field name: 9

Crop: Wheat, silage, soft dough Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/24/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	182.34	44.99	66.31	0.00	1,750.00 ton
Application event totals		182.34	44.99	66.31	0.00	
11/15/2022	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
Kern Delta ID	Surface water	0.00	0.00	0.00	71.47	40,250,000.00 gal
Application event totals		0.00	0.00	0.00	71.47	
01/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	71.47	40,250,000.00 gal
Application event totals		0.00	0.00	0.00	71.47	

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9 - 11/14/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	71.47	40,250,000.00 gal
Application event totals		0.00	0.00	0.00	71.47	

9 - 06/04/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 06/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	239.93	71.67	352.11	0.00	1,725.00 ton
Application event totals		239.93	71.67	352.11	0.00	
05/25/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	75.82	42,705,498.00 gal
Application event totals		0.00	0.00	0.00	75.82	
06/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	77.50	43,649,772.00 gal
Application event totals		0.00	0.00	0.00	77.50	
06/25/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	79.88	44,987,548.00 gal
Application event totals		0.00	0.00	0.00	79.88	

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9 - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/07/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W11	Ground water	0.00	0.00	0.00	1,164.67	44,221,559.00 gal
Application event totals		0.00	0.00	0.00	1,164.67	
07/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	79.15	44,578,951.00 gal
Application event totals		0.00	0.00	0.00	79.15	
07/25/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	79.08	44,541,228.00 gal
Application event totals		0.00	0.00	0.00	79.08	
08/05/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	79.83	44,963,114.00 gal
Application event totals		0.00	0.00	0.00	79.83	

b61 - 11/16/2018: Alfalfa, hay

Field name: b61

Crop: Alfalfa, hay

Plant date: 11/16/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/05/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	79.83	20,566,695.00 gal
Application event totals		0.00	0.00	0.00	79.83	

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b61 - 11/16/2018: Alfalfa, hay

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
Kern Delta ID	Surface water	0.00	0.00	0.00	79.85	20,571,297.00 gal
Application event totals		0.00	0.00	0.00	79.85	
05/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	79.86	20,574,597.00 gal
Application event totals		0.00	0.00	0.00	79.86	
06/08/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	79.84	20,569,852.00 gal
Application event totals		0.00	0.00	0.00	79.84	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	79.80	20,559,820.00 gal
Application event totals		0.00	0.00	0.00	79.80	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	79.85	20,571,397.00 gal
Application event totals		0.00	0.00	0.00	79.85	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	79.86	20,574,597.00 gal
Application event totals		0.00	0.00	0.00	79.86	

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b61 - 11/16/2018: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/12/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	79.81	20,562,587.00 gal
Application event totals		0.00	0.00	0.00	79.81	

b62 - 11/16/2018: Alfalfa, hay

Field name: b62

Crop: Alfalfa, hay

Plant date: 11/16/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/05/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	83.61	20,539,886.00 gal
Application event totals		0.00	0.00	0.00	83.61	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	83.61	20,540,159.00 gal
Application event totals		0.00	0.00	0.00	83.61	
05/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	83.61	20,538,449.00 gal
Application event totals		0.00	0.00	0.00	83.61	
06/08/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	83.61	20,538,991.00 gal
Application event totals		0.00	0.00	0.00	83.61	

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b62 - 11/16/2018: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	83.62	20,541,354.00 gal
Application event totals		0.00	0.00	0.00	83.62	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	83.62	20,542,667.00 gal
Application event totals		0.00	0.00	0.00	83.62	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	83.61	20,538,701.00 gal
Application event totals		0.00	0.00	0.00	83.61	
10/12/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	83.63	20,543,680.00 gal
Application event totals		0.00	0.00	0.00	83.63	

b63 - 06/19/2023: Sorghum-Sudangrass, forage

Field name: b63

Crop: Sorghum-Sudangrass, forage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	81.29	24,515,449.00 gal
Application event totals		0.00	0.00	0.00	81.29	

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b63 - 06/19/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/04/2023	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
Manure	Corral solids	207.81	62.07	304.97	0.00	800.00 ton
Application event totals		207.81	62.07	304.97	0.00	
07/09/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	82.98	25,024,593.00 gal
Application event totals		0.00	0.00	0.00	82.98	
08/09/2023	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	Process wastewater	56.43	11.62	80.09	799.40	2,658,996.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	81.29	24,514,449.00 gal
Application event totals		56.43	11.62	80.09	880.69	
09/09/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	81.30	24,516,825.00 gal
Application event totals		0.00	0.00	0.00	81.30	
10/05/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	81.29	24,516,753.00 gal
Application event totals		0.00	0.00	0.00	81.29	

b64 - 06/20/2023: Sorghum-Sudangrass, forage

Field name: b64

Crop: Sorghum-Sudangrass, forage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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b64 - 06/20/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	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
Manure	Corral solids	196.12	58.58	287.81	0.00	700.00 ton
Application event totals		196.12	58.58	287.81	0.00	
06/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	80.75	22,578,541.00 gal
Application event totals		0.00	0.00	0.00	80.75	
07/10/2023	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	Process wastewater	28.76	5.92	40.82	407.42	1,256,448.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	80.74	22,575,840.00 gal
Application event totals		28.76	5.92	40.82	488.16	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	80.74	22,576,951.00 gal
Application event totals		0.00	0.00	0.00	80.74	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	80.75	22,578,159.00 gal
Application event totals		0.00	0.00	0.00	80.75	
10/05/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	80.75	22,579,645.00 gal
Application event totals		0.00	0.00	0.00	80.75	

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b73 - 11/16/2022: Wheat, silage, soft dough

Field name: b73

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/17/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	76.37	11.87	90.04	1,073.97	4,497,881.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	78.41	27,090,227.00 gal
Application event totals		76.37	11.87	90.04	1,152.38	
01/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	68.96	10.72	81.30	969.76	4,061,448.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	50.91	17,589,159.00 gal
Application event totals		68.96	10.72	81.30	1,020.67	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	51.13	7.95	60.28	719.05	3,011,449.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	45.12	15,591,224.00 gal
Application event totals		51.13	7.95	60.28	764.18	

b73 - 06/04/2023: Corn, silage

Field name: b73

Crop: Corn, silage

Plant date: 06/04/2023

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
Manure	Corral solids	215.70	53.23	78.44	0.00	1,270.00 ton
Application event totals		215.70	53.23	78.44	0.00	

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b73 - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	71.17	24,589,159.00 gal
Application event totals		0.00	0.00	0.00	71.17	
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
Lagoon	Process wastewater	44.44	4.15	65.38	237.26	1,561,448.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	71.17	24,589,654.00 gal
Application event totals		44.44	4.15	65.38	308.42	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	71.17	24,589,564.00 gal
Application event totals		0.00	0.00	0.00	71.17	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	71.17	24,590,118.00 gal
Application event totals		0.00	0.00	0.00	71.17	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	71.46	24,689,955.00 gal
Application event totals		0.00	0.00	0.00	71.46	
08/06/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	73.98	25,559,882.00 gal
Application event totals		0.00	0.00	0.00	73.98	

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b73 - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	72.55	25,068,445.00 gal
Application event totals		0.00	0.00	0.00	72.55	
09/06/2023	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)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	71.11	24,569,887.00 gal
Application event totals		0.00	0.00	0.00	71.11	

b74 - 11/15/2022: Wheat, silage, soft dough

Field name: b74

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	83.16	12.92	98.05	1,169.49	4,048,551.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	73.10	20,876,448.00 gal
Application event totals		83.16	12.92	98.05	1,242.58	
01/18/2023	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	Process wastewater	81.10	12.60	95.61	1,140.44	3,948,008.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	53.76	15,352,667.00 gal
Application event totals		81.10	12.60	95.61	1,194.20	

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b74 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
02/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	68.91	10.71	81.25	969.09
Kern Delta ID	Surface water	0.00	0.00	0.00	46.04
Application event totals		68.91	10.71	81.25	1,015.14

b74 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: b74

Crop: Sorghum-Sudangrass, forage Plant date: 06/05/2023

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)
Manure	Corral solids	154.11	38.03	56.04	0.00
Application event totals		154.11	38.03	56.04	0.00
05/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Kern Delta ID	Surface water	0.00	0.00	0.00	83.16
Application event totals		0.00	0.00	0.00	83.16
06/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Kern Delta ID	Surface water	0.00	0.00	0.00	82.82
Application event totals		0.00	0.00	0.00	82.82

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b74 - 06/05/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Lagoon	Process wastewater	68.31	14.07	96.95	967.70	3,048,258.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	82.12	23,454,753.00 gal
Application event totals		68.31	14.07	96.95	1,049.82	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	87.36	24,948,991.00 gal
Application event totals		0.00	0.00	0.00	87.36	

b75w - 11/15/2022: Wheat, silage, soft dough

Field name: b75w

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	87.36	13.58	103.00	1,228.53	446,115.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	68.78	2,060,445.00 gal
Application event totals		87.36	13.58	103.00	1,297.31	
01/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	68.78	10.69	81.09	967.23	351,228.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	55.59	1,665,448.00 gal
Application event totals		68.78	10.69	81.09	1,022.82	

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b75w - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	66.75	10.37	78.70	938.65	340,851.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	58.79	1,761,337.00 gal
Application event totals		66.75	10.37	78.70	997.45	

b75w - 06/10/2023: Corn, silage

Field name: b75w

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	84.98	7.94	125.02	453.71	258,901.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	68.80	2,061,228.00 gal
Application event totals		84.98	7.94	125.02	522.51	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	55.38	1,658,991.00 gal
Application event totals		0.00	0.00	0.00	55.38	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	82.86	7.74	121.91	442.40	252,449.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	61.95	1,855,834.00 gal
Application event totals		82.86	7.74	121.91	504.35	

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b75w - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	62.13	1,861,224.00 gal
Application event totals		0.00	0.00	0.00	62.13	
07/28/2023	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
Lagoon	Process wastewater	67.44	6.30	99.21	360.04	205,449.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	65.35	1,957,880.00 gal
Application event totals		67.44	6.30	99.21	425.39	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	65.47	1,961,228.00 gal
Application event totals		0.00	0.00	0.00	65.47	
08/28/2023	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
Lagoon	Process wastewater	65.30	13.45	92.67	925.03	305,648.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	65.43	1,960,119.00 gal
Application event totals		65.30	13.45	92.67	990.46	
09/08/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	72.10	2,159,887.00 gal
Application event totals		0.00	0.00	0.00	72.10	

b76w - 11/16/2022: Wheat, silage, soft dough

Field name: b76w

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

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b76w - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/17/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	87.90	13.66	103.64	1,236.13	598,500.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	64.00	2,556,228.00 gal
Application event totals		87.90	13.66	103.64	1,300.13	
01/19/2023	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
Lagoon	Process wastewater	82.73	12.86	97.53	1,163.33	563,248.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	51.55	2,058,991.00 gal
Application event totals		82.73	12.86	97.53	1,214.87	
02/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	80.34	12.48	94.72	1,129.79	547,009.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	51.60	2,061,247.00 gal
Application event totals		80.34	12.48	94.72	1,181.39	

b76w - 06/10/2023: Corn, silage

Field name: b76w

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	88.24	8.24	129.82	471.14	358,459.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	76.52	3,056,401.00 gal
Application event totals		88.24	8.24	129.82	547.65	

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b76w - 06/10/2023: Corn, silage

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
Kern Delta ID	Surface water	0.00	0.00	0.00	71.41	2,852,490.00 gal
Application event totals		0.00	0.00	0.00	71.41	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	96.28	8.99	141.65	514.06	391,118.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	76.48	3,054,801.00 gal
Application event totals		96.28	8.99	141.65	590.54	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	73.88	2,951,208.00 gal
Application event totals		0.00	0.00	0.00	73.88	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	84.22	17.35	119.54	1,193.18	525,669.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	73.84	2,949,663.00 gal
Application event totals		84.22	17.35	119.54	1,267.03	
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
Kern Delta ID	Surface water	0.00	0.00	0.00	71.76	2,866,542.00 gal
Application event totals		0.00	0.00	0.00	71.76	
09/05/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	72.63	2,901,256.00 gal
Application event totals		0.00	0.00	0.00	72.63	

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b77w - 11/16/2022: Wheat, silage, soft dough

Field name: b77w

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/17/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	89.31	13.88	105.30	1,255.99	2,341,228.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	68.42	10,521,448.00 gal
Application event totals		89.31	13.88	105.30	1,324.40	
01/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	87.55	13.61	103.22	1,231.19	2,295,007.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	61.91	9,520,375.00 gal
Application event totals		87.55	13.61	103.22	1,293.10	
02/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	58.79	9.14	69.31	826.70	1,541,008.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	52.80	8,119,773.00 gal
Application event totals		58.79	9.14	69.31	879.50	

b77w - 06/10/2023: Corn, silage

Field name: b77w

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	67.12	10,321,334.00 gal
Application event totals		0.00	0.00	0.00	67.12	

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b77w - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	98.54	9.20	144.96	526.08	1,541,005.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	63.22	9,722,175.00 gal
Application event totals		98.54	9.20	144.96	589.30	
07/04/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	61.26	9,420,119.00 gal
Application event totals		0.00	0.00	0.00	61.26	
07/17/2023	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
Lagoon	Process wastewater	95.76	19.73	135.91	1,356.60	2,301,008.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	59.30	9,119,554.00 gal
Application event totals		95.76	19.73	135.91	1,415.90	
07/30/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	81.42	12,520,700.00 gal
Application event totals		0.00	0.00	0.00	81.42	
08/11/2023	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
Lagoon	Process wastewater	94.01	19.37	133.43	1,331.84	2,259,004.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	72.33	11,123,540.00 gal
Application event totals		94.01	19.37	133.43	1,404.17	

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b77w - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	66.44	10,217,880.00 gal
Application event totals		0.00	0.00	0.00	66.44	
09/11/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	68.73	10,569,847.00 gal
Application event totals		0.00	0.00	0.00	68.73	

b78 - 11/16/2022: Wheat, silage, soft dough

Field name: b78

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/17/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	86.86	13.50	102.41	1,221.52	3,548,559.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	60.24	14,436,448.00 gal
Application event totals		86.86	13.50	102.41	1,281.76	
01/19/2023	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
Lagoon	Process wastewater	82.22	12.78	96.94	1,156.26	3,358,951.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	53.56	12,836,489.00 gal
Application event totals		82.22	12.78	96.94	1,209.82	

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b78 - 11/16/2022: Wheat, silage, soft dough

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
Lagoon	Process wastewater	68.85	10.70	81.17	968.15	2,812,489.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	59.42	14,241,224.00 gal
Application event totals		68.85	10.70	81.17	1,027.57	

b78 - 06/10/2023: Corn, silage

Field name: b78

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	63.84	6.04	73.15	811.31	1,912,554.00 gal
W12	Ground water	0.00	0.00	0.00	263.15	15,136,458.00 gal
Application event totals		63.84	6.04	73.15	1,074.47	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W12	Ground water	0.00	0.00	0.00	263.15	15,136,448.00 gal
Application event totals		0.00	0.00	0.00	263.15	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.10	7.10	86.05	954.38	2,249,821.00 gal
W12	Ground water	0.00	0.00	0.00	263.18	15,137,880.00 gal
Application event totals		75.10	7.10	86.05	1,217.56	

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b78 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	3.14	0.00	0.00	1,144.43	16,134,005.00 gal
Application event totals		3.14	0.00	0.00	1,144.43	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	65.08	6.16	74.58	827.12	1,949,810.00 gal
Kern Delta ID	Surface water	2.95	0.00	0.00	1,073.67	15,136,448.00 gal
Application event totals		68.03	6.16	74.58	1,900.78	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	3.14	0.00	0.00	1,144.39	16,133,458.00 gal
Application event totals		3.14	0.00	0.00	1,144.39	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.10	7.10	86.05	954.36	2,249,770.00 gal
Kern Delta ID	Surface water	3.53	0.00	0.00	1,285.97	18,129,448.00 gal
Application event totals		78.63	7.10	86.05	2,240.33	
09/08/2023	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
W12	Ground water	0.00	0.00	0.00	320.87	18,456,115.00 gal
Application event totals		0.00	0.00	0.00	320.87	

b79 - 11/16/2022: Wheat, silage, soft dough

Field name: b79

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

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

b79 - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/17/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.88	12.10	91.82	1,095.22	2,041,558.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	69.72	10,721,448.00 gal
Application event totals		77.88	12.10	91.82	1,164.94	
01/17/2023	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
Lagoon	Process wastewater	77.88	12.10	91.82	1,095.22	2,041,558.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	46.30	7,120,490.00 gal
Application event totals		77.88	12.10	91.82	1,141.52	
02/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.82	11.32	85.86	1,024.06	1,908,901.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	51.49	7,918,775.00 gal
Application event totals		72.82	11.32	85.86	1,075.55	

b79 - 06/14/2023: Corn, silage

Field name: b79

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/04/2023	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	Process wastewater	98.57	9.21	145.02	526.27	1,541,554.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	67.12	10,321,448.00 gal
Application event totals		98.57	9.21	145.02	593.38	

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b79 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/26/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	87.91	13,518,775.00 gal
Application event totals		0.00	0.00	0.00	87.91	
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
Lagoon	Process wastewater	85.85	8.02	126.30	458.33	1,342,559.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	67.72	10,414,880.00 gal
Application event totals		85.85	8.02	126.30	526.06	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kern Delta ID	Surface water	0.00	0.00	0.00	85.25	13,109,554.00 gal
Application event totals		0.00	0.00	0.00	85.25	
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	Process wastewater	51.79	10.67	73.51	733.72	1,244,501.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	85.23	13,107,800.00 gal
Application event totals		51.79	10.67	73.51	818.95	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	64.73	13.33	91.87	917.06	1,555,480.00 gal
Kern Delta ID	Surface water	0.00	0.00	0.00	79.45	12,217,554.00 gal
Application event totals		64.73	13.33	91.87	996.51	

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b79 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/05/2023	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
Kern Delta ID	Surface water	0.00	0.00	0.00	72.30	11,118,774.00 gal
Application event totals		0.00	0.00	0.00	72.30	

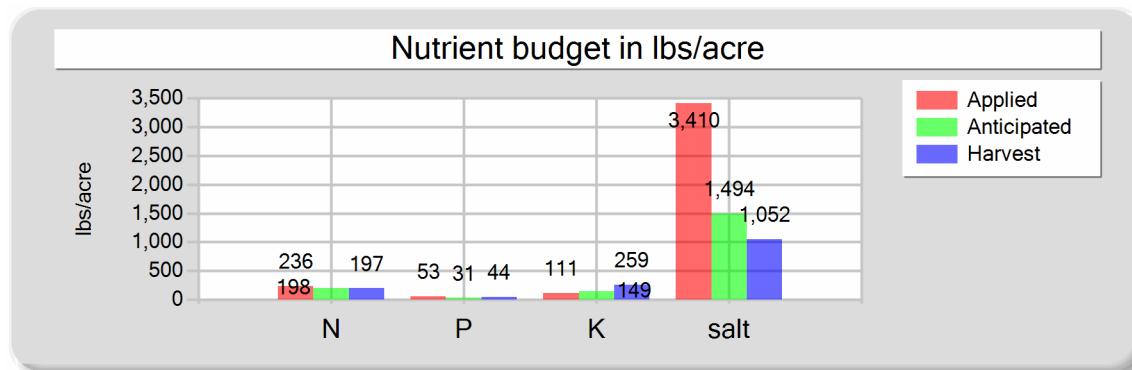
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B. NUTRIENT BUDGET

10N - 11/10/2022: Wheat, silage, soft dough

Field name: 10N Crop: Wheat, silage, soft dough Plant date: 11/10/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	193.85	47.83	70.49	0.00
Process wastewater	34.74	5.40	40.95	488.49
Fresh water	0.00	0.00	0.00	2,921.43
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	235.58	53.23	111.44	3,409.92
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	196.91	44.25	258.86	1,052.02
Nutrient balance	38.68	8.98	-147.41	2,357.90
Applied to removed ratio	1.20	1.20	0.43	3.24

Fresh water applied
56,642,334.00 gallons
2,085.94 acre-inches
14.49 inches/acre
Process wastewater applied
1,702,888.00 gallons
62.71 acre-inches
0.44 inches/acre
Total harvests for the crop
1 harvests

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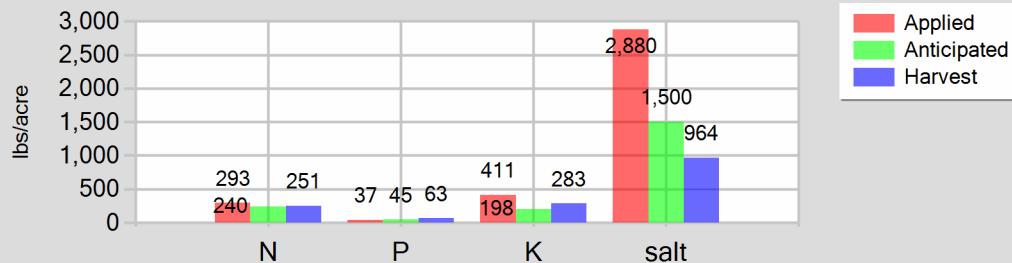
10N - 05/25/2023: Corn, silage

Field name: 10N

Crop: Corn, silage

Plant date: 05/25/2023

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	0.00	0.00	0.00	0.00
Process wastewater	282.72	36.90	411.09	2,332.33
Fresh water	3.20	0.00	0.00	547.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	292.92	36.90	411.09	2,879.86
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	251.27	62.82	282.67	964.42
Nutrient balance	41.66	-25.92	128.42	1,915.44
Applied to removed ratio	1.17	0.59	1.45	2.99

Fresh water applied

157,467,341.00 gallons
5,798.99 acre-inches
40.27 inches/acre

Process wastewater applied

9,731,304.00 gallons
358.37 acre-inches
2.49 inches/acre

Total harvests for the crop

1 harvests

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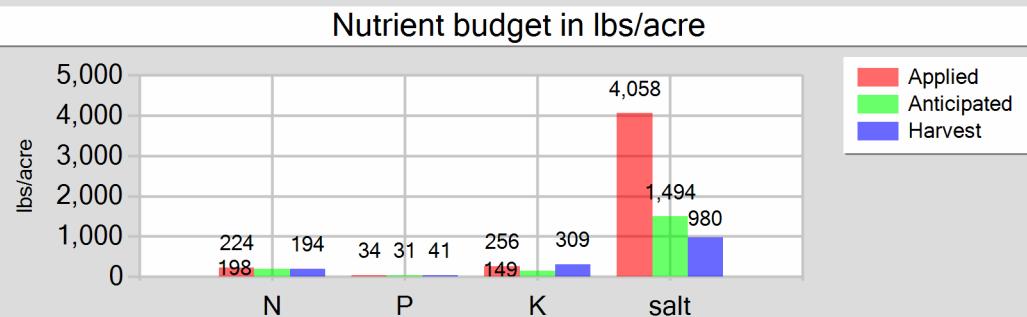
Reporting period 01/01/2023 to 12/31/2023.

10S - 11/10/2022: Wheat, silage, soft dough

Field name: 10S

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	216.97	33.72	255.81	3,051.18
Fresh water	0.00	0.00	0.00	1,006.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	223.97	33.72	255.81	4,057.65
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	194.17	40.50	308.52	980.36
Nutrient balance	29.81	-6.78	-52.72	3,077.28
Applied to removed ratio	1.15	0.83	0.83	4.14

Fresh water applied

51,803,863.00 *gallons*
1,907.76 *acre-inches*
13.16 *inches/acre*

Process wastewater applied

10,710,378.00 *gallons*
394.43 *acre-inches*
2.72 *inches/acre*

Total harvests for the crop

1 *harvests*

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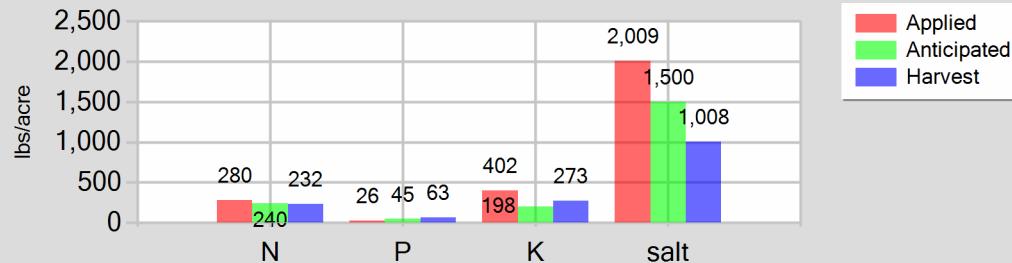
10S - 05/25/2023: Corn, silage

Field name: 10S

Crop: Corn, silage

Plant date: 05/25/2023

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	0.00	0.00	0.00	0.00
Process wastewater	273.44	25.54	402.28	1,459.90
Fresh water	0.00	0.00	0.00	549.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	280.44	25.54	402.28	2,009.36
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	232.34	63.37	272.66	1,008.08
Nutrient balance	48.10	-37.83	129.62	1,001.28
Applied to removed ratio	1.21	0.40	1.48	1.99

Fresh water applied

159,120,839.00 gallons
5,859.88 acre-inches
40.41 inches/acre

Process wastewater applied

8,052,943.00 gallons
296.56 acre-inches
2.05 inches/acre

Total harvests for the crop

1 harvests

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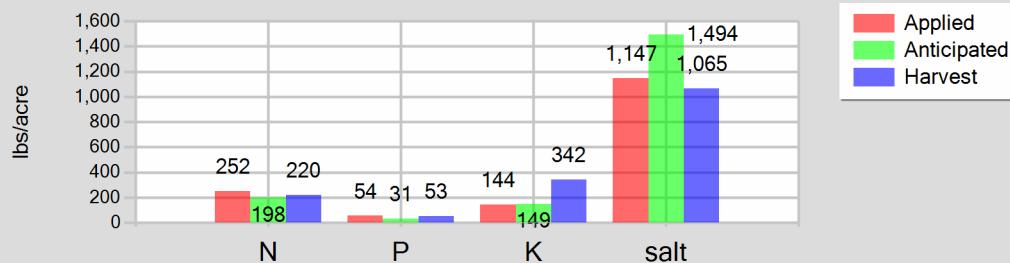
11b1 - 11/11/2022: Wheat, silage, soft dough

Field name: 11b1

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022

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	43.94	64.76	0.00
Process wastewater	67.32	10.46	79.37	946.66
Fresh water	0.00	0.00	0.00	200.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	252.40	54.40	144.12	1,147.22
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	219.90	52.87	342.46	1,064.64
Nutrient balance	32.50	1.53	-198.34	82.58
Applied to removed ratio	1.15	1.03	0.42	1.08

Fresh water applied

66,094,299.00 gallons
2,434.03 acre-inches
14.75 inches/acre

Process wastewater applied

3,781,337.00 gallons
139.25 acre-inches
0.84 inches/acre

Total harvests for the crop

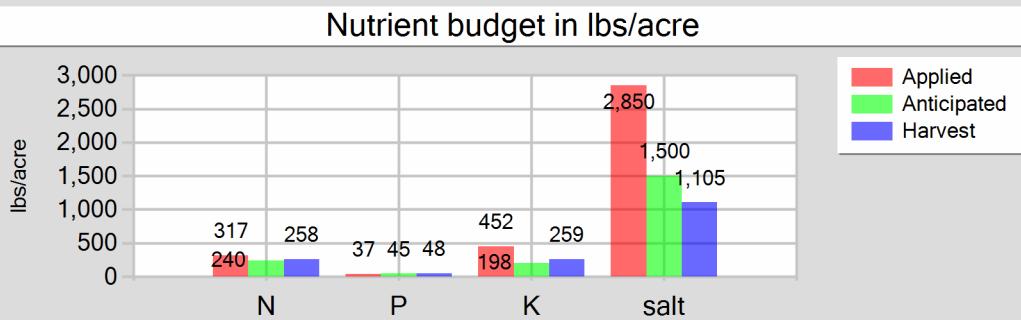
1 harvests

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11b1 - 05/30/2023: Corn, silage

Field name: 11b1 Crop: Corn, silage Plant date: 05/30/2023



	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	309.91	37.01	452.22	2,287.15
Fresh water	0.00	0.00	0.00	563.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	316.91	37.01	452.22	2,850.29
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	257.64	47.97	259.41	1,105.17
Nutrient balance	59.28	-10.96	192.81	1,745.12
Applied to removed ratio	1.23	0.77	1.74	2.58

Fresh water applied
185,576,358.00 gallons
6,834.15 acre-inches
41.42 inches/acre

Process wastewater applied
11,674,104.00 gallons
429.92 acre-inches
2.61 inches/acre

Total harvests for the crop
1 harvests

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

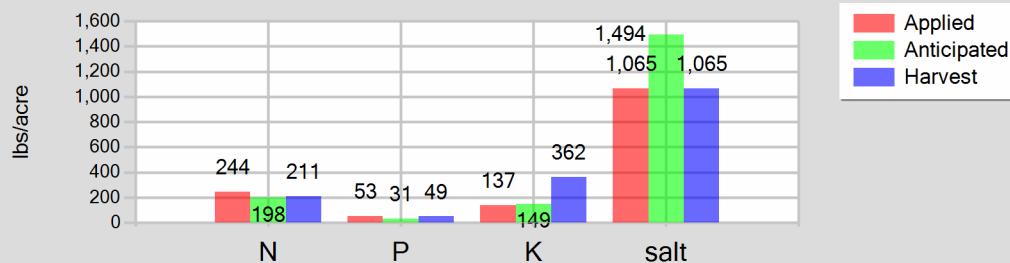
12b3 - 11/11/2022: Wheat, silage, soft dough

Field name: 12b3

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022

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	174.90	43.16	63.60	0.00
Process wastewater	62.29	9.68	73.44	875.96
Fresh water	0.00	0.00	0.00	188.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	244.19	52.84	137.04	1,064.76
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	211.40	49.33	361.72	1,065.20
Nutrient balance	32.79	3.51	-224.68	-0.44
Applied to removed ratio	1.16	1.07	0.38	1.00

Fresh water applied

79,181,907.00 gallons
2,916.00 acre-inches
13.89 inches/acre

Process wastewater applied

4,453,221.00 gallons
164.00 acre-inches
0.78 inches/acre

Total harvests for the crop

1 harvests

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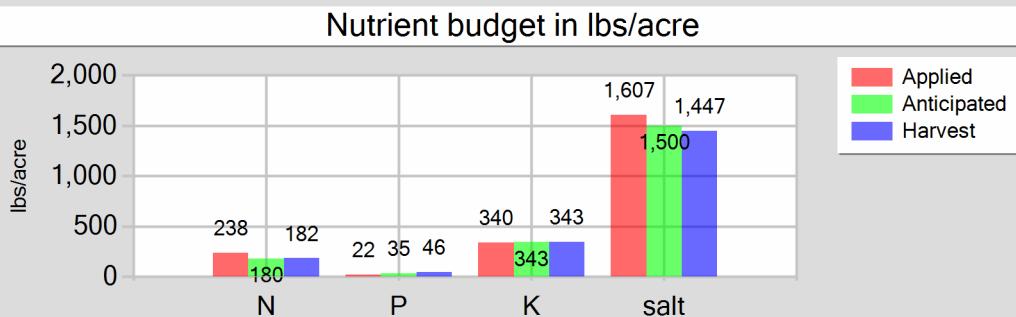
Reporting period 01/01/2023 to 12/31/2023.

12b3 - 06/15/2023: Sorghum-Sudangrass, forage

Field name: 12b3

Crop: Sorghum-Sudangrass, forage

Plant date: 06/15/2023



	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	231.17	21.59	340.09	1,234.19
Fresh water	0.00	0.00	0.00	373.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	238.17	21.59	340.09	1,607.33
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00
Actual crop nutrient removal	182.03	45.51	343.05	1,446.89
Nutrient balance	56.14	-23.92	-2.97	160.43
Applied to removed ratio	1.31	0.47	0.99	1.11

Fresh water applied

156,497,434.00 gallons
5,763.27 acre-inches
27.44 inches/acre

Process wastewater applied

9,859,728.00 gallons
363.10 acre-inches
1.73 inches/acre

Total harvests for the crop

1 harvests

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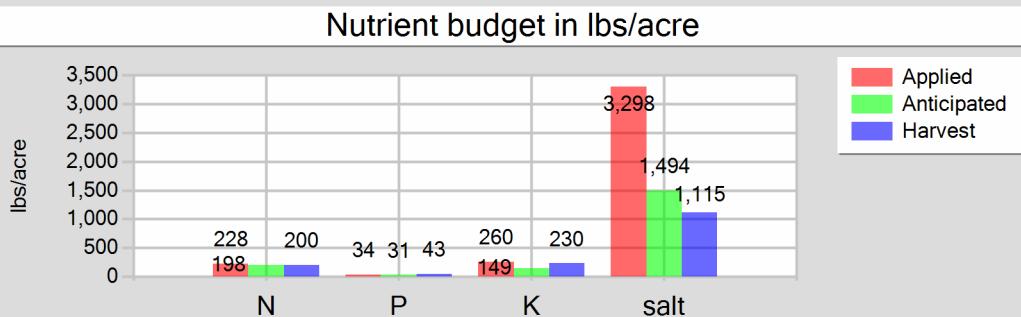
Reporting period 01/01/2023 to 12/31/2023.

2b1 - 11/12/2022: Wheat, silage, soft dough

Field name: 2b1

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	220.95	34.34	260.50	3,107.16
Fresh water	0.00	0.00	0.00	190.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	227.95	34.34	260.50	3,297.95
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	199.77	43.05	229.57	1,114.76
Nutrient balance	28.18	-8.71	30.93	2,183.19
Applied to removed ratio	1.14	0.80	1.13	2.96

Fresh water applied

10,669,209.00 *gallons*
392.91 *acre-inches*
14.03 *inches/acre*

Process wastewater applied

2,106,155.00 *gallons*
77.56 *acre-inches*
2.77 *inches/acre*

Total harvests for the crop

1 *harvests*

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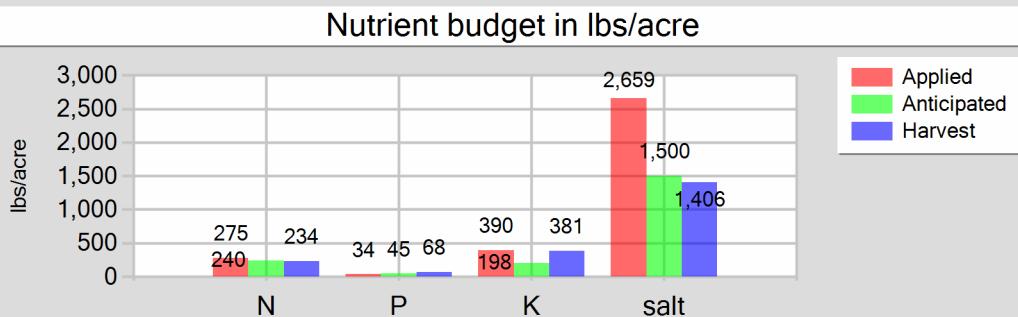
Reporting period 01/01/2023 to 12/31/2023.

2b1 - 05/30/2023: Corn, silage

Field name: 2b1

Crop: Corn, silage

Plant date: 05/30/2023



	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	268.08	34.13	390.19	2,144.39
Fresh water	0.00	0.00	0.00	514.37
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	275.08	34.13	390.19	2,658.76
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	233.58	67.61	381.10	1,405.56
Nutrient balance	41.50	-33.48	9.10	1,253.21
Applied to removed ratio	1.18	0.50	1.02	1.89

Fresh water applied

28,764,233.00 gallons
1,059.29 acre-inches
37.83 inches/acre

Process wastewater applied

1,770,991.00 gallons
65.22 acre-inches
2.33 inches/acre

Total harvests for the crop

1 harvests

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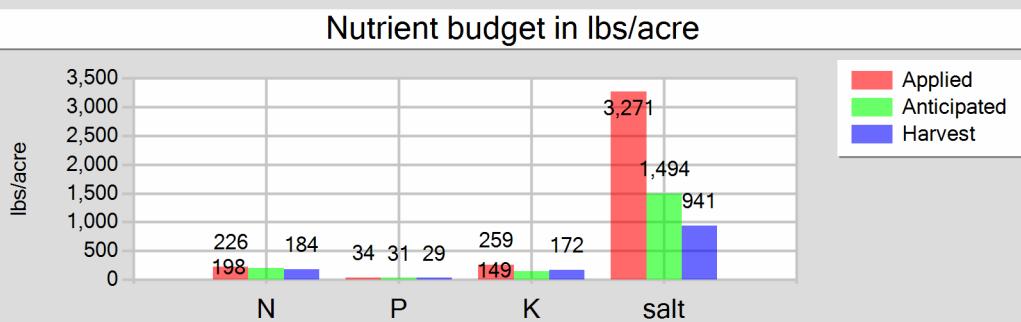
Reporting period 01/01/2023 to 12/31/2023.

2b2 - 11/12/2022: Wheat, silage, soft dough

Field name: 2b2

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	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	16,651,324.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	613.21 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.63 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	219.43	34.10	258.70	3,085.72	3,361,530.00 gallons
Fresh water	0.00	0.00	0.00	185.27	123.79 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.75 inches/acre
Total nutrients applied	226.43	34.10	258.70	3,270.99	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	183.52	29.15	171.65	941.36	
Nutrient balance	42.91	4.95	87.05	2,329.63	
Applied to removed ratio	1.23	1.17	1.51	3.47	
Total harvests for the crop					1 harvests

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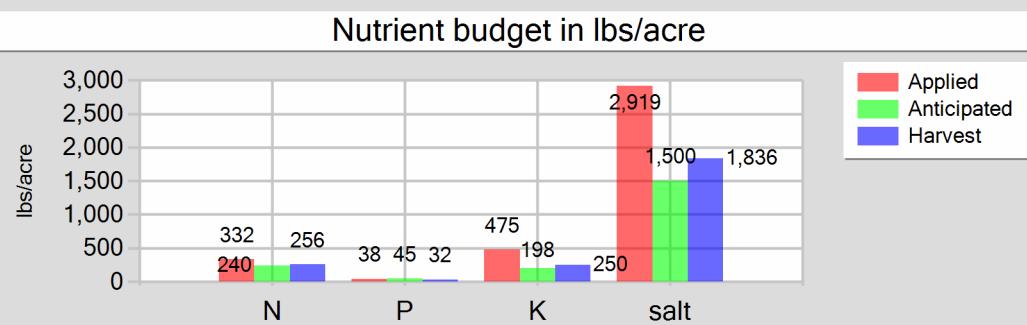
Reporting period 01/01/2023 to 12/31/2023.

2b2 - 05/30/2023: Corn, silage

Field name: 2b2

Crop: Corn, silage

Plant date: 05/30/2023



	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	325.17	38.27	474.73	2,355.68
Fresh water	0.00	0.00	0.00	563.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	332.17	38.27	474.73	2,919.32
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	255.55	32.39	250.16	1,835.67
Nutrient balance	76.61	5.88	224.58	1,083.64
Applied to removed ratio	1.30	1.18	1.90	1.59

Fresh water applied

50,656,339.00 gallons
1,865.50 acre-inches
41.46 inches/acre

Process wastewater applied

3,316,084.00 gallons
122.12 acre-inches
2.71 inches/acre

Total harvests for the crop

1 harvests

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

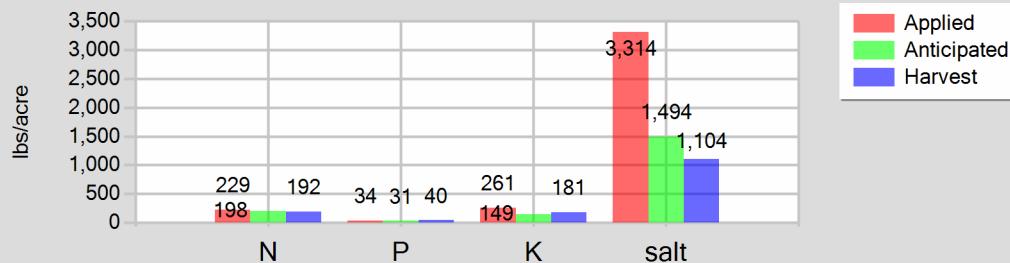
2b3 - 11/11/2022: Wheat, silage, soft dough

Field name: 2b3

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022

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	0.00	0.00	0.00	0.00
Process wastewater	221.55	34.43	261.20	3,115.53
Fresh water	0.00	0.00	0.00	198.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	228.55	34.43	261.20	3,313.64
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	191.61	40.05	180.78	1,104.17
Nutrient balance	36.94	-5.63	80.42	2,209.47
Applied to removed ratio	1.19	0.86	1.44	3.00

Fresh water applied

27,300,769.00 gallons
1,005.39 acre-inches
14.57 inches/acre

Process wastewater applied

5,204,148.00 gallons
191.65 acre-inches
2.78 inches/acre

Total harvests for the crop

1 harvests

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

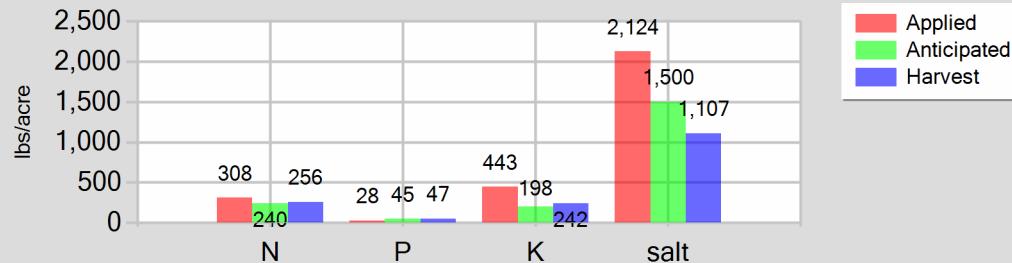
2b3 - 06/01/2023: Corn, silage

Field name: 2b3

Crop: Corn, silage

Plant date: 06/01/2023

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	0.00	0.00	0.00	0.00
Process wastewater	301.45	28.15	443.49	1,609.42
Fresh water	0.00	0.00	0.00	514.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	308.45	28.15	443.49	2,124.05
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	256.01	46.55	242.43	1,107.44
Nutrient balance	52.44	-18.40	201.05	1,016.61
Applied to removed ratio	1.20	0.60	1.83	1.92

Fresh water applied

70,919,044.00 gallons
2,611.71 acre-inches
37.85 inches/acre

Process wastewater applied

4,224,569.00 gallons
155.58 acre-inches
2.25 inches/acre

Total harvests for the crop

1 harvests

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

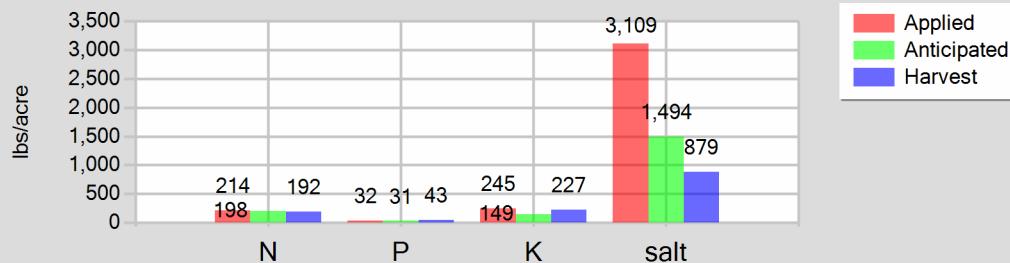
2b4n - 11/12/2022: Wheat, silage, soft dough

Field name: 2b4n

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

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	0.00	0.00	0.00	0.00
Process wastewater	207.48	32.24	244.62	2,917.74
Fresh water	0.00	0.00	0.00	191.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	214.48	32.24	244.62	3,109.24
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	191.77	43.30	226.83	879.47
Nutrient balance	22.71	-11.06	17.79	2,229.77
Applied to removed ratio	1.12	0.74	1.08	3.54

Fresh water applied

47,809,587.00 gallons
1,760.66 acre-inches
14.09 inches/acre

Process wastewater applied

8,829,265.00 gallons
325.15 acre-inches
2.60 inches/acre

Total harvests for the crop

1 harvests

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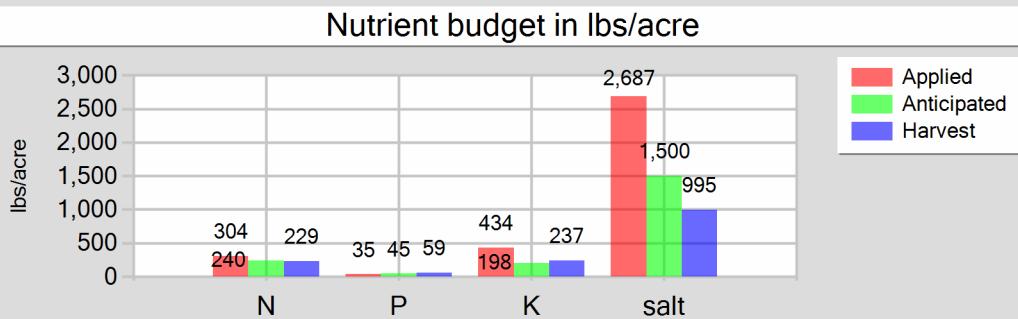
Reporting period 01/01/2023 to 12/31/2023.

2b4n - 06/01/2023: Corn, silage

Field name: 2b4n

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	297.50	34.72	434.48	2,132.00
Fresh water	0.00	0.00	0.00	554.80
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.50	34.72	434.48	2,686.79
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	228.96	58.76	237.07	994.87
Nutrient balance	75.54	-24.04	197.41	1,691.92
Applied to removed ratio	1.33	0.59	1.83	2.70

Fresh water applied

138,505,756.00 *gallons*
5,100.70 *acre-inches*
40.81 *inches/acre*

Process wastewater applied

8,391,742.00 *gallons*
309.04 *acre-inches*
2.47 *inches/acre*

Total harvests for the crop

1 *harvests*

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

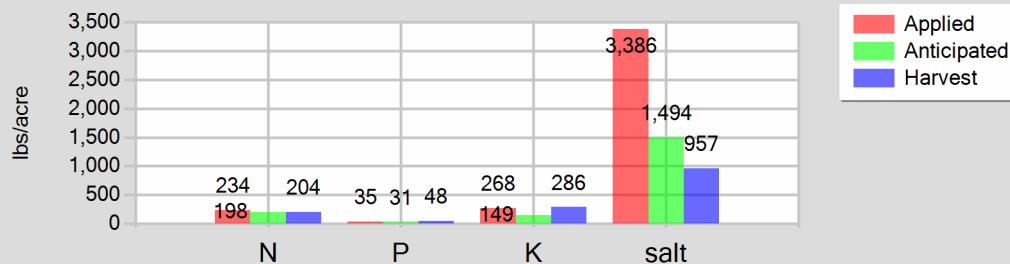
2b4s - 11/12/2022: Wheat, silage, soft dough

Field name: 2b4s

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

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	0.00	0.00	0.00	0.00
Process wastewater	227.41	35.34	268.11	3,197.99
Fresh water	0.00	0.00	0.00	187.91
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	234.41	35.34	268.11	3,385.90
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	203.83	47.59	285.57	957.06
Nutrient balance	30.58	-12.26	-17.45	2,428.83
Applied to removed ratio	1.15	0.74	0.94	3.54

Fresh water applied

46,910,662.00 gallons
1,727.56 acre-inches
13.82 inches/acre

Process wastewater applied

9,677,341.00 gallons
356.38 acre-inches
2.85 inches/acre

Total harvests for the crop

1 harvests

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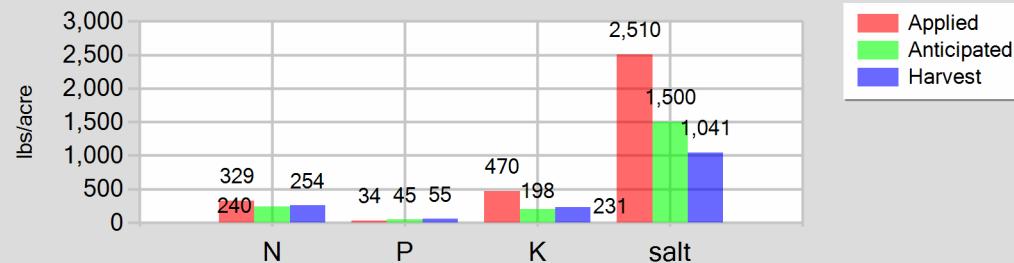
2b4s - 06/01/2023: Corn, silage

Field name: 2b4s

Crop: Corn, silage

Plant date: 06/01/2023

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	0.00	0.00	0.00	0.00
Process wastewater	321.97	33.59	470.20	1,997.35
Fresh water	0.00	0.00	0.00	512.70
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	328.97	33.59	470.20	2,510.05
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	254.45	54.80	230.96	1,041.27
Nutrient balance	74.52	-21.22	239.24	1,468.78
Applied to removed ratio	1.29	0.61	2.04	2.41

Fresh water applied

127,995,024.00 gallons
4,713.62 acre-inches
37.71 inches/acre

Process wastewater applied

8,582,680.00 gallons
316.07 acre-inches
2.53 inches/acre

Total harvests for the crop

1 harvests

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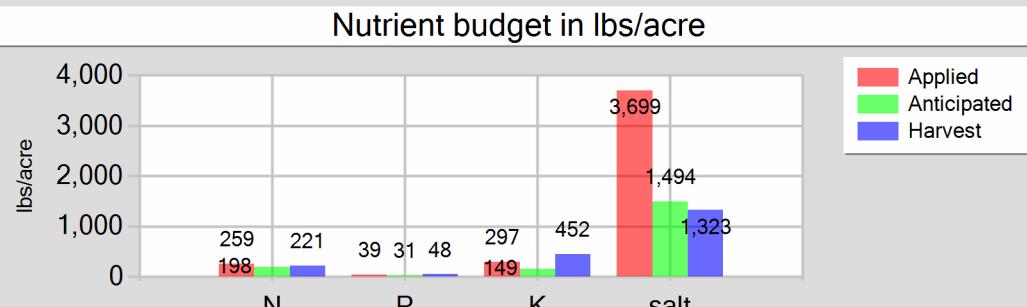
Reporting period 01/01/2023 to 12/31/2023.

3a1 - 11/12/2022: Wheat, silage, soft dough

Field name: 3a1

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	252.15	39.18	297.28	3,545.81
Fresh water	0.00	0.00	0.00	153.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	259.15	39.18	297.28	3,699.38
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	221.18	47.97	451.69	1,323.11
Nutrient balance	37.96	-8.78	-154.42	2,376.27
Applied to removed ratio	1.17	0.82	0.66	2.80

Fresh water applied

9,200,879.00 gallons
338.84 acre-inches
11.29 inches/acre

Process wastewater applied

2,575,168.00 gallons
94.83 acre-inches
3.16 inches/acre

Total harvests for the crop

1 harvests

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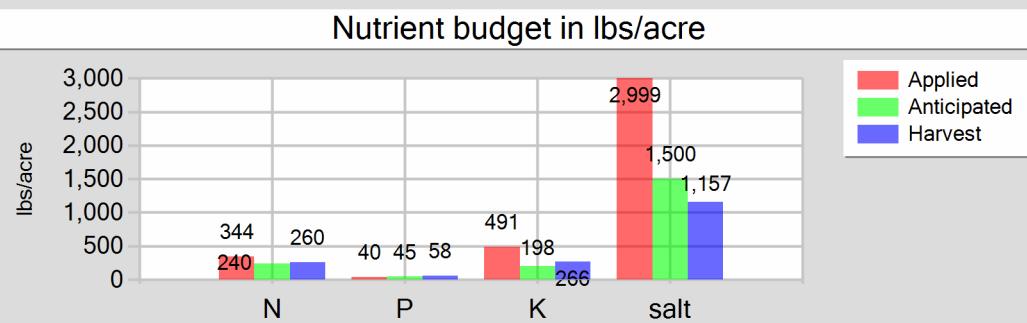
Reporting period 01/01/2023 to 12/31/2023.

3a1 - 06/01/2023: Corn, silage

Field name: 3a1

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	336.66	39.67	491.49	2,442.89
Fresh water	0.00	0.00	0.00	555.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	343.66	39.67	491.49	2,998.79
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	259.96	58.44	266.01	1,156.72
Nutrient balance	83.69	-18.77	225.48	1,842.06
Applied to removed ratio	1.32	0.68	1.85	2.59

Fresh water applied

33,307,373.00 gallons
1,226.60 acre-inches
40.89 inches/acre

Process wastewater applied

2,290,311.00 gallons
84.34 acre-inches
2.81 inches/acre

Total harvests for the crop

1 harvests

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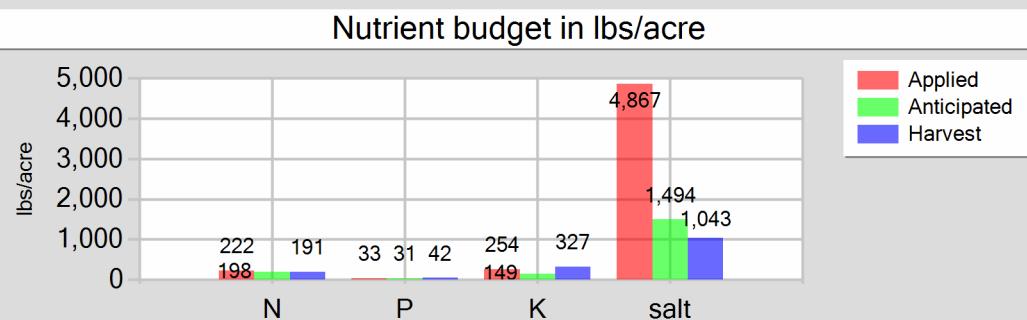
Reporting period 01/01/2023 to 12/31/2023.

3a2 - 11/12/2022: Wheat, silage, soft dough

Field name: 3a2

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	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	10,893,850.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	401.18 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.37 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	215.16	33.43	253.66	3,025.63	Process wastewater applied
Fresh water	0.00	0.00	0.00	1,841.42	2,197,380.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	80.92 acre-inches
Total nutrients applied	222.16	33.43	253.66	4,867.05	2.70 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	191.27	42.04	326.84	1,042.51	Total harvests for the crop
Nutrient balance	30.89	-8.60	-73.17	3,824.53	1 harvests
Applied to removed ratio	1.16	0.80	0.78	4.67	

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

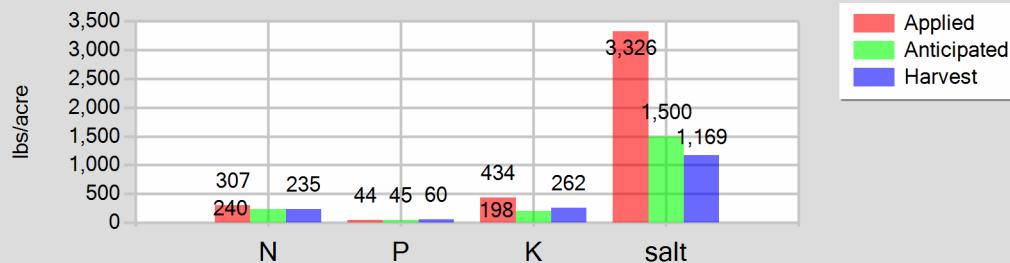
3a2 - 06/01/2023: Corn, silage

Field name: 3a2

Crop: Corn, silage

Plant date: 06/01/2023

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	29,768,388.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,096.27 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	36.54 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	299.95	43.67	434.06	2,828.73	Process wastewater applied
Fresh water	0.00	0.00	0.00	496.83	2,282,072.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	84.04 acre-inches
Total nutrients applied	306.95	43.67	434.06	3,325.56	2.80 inches/acre
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00	
Actual crop nutrient removal	235.37	59.88	262.22	1,168.61	Total harvests for the crop
Nutrient balance	71.57	-16.21	171.84	2,156.95	1 harvests
Applied to removed ratio	1.30	0.73	1.66	2.85	

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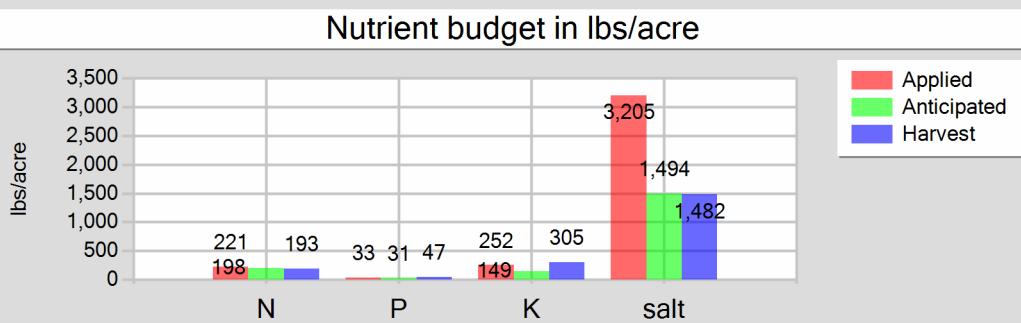
Reporting period 01/01/2023 to 12/31/2023.

3b1 - 11/12/2022: Wheat, silage, soft dough

Field name: 3b1

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	213.75	33.22	252.01	3,005.90
Fresh water	0.00	0.00	0.00	198.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	220.75	33.22	252.01	3,204.53
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	192.57	46.68	304.61	1,482.22
Nutrient balance	28.18	-13.47	-52.60	1,722.31
Applied to removed ratio	1.15	0.71	0.83	2.16

Fresh water applied

26,578,030.00 gallons
978.78 acre-inches
14.61 inches/acre

Process wastewater applied

4,875,491.00 gallons
179.55 acre-inches
2.68 inches/acre

Total harvests for the crop

1 harvests

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

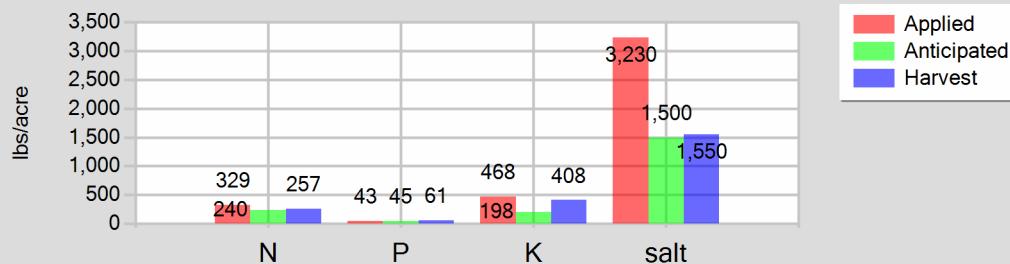
3b1 - 06/02/2023: Corn, silage

Field name: 3b1

Crop: Corn, silage

Plant date: 06/02/2023

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	0.00	0.00	0.00	0.00
Process wastewater	322.28	42.77	468.29	2,714.34
Fresh water	0.00	0.00	0.00	515.91
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	329.28	42.77	468.29	3,230.25
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	257.10	60.84	408.22	1,550.46
Nutrient balance	72.18	-18.07	60.06	1,679.78
Applied to removed ratio	1.28	0.70	1.15	2.08

Fresh water applied

69,035,565.00 *gallons*
2,542.35 *acre-inches*
37.95 *inches/acre*

Process wastewater applied

5,207,336.00 *gallons*
191.77 *acre-inches*
2.86 *inches/acre*

Total harvests for the crop

1 *harvests*

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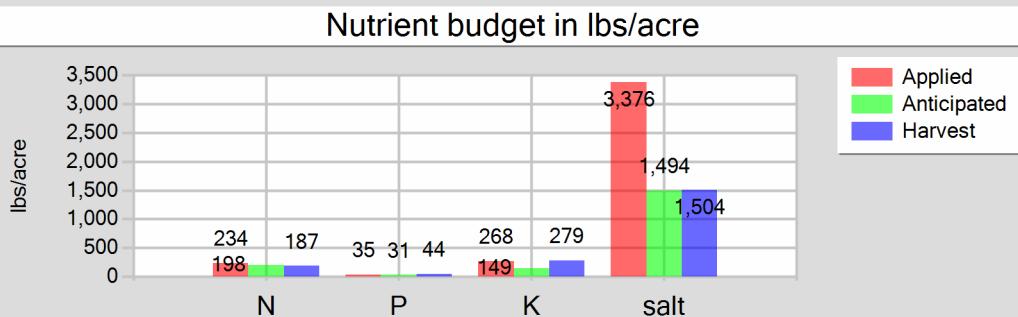
Reporting period 01/01/2023 to 12/31/2023.

3b2 - 11/13/2022: Wheat, silage, soft dough

Field name: 3b2

Crop: Wheat, silage, soft dough

Plant date: 11/13/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	227.32	35.32	268.00	3,196.63
Fresh water	0.00	0.00	0.00	179.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	234.32	35.32	268.00	3,376.14
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	186.87	44.44	279.16	1,504.04
Nutrient balance	47.45	-9.11	-11.16	1,872.11
Applied to removed ratio	1.25	0.79	0.96	2.24

Fresh water applied

16,133,651.00 gallons
594.15 acre-inches
13.20 inches/acre

Process wastewater applied

3,482,356.00 gallons
128.24 acre-inches
2.85 inches/acre

Total harvests for the crop

1 harvests

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

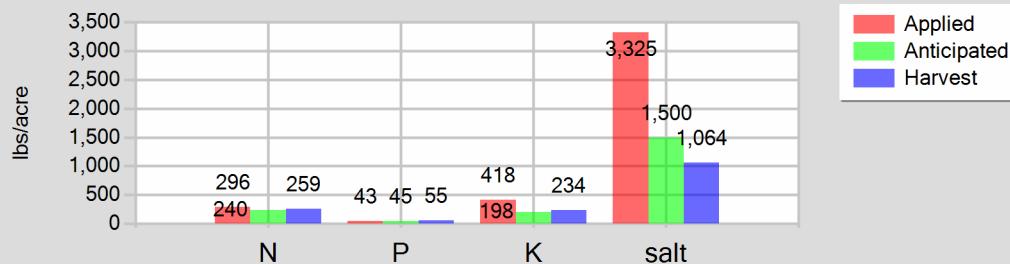
3b2 - 06/02/2023: Corn, silage

Field name: 3b2

Crop: Corn, silage

Plant date: 06/02/2023

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	0.00	0.00	0.00	0.00
Process wastewater	289.11	42.88	418.02	2,788.45
Fresh water	0.00	0.00	0.00	536.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	296.11	42.88	418.02	3,324.81
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	259.06	55.21	233.58	1,063.86
Nutrient balance	37.05	-12.33	184.44	2,260.95
Applied to removed ratio	1.14	0.78	1.79	3.13

Fresh water applied

48,204,766.00 gallons
1,775.22 acre-inches
39.45 inches/acre

Process wastewater applied

3,333,865.00 gallons
122.77 acre-inches
2.73 inches/acre

Total harvests for the crop

1 harvests

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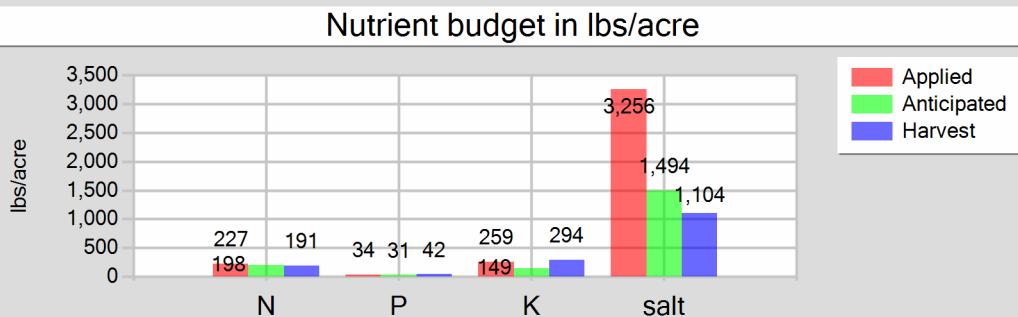
Reporting period 01/01/2023 to 12/31/2023.

3b3 - 11/13/2022: Wheat, silage, soft dough

Field name: 3b3

Crop: Wheat, silage, soft dough

Plant date: 11/13/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	219.90	34.17	259.25	3,092.31
Fresh water	0.00	0.00	0.00	163.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	226.90	34.17	259.25	3,255.77
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	190.99	41.78	294.44	1,104.15
Nutrient balance	35.91	-7.61	-35.18	2,151.62
Applied to removed ratio	1.19	0.82	0.88	2.95

Fresh water applied

15,343,255.00 gallons
565.04 acre-inches
12.02 inches/acre

Process wastewater applied

3,518,439.00 gallons
129.57 acre-inches
2.76 inches/acre

Total harvests for the crop

1 harvests

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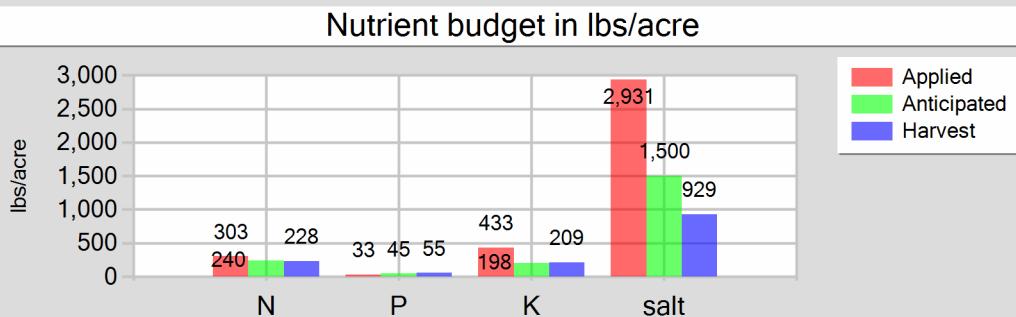
Reporting period 01/01/2023 to 12/31/2023.

3b3 - 06/03/2023: Corn, silage

Field name: 3b3

Crop: Corn, silage

Plant date: 06/03/2023



	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	296.01	33.45	432.81	2,035.92
Fresh water	0.00	0.00	0.00	895.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	303.01	33.45	432.81	2,931.02
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	228.08	54.91	209.07	929.20
Nutrient balance	74.93	-21.45	223.74	2,001.82
Applied to removed ratio	1.33	0.61	2.07	3.15

Fresh water applied

50,490,017.00 gallons
1,859.38 acre-inches
39.56 inches/acre

Process wastewater applied

3,089,948.00 gallons
113.79 acre-inches
2.42 inches/acre

Total harvests for the crop

1 harvests

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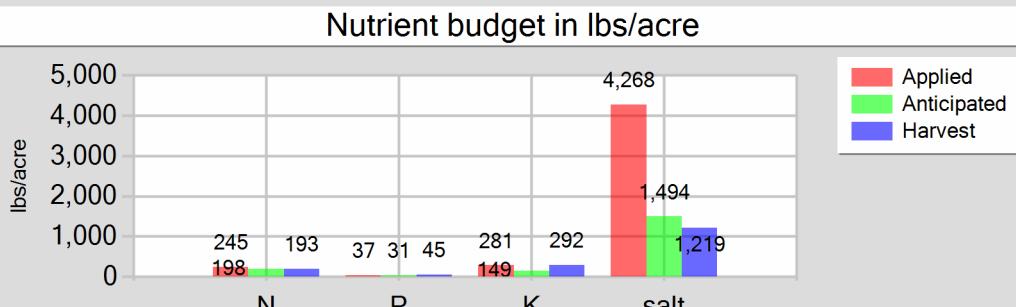
Reporting period 01/01/2023 to 12/31/2023.

3c - 11/13/2022: Wheat, silage, soft dough

Field name: 3c

Crop: Wheat, silage, soft dough

Plant date: 11/13/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	238.44	37.05	281.11	3,353.02
Fresh water	0.00	0.00	0.00	915.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	245.44	37.05	281.11	4,268.44
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	192.96	45.11	291.94	1,219.13
Nutrient balance	52.48	-8.05	-10.83	3,049.31
Applied to removed ratio	1.27	0.82	0.96	3.50

Fresh water applied

22,488,562.00 gallons
828.18 acre-inches
12.55 inches/acre

Process wastewater applied

5,357,335.00 gallons
197.29 acre-inches
2.99 inches/acre

Total harvests for the crop

1 harvests

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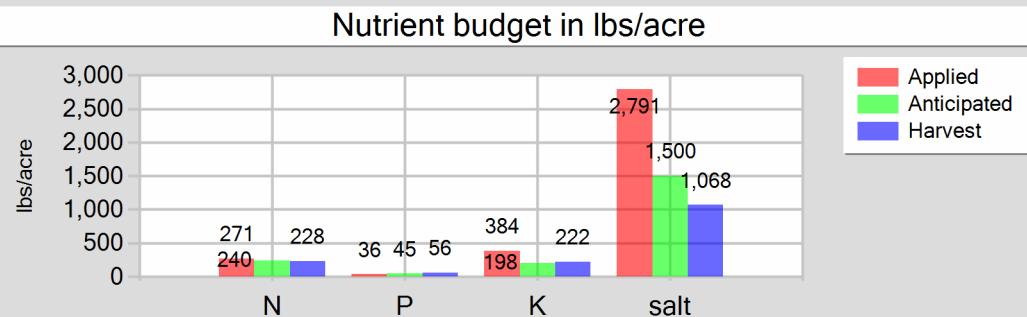
Reporting period 01/01/2023 to 12/31/2023.

3c - 06/04/2023: Corn, silage

Field name: 3c

Crop: Corn, silage

Plant date: 06/04/2023



	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	264.36	35.88	383.76	2,288.48
Fresh water	0.00	0.00	0.00	502.35
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	271.36	35.88	383.76	2,790.84
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	228.37	55.55	222.20	1,067.77
Nutrient balance	42.99	-19.67	161.57	1,723.06
Applied to removed ratio	1.19	0.65	1.73	2.61

Fresh water applied

66,217,729.00 gallons
2,438.57 acre-inches
36.95 inches/acre

Process wastewater applied

4,258,208.00 gallons
156.82 acre-inches
2.38 inches/acre

Total harvests for the crop

1 harvests

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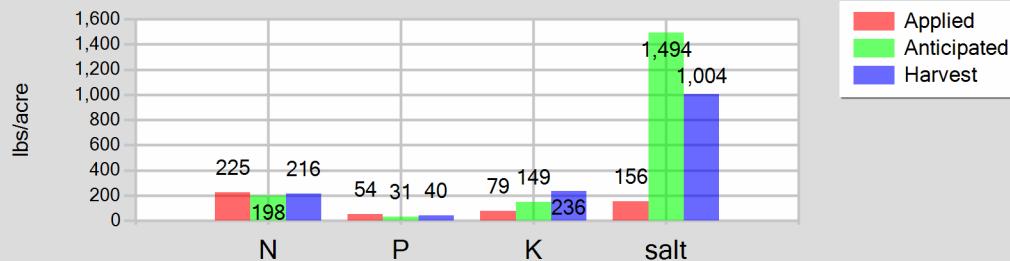
4E - 11/12/2022: Wheat, silage, soft dough

Field name: 4E

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

Nutrient budget in lbs/acre



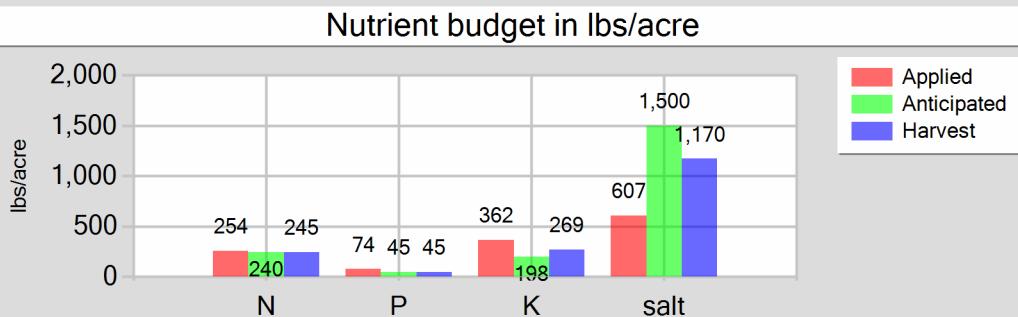
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	41,980,944.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,546.02 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	11.45 inches/acre
Dry manure	217.65	53.71	79.15	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	155.70	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	224.65	53.71	79.15	155.70	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	216.17	40.15	235.73	1,003.64	
Nutrient balance	8.48	13.56	-156.58	-847.94	
Applied to removed ratio	1.04	1.34	0.34	0.16	
Total harvests for the crop					1 harvests

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

4E - 06/01/2023: Corn, silage

Field name: 4E Crop: Corn, silage Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	246.96	73.77	362.43	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	606.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	253.96	73.77	362.43	606.98
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	244.95	45.36	268.54	1,170.33
Nutrient balance	9.01	28.41	93.89	-563.35
Applied to removed ratio	1.04	1.63	1.35	0.52

Fresh water applied
163,655,939.00 gallons
6,026.89 acre-inches
44.64 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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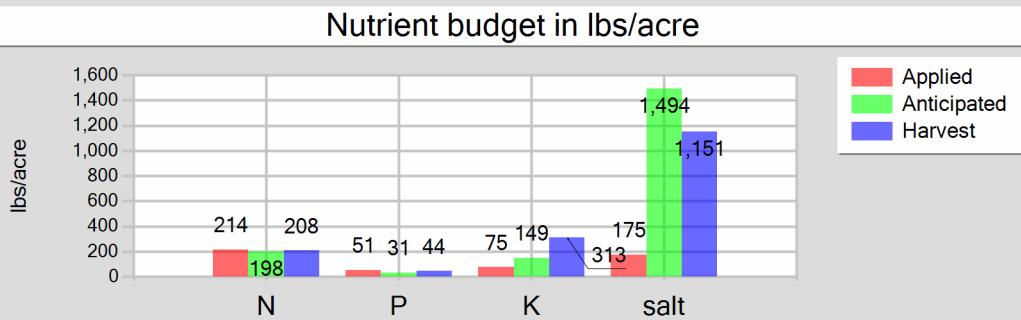
Reporting period 01/01/2023 to 12/31/2023.

4W - 11/14/2022: Wheat, silage, soft dough

Field name: 4W

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022



	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	47,287,500.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,741.44 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.90 inches/acre
Dry manure	206.77	51.02	75.19	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	175.38	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	213.77	51.02	75.19	175.38	Process wastewater applied
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	0.00 gallons
Actual crop nutrient removal	207.86	43.70	313.38	1,151.21	0.00 acre-inches
Nutrient balance	5.91	7.32	-238.20	-975.82	0.00 inches/acre
Applied to removed ratio	1.03	1.17	0.24	0.15	Total harvests for the crop
					1 harvests

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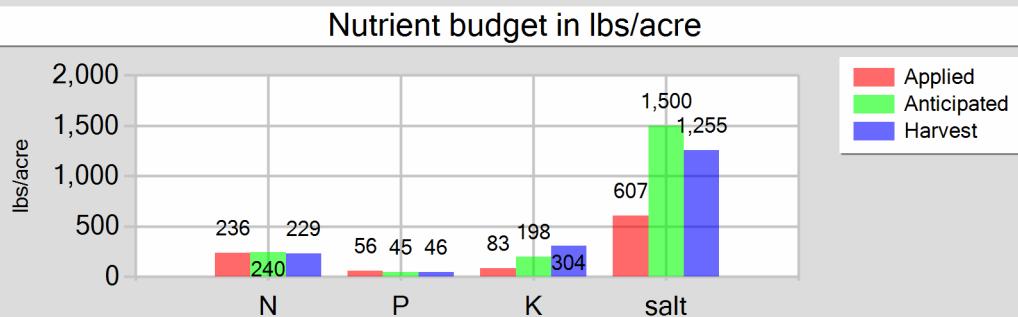
Reporting period 01/01/2023 to 12/31/2023.

4W - 06/01/2023: Corn, silage

Field name: 4W

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	228.54	56.39	83.10	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	606.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	235.54	56.39	83.10	606.98
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	229.40	46.24	304.09	1,255.48
Nutrient balance	6.13	10.16	-220.99	-648.50
Applied to removed ratio	1.03	1.22	0.27	0.48

Fresh water applied

163,655,936.00 *gallons*
6,026.89 *acre-inches*
44.64 *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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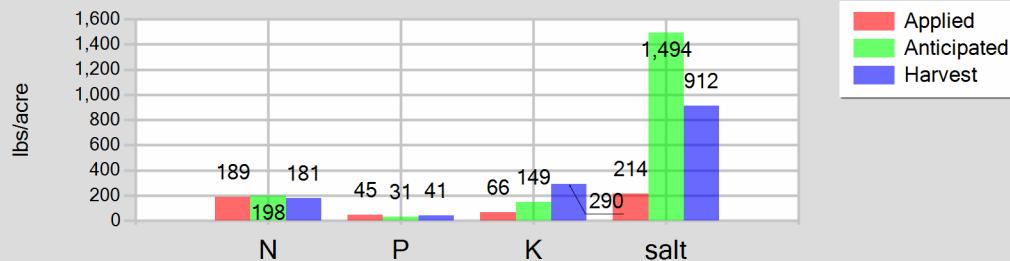
9 - 11/14/2022: Wheat, silage, soft dough

Field name: 9

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

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	182.34	44.99	66.31	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	214.40
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	189.34	44.99	66.31	214.40
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	180.82	41.48	290.38	911.57
Nutrient balance	8.52	3.51	-224.08	-697.17
Applied to removed ratio	1.05	1.08	0.23	0.24

Fresh water applied

120,750,000.00 gallons
4,446.81 acre-inches
15.77 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

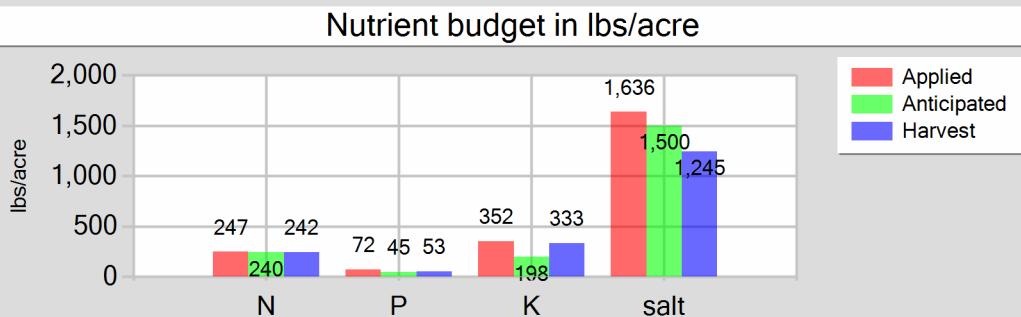
1 harvests

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

9 - 06/04/2023: Corn, silage

Field name: 9 Crop: Corn, silage Plant date: 06/04/2023



	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	239.93	71.67	352.11	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	1,635.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	246.93	71.67	352.11	1,635.94
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	241.88	53.04	333.12	1,245.47
Nutrient balance	5.05	18.62	18.99	390.47
Applied to removed ratio	1.02	1.35	1.06	1.31

Fresh water applied
309,647,670.00 gallons
11,403.27 acre-inches
40.44 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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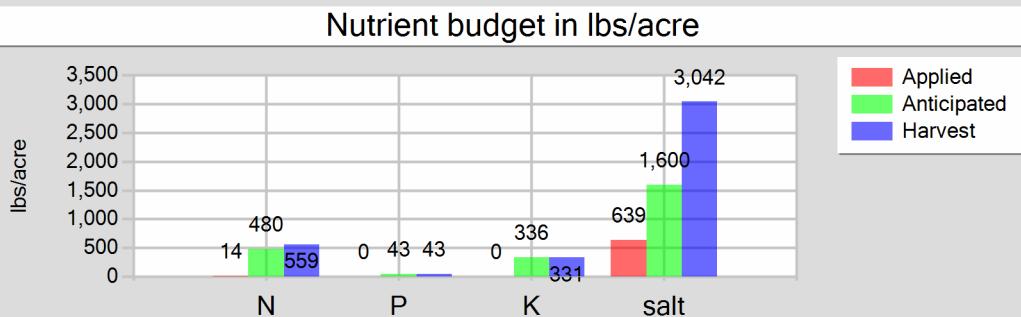
Reporting period 01/01/2023 to 12/31/2023.

b61 - 11/16/2018: Alfalfa, hay

Field name: b61

Crop: Alfalfa, hay

Plant date: 11/16/2018



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	638.69
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	638.69
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00
Actual crop nutrient removal	559.22	43.25	331.06	3,042.15
Nutrient balance	-545.22	-43.25	-331.06	-2,403.46
Applied to removed ratio	0.03	0.00	0.00	0.21

Fresh water applied

164,550,842.00 gallons
6,059.85 acre-inches
46.98 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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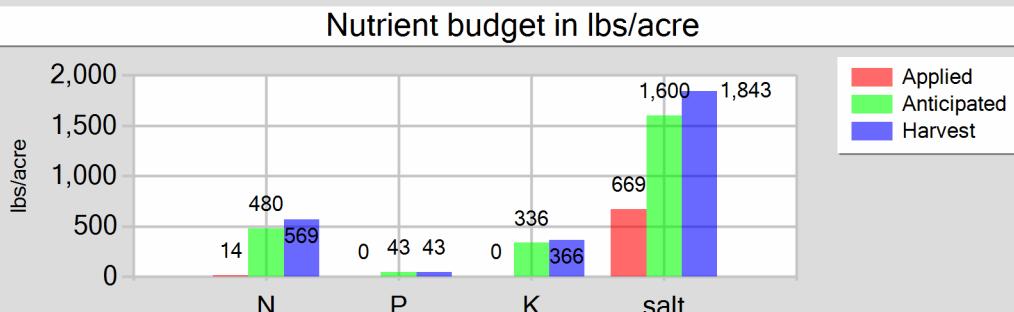
Reporting period 01/01/2023 to 12/31/2023.

b62 - 11/16/2018: Alfalfa, hay

Field name: b62

Crop: Alfalfa, hay

Plant date: 11/16/2018



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	668.92
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	668.92
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00
Actual crop nutrient removal	569.44	43.46	365.64	1,843.20
Nutrient balance	-555.44	-43.46	-365.64	-1,174.28
Applied to removed ratio	0.02	0.00	0.00	0.36

Fresh water applied

164,323,887.00 gallons
6,051.49 acre-inches
49.20 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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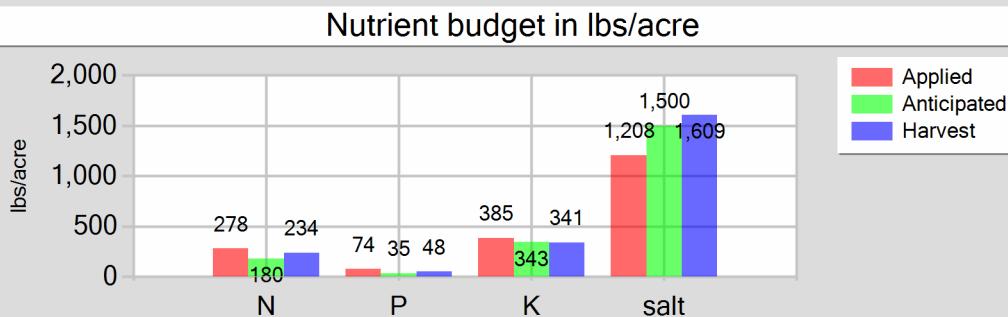
Reporting period 01/01/2023 to 12/31/2023.

b63 - 06/19/2023: Sorghum-Sudangrass, forage

Field name: b63

Crop: Sorghum-Sudangrass, forage

Plant date: 06/19/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	207.81	62.07	304.97	0.00
Process wastewater	56.43	11.62	80.09	799.40
Fresh water	0.00	0.00	0.00	408.15
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	278.24	73.70	385.05	1,207.55
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00
Actual crop nutrient removal	234.45	48.27	341.33	1,608.94
Nutrient balance	43.79	25.43	43.73	-401.39
Applied to removed ratio	1.19	1.53	1.13	0.75

Fresh water applied

123,088,069.00 gallons
4,532.92 acre-inches
30.02 inches/acre

Process wastewater applied

2,658,996.00 gallons
97.92 acre-inches
0.65 inches/acre

Total harvests for the crop

1 harvests

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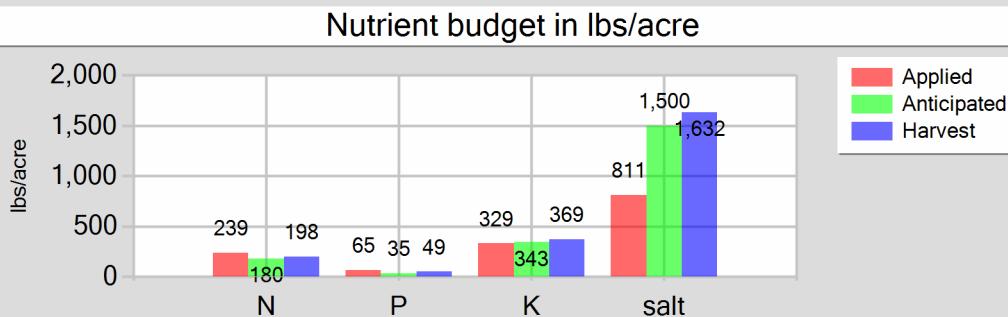
Reporting period 01/01/2023 to 12/31/2023.

b64 - 06/20/2023: Sorghum-Sudangrass, forage

Field name: b64

Crop: Sorghum-Sudangrass, forage

Plant date: 06/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	196.12	58.58	287.81	0.00
Process wastewater	28.76	5.92	40.82	407.42
Fresh water	0.00	0.00	0.00	403.74
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	238.88	64.51	328.63	811.16
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00
Actual crop nutrient removal	198.46	49.32	368.74	1,632.34
Nutrient balance	40.41	15.18	-40.12	-821.18
Applied to removed ratio	1.20	1.31	0.89	0.50

Fresh water applied

112,889,136.00 gallons
4,157.32 acre-inches
29.70 inches/acre

Process wastewater applied

1,256,448.00 gallons
46.27 acre-inches
0.33 inches/acre

Total harvests for the crop

1 harvests

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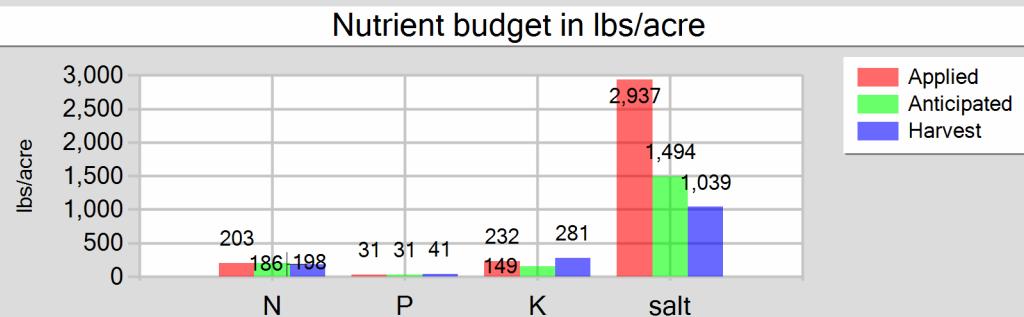
Reporting period 01/01/2023 to 12/31/2023.

b73 - 11/16/2022: Wheat, silage, soft dough

Field name: b73

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	196.47	30.53	231.63	2,762.79
Fresh water	0.00	0.00	0.00	174.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	203.47	30.53	231.63	2,937.23
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	186.37	40.77	281.50	1,038.63
Nutrient balance	17.09	-10.24	-49.87	1,898.59
Applied to removed ratio	1.09	0.75	0.82	2.83

Fresh water applied

60,270,610.00 *gallons*
2,219.56 *acre-inches*
12.83 *inches/acre*

Process wastewater applied

11,570,778.00 *gallons*
426.11 *acre-inches*
2.46 *inches/acre*

Total harvests for the crop

1 *harvests*

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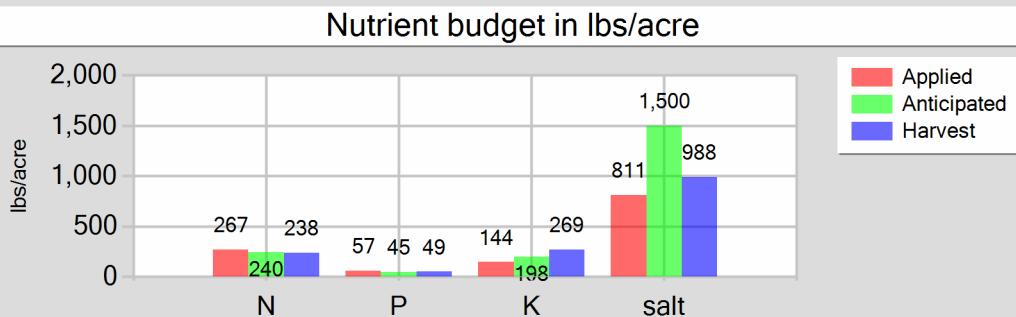
Reporting period 01/01/2023 to 12/31/2023.

b73 - 06/04/2023: Corn, silage

Field name: b73

Crop: Corn, silage

Plant date: 06/04/2023



	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	215.70	53.23	78.44	0.00
Process wastewater	44.44	4.15	65.38	237.26
Fresh water	0.00	0.00	0.00	573.77
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	267.14	57.38	143.81	811.03
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	237.51	49.14	268.63	987.70
Nutrient balance	29.64	8.24	-124.81	-176.67
Applied to removed ratio	1.12	1.17	0.54	0.82

Fresh water applied
198,246,664.00 gallons
7,300.75 acre-inches
42.20 inches/acre

Process wastewater applied
1,561,448.00 gallons
57.50 acre-inches
0.33 inches/acre

Total harvests for the crop
1 harvests

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

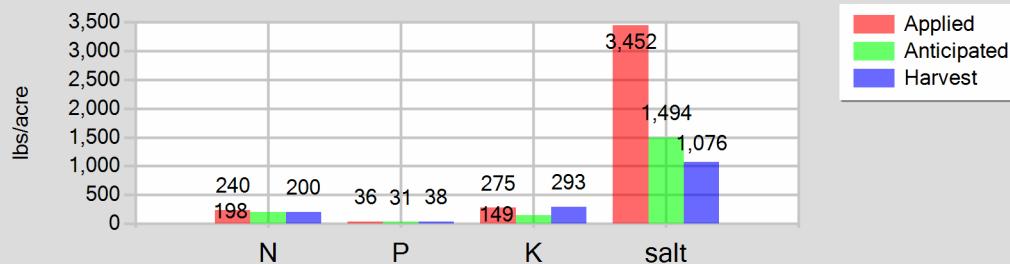
b74 - 11/15/2022: Wheat, silage, soft dough

Field name: b74

Crop: Wheat, 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	0.00	0.00	0.00	0.00
Process wastewater	233.17	36.23	274.91	3,279.02
Fresh water	0.00	0.00	0.00	172.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	240.17	36.23	274.91	3,451.92
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	199.70	38.16	292.55	1,076.07
Nutrient balance	40.48	-1.92	-17.64	2,375.85
Applied to removed ratio	1.20	0.95	0.94	3.21

Fresh water applied

49,379,342.00 gallons
1,818.47 acre-inches
12.72 inches/acre

Process wastewater applied

11,351,380.00 gallons
418.03 acre-inches
2.92 inches/acre

Total harvests for the crop

1 harvests

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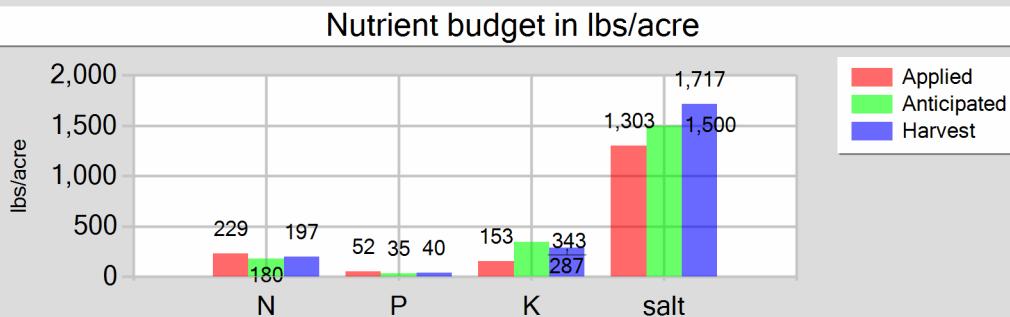
Reporting period 01/01/2023 to 12/31/2023.

b74 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: b74

Crop: Sorghum-Sudangrass, forage

Plant date: 06/05/2023



	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	154.11	38.03	56.04	0.00
Process wastewater	68.31	14.07	96.95	967.70
Fresh water	0.00	0.00	0.00	335.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	229.42	52.10	152.99	1,303.16
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00
Actual crop nutrient removal	196.82	39.96	287.09	1,716.65
Nutrient balance	32.59	12.14	-134.11	-413.49
Applied to removed ratio	1.17	1.30	0.53	0.76

Fresh water applied

95,807,530.00 gallons
3,528.27 acre-inches
24.67 inches/acre

Process wastewater applied

3,048,258.00 gallons
112.26 acre-inches
0.79 inches/acre

Total harvests for the crop

1 harvests

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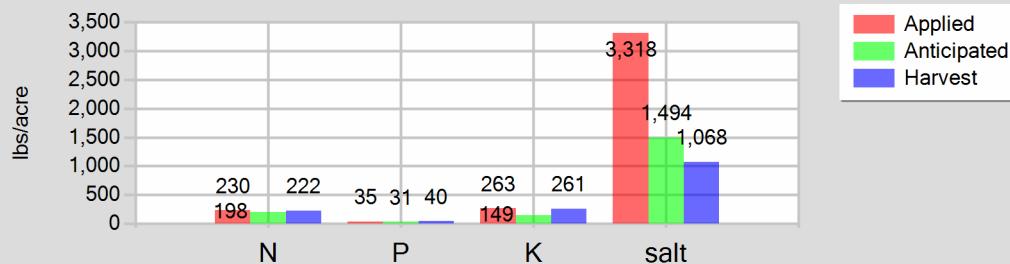
b75w - 11/15/2022: Wheat, silage, soft dough

Field name: b75w

Crop: Wheat, 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	5,487,230.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	202.08 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.47 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	222.89	34.64	262.78	3,134.42	Process wastewater applied
Fresh water	0.00	0.00	0.00	183.16	1,138,194.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	41.92 acre-inches
Total nutrients applied	229.89	34.64	262.78	3,317.58	2.79 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	Total harvests for the crop
Actual crop nutrient removal	221.51	40.18	260.60	1,068.47	1 harvests
Nutrient balance	8.38	-5.54	2.18	2,249.11	
Applied to removed ratio	1.04	0.86	1.01	3.10	

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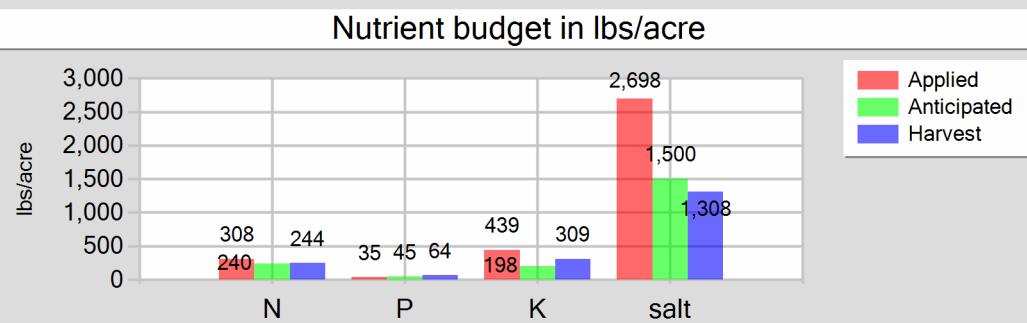
Reporting period 01/01/2023 to 12/31/2023.

b75w - 06/10/2023: Corn, silage

Field name: b75w

Crop: Corn, silage

Plant date: 06/10/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	300.58	35.42	438.81	2,181.18
Fresh water	0.00	0.00	0.00	516.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	307.58	35.42	438.81	2,697.79
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	244.37	64.31	308.68	1,307.60
Nutrient balance	63.21	-28.88	130.13	1,390.19
Applied to removed ratio	1.26	0.55	1.42	2.06

Fresh water applied

15,476,391.00 gallons
569.94 acre-inches
38.00 inches/acre

Process wastewater applied

1,022,447.00 gallons
37.65 acre-inches
2.51 inches/acre

Total harvests for the crop

1 harvests

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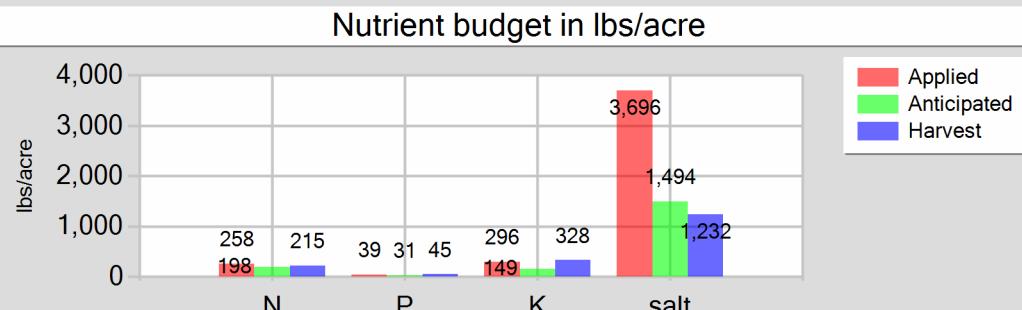
Reporting period 01/01/2023 to 12/31/2023.

b76w - 11/16/2022: Wheat, silage, soft dough

Field name: b76w

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	250.97	39.00	295.89	3,529.25
Fresh water	0.00	0.00	0.00	167.15
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	257.97	39.00	295.89	3,696.39
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	214.59	45.48	328.28	1,232.12
Nutrient balance	43.38	-6.48	-32.39	2,464.27
Applied to removed ratio	1.20	0.86	0.90	3.00

Fresh water applied

6,676,466.00 gallons
245.87 acre-inches
12.29 inches/acre

Process wastewater applied

1,708,757.00 gallons
62.93 acre-inches
3.15 inches/acre

Total harvests for the crop

1 harvests

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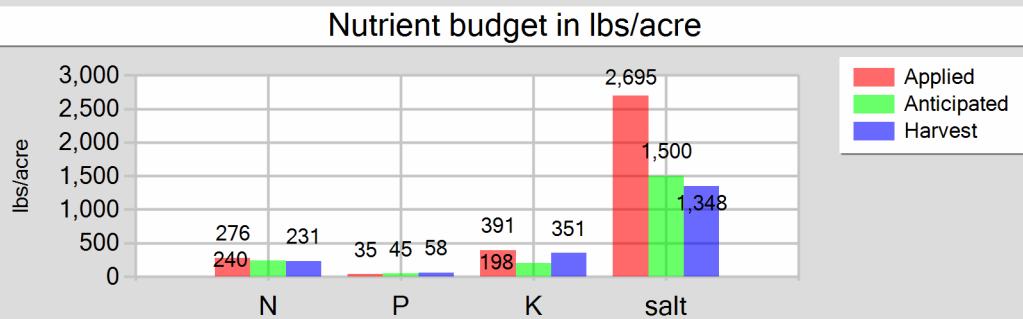
Reporting period 01/01/2023 to 12/31/2023.

b76w - 06/10/2023: Corn, silage

Field name: b76w

Crop: Corn, silage

Plant date: 06/10/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	268.75	34.58	391.01	2,178.38
Fresh water	0.00	0.00	0.00	516.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	275.75	34.58	391.01	2,694.91
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	231.12	57.78	350.81	1,347.53
Nutrient balance	44.63	-23.20	40.20	1,347.38
Applied to removed ratio	1.19	0.60	1.11	2.00

Fresh water applied

20,632,361.00 gallons
759.82 acre-inches
37.99 inches/acre

Process wastewater applied

1,275,246.00 gallons
46.96 acre-inches
2.35 inches/acre

Total harvests for the crop

1 harvests

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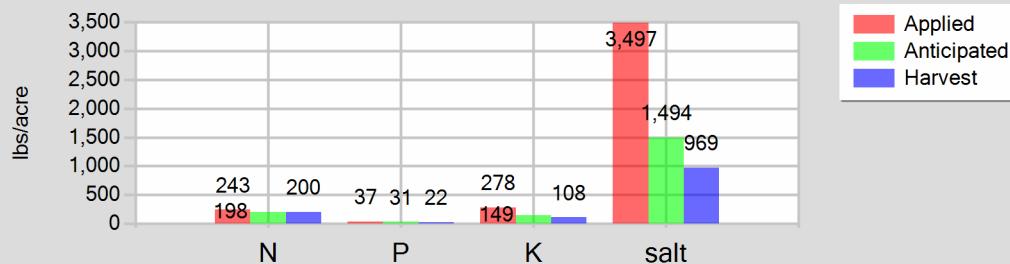
b77w - 11/16/2022: Wheat, silage, soft dough

Field name: b77w

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

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	0.00	0.00	0.00	0.00
Process wastewater	235.65	36.62	277.83	3,313.87
Fresh water	0.00	0.00	0.00	183.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	242.65	36.62	277.83	3,496.99
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	199.53	21.54	107.70	969.33
Nutrient balance	43.12	15.08	170.13	2,527.67
Applied to removed ratio	1.22	1.70	2.58	3.61

Fresh water applied

28,161,596.00 gallons
1,037.10 acre-inches
13.47 inches/acre

Process wastewater applied

6,177,243.00 gallons
227.49 acre-inches
2.95 inches/acre

Total harvests for the crop

1 harvests

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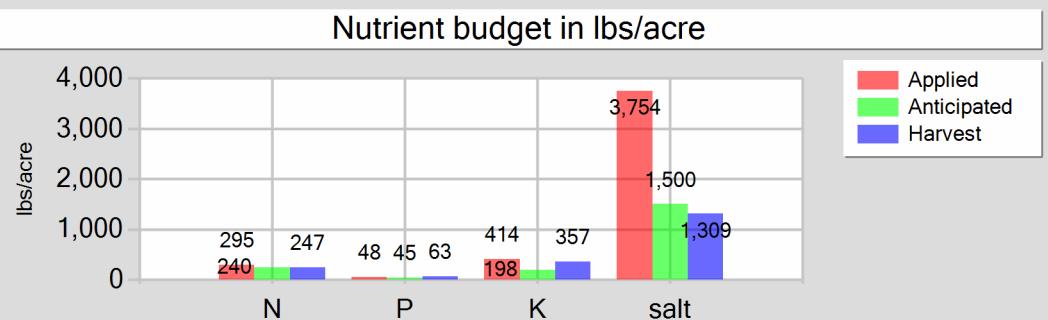
Reporting period 01/01/2023 to 12/31/2023.

b77w - 06/10/2023: Corn, silage

Field name: b77w

Crop: Corn, silage

Plant date: 06/10/2023



	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	83,015,149.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,057.17 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	39.70 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	288.31	48.29	414.30	3,214.52	Process wastewater applied
Fresh water	0.00	0.00	0.00	539.81	6,101,017.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	224.68 acre-inches
Total nutrients applied	295.31	48.29	414.30	3,754.33	2.92 inches/acre
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00	Total harvests for the crop
Actual crop nutrient removal	247.36	63.43	357.30	1,308.69	1 harvests
Nutrient balance	47.95	-15.13	57.00	2,445.64	
Applied to removed ratio	1.19	0.76	1.16	2.87	

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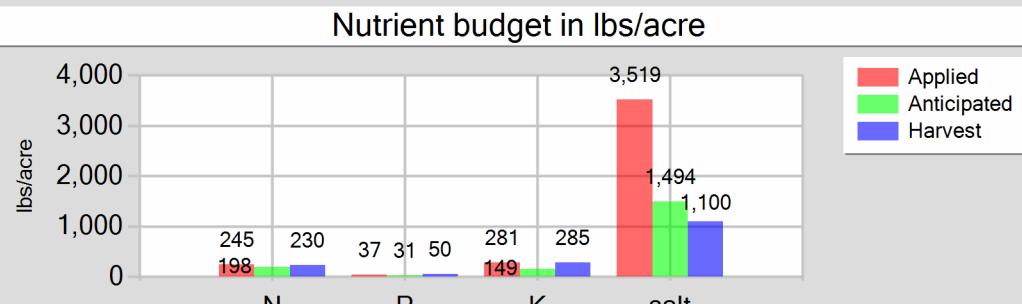
Reporting period 01/01/2023 to 12/31/2023.

b78 - 11/16/2022: Wheat, silage, soft dough

Field name: b78

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	237.93	36.97	280.52	3,345.93
Fresh water	0.00	0.00	0.00	173.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	244.93	36.97	280.52	3,519.15
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	229.56	50.45	285.06	1,099.89
Nutrient balance	15.37	-13.48	-4.55	2,419.25
Applied to removed ratio	1.07	0.73	0.98	3.20

Fresh water applied

41,514,161.00 gallons
1,528.83 acre-inches
12.74 inches/acre

Process wastewater applied

9,719,999.00 gallons
357.95 acre-inches
2.98 inches/acre

Total harvests for the crop

1 harvests

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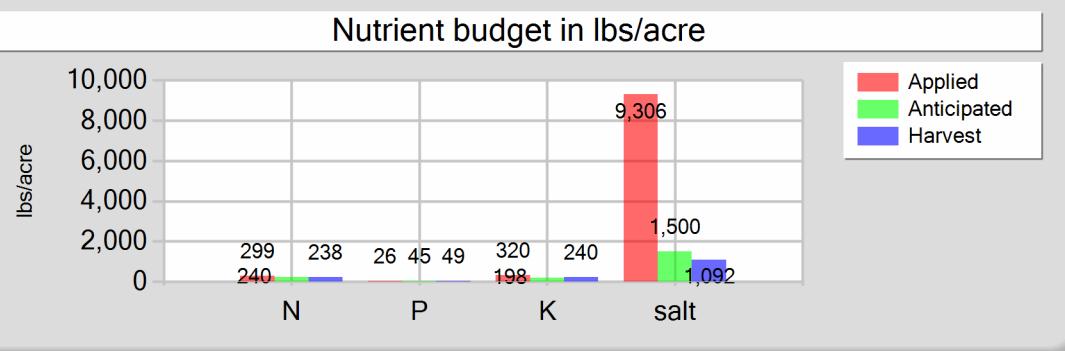
Reporting period 01/01/2023 to 12/31/2023.

b78 - 06/10/2023: Corn, silage

Field name: b78

Crop: Corn, silage

Plant date: 06/10/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	279.12	26.40	319.83	3,547.18
Fresh water	12.76	0.00	0.00	5,758.80
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	298.88	26.40	319.83	9,305.97
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	238.48	49.34	240.13	1,092.08
Nutrient balance	60.40	-22.94	79.70	8,213.90
Applied to removed ratio	1.25	0.54	1.33	8.52

Fresh water applied
129,400,260.00 gallons
4,765.37 acre-inches
39.71 inches/acre

Process wastewater applied
8,361,955.00 gallons
307.94 acre-inches
2.57 inches/acre

Total harvests for the crop
1 harvests

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

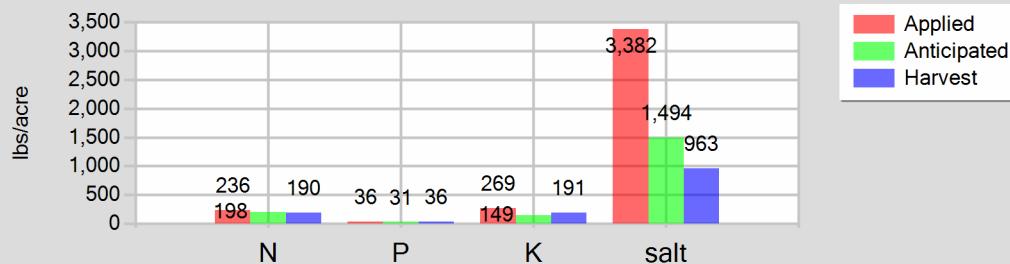
b79 - 11/16/2022: Wheat, silage, soft dough

Field name: b79

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

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	0.00	0.00	0.00	0.00
Process wastewater	228.59	35.52	269.50	3,214.50
Fresh water	0.00	0.00	0.00	167.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	235.59	35.52	269.50	3,382.01
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	190.08	36.42	191.21	962.90
Nutrient balance	45.51	-0.90	78.28	2,419.12
Applied to removed ratio	1.24	0.98	1.41	3.51

Fresh water applied

25,760,713.00 gallons
948.68 acre-inches
12.32 inches/acre

Process wastewater applied

5,992,017.00 gallons
220.67 acre-inches
2.87 inches/acre

Total harvests for the crop

1 harvests

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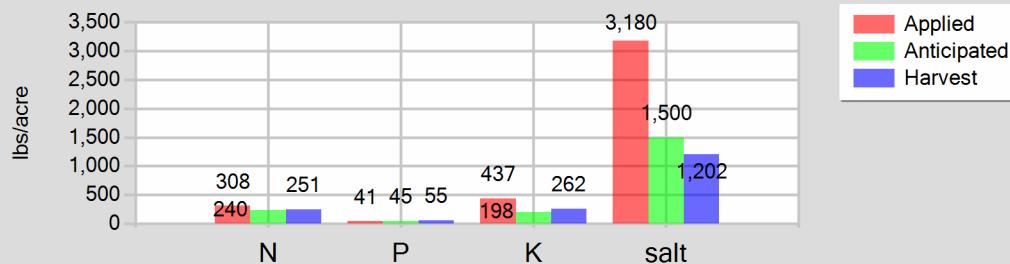
b79 - 06/14/2023: Corn, silage

Field name: b79

Crop: Corn, silage

Plant date: 06/14/2023

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	0.00	0.00	0.00	0.00
Process wastewater	300.94	41.23	436.69	2,635.38
Fresh water	0.00	0.00	0.00	544.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	307.94	41.23	436.69	3,180.35
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	251.48	55.20	261.70	1,202.20
Nutrient balance	56.46	-13.98	174.99	1,978.15
Applied to removed ratio	1.22	0.75	1.67	2.65

Fresh water applied

83,808,785.00 gallons
3,086.39 acre-inches
40.08 inches/acre

Process wastewater applied

5,684,094.00 gallons
209.33 acre-inches
2.72 inches/acre

Total harvests for the crop

1 harvests

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NUTRIENT ANALYSES**A. MANURE ANALYSES****Manure**

Sample and source description: Manure

Sample date: 10/05/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 4.6 %

	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	15,400.00	3,800.00	5,600.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 05/01/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 15.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,100.00	6,900.00	33,900.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 10/03/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.2 %

	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	23,200.00	6,600.00	13,500.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES

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Lagoon

Sample and source description: Lagoon

Sample date: 11/10/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	352.00	298.00	0.00	0.00	54.70	415.00								7,460.00	4,950
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 03/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	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	347.00	255.00	0.00	0.00	61.70	856.00								6,860.00	4,560
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 05/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	590.00	558.00	0.00	0.00	55.10	868.00								4,740.00	3,150
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 08/02/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	384.00	374.00	0.00	0.00	79.10	545.00								8,200.00	5,440
DL	10.00	2.00	0.10	2.00	0.20	0.50								100.00	10

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LagoonSample and source description: LagoonSample date: 11/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	490.00	484.00	0.00	0.00	33.50	409.00								5,990.00	3,980
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

C. FRESH WATER ANALYSES**2B1****Irrigation Well**Sample description: Irrigation WellSample date: 06/28/2023 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	0.00	0.00	0.00								479.00	300
DL	0.50	0.10	0.20								1.00	20

DW3**Domestic Well**Sample description: Domestic WellSample date: 06/28/2023 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	0.00	0.00	0.00								486.00	
DL	0.50	0.10	0.20								1.00	

Kern Delta ID

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Kern Delta ID**Canal Water (Kern Delta)**Sample description: Canal Water (Kern Delta)Sample date: 06/28/2023 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	0.00	0.00	0.00								69.00	60
DL	0.50	0.10	0.20								1.00	20

W11**Irrigation Well**Sample description: Irrigation WellSample date: 06/28/2023 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	0.00	0.00	0.00								538.00	890
DL	0.50	0.10	0.20								1.00	20

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

10N - 11/10/2022: Wheat, silage, soft dough

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10N - 11/10/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,800.00	4,000.00	23,400.00		9.51
DL	500.00	200.00	200.00		0.05

10N - 05/25/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	3,400.00	15,300.00		5.22
DL	0.05	0.02	0.02		0.05

10S - 11/10/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/01/2023 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	16,300.00	3,400.00	25,900.00		8.23
DL	500.00	200.00	200.00		0.05

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10S - 05/25/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 68.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,100.00	3,300.00	14,200.00		5.25
DL	500.00	200.00	200.00		0.05

11b1 - 11/11/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/01/2023 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	18,300.00	4,400.00	28,500.00		8.86
DL	500.00	200.00	200.00		0.05

11b1 - 05/30/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 70.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,500.00	2,700.00	14,600.00		6.22
DL	500.00	200.00	200.00		0.05

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12b3 - 11/11/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/01/2023 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	18,000.00	4,200.00	30,800.00		9.07
DL	500.00	200.00	200.00		0.05

12b3 - 06/15/2023: Sorghum-Sudangrass, forage

Sudan Grass

Sample and source description: Sudan Grass

Sample date: 10/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 76.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,600.00	3,900.00	29,400.00		12.40
DL	500.00	200.00	200.00		0.05

2b1 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/30/2023 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	18,100.00	3,900.00	20,800.00		10.10
DL	500.00	200.00	200.00		0.05

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2b1 - 05/30/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	3,300.00	18,600.00		6.86
DL	500.00	200.00	200.00		0.05

2b2 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,000.00	2,700.00	15,900.00		8.72
DL	500.00	200.00	200.00		0.05

2b2 - 05/30/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,200.00	1,800.00	13,900.00		10.20
DL	500.00	200.00	200.00		0.05

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2b3 - 11/11/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,700.00	3,700.00	16,700.00		10.20
DL	500.00	200.00	200.00		0.05

2b3 - 06/01/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/15/2023 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	2,400.00	12,500.00		5.71
DL	500.00	200.00	200.00		0.05

2b4n - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,600.00	4,200.00	22,000.00		8.53
DL	500.00	200.00	200.00		0.05

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2b4n - 06/01/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/15/2023 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	11,300.00	2,900.00	11,700.00		4.91
DL	500.00	200.00	200.00		0.05

2b4s - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,700.00	4,600.00	27,600.00		9.25
DL	500.00	200.00	200.00		0.05

2b4s - 06/01/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/15/2023 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	13,000.00	2,800.00	11,800.00		5.32
DL	500.00	200.00	200.00		0.05

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3a1 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,600.00	3,600.00	33,900.00		9.93
DL	500.00	200.00	200.00		0.05

3a1 - 06/01/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/16/2023 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	12,900.00	2,900.00	13,200.00		5.74
DL	500.00	200.00	200.00		0.05

3a2 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,200.00	4,000.00	31,100.00		9.92
DL	500.00	200.00	200.00		0.05

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3a2 - 06/01/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 66.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	2,900.00	12,700.00		5.66
DL	500.00	200.00	200.00		0.05

3b1 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/26/2023 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	16,500.00	4,000.00	26,100.00		12.70
DL	500.00	200.00	200.00		0.05

3b1 - 06/02/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/16/2023 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	13,100.00	3,100.00	20,800.00		7.90
DL	500.00	200.00	200.00		0.05

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3b2 - 11/13/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/21/2023 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	16,400.00	3,900.00	24,500.00		13.20
DL	500.00	200.00	200.00		0.05

3b2 - 06/02/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 65.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,200.00	2,600.00	11,000.00		5.01
DL	500.00	200.00	200.00		0.05

3b3 - 11/13/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/29/2023 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	19,200.00	4,200.00	29,600.00		11.10
DL	500.00	200.00	200.00		0.05

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

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

3b3 - 06/03/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 65.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,800.00	2,600.00	9,900.00		4.40
DL	500.00	200.00	200.00		0.05

3c - 11/13/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/26/2023 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	15,400.00	3,600.00	23,300.00		9.73
DL	500.00	200.00	200.00		0.05

3c - 06/04/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,100.00	2,700.00	10,800.00		5.19
DL	0.05	0.02	0.02		0.05

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

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

4E - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,000.00	3,900.00	22,900.00		9.75
DL	500.00	200.00	200.00		0.05

4E - 06/01/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,500.00	2,500.00	14,800.00		6.45
DL	500.00	200.00	200.00		0.05

4W - 11/14/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,500.00	4,100.00	29,400.00		10.80
DL	500.00	200.00	200.00		0.05

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

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

4W - 06/01/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,900.00	2,600.00	17,100.00		7.06
DL	500.00	200.00	200.00		0.05

9 - 11/14/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,000.00	3,900.00	27,300.00		8.57
DL	500.00	200.00	200.00		0.05

9 - 06/04/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	2,500.00	15,700.00		5.87
DL	500.00	200.00	200.00		0.05

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

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

b61 - 11/16/2018: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 11/07/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,500.00	2,900.00	22,200.00		20.40
DL	500.00	200.00	200.00		0.05

b62 - 11/16/2018: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 11/07/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	38,000.00	2,900.00	24,400.00		12.30
DL	500.00	200.00	200.00		0.05

b63 - 06/19/2023: Sorghum-Sudangrass, forage

Alfalfa

Sample and source description: Alfalfa

Sample date: 10/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 77.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,400.00	4,200.00	29,700.00		14.00
DL	500.00	200.00	200.00		0.05

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

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

b64 - 06/20/2023: Sorghum-Sudangrass, forage

Alfalfa

Sample and source description: Alfalfa

Sample date: 10/15/2023 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	16,900.00	4,200.00	31,400.00		13.90
DL	500.00	200.00	200.00		0.05

b73 - 11/16/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/29/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,200.00	4,200.00	29,000.00		10.70
DL	500.00	200.00	200.00		0.05

b73 - 06/04/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 72.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,500.00	3,000.00	16,400.00		6.03
DL	500.00	200.00	200.00		0.05

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

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

b74 - 11/15/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,700.00	3,000.00	23,000.00		8.46
DL	500.00	200.00	200.00		0.05

b74 - 06/05/2023: Sorghum-Sudangrass, forage

Sorghum

Sample and source description: Sorghum

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

Moisture: 70.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,300.00	2,700.00	19,400.00		11.60
DL	500.00	200.00	200.00		0.05

b75w - 11/15/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/22/2023 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	20,400.00	3,700.00	24,000.00		9.84
DL	500.00	200.00	200.00		0.05

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

b75w - 06/10/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	3,000.00	14,400.00		6.10
DL	500.00	200.00	200.00		0.05

b76w - 11/16/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/25/2023 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	15,100.00	3,200.00	23,100.00		8.67
DL	500.00	200.00	200.00		0.05

b76w - 06/10/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 66.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,200.00	2,800.00	17,000.00		6.53
DL	500.00	200.00	200.00		0.05

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

b77w - 11/16/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/02/2023 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	17,600.00	1,900.00	9,500.00		8.55
DL	500.00	200.00	200.00		0.05

b77w - 06/10/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,700.00	3,000.00	16,900.00		6.19
DL	500.00	200.00	200.00		0.05

b78 - 11/16/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/24/2023 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	18,200.00	4,000.00	22,600.00		8.72
DL	500.00	200.00	200.00		0.05

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

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

b78 - 06/10/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 72.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,500.00	3,000.00	14,600.00		6.64
DL	500.00	200.00	200.00		0.05

b79 - 11/16/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/29/2023 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	16,700.00	3,200.00	16,800.00		8.46
DL	500.00	200.00	200.00		0.05

b79 - 06/14/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/19/2023 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	12,300.00	2,700.00	12,800.00		5.88
DL	500.00	200.00	200.00		0.05

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

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

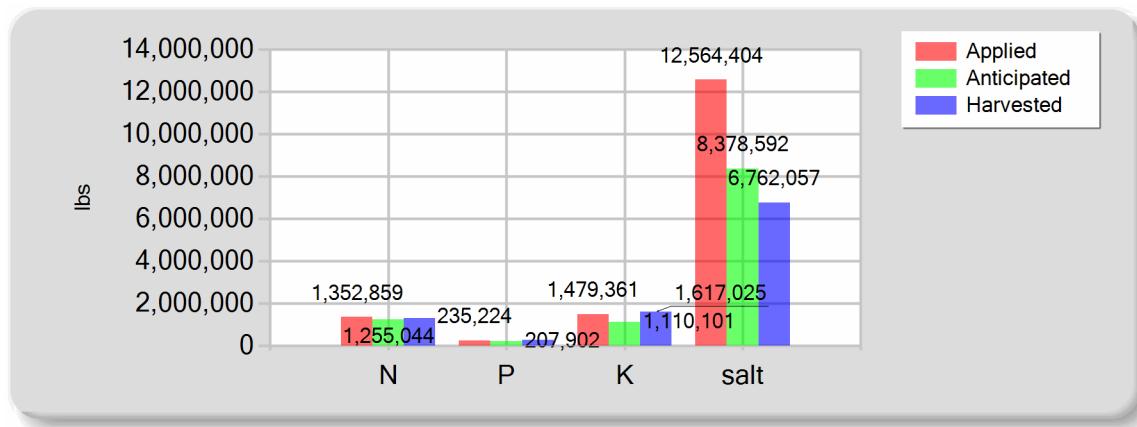
No subsurface (tile) drainage analyses entered.

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

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

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	452,787.49	120,030.00	341,093.42	0.00
Process wastewater	855,224.56	115,193.83	1,138,267.24	8,935,046.12
Fresh water	1,992.68	0.00	0.00	3,629,358.07
Atmospheric deposition	42,854.00	0.00	0.00	0.00
Total nutrients applied	1,352,858.73	235,223.83	1,479,360.66	12,564,404.20
Anticipated crop nutrient removal	1,255,044.00	207,902.20	1,110,101.20	8,378,592.00
Actual crop nutrient removal	1,301,741.76	264,948.41	1,617,024.58	6,762,057.43
Nutrient balance	51,116.96	-29,724.58	-137,663.91	5,802,346.77
Applied to removed ratio	1.04	0.89	0.91	1.86

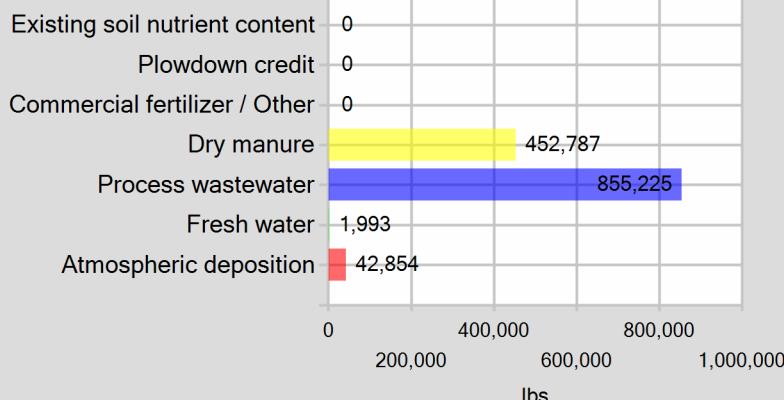
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

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

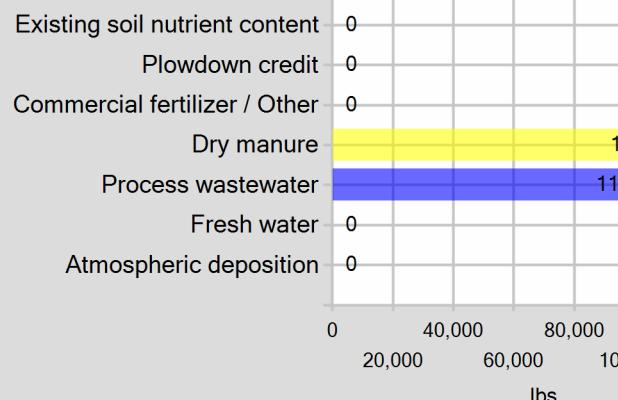
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

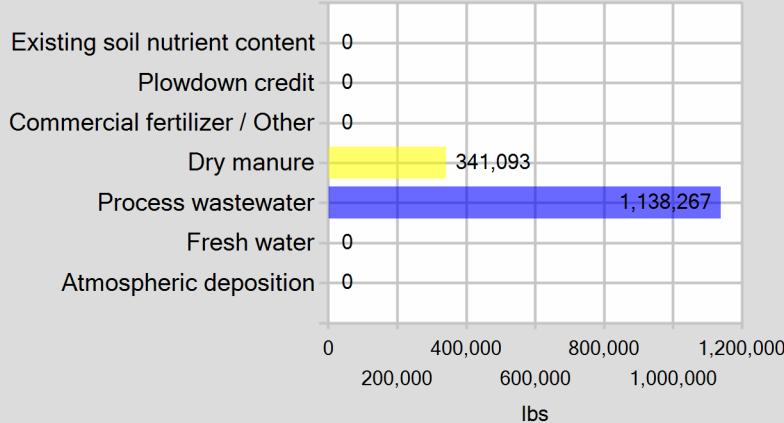
Pounds of nitrogen applied



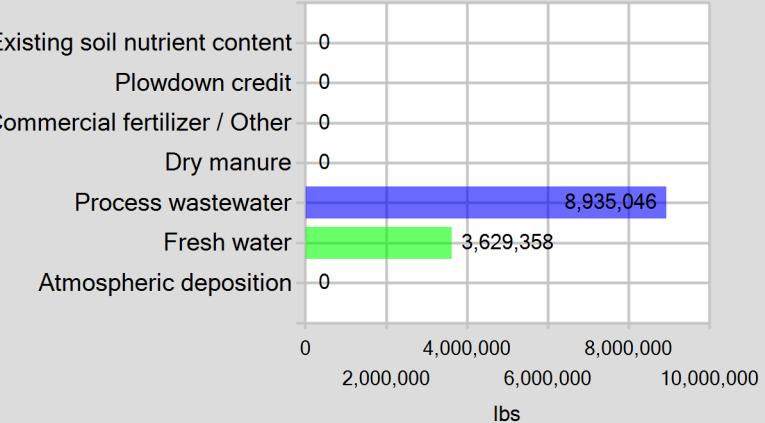
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

~Wells W1, W2, W3, W4, W5, W6, W9, W12, DW1, DW2 were Out of Service in 2023.

~Fields B80, 12b1, 12b2, and 12b4 were fallow in 2023.

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.

SIGNATURE OF OWNER OF FACILITY

John Bidart

PRINT OR TYPE NAME

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

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.



SIGNATURE OF OWNER OF FACILITY

John Bidart

PRINT OR TYPE NAME

6/14/2024

DATE



SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

6/14/2024

DATE

July 17, 2023

Sentry Ag Services
Attn: Monique Baldivez
P.O. Box 7750
Visalia, CA 93290

Lab No. : VI 2344348
Customer No. : 4019696
Reference : 3047

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

- | | | |
|-----------------|----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (1 page) | : Results for each sample submitted. |
| Quality Control | (1 page) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Kern Delta I.D.	06/28/2023	06/28/2023	VI 2344348-001	AGW

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: KEH

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-07-17

Section: Case Narrative

Page 1 of 3

Page 1 of 3

Corporate Offices & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory
853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810

July 17, 2023

Sentry Ag Services
 Attn: Monique Baldivez
 P.O. Box 7750
 Visalia, CA 93290

Description : Kern Delta I.D.
 Project : Kern Delta I.D.

Lab No. : VI 2344348-001
 Customer No. : 4019696
 Reference : 3047
 Sampled On : June 28, 2023 at 07:40
 Sampled By : Klay
 Received On : June 28, 2023 at 10:44
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	EPA 351.2	07/14/2023	17:56	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/29/2023	12:00	lfs	SM 4500-NO3 F	06/29/2023	14:21	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	Calc.	07/14/2023	17:56	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	06/29/2023	12:00	lfs	SM 4500-NO3 F	06/29/2023	14:21	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	EPA 351.2	07/14/2023	17:56	lcr
Conductivity	69	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/06/2023	00:19	sta
Solids, Total Dissolved (TDS)	60	20	mg/L		1		06/29/2023	17:00	ctl	SM 2540 C	06/30/2023	11:50	ctl

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

July 17, 2023

Sentry Ag Service

Lab No. : VI 2344348
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(STK2338534-002)	Dup	umhos/cm		0.3%	5	
Solids, Total Dissolved	2540CE	06/29/2023:207182CTL (VI 2344376-001) (VI 2344376-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	993.7	ND 99.2% 1.12% 1.19%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	07/11/2023:207567STA (STK2338587-006) (STK2338587-005)	Blank LCS MS MSDP MS MSDP	mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00	ND 97.7% 92.5% 91.2% 1.4% 97.1% 96.0% 1.1%	<0.5 73-124 54-136 54-136 ≤27 54-136 54-136 ≤27	
Nitrate + Nitrite as N	4500NO3F	06/29/2023:207183LFS (SP 2311039-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609	ND 97.1% 91.3% 93.1% 1.1%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	06/29/2023:207183LFS (SP 2311039-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609	ND 97.1% 91.3% 93.1% 1.1%	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.



2344348
Laboratory Analysis Work Order

3047

SITE NAME: Kern Delta I.D.

Billing: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290

LABORATORY: VT FGL 4-19696

Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
- W2 EC, NO₃N, TDS, TN (Irr)
- W3 NH₄-N (Ammonium)
- W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
- W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
- W6 NO₃N, NO₂ (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
- W8 Other: _____

R01
5.4

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
- P2 TN, P, K (Mid-season - Corn)
- P3 TN, TP, TK, Ash, %M (At Harvest)
- P4 TN, %M
- P5 % Moisture
- P6 NIR
- P7 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
- L4 Other: _____

Manure

- M1 TN, TP, TK, %M (2/year)
- M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
- M3 Other: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
- S2 S1 + CEC, CaCO₃, OM, C:N, TN
- S3 NO₃N, NH₄N
- S4 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1 KernDelta I.D	Cana l	W2	6/28/23 7:46	Klay	—		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures or the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	Klay Mittel	SAC		6/28/23 10:44
2 nd	SRO	FGL	6-28-23 1044	
3 rd	SRO	FGL		
4 th		GLS	6-28-23 1730	

LABORATORY USE ONLY
Logged In By:

GLS 6/29/23 Total Samples: _____

Laboratory No.: _____

CDA 1028

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH **VI**

1. Number of ice chests/packages received: 1 Shipping tracking # OTC
2. Were samples received in a chilled condition? Temps: 201 / 5.4 / / /
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
3. Do the number of bottles received agree with the COC? **Yes** No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) **Yes** No
5. VOAs checked for Headspace? **Yes** No **N/A**
6. Were sample custody seals intact? **Yes** No **N/A**
7. If required, was sample split for pH analysis? **Yes** No **N/A**
8. Were all analyses within holding times at time of receipt? **Yes** No **N/A**
9. Verify sample date, time and sampler name **Yes** No **N/A**

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): SRO

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 2 / 4 / 4 / 1 /
Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 559678703 / 7 / 691 / 696
3. Do the number of bottles received agree with the COC? **Yes** No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) **Yes** No
5. Were sample custody seals intact? **Yes** No **N/A**

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? **Yes** No
2. Did bottle labels correspond with the client's ID's? **Yes** No
3. Were all bottles requiring sample preservation properly preserved? **Yes** No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? **Yes** No **N/A**
5. Have rush or project due dates been checked and accepted? **Yes** No **N/A**
6. Were all analyses within holding times at time of receipt? **Yes** No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): CDA

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem:
Resolution:
2. Person Contacted: _____ (4019696)
Initiated By: _____
Problem:
Resolution:

(Please use the back of this sheet for additional contacts)

Sentry Ag Service
VI 2344348
iv 06/28/2023 11:43:22
UT 2344348
Barcode

July 25, 2023

Sentry Ag Services
Attn: Monique Baldivez
P.O. Box 7750
Visalia, CA 93290

Lab No. : VI 2344346
Customer No. : 4019696
Reference : 3050

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (3 pages) | : Results for each sample submitted. |
| Quality Control | (1 page) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
W11	06/28/2023	06/28/2023	VI 2344346-001	AGW
2B1	06/28/2023	06/28/2023	VI 2344346-002	AGW
DW3	06/28/2023	06/28/2023	VI 2344346-003	DW

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Discussion of Analytical Results:

Case Narrative - 7/25/23 - The Electrical Conductivity result for W11 could not be reported due to laboratory contamination.

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: KEH

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-07-25

Section: Case Narrative

Page 1 of 5

Page 1 of 5

Corporate Offices & Laboratory

853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory

2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory

563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory

3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory

9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

July 25, 2023

Sentry Ag Services
 Attn: Monique Baldivez
 P.O. Box 7750
 Visalia, CA 93290

Description : W11
 Project : Bidart II

Lab No. : VI 2344346-001
 Customer No. : 4019696
 Reference : 3050
 Sampled On : June 28, 2023 at 08:20
 Sampled By : Klay
 Received On : June 28, 2023 at 10:44
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	EPA 351.2	07/14/2023	15:52	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/29/2023	12:00	lfs	SM 4500-NO3 F	06/29/2023	14:53	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	Calc.	07/14/2023	15:52	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	06/29/2023	12:00	lfs	SM 4500-NO3 F	06/29/2023	14:53	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	EPA 351.2	07/14/2023	15:52	lcr
Solids, Total Dissolved (TDS)	890	20	mg/L		1		06/29/2023	16:30	ctl	SM 2540 C	06/30/2023	11:50	ctl

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

July 25, 2023

Sentry Ag Services
 Attn: Monique Baldivez
 P.O. Box 7750
 Visalia, CA 93290

Description : 2B1
 Project : Bidart II

Lab No. : VI 2344346-002
 Customer No. : 4019696
 Reference : 3050
 Sampled On : June 28, 2023 at 08:10
 Sampled By : Klay
 Received On : June 28, 2023 at 10:44
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	EPA 351.2	07/14/2023	15:54	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/29/2023	12:00	lfs	SM 4500-NO3 F	06/29/2023	15:01	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	Calc.	07/14/2023	15:54	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	06/29/2023	12:00	lfs	SM 4500-NO3 F	06/29/2023	15:01	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	EPA 351.2	07/14/2023	15:54	lcr
Conductivity	479	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/06/2023	01:26	sta
Solids, Total Dissolved (TDS)	300	20	mg/L		1		06/29/2023	17:00	ctl	SM 2540 C	06/30/2023	11:50	ctl

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

July 25, 2023

Sentry Ag Services
 Attn: Monique Baldivez
 P.O. Box 7750
 Visalia, CA 93290

Description : DW3
 Project : Bidart II

Lab No. : VI 2344346-003
 Customer No. : 4019696
 Reference : 3050
 Sampled On : June 28, 2023 at 08:20
 Sampled By : Klay
 Received On : June 28, 2023 at 10:44
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	06/29/2023	12:00	lfs	SM 4500-NO3 F	06/29/2023	15:03	lfs
Conductivity	486	1	umhos/cm	1600 ²	1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	18:43	sta

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

July 25, 2023

Sentry Ag Service

Lab No. : VI 2344346

Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(STK2338587-004) (VI 2343910-002)	Dup Dup	umhos/cm umhos/cm		0.6% 0%	5 5	
Solids, Total Dissolved	2540CE	06/29/2023:207182CTL (SP 2311097-001) (SP 2311097-001) (VI 2344376-001) (VI 2344376-001)	Blank LCS Dup Dup Blank LCS Dup Dup	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	993.7 993.7	ND 102% 4.35% 0.9% ND 99.2% 1.12% 1.19%	<20 90-110 5 5 <20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	07/11/2023:207567STA (VI 2344346-001) (VI 2344346-002)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 95.6% 93.6% 92.2% 1.4% 93.7% 96.7% 3.1%	<0.5 73-124 54-136 54-136 ≤27 54-136 54-136 ≤27	
Nitrate + Nitrite as N	4500NO3F	06/29/2023:207183LFS (VI 2344345-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 0.5%	ND 98.0% 94.6% 95.5% ≤30.4	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	06/29/2023:207183LFS (VI 2344345-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 0.5%	ND 98.0% 94.6% 95.5% ≤30.4	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.



2344346

Laboratory Analysis Work Order

3050

SITE NAME: Bidart IIBilling: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290LABORATORY: VT | FGL 4-19696Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
 - W2 EC, NO₃N, TDS, TN (Irr)
 - W3 NH₄-N (Ammonium)
 - W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
 - W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
 - W6 NO₃N, NO₂ (Dom ILRP, Annually)
 - W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
 - W8 Other: _____
- RC
5.4%

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
- P2 TN, P, K (Mid-season - Corn)
- P3 TN, TP, TK, Ash, %M (At Harvest)
- P4 TN, %M
- P5 % Moisture
- P6 NIR
- P7 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
- L4 Other: _____

Manure

- M1 TN, TP, TK, %M (2/year)
- M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
- M3 Other: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
- S2 S1 + CEC, CaCO₃, OM, C:N, TN
- S3 NO₃N, NH₄N
- S4 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1 W11	Irr. We	W2	6/28/23 8:20	Kay	—		
2 W12	Dom We	W1	8:10		—		
3 W13	Dom We	W1	8:20		—		
4							
5							
6							
7							
8							
9							
10							
11							
12							

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures or the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES: GILS 6/29/23
CPA 1028

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	Kay	SAS		6/28/23 10:44
2 nd	SRO	FGL	6-28-23 1044	
3 rd	SRO	FGL		6-28-23 1730
4 th	GILS		6-28-23 1730	

LABORATORY USE ONLY

Logged In By: _____

Total Samples: _____

Laboratory No.: _____

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC
2. Were samples received in a chilled condition? Temps: 201 / 5.4 / / / /
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
5. VOAs checked for Headspace? Yes No N/A
6. Were sample custody seals intact? Yes No N/A
7. If required, was sample split for pH analysis? Yes No N/A
8. Were all analyses within holding times at time of receipt? Yes No
9. Verify sample date, time and sampler name Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): SRO

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 2 / 1 / 4 / 4 /
Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 559678763 / 7 / 691 / 694

3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
5. Were sample custody seals intact? Yes No N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Have rush or project due dates been checked and accepted? Yes No N/A
6. Were all analyses within holding times at time of receipt? Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials) CDA

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: N/A Phone Number: _____
Initiated By: CDA Date: _____

Problem: Sample 1 was unpreserved due to nature
Resolution: will preserve in lab okay to proceed

2. Person Contacted: _____ (4019696)
Initiated By: _____

Problem:

Resolution:

Sentry Ag Service
VI 2344346

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(Please use the back of this sheet for additional contacts)



UI 2344346