

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:** Shein Ranch

Physical address of dairy:

13668 13 AVE
Number and StreetMadera
CityMadera
County93637
Zip Code

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

Date facility was originally placed in operation: 08/20/2003Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0043-0053-0002-0000	0043-0094-0002-0000	0043-0095-0005-0000	0043-0096-0001-0000	0043-0096-0005-0000	0043-0101-0001-0000
0043-0101-0002-0000	0045-0041-0001-0000				

B. OPERATORS

Houweling, Len

Operator name: Houweling, LenTelephone no.: (559) 664-0940

Landline Cellular

13668 Avenue 13
Mailing Address Number and StreetMadera
CityCA 93637
State Zip Code

VanderMeulen, Theo

Operator name: VanderMeulen, TheoTelephone no.: (559) 664-0940

Landline Cellular

14221 Ave 14
Mailing Address Number and StreetMadera
CityCA 93637
State Zip Code**C. OWNERS**

Diepersloot, Robert

Legal owner name: Diepersloot, RobertTelephone no.: (559) 664-0940

Landline Cellular

14221 Avenue 13
Mailing Address Number and StreetMadera
CityCA 93637
State Zip Code**This owner is responsible for paying permit fees.**

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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	400	200	0	0	0
Number under roof	7,200	0	0	0	0	0
Maximum number	7,200	400	200	0	0	0
Average number	7,200	400	200	0	0	0
Avg live weight (lbs)	1,400	1,400	1,000	0		

Predominant milk cow breed: Holstein

Average milk production: 85 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 205,297.78 tons per reporting period

Total nitrogen from manure: 2,672,438.40 lbs per reporting period

After ammonia losses (30% loss applied): 1,870,706.88 lbs per reporting period

Total phosphorus from manure: 452,120.07 lbs per reporting period

Total potassium from manure: 1,449,822.43 lbs per reporting period

Total salt from manure: 3,482,100.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 172,569,751 gallons

Total nitrogen generated: 843,277.53 lbs

Total phosphorus generated: 79,762.20 lbs

Total potassium generated: 683,712.86 lbs

Total salt generated: 5,892,225.98 lbs

172,569,751 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 172,569,751 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
1	Ground water
12	Ground water
14	Ground water
18	Ground water
20	Ground water

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Source Description	Type
25	Ground water
26	Ground water
27	Ground water
32	Ground water
38	Ground water
4	Ground water
40	Ground water
46	Ground water
5	Ground water
58	Ground water
59	Ground water
60	Ground water
62	Ground water
63	Ground water
64	Ground water
65	Ground water
8	Ground water
D21	Ground water
D33	Ground water
D35	Ground water
M.I.D Water	Surface 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.

Date	Material type / Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
03/01/2023	Liquid commercial fertilizer UN32	8,000.00 gal			32.000000	0.000000	0.000000	0.000000

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Commercial fertilizer / Other	21,363.20	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00

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Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Process wastewater	0.00	0.00	0.00	0.00
Total imports for all materials	21,363.20	0.00	0.00	0.00

G. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/21/2023	Compost	150.00 <i>ton</i>	Dry-weight	60.3		29,300.00	13,200.00	5,940.00		53.30
11/21/2023	Compost	150.00 <i>ton</i>	Dry-weight	60.3		29,300.00	13,200.00	5,940.00		53.30
11/21/2023	Compost	150.00 <i>ton</i>	Dry-weight	60.3		29,300.00	13,200.00	5,940.00		53.30
11/21/2023	Compost	150.00 <i>ton</i>	Dry-weight	60.3		29,300.00	13,200.00	5,940.00		53.30
11/29/2023	Compost	75.00 <i>ton</i>	Dry-weight	60.3		29,300.00	13,200.00	5,940.00		53.30

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	15,703.34	7,074.54	3,183.54	285,661.35
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	15,703.34	7,074.54	3,183.54	285,661.35

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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
20	80	80	2	process wastewater	0043-0101-0001-0000
21	66	66	2	process wastewater	0043-0101-0001-0000
22	75	75	2	process wastewater	0043-0101-0001-0000
23	36	36	2	process wastewater	0043-0101-0001-0000
24	116	116	2	process wastewater	0043-0095-0005-0000
25	60	60	2	process wastewater	0043-0095-0005-0000
26	86	86	2	process wastewater	0043-0095-0005-0000
27	118	118	2	process wastewater	0043-0095-0005-0000
29	36	36	2	process wastewater	0043-0096-0001-0000
30	40	40	2	process wastewater	0043-0096-0001-0000
31	58	58	2	process wastewater	0043-0094-0002-0000
32/33	71	71	1	manure	0043-0053-0002-0000
34/35	195	195	1	manure	0043-0054-0002-0000
37	75	75	2	process wastewater	0042-0054-0002-0000
38	75	75	2	process wastewater	0043-0054-0002-0000
39	74	74	2	process wastewater	0043-0054-0002-0000
40	79	79	2	process wastewater	0043-0054-0002-0000
41	75	75	2	process wastewater	0043-0054-0002-0000
42	79	79	2	process wastewater	0043-0054-0002-0000
45	20	20	2	process wastewater	0043-0094-0001-0000
46	40	40	2	process wastewater	0043-0096-0004-0000
47	41	41	2	process wastewater	0043-0096-0004-0000
48	40	40	2	process wastewater	0043-0096-0004-0000
49	41	41	2	process wastewater	0043-0096-0004-0000
Houweling	31	31	1	manure	0045-0041-0001-0000
Totals for areas that were used for application	1,707	1,707	47		
Totals for areas that were not used for application					
Land application area totals	1,707	1,707	47		

B. CROPS AND HARVESTS

20
Field name: <u>20</u>

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20

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

Crop: Wheat, silage, soft dough Acres planted: 80 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 (%)
05/13/2023	1,849.00 ton	Dry-weight		65.8	14,200.00	2,220.00	15,000.00		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	0.00
Total actual harvest content	23.11	224.49	35.10	237.13	1,612.51

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	2,514.00 ton	Dry-weight		70.6	7,410.00	1,230.00	11,800.00		6.36

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	31.43	136.92	22.73	218.04	1,175.19

21

Field name: 21

11/24/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 66 Plant date: 11/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/18/2023	1,640.00 ton	Dry-weight		46.6	14,900.00	2,320.00	18,000.00		9.50

	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	0.00
Total actual harvest content	24.85	395.42	61.57	477.69	2,521.13

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05/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 66 Plant date: 05/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/01/2023	2,154.00 ton	Dry-weight		68.2	13,500.00	1,680.00	11,900.00		5.85

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	32.64	280.22	34.87	247.01	1,214.27

22

Field name: 22

10/27/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 75 Plant date: 10/27/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,812.00 ton	Dry-weight		68.4	18,100.00	2,620.00	17,600.00		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	0.00
Total actual harvest content	24.16	276.37	40.01	268.74	1,649.06

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	2,520.00 ton	Dry-weight		68.2	13,500.00	1,680.00	11,900.00		5.85

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	33.60	288.49	35.90	254.30	1,250.12

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23

Field name: 23

10/27/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 10/27/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	730.00 <i>ton</i>	Dry-weight		70.0	20,100.00	2,730.00	17,600.00		12.00

	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	0.00
Total actual harvest content	20.28	244.55	33.22	214.13	1,460.00

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	1,210.00 <i>ton</i>	Dry-weight		73.4	10,800.00	2,220.00	13,800.00		6.19

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	33.61	193.12	39.70	246.76	1,106.84

24

Field name: 24

11/03/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 116 Plant date: 11/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	2,802.00 <i>ton</i>	Dry-weight		71.0	20,000.00	2,640.00	17,700.00		10.50

	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	0.00
Total actual harvest content	24.16	280.20	36.99	247.98	1,471.05

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24

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 116 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	4,094.00 ton	Dry-weight		72.0	11,600.00	2,000.00	13,100.00		6.44

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	35.29	229.26	39.53	258.91	1,272.81

25

Field name: 25

11/29/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 60 Plant date: 11/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	1,471.00 ton	Dry-weight		66.0	19,400.00	3,090.00	21,000.00		10.60

	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	0.00
Total actual harvest content	24.52	323.42	51.51	350.10	1,767.16

07/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 60 Plant date: 07/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/18/2023	2,120.00 ton	Dry-weight		72.0	9,210.00	1,700.00	12,200.00		1.22

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	35.33	182.24	33.64	241.40	241.40

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26

Field name: 26

10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 86 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	1,988.00 <i>ton</i>	Dry-weight		64.2	15,700.00	2,150.00	16,500.00		10.90

	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	0.00
Total actual harvest content	23.12	259.85	35.59	273.10	1,804.09

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 86 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 (%)
10/03/2023	2,786.00 <i>ton</i>	Dry-weight		69.0	9,910.00	1,500.00	11,900.00		4.56

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	32.40	199.04	30.13	239.01	915.88

27

Field name: 27

11/21/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 118 Plant date: 11/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	2,952.00 <i>ton</i>	Dry-weight		50.2	27,800.00	3,380.00	32,000.00		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	0.00
Total actual harvest content	25.02	692.69	84.22	797.34	3,164.44

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27

05/27/2023: Corn, silage

Crop: Corn, silage Acres planted: 118 Plant date: 05/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/09/2023	4,242.00 ton	Dry-weight		71.0	22,000.00	1,870.00	13,330.00		5.13

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	35.95	458.71	38.99	277.94	1,069.63

29

Field name: 29

11/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 11/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	831.00 ton	Dry-weight		74.0	32,100.00	3,700.00	35,600.00		12.80

	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	0.00
Total actual harvest content	23.08	385.31	44.41	427.32	1,536.43

05/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 05/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/06/2023	1,124.00 ton	Dry-weight		67.6	11,140.00	1,380.00	15,200.00		6.15

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	31.22	225.38	27.92	307.53	1,244.27

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30

Field name: 30

11/29/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 40 Plant date: 11/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	894.00 ton	Dry-weight		81.8	28,900.00	3,700.00	30,700.00		11.80

	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	0.00
Total actual harvest content	22.35	235.11	30.10	249.76	959.98

05/27/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 05/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/06/2023	1,321.00 ton	Dry-weight		73.4	12,500.00	1,810.00	14,300.00		6.61

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	33.03	219.62	31.80	251.24	1,161.33

31

Field name: 31

10/24/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 58 Plant date: 10/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	1,353.00 ton	Dry-weight		66.6	20,050.00	2,680.00	20,010.00		9.98

	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	0.00
Total actual harvest content	23.33	312.44	41.76	311.81	1,555.17

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31

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 58 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 (%)
10/10/2023	1,986.00 ton	Dry-weight		70.2	14,300.00	1,650.00	13,300.00		6.19

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	34.24	291.83	33.67	271.42	1,263.25

32/33

Field name: 32/33

04/03/2018: Almond, in shell

Crop: Almond, in shell Acres planted: 71 Plant date: 04/03/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	115.00 ton	Dry-weight		15.4	16,400.00	2,940.00	48,800.00		15.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	195.00	30.00	150.00	0.00
Total actual harvest content	1.62	44.95	8.06	133.74	424.79

34/35

Field name: 34/35

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34/35

04/01/2018: Almond, in shell

Crop: Almond, in shell Acres planted: 195 Plant date: 04/01/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	340.00 ton	Dry-weight		14.8	10,800.00	2,010.00	52,600.00		15.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	195.00	30.00	150.00	0.00
Total actual harvest content	1.74	32.09	5.97	156.28	457.55

37

Field name: 37

10/20/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 75 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/22/2023	1,680.00 ton	Dry-weight		67.6	19,980.00	2,690.00	19,000.00		9.56

	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	0.00
Total actual harvest content	22.40	290.01	39.05	275.79	1,387.65

05/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 05/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/10/2023	2,542.00 ton	Dry-weight		71.0	11,400.00	2,320.00	12,500.00		6.19

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	33.89	224.10	45.61	245.73	1,216.84

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38

Field name: 38

10/24/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 75 Plant date: 10/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	1,772.00 ton	Dry-weight		71.0	23,500.00	3,160.00	22,600.00		12.00

	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	0.00
Total actual harvest content	23.63	322.03	43.30	309.70	1,644.42

05/19/2023: Corn, silage

Crop: Corn, silage

Acres planted: 75 Plant date: 05/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/02/2023	2,416.00 ton	Dry-weight		72.8	10,800.00	2,030.00	13,800.00		7.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	32.21	189.26	35.57	241.83	1,366.88

39

Field name: 39

11/05/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 74 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/07/2023	1,586.00 ton	Dry-weight		62.6	12,600.00	1,740.00	9,840.00		7.65

	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	0.00
Total actual harvest content	21.43	202.00	27.89	157.75	1,226.41

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39

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 74 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 (%)
09/24/2023	2,560.00 ton	Dry-weight		72.6	10,800.00	1,760.00	14,500.00		6.37

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	34.59	204.74	33.37	274.89	1,207.61

40

Field name: 40

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

Crop: Wheat, silage, soft dough Acres planted: 79 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 (%)
05/12/2023	1,790.00 ton	Dry-weight		70.4	15,300.00	3,030.00	24,000.00		12.60

	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	0.00
Total actual harvest content	22.66	205.23	40.64	321.93	1,690.12

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 79 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,642.00 ton	Dry-weight		64.6	11,300.00	1,870.00	12,200.00		6.27

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	33.44	267.56	44.28	288.87	1,484.59

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41

Field name: 41

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 75 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/14/2023	1,702.00 ton	Dry-weight		61.4	15,000.00	1,950.00	13,700.00		10.60

	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	0.00
Total actual harvest content	22.69	262.79	34.16	240.01	1,857.04

06/19/2023: Corn, silage

Crop: Corn, silage

Acres planted: 75 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 (%)
10/11/2023	2,521.00 ton	Dry-weight		75.8	13,000.00	2,110.00	16,900.00		7.66

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	33.61	211.50	34.33	274.94	1,246.19

42

Field name: 42

11/29/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 79 Plant date: 11/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	1,776.00 ton	Dry-weight		71.8	16,600.00	2,430.00	17,100.00		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	0.00
Total actual harvest content	22.48	210.48	30.81	216.82	1,369.36

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42

06/23/2023: Corn, silage

Crop: Corn, silage Acres planted: 79 Plant date: 06/23/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/11/2023	2,642.00 ton	Dry-weight		76.6	10,900.00	1,650.00	18,600.00		8.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	33.44	170.60	25.82	291.11	1,361.67

45

Field name: 45

10/24/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 20 Plant date: 10/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	463.00 ton	Dry-weight		72.2	19,700.00	2,770.00	18,000.00		11.30

	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	0.00
Total actual harvest content	23.15	253.57	35.65	231.69	1,454.47

05/31/2023: Corn, silage

Crop: Corn, silage Acres planted: 20 Plant date: 05/31/2023

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	656.00 ton	Dry-weight		72.8	11,000.00	2,030.00	14,100.00		6.11

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	32.80	196.28	36.22	251.59	1,090.22

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46

Field name: 46

11/24/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 40 Plant date: 11/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	735.00 ton	Dry-weight		62.6	20,080.00	2,360.00	17,100.00		8.59

	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	0.00
Total actual harvest content	18.38	275.99	32.44	235.03	1,180.65

06/23/2023: Corn, silage

Crop: Corn, silage

Acres planted: 40 Plant date: 06/23/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	1,471.00 ton	Dry-weight		71.2	11,230.00	1,880.00	12,400.00		5.34

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	36.78	237.88	39.82	262.66	1,131.14

47

Field name: 47

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

Crop: Wheat, silage, soft dough

Acres planted: 41 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 (%)
05/13/2023	920.00 ton	Dry-weight		66.0	17,800.00	2,330.00	16,600.00		9.80

	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	0.00
Total actual harvest content	22.44	271.60	35.55	253.29	1,495.34

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47

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 41 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 (%)
10/10/2023	1,165.00 ton	Dry-weight		71.2	11,250.00	1,670.00	14,400.00		6.21

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	28.41	184.13	27.33	235.68	1,016.38

48

Field name: 48

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

Crop: Wheat, silage, soft dough Acres planted: 40 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 (%)
05/10/2023	1,026.00 ton	Dry-weight		72.6	17,600.00	3,170.00	22,000.00		14.30

	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	0.00
Total actual harvest content	25.65	247.39	44.56	309.24	2,010.04

06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	1,298.00 ton	Dry-weight		71.0	11,200.00	1,920.00	14,900.00		7.33

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	32.45	210.80	36.14	280.43	1,379.58

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49

Field name: 49

11/03/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 41 Plant date: 11/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	965.00 ton	Dry-weight		70.0	21,200.00	3,050.00	21,000.00		13.10

	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	0.00
Total actual harvest content	23.54	299.39	43.07	296.56	1,849.98

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 41 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	1,402.00 ton	Dry-weight		73.0	12,200.00	2,100.00	14,000.00		6.18

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	32.00	256.00	48.00	211.20	0.00
Total actual harvest content	34.20	225.28	38.78	258.52	1,141.16

Houweling

Field name: Houweling

04/01/2018: Almond, in shell

Crop: Almond, in shell Acres planted: 31 Plant date: 04/01/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	49.60 ton	Dry-weight		15.0	13,900.00	2,620.00	54,300.00		16.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	195.00	30.00	150.00	0.00
Total actual harvest content	1.60	37.81	7.13	147.70	446.08

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NUTRIENT BUDGET

A. LAND APPLICATIONS

20 - 11/11/2022: Wheat, silage, soft dough

Field name: 20

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		
01/08/2023	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
M.I.D Water	Surface water	0.73	0.00	0.00	160.64	14,000,000.00 <i>gal</i>
Application event totals		0.73	0.00	0.00	160.64	
02/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	290.73	26.79	254.98	2,373.49	4,569,000.00 <i>gal</i>
Application event totals		290.73	26.79	254.98	2,373.49	
03/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.34	0.00	0.00	75.30	6,562,500.00 <i>gal</i>
Application event totals		0.34	0.00	0.00	75.30	
03/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.40	0.00	0.00	88.47	7,710,000.00 <i>gal</i>
Application event totals		0.40	0.00	0.00	88.47	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	1.00	0.00	0.00	220.48	19,215,000.00 <i>gal</i>
Application event totals		1.00	0.00	0.00	220.48	

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20 - 06/21/2023: Corn, silage

Field name: 20

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.49	0.00	0.00	107.22	9,344,000.00 <i>gal</i>
Application event totals		0.49	0.00	0.00	107.22	
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
M.I.D Water	Surface water	0.55	0.00	0.00	122.09	10,640,000.00 <i>gal</i>
Application event totals		0.55	0.00	0.00	122.09	
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
20	Ground water	2.19	0.00	0.00	107.91	6,465,720.00 <i>gal</i>
Application event totals		2.19	0.00	0.00	107.91	
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
65	Ground water	10.69	0.00	0.00	609.99	9,665,700.00 <i>gal</i>
Application event totals		10.69	0.00	0.00	609.99	
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
20	Ground water	1.79	0.00	0.00	88.38	5,295,180.00 <i>gal</i>
Application event totals		1.79	0.00	0.00	88.38	
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
65	Ground water	10.17	0.00	0.00	580.55	9,199,180.00 <i>gal</i>
Application event totals		10.17	0.00	0.00	580.55	

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

20 - 06/21/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
07/31/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	132.60	19.92	117.15	969.18	5,105,000.00 <i>gal</i>
Application event totals			132.60	19.92	117.15	969.18	
08/26/2023	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
65		Ground water	7.67	0.00	0.00	437.53	6,932,840.00 <i>gal</i>
Application event totals			7.67	0.00	0.00	437.53	
08/26/2023	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
20		Ground water	1.85	0.00	0.00	91.36	5,474,140.00 <i>gal</i>
Application event totals			1.85	0.00	0.00	91.36	
09/09/2023	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
65		Ground water	6.93	0.00	0.00	395.44	6,266,040.00 <i>gal</i>
Application event totals			6.93	0.00	0.00	395.44	

21 - 11/24/2022: Wheat, silage, soft dough

Field name: 21

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/08/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
8	Ground water	39.23	0.00	0.00	742.39	6,180,500.00 <i>gal</i>
Application event totals		39.23	0.00	0.00	742.39	

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

21 - 11/24/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
01/10/2023	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	
M.I.D Water		Surface water	0.41	0.00	0.00	89.71	6,450,000.00 <i>gal</i>	
Application event totals			0.41	0.00	0.00	89.71		
02/08/2023	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	
65		Ground water	9.81	0.00	0.00	559.95	7,320,000.00 <i>gal</i>	
Application event totals			9.81	0.00	0.00	559.95		
03/01/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Wastewater Application		Process wastewater	474.20	49.46	379.62	3,192.00	5,194,500.00 <i>gal</i>	
Application event totals			474.20	49.46	379.62	3,192.00		
04/10/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.69	0.00	0.00	152.37	10,955,000.00 <i>gal</i>	
Application event totals			0.69	0.00	0.00	152.37		

21 - 05/13/2023: Corn, silage

Field name: 21

Crop: Corn, silage

Plant date: 05/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
8	Ground water	30.47	0.00	0.00	576.61	4,800,408.00 <i>gal</i>
Application event totals		30.47	0.00	0.00	576.61	

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

21 - 05/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
65	Ground water	6.72	0.00	0.00	383.66	5,015,400.00 <i>gal</i>
Application event totals		6.72	0.00	0.00	383.66	
06/18/2023	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
65	Ground water	6.27	0.00	0.00	358.00	4,680,000.00 <i>gal</i>
Application event totals		6.27	0.00	0.00	358.00	
06/18/2023	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
20	Ground water	0.52	0.00	0.00	25.67	1,268,880.00 <i>gal</i>
Application event totals		0.52	0.00	0.00	25.67	
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
Wastewater Application	Process wastewater	174.73	26.25	154.38	1,277.16	5,550,000.00 <i>gal</i>
Application event totals		174.73	26.25	154.38	1,277.16	
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
65	Ground water	12.93	0.00	0.00	738.03	9,648,000.00 <i>gal</i>
Application event totals		12.93	0.00	0.00	738.03	
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
8	Ground water	22.42	0.00	0.00	424.37	3,532,980.00 <i>gal</i>
Application event totals		22.42	0.00	0.00	424.37	

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

21 - 05/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
07/20/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
65		Ground water	11.68	0.00	0.00	666.43	8,712,000.00 <i>gal</i>
Application event totals			11.68	0.00	0.00	666.43	
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
4		Ground water	36.85	0.00	0.00	767.80	4,857,960.00 <i>gal</i>
Application event totals			36.85	0.00	0.00	767.80	
08/08/2023	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
M.I.D Water		Surface water	0.16	0.00	0.00	35.76	2,571,429.00 <i>gal</i>
Application event totals			0.16	0.00	0.00	35.76	
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
4		Ground water	34.27	0.00	0.00	713.96	4,517,340.00 <i>gal</i>
Application event totals			34.27	0.00	0.00	713.96	
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
20		Ground water	0.73	0.00	0.00	35.86	1,772,700.00 <i>gal</i>
Application event totals			0.73	0.00	0.00	35.86	
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
65		Ground water	6.88	0.00	0.00	392.64	5,132,820.00 <i>gal</i>
Application event totals			6.88	0.00	0.00	392.64	

22 - 10/27/2022: Wheat, silage, soft dough

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

22 - 10/27/2022: Wheat, silage, soft dough

Field name: 22

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
10/04/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
8		Ground water	36.17	0.00	0.00	900.56	6,475,000.00 <i>gal</i>
Application event totals			36.17	0.00	0.00	900.56	
12/15/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	325.44	33.94	260.53	2,190.60	4,051,000.00 <i>gal</i>
Application event totals			325.44	33.94	260.53	2,190.60	
02/10/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.95	0.00	0.00	208.19	17,010,000.00 <i>gal</i>
Application event totals			0.95	0.00	0.00	208.19	
03/28/2023	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
M.I.D Water		Surface water	0.89	0.00	0.00	195.34	15,960,000.00 <i>gal</i>
Application event totals			0.89	0.00	0.00	195.34	
04/08/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.24	0.00	0.00	52.69	4,305,000.00 <i>gal</i>
Application event totals			0.24	0.00	0.00	52.69	
04/27/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.48	0.00	0.00	106.67	8,715,000.00 <i>gal</i>
Application event totals			0.48	0.00	0.00	106.67	

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

22 - 06/13/2023: Corn, silage

Field name: 22

Crop: Corn, silage

Plant date: 06/13/2023

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
65	Ground water	13.29	0.00	0.00	758.35	11,265,540.00 <i>gal</i>
Application event totals		13.29	0.00	0.00	758.35	
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
46	Ground water	7.44	0.00	0.00	524.86	7,201,680.00 <i>gal</i>
Application event totals		7.44	0.00	0.00	524.86	
07/25/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
46	Ground water	9.50	0.00	0.00	670.55	9,200,736.00 <i>gal</i>
Application event totals		9.50	0.00	0.00	670.55	
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
Wastewater Application	Process wastewater	223.26	12.76	73.86	525.99	2,514,500.00 <i>gal</i>
Application event totals		223.26	12.76	73.86	525.99	
08/08/2023	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
M.I.D Water	Surface water	0.59	0.00	0.00	129.74	10,600,000.00 <i>gal</i>
Application event totals		0.59	0.00	0.00	129.74	

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22 - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
4	Ground water	33.14	0.00	0.00	690.32	4,963,320.00 <i>gal</i>
Application event totals		33.14	0.00	0.00	690.32	
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
20	Ground water	0.68	0.00	0.00	33.55	1,884,660.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	33.55	
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
Wastewater Application	Process wastewater	57.41	8.62	50.72	419.59	2,072,000.00 <i>gal</i>
Application event totals		57.41	8.62	50.72	419.59	
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
65	Ground water	9.77	0.00	0.00	557.38	8,280,000.00 <i>gal</i>
Application event totals		9.77	0.00	0.00	557.38	
09/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.64	0.00	0.00	141.31	11,545,714.00 <i>gal</i>
Application event totals		0.64	0.00	0.00	141.31	

23 - 10/27/2022: Wheat, silage, soft dough

Field name: 23

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022

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

23 - 10/27/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
12/05/2022	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	
Wastewater Application		Process wastewater	156.35	12.64	135.25	1,083.91	1,034,500.00 <i>gal</i>	
Application event totals			156.35	12.64	135.25	1,083.91		
02/10/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.66	0.00	0.00	144.58	5,670,000.00 <i>gal</i>	
Application event totals			0.66	0.00	0.00	144.58		
03/19/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	1.70	0.00	0.00	374.83	14,700,000.00 <i>gal</i>	
Application event totals			1.70	0.00	0.00	374.83		
04/24/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Wastewater Application		Process wastewater	164.82	9.42	54.53	388.29	891,000.00 <i>gal</i>	
Application event totals			164.82	9.42	54.53	388.29		

23 - 06/07/2023: Corn, silage

Field name: 23

Crop: Corn, silage

Plant date: 06/07/2023

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
M.I.D Water	Surface water	0.43	0.00	0.00	93.83	3,680,000.00 <i>gal</i>
Application event totals		0.43	0.00	0.00	93.83	

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

23 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following																					
06/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>M.I.D Water</td><td>Surface water</td><td>0.41</td><td>0.00</td><td>0.00</td><td>90.47</td><td>3,548,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.41</td><td>0.00</td><td>0.00</td><td>90.47</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	M.I.D Water	Surface water	0.41	0.00	0.00	90.47	3,548,000.00 <i>gal</i>	Application event totals		0.41	0.00	0.00	90.47	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
M.I.D Water	Surface water	0.41	0.00	0.00	90.47	3,548,000.00 <i>gal</i>																			
Application event totals		0.41	0.00	0.00	90.47																				
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Lagoon</td><td>Process wastewater</td><td>181.82</td><td>27.31</td><td>160.64</td><td>1,328.94</td><td>3,150,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>181.82</td><td>27.31</td><td>160.64</td><td>1,328.94</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	Lagoon	Process wastewater	181.82	27.31	160.64	1,328.94	3,150,000.00 <i>gal</i>	Application event totals		181.82	27.31	160.64	1,328.94	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
Lagoon	Process wastewater	181.82	27.31	160.64	1,328.94	3,150,000.00 <i>gal</i>																			
Application event totals		181.82	27.31	160.64	1,328.94																				
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>20</td><td>Ground water</td><td>1.07</td><td>0.00</td><td>0.00</td><td>53.01</td><td>1,429,180.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>1.07</td><td>0.00</td><td>0.00</td><td>53.01</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	20	Ground water	1.07	0.00	0.00	53.01	1,429,180.00 <i>gal</i>	Application event totals		1.07	0.00	0.00	53.01	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
20	Ground water	1.07	0.00	0.00	53.01	1,429,180.00 <i>gal</i>																			
Application event totals		1.07	0.00	0.00	53.01																				
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>65</td><td>Ground water</td><td>7.86</td><td>0.00</td><td>0.00</td><td>448.76</td><td>3,199,880.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>7.86</td><td>0.00</td><td>0.00</td><td>448.76</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	65	Ground water	7.86	0.00	0.00	448.76	3,199,880.00 <i>gal</i>	Application event totals		7.86	0.00	0.00	448.76	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
65	Ground water	7.86	0.00	0.00	448.76	3,199,880.00 <i>gal</i>																			
Application event totals		7.86	0.00	0.00	448.76																				
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>4</td><td>Ground water</td><td>11.51</td><td>0.00</td><td>0.00</td><td>239.69</td><td>827,220.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>11.51</td><td>0.00</td><td>0.00</td><td>239.69</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	4	Ground water	11.51	0.00	0.00	239.69	827,220.00 <i>gal</i>	Application event totals		11.51	0.00	0.00	239.69	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
4	Ground water	11.51	0.00	0.00	239.69	827,220.00 <i>gal</i>																			
Application event totals		11.51	0.00	0.00	239.69																				
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>20</td><td>Ground water</td><td>2.55</td><td>0.00</td><td>0.00</td><td>125.80</td><td>3,391,860.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>2.55</td><td>0.00</td><td>0.00</td><td>125.80</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	20	Ground water	2.55	0.00	0.00	125.80	3,391,860.00 <i>gal</i>	Application event totals		2.55	0.00	0.00	125.80	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
20	Ground water	2.55	0.00	0.00	125.80	3,391,860.00 <i>gal</i>																			
Application event totals		2.55	0.00	0.00	125.80																				

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

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

23 - 06/07/2023: 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	
65		Ground water	6.88	0.00	0.00	392.65	2,799,820.00 <i>gal</i>	
Application event totals			6.88	0.00	0.00	392.65		
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	
20		Ground water	1.10	0.00	0.00	54.09	1,458,360.00 <i>gal</i>	
Application event totals			1.10	0.00	0.00	54.09		
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	
65		Ground water	8.68	0.00	0.00	495.47	3,532,980.00 <i>gal</i>	
Application event totals			8.68	0.00	0.00	495.47		
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	
65		Ground water	8.12	0.00	0.00	463.36	3,304,000.00 <i>gal</i>	
Application event totals			8.12	0.00	0.00	463.36		
09/15/2023	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	
65		Ground water	7.70	0.00	0.00	439.40	3,133,120.00 <i>gal</i>	
Application event totals			7.70	0.00	0.00	439.40		

24 - 11/03/2022: Wheat, silage, soft dough

Field name: 24

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Annual Report - General Order No. R5-2007-0035

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

24 - 11/03/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
10/12/2022	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
63		Ground water	2.17	0.00	0.00	266.27	16,450,000.00 <i>gal</i>
Application event totals			2.17	0.00	0.00	266.27	
01/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.50	0.00	0.00	109.68	13,860,000.00 <i>gal</i>
Application event totals			0.50	0.00	0.00	109.68	
02/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	369.56	38.54	295.85	2,487.59	7,115,000.00 <i>gal</i>
Application event totals			369.56	38.54	295.85	2,487.59	
03/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.38	0.00	0.00	84.48	10,675,000.00 <i>gal</i>
Application event totals			0.38	0.00	0.00	84.48	
03/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.31	0.00	0.00	68.13	8,610,000.00 <i>gal</i>
Application event totals			0.31	0.00	0.00	68.13	
04/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.38	0.00	0.00	84.09	10,626,000.00 <i>gal</i>
Application event totals			0.38	0.00	0.00	84.09	

24 - 06/07/2023: Corn, silage

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

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

24 - 06/07/2023: Corn, silage

Field name: 24

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/18/2023	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
18		Ground water	25.51	0.00	0.00	628.65	8,402,520.00 <i>gal</i>
Application event totals			25.51	0.00	0.00	628.65	
06/23/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
8		Ground water	22.99	0.00	0.00	435.14	6,367,080.00 <i>gal</i>
Application event totals			22.99	0.00	0.00	435.14	
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
4		Ground water	24.40	0.00	0.00	508.38	5,653,424.00 <i>gal</i>
Application event totals			24.40	0.00	0.00	508.38	
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
8		Ground water	22.58	0.00	0.00	427.29	6,252,210.00 <i>gal</i>
Application event totals			22.58	0.00	0.00	427.29	
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
4		Ground water	20.87	0.00	0.00	434.85	4,835,736.00 <i>gal</i>
Application event totals			20.87	0.00	0.00	434.85	
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
8		Ground water	28.45	0.00	0.00	538.32	7,876,800.00 <i>gal</i>
Application event totals			28.45	0.00	0.00	538.32	

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

24 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
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
65		Ground water	5.16	0.00	0.00	294.57	6,768,000.00 <i>gal</i>
Application event totals			5.16	0.00	0.00	294.57	
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
Wastewater Application		Process wastewater	116.67	17.52	103.08	852.75	6,513,000.00 <i>gal</i>
Application event totals			116.67	17.52	103.08	852.75	
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
8		Ground water	18.02	0.00	0.00	340.94	4,988,640.00 <i>gal</i>
Application event totals			18.02	0.00	0.00	340.94	
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
8		Ground water	19.68	0.00	0.00	372.34	5,448,120.00 <i>gal</i>
Application event totals			19.68	0.00	0.00	372.34	
08/31/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.92	0.00	0.00	201.55	25,470,000.00 <i>gal</i>
Application event totals			0.92	0.00	0.00	201.55	
09/13/2023	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
M.I.D Water		Surface water	0.62	0.00	0.00	136.27	17,220,000.00 <i>gal</i>
Application event totals			0.62	0.00	0.00	136.27	

25 - 11/29/2022: Wheat, silage, soft dough

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

25 - 11/29/2022: Wheat, silage, soft dough

Field name: 25

Crop: Wheat, silage, soft dough

Plant date: 11/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/25/2022	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
58	Ground water	10.17	0.00	0.00	690.03	9,450,000.00 <i>gal</i>
Application event totals		10.17	0.00	0.00	690.03	
02/08/2023	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
Wastewater Application	Process wastewater	426.43	34.47	368.88	2,956.26	4,702,500.00 <i>gal</i>
Application event totals		426.43	34.47	368.88	2,956.26	
03/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.68	0.00	0.00	149.01	9,740,000.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	149.01	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.82	0.00	0.00	179.46	11,730,000.00 <i>gal</i>
Application event totals		0.82	0.00	0.00	179.46	

25 - 07/03/2023: Corn, silage

Field name: 25

Crop: Corn, silage

Plant date: 07/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Annual Report - General Order No. R5-2007-0035

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

25 - 07/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
M.I.D Water	Surface water	0.50	0.00	0.00	109.85	7,180,000.00 <i>gal</i>
Application event totals		0.50	0.00	0.00	109.85	
07/29/2023	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
M.I.D Water	Surface water	0.54	0.00	0.00	117.80	7,700,000.00 <i>gal</i>
Application event totals		0.54	0.00	0.00	117.80	
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
46	Ground water	5.97	0.00	0.00	421.57	4,627,620.00 <i>gal</i>
Application event totals		5.97	0.00	0.00	421.57	
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
58	Ground water	7.58	0.00	0.00	514.16	7,041,512.00 <i>gal</i>
Application event totals		7.58	0.00	0.00	514.16	
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
Wastewater Application	Process wastewater	200.94	11.48	66.48	473.40	1,810,500.00 <i>gal</i>
Application event totals		200.94	11.48	66.48	473.40	
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
M.I.D Water	Surface water	0.32	0.00	0.00	69.79	4,562,000.00 <i>gal</i>
Application event totals		0.32	0.00	0.00	69.79	

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

25 - 07/03/2023: 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
58		Ground water	6.37	0.00	0.00	432.34	5,920,980.00 <i>gal</i>
Application event totals			6.37	0.00	0.00	432.34	
09/19/2023	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
M.I.D Water		Surface water	0.62	0.00	0.00	136.28	8,908,000.00 <i>gal</i>
Application event totals			0.62	0.00	0.00	136.28	
09/28/2023	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
63		Ground water	1.79	0.00	0.00	220.21	7,036,860.00 <i>gal</i>
Application event totals			1.79	0.00	0.00	220.21	

26 - 10/31/2022: Wheat, silage, soft dough

Field name: 26

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/10/2022	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
Wastewater Application	Process wastewater	343.48	27.76	297.12	2,381.15	5,429,000.00 <i>gal</i>
Application event totals		343.48	27.76	297.12	2,381.15	
12/07/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.58	0.00	0.00	128.41	12,030,000.00 <i>gal</i>
Application event totals		0.58	0.00	0.00	128.41	

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

26 - 10/31/2022: 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)	Amount
M.I.D Water		Surface water	0.59	0.00	0.00	129.47	12,130,000.00 <i>gal</i>
Application event totals			0.59	0.00	0.00	129.47	
03/22/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.60	0.00	0.00	131.39	12,310,000.00 <i>gal</i>
Application event totals			0.60	0.00	0.00	131.39	
04/22/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.61	0.00	0.00	134.70	12,620,000.00 <i>gal</i>
Application event totals			0.61	0.00	0.00	134.70	

26 - 06/14/2023: Corn, silage

Field name: 26

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/18/2023	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
62		Ground water	7.44	0.00	0.00	518.41	11,741,800.00 <i>gal</i>
Application event totals			7.44	0.00	0.00	518.41	
06/23/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.56	0.00	0.00	122.17	11,445,680.00 <i>gal</i>
Application event totals			0.56	0.00	0.00	122.17	

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26 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Lagoon	Process wastewater	233.08	13.32	77.11	549.10	3,010,000.00 <i>gal</i>
Application event totals		233.08	13.32	77.11	549.10	
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
M.I.D Water	Surface water	0.30	0.00	0.00	65.97	6,180,500.00 <i>gal</i>
Application event totals		0.30	0.00	0.00	65.97	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.56	0.00	0.00	123.60	11,580,000.00 <i>gal</i>
Application event totals		0.56	0.00	0.00	123.60	
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
46	Ground water	8.85	0.00	0.00	624.69	9,828,720.00 <i>gal</i>
Application event totals		8.85	0.00	0.00	624.69	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
62	Ground water	6.63	0.00	0.00	461.99	10,464,000.00 <i>gal</i>
Application event totals		6.63	0.00	0.00	461.99	
09/16/2023	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
M.I.D Water	Surface water	0.53	0.00	0.00	117.43	11,001,280.00 <i>gal</i>
Application event totals		0.53	0.00	0.00	117.43	

27 - 11/21/2022: Wheat, silage, soft dough

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

27 - 11/21/2022: Wheat, silage, soft dough

Field name: 27

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
10/12/2022	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
Wastewater Application		Process wastewater	323.21	26.12	279.58	2,240.63	7,009,500.00 <i>gal</i>
Application event totals			323.21	26.12	279.58	2,240.63	
10/12/2022	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
62		Ground water	5.84	0.00	0.00	407.05	12,650,000.00 <i>gal</i>
Application event totals			5.84	0.00	0.00	407.05	
01/23/2023	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
M.I.D Water		Surface water	0.64	0.00	0.00	141.12	18,140,000.00 <i>gal</i>
Application event totals			0.64	0.00	0.00	141.12	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.24	0.00	0.00	51.87	6,667,500.00 <i>gal</i>
Application event totals			0.24	0.00	0.00	51.87	
03/08/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
62		Ground water	5.09	0.00	0.00	354.60	11,020,000.00 <i>gal</i>
Application event totals			5.09	0.00	0.00	354.60	
04/11/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.52	0.00	0.00	114.43	14,710,000.00 <i>gal</i>
Application event totals			0.52	0.00	0.00	114.43	

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27 - 11/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	391.27	40.81	313.24	2,633.78	7,663,000.00 <i>gal</i>
Application event totals		391.27	40.81	313.24	2,633.78	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.34	0.00	0.00	75.56	9,712,500.00 <i>gal</i>
Application event totals		0.34	0.00	0.00	75.56	

27 - 05/27/2023: Corn, silage

Field name: 27

Crop: Corn, silage

Plant date: 05/27/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
63	Ground water	0.94	0.00	0.00	115.78	7,276,200.00 <i>gal</i>
Application event totals		0.94	0.00	0.00	115.78	
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
58	Ground water	12.49	0.00	0.00	847.32	22,821,480.00 <i>gal</i>
Application event totals		12.49	0.00	0.00	847.32	
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
58	Ground water	3.70	0.00	0.00	250.80	6,754,920.00 <i>gal</i>
Application event totals		3.70	0.00	0.00	250.80	

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27 - 05/27/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
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
Wastewater Application		Process wastewater	399.32	36.99	350.22	3,260.02	9,256,500.00 <i>gal</i>
Application event totals			399.32	36.99	350.22	3,260.02	
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
M.I.D Water		Surface water	0.39	0.00	0.00	86.12	11,070,000.00 <i>gal</i>
Application event totals			0.39	0.00	0.00	86.12	
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
M.I.D Water		Surface water	0.39	0.00	0.00	84.84	10,905,840.00 <i>gal</i>
Application event totals			0.39	0.00	0.00	84.84	
07/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
58		Ground water	4.49	0.00	0.00	304.83	8,210,160.00 <i>gal</i>
Application event totals			4.49	0.00	0.00	304.83	
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
M.I.D Water		Surface water	0.53	0.00	0.00	117.42	15,094,286.00 <i>gal</i>
Application event totals			0.53	0.00	0.00	117.42	
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
62		Ground water	5.10	0.00	0.00	355.04	11,033,760.00 <i>gal</i>
Application event totals			5.10	0.00	0.00	355.04	

29 - 11/30/2022: Wheat, silage, soft dough

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

29 - 11/30/2022: Wheat, silage, soft dough

Field name: 29

Crop: Wheat, silage, soft dough

Plant date: 11/30/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/05/2022	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
62	Ground water	6.55	0.00	0.00	456.54	4,328,600.00 gal
Application event totals		6.55	0.00	0.00	456.54	
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
Wastewater Application	Process wastewater	206.61	21.55	165.40	1,390.76	1,234,500.00 gal
Application event totals		206.61	21.55	165.40	1,390.76	
03/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	2.12	0.00	0.00	465.86	18,270,000.00 gal
Application event totals		2.12	0.00	0.00	465.86	
04/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	274.69	17.17	133.77	2,697.45	1,185,000.00 gal
Application event totals		274.69	17.17	133.77	2,697.45	

29 - 05/24/2023: Corn, silage

Field name: 29

Crop: Corn, silage

Plant date: 05/24/2023

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

29 - 05/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/18/2023	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
M.I.D Water	Surface water	0.38	0.00	0.00	83.53	3,276,000.00 <i>gal</i>
Application event totals		0.38	0.00	0.00	83.53	
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
1	Ground water	19.92	0.00	0.00	465.17	1,893,120.00 <i>gal</i>
Application event totals		19.92	0.00	0.00	465.17	
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
63	Ground water	1.62	0.00	0.00	198.64	3,808,624.00 <i>gal</i>
Application event totals		1.62	0.00	0.00	198.64	
06/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.71	0.00	0.00	156.05	6,120,000.00 <i>gal</i>
Application event totals		0.71	0.00	0.00	156.05	
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
63	Ground water	2.38	0.00	0.00	292.49	5,608,008.00 <i>gal</i>
Application event totals		2.38	0.00	0.00	292.49	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	203.32	30.54	179.64	1,486.09	3,522,500.00 <i>gal</i>
Application event totals		203.32	30.54	179.64	1,486.09	

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29 - 05/24/2023: 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
63	Ground water	2.30	0.00	0.00	282.51	5,416,632.00 gal
Application event totals		2.30	0.00	0.00	282.51	
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
1	Ground water	61.04	0.00	0.00	1,425.16	5,800,064.00 gal
Application event totals		61.04	0.00	0.00	1,425.16	

30 - 11/29/2022: Wheat, silage, soft dough

Field name: 30

Crop: Wheat, silage, soft dough

Plant date: 11/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/31/2022	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	306.13	24.74	264.82	2,122.28	2,250,600.00 <i>gal</i>
Application event totals		306.13	24.74	264.82	2,122.28	
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
62	Ground water	6.84	0.00	0.00	476.81	5,023,000.00 <i>gal</i>
Application event totals		6.84	0.00	0.00	476.81	
02/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.57	0.00	0.00	125.07	5,450,000.00 <i>gal</i>
Application event totals		0.57	0.00	0.00	125.07	

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30 - 11/29/2022: Wheat, silage, soft dough

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
03/14/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.61	0.00	0.00	134.48	5,860,000.00 <i>gal</i>
Application event totals				0.61	0.00	0.00	134.48	
04/01/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.50	0.00	0.00	109.47	4,770,000.00 <i>gal</i>
Application event totals				0.50	0.00	0.00	109.47	

30 - 05/27/2023: Corn, silage

Field name: 30

Crop: Corn, silage

Plant date: 05/27/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
05/13/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
1		Ground water	53.34	0.00	0.00	1,245.47	5,632,000.00 <i>gal</i>		
Application event totals			53.34	0.00	0.00	1,245.47			
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		
63		Ground water	2.18	0.00	0.00	267.81	5,705,236.00 <i>gal</i>		
Application event totals			2.18	0.00	0.00	267.81			
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		
M.I.D Water		Surface water	0.60	0.00	0.00	131.33	5,722,857.00 <i>gal</i>		
Application event totals			0.60	0.00	0.00	131.33			

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30 - 05/27/2023: 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	
Wastewater Application	Process wastewater	177.79	26.70	157.08	1,299.51	3,422,500.00 <i>gal</i>	
Application event totals		177.79	26.70	157.08	1,299.51		
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	
1	Ground water	34.82	0.00	0.00	812.88	3,675,840.00 <i>gal</i>	
Application event totals		34.82	0.00	0.00	812.88		
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	
63	Ground water	0.77	0.00	0.00	94.17	2,006,160.00 <i>gal</i>	
Application event totals		0.77	0.00	0.00	94.17		
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	
63	Ground water	2.15	0.00	0.00	264.69	5,638,808.00 <i>gal</i>	
Application event totals		2.15	0.00	0.00	264.69		
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	
1	Ground water	11.84	0.00	0.00	276.45	1,250,100.00 <i>gal</i>	
Application event totals		11.84	0.00	0.00	276.45		
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	
63	Ground water	1.61	0.00	0.00	198.34	4,225,256.00 <i>gal</i>	
Application event totals		1.61	0.00	0.00	198.34		

31 - 10/24/2022: Wheat, silage, soft dough

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

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

31 - 10/24/2022: Wheat, silage, soft dough

Field name: 31

Crop: Wheat, silage, soft dough

Plant date: 10/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
09/28/2022	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	356.48	28.81	308.36	2,471.27	3,800,000.00 <i>gal</i>
Application event totals			356.48	28.81	308.36	2,471.27	
12/12/2022	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
62		Ground water	7.93	0.00	0.00	552.85	8,445,000.00 <i>gal</i>
Application event totals			7.93	0.00	0.00	552.85	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.69	0.00	0.00	150.99	9,540,000.00 <i>gal</i>
Application event totals			0.69	0.00	0.00	150.99	
04/10/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
60		Ground water	13.60	0.00	0.00	448.13	7,328,600.00 <i>gal</i>
Application event totals			13.60	0.00	0.00	448.13	
05/01/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.62	0.00	0.00	136.90	8,650,000.00 <i>gal</i>
Application event totals			0.62	0.00	0.00	136.90	

31 - 06/15/2023: Corn, silage

Field name: 31

Crop: Corn, silage

Plant date: 06/15/2023

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

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

31 - 06/15/2023: Corn, silage

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
M.I.D Water	Surface water	0.55	0.00	0.00	120.29	7,600,500.00 <i>gal</i>
Application event totals		0.55	0.00	0.00	120.29	
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
M.I.D Water	Surface water	0.45	0.00	0.00	100.03	6,320,320.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	100.03	
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
Wastewater Application	Process wastewater	281.60	26.08	246.98	2,298.95	3,208,500.00 <i>gal</i>
Application event totals		281.60	26.08	246.98	2,298.95	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
63	Ground water	2.27	0.00	0.00	279.66	8,638,808.00 <i>gal</i>
Application event totals		2.27	0.00	0.00	279.66	
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
1	Ground water	22.17	0.00	0.00	517.71	3,394,560.00 <i>gal</i>
Application event totals		22.17	0.00	0.00	517.71	
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
1	Ground water	21.53	0.00	0.00	502.78	3,296,640.00 <i>gal</i>
Application event totals		21.53	0.00	0.00	502.78	

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

31 - 06/15/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/29/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
63		Ground water	1.22	0.00	0.00	149.67	4,623,408.00 <i>gal</i>
Application event totals			1.22	0.00	0.00	149.67	
09/07/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
63		Ground water	2.08	0.00	0.00	255.30	7,886,168.00 <i>gal</i>
Application event totals			2.08	0.00	0.00	255.30	
09/26/2023	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
1		Ground water	45.82	0.00	0.00	1,069.83	7,014,720.00 <i>gal</i>
Application event totals			45.82	0.00	0.00	1,069.83	

32/33 - 04/03/2018: Almond, in shell

Field name: 32/33

Crop: Almond, in shell

Plant date: 04/03/2018

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following		
11/28/2022	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
Compost Manure			Compost	39.32	17.71	7.97	715.27	120.00 <i>ton</i>
Application event totals				39.32	17.71	7.97	715.27	
03/06/2023	Microsprinkler		No precipitation	No precipitation		No precipitation		
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.25	0.00	0.00	55.92	4,325,000.00 <i>gal</i>
Application event totals				0.25	0.00	0.00	55.92	

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

32/33 - 04/03/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/20/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.32	0.00	0.00	70.46	5,450,200.00 <i>gal</i>
Application event totals		0.32	0.00	0.00	70.46	
04/03/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.29	0.00	0.00	62.71	4,850,200.00 <i>gal</i>
Application event totals		0.29	0.00	0.00	62.71	
04/17/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.19	0.00	0.00	41.98	3,246,961.00 <i>gal</i>
Application event totals		0.19	0.00	0.00	41.98	
05/01/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.18	0.00	0.00	40.66	3,144,690.00 <i>gal</i>
Application event totals		0.18	0.00	0.00	40.66	
05/15/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.23	0.00	0.00	49.91	3,860,120.00 <i>gal</i>
Application event totals		0.23	0.00	0.00	49.91	
05/29/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.22	0.00	0.00	48.36	3,740,100.00 <i>gal</i>
Application event totals		0.22	0.00	0.00	48.36	

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32/33 - 04/03/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/12/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.22	0.00	0.00	48.49	3,750,800.00 <i>gal</i>
Application event totals		0.22	0.00	0.00	48.49	
06/26/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.21	0.00	0.00	47.20	3,650,400.00 <i>gal</i>
Application event totals		0.21	0.00	0.00	47.20	
07/10/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.24	0.00	0.00	52.04	4,025,420.00 <i>gal</i>
Application event totals		0.24	0.00	0.00	52.04	
07/24/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.24	0.00	0.00	53.27	4,120,000.00 <i>gal</i>
Application event totals		0.24	0.00	0.00	53.27	
08/07/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.23	0.00	0.00	51.22	3,962,000.00 <i>gal</i>
Application event totals		0.23	0.00	0.00	51.22	
08/21/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.24	0.00	0.00	52.36	4,050,150.00 <i>gal</i>
Application event totals		0.24	0.00	0.00	52.36	

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

32/33 - 04/03/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
09/04/2023	Microsprinkler	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.23	0.00	0.00	51.33	3,970,560.00 <i>gal</i>
Application event totals			0.23	0.00	0.00	51.33	
09/18/2023	Microsprinkler	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.22	0.00	0.00	48.90	3,782,400.00 <i>gal</i>
Application event totals			0.22	0.00	0.00	48.90	
10/03/2023	Microsprinkler	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.24	0.00	0.00	51.80	4,006,420.00 <i>gal</i>
Application event totals			0.24	0.00	0.00	51.80	
10/24/2023	Microsprinkler	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.25	0.00	0.00	55.86	4,320,600.00 <i>gal</i>
Application event totals			0.25	0.00	0.00	55.86	

34/35 - 04/01/2018: Almond, in shell

Field name: 34/35

Crop: Almond, in shell

Plant date: 04/01/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/30/2022	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
Compost Manure	Compost	25.07	4.40	4.88	603.42	210.00 <i>ton</i>
Application event totals		25.07	4.40	4.88	603.42	

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

34/35 - 04/01/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/01/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.21	0.00	0.00	46.23	9,820,000.00 <i>gal</i>
Application event totals		0.21	0.00	0.00	46.23	
03/13/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.21	0.00	0.00	46.53	9,885,000.00 <i>gal</i>
Application event totals		0.21	0.00	0.00	46.53	
03/27/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.19	0.00	0.00	41.90	8,900,000.00 <i>gal</i>
Application event totals		0.19	0.00	0.00	41.90	
04/10/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.20	0.00	0.00	43.31	9,200,500.00 <i>gal</i>
Application event totals		0.20	0.00	0.00	43.31	
04/24/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.19	0.00	0.00	42.15	8,954,300.00 <i>gal</i>
Application event totals		0.19	0.00	0.00	42.15	
05/08/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.19	0.00	0.00	41.62	8,842,000.00 <i>gal</i>
Application event totals		0.19	0.00	0.00	41.62	

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34/35 - 04/01/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/23/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.19	0.00	0.00	41.90	8,900,450.00 <i>gal</i>
Application event totals		0.19	0.00	0.00	41.90	
06/05/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.21	0.00	0.00	45.66	9,700,400.00 <i>gal</i>
Application event totals		0.21	0.00	0.00	45.66	
06/19/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.20	0.00	0.00	43.31	9,200,000.00 <i>gal</i>
Application event totals		0.20	0.00	0.00	43.31	
07/03/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.19	0.00	0.00	41.92	8,905,200.00 <i>gal</i>
Application event totals		0.19	0.00	0.00	41.92	
07/17/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.18	0.00	0.00	40.48	8,600,210.00 <i>gal</i>
Application event totals		0.18	0.00	0.00	40.48	
07/31/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.21	0.00	0.00	46.94	9,970,450.00 <i>gal</i>
Application event totals		0.21	0.00	0.00	46.94	

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34/35 - 04/01/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/14/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.18	0.00	0.00	39.79	8,453,600.00 <i>gal</i>
Application event totals		0.18	0.00	0.00	39.79	
08/28/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.19	0.00	0.00	41.73	8,865,000.00 <i>gal</i>
Application event totals		0.19	0.00	0.00	41.73	
09/11/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.20	0.00	0.00	44.25	9,400,350.00 <i>gal</i>
Application event totals		0.20	0.00	0.00	44.25	
09/25/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.21	0.00	0.00	45.19	9,600,120.00 <i>gal</i>
Application event totals		0.21	0.00	0.00	45.19	
10/09/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.20	0.00	0.00	43.31	9,200,750.00 <i>gal</i>
Application event totals		0.20	0.00	0.00	43.31	
10/30/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.20	0.00	0.00	43.78	9,300,500.00 <i>gal</i>
Application event totals		0.20	0.00	0.00	43.78	

37 - 10/20/2022: Wheat, silage, soft dough

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

37 - 10/20/2022: Wheat, silage, soft dough

Field name: 37

Crop: Wheat, silage, soft dough

Plant date: 10/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/05/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.64	0.00	0.00	141.64	11,572,890.00 <i>gal</i>
Application event totals		0.64	0.00	0.00	141.64	
12/02/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.60	0.00	0.00	132.93	10,860,720.00 <i>gal</i>
Application event totals		0.60	0.00	0.00	132.93	
02/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	364.80	29.49	315.57	2,529.01	5,028,600.00 <i>gal</i>
Application event totals		364.80	29.49	315.57	2,529.01	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.71	0.00	0.00	155.10	12,672,630.00 <i>gal</i>
Application event totals		0.71	0.00	0.00	155.10	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.56	0.00	0.00	123.88	10,121,500.00 <i>gal</i>
Application event totals		0.56	0.00	0.00	123.88	

37 - 05/14/2023: Corn, silage

Field name: 37

Crop: Corn, silage

Plant date: 05/14/2023

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37 - 05/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.47	0.00	0.00	104.04	8,500,400.00 <i>gal</i>
Application event totals		0.47	0.00	0.00	104.04	
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.48	0.00	0.00	105.27	8,600,850.00 <i>gal</i>
Application event totals		0.48	0.00	0.00	105.27	
06/18/2023	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	271.51	25.15	238.13	2,216.61	4,000,320.00 <i>gal</i>
Application event totals		271.51	25.15	238.13	2,216.61	
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
M.I.D Water	Surface water	0.50	0.00	0.00	109.67	8,960,100.00 <i>gal</i>
Application event totals		0.50	0.00	0.00	109.67	
07/18/2023	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
M.I.D Water	Surface water	0.53	0.00	0.00	117.50	9,600,200.00 <i>gal</i>
Application event totals		0.53	0.00	0.00	117.50	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.50	0.00	0.00	108.99	8,905,210.00 <i>gal</i>
Application event totals		0.50	0.00	0.00	108.99	

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37 - 05/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	129.74	10,600,480.00 <i>gal</i>
Application event totals		0.59	0.00	0.00	129.74	
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
M.I.D Water	Surface water	0.57	0.00	0.00	125.21	10,230,500.00 <i>gal</i>
Application event totals		0.57	0.00	0.00	125.21	

38 - 10/24/2022: Wheat, silage, soft dough

Field name: 38

Crop: Wheat, silage, soft dough

Plant date: 10/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/07/2022	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
60	Ground water	12.29	0.00	0.00	404.80	8,560,210.00 <i>gal</i>
Application event totals		12.29	0.00	0.00	404.80	
12/22/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
60	Ground water	12.34	0.00	0.00	406.70	8,600,480.00 <i>gal</i>
Application event totals		12.34	0.00	0.00	406.70	
01/04/2023	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
M.I.D Water	Surface water	0.44	0.00	0.00	97.43	7,960,300.00 <i>gal</i>
Application event totals		0.44	0.00	0.00	97.43	

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38 - 10/24/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
02/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	369.55	38.54	295.84	2,487.53	4,600,100.00 <i>gal</i>
Application event totals			369.55	38.54	295.84	2,487.53	
03/07/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
60		Ground water	13.28	0.00	0.00	437.42	9,250,000.00 <i>gal</i>
Application event totals			13.28	0.00	0.00	437.42	
04/12/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
60		Ground water	12.58	0.00	0.00	414.49	8,765,100.00 <i>gal</i>
Application event totals			12.58	0.00	0.00	414.49	

38 - 05/19/2023: Corn, silage

Field name: 38

Crop: Corn, silage

Plant date: 05/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
60	Ground water	11.70	0.00	0.00	385.40	8,150,000.00 <i>gal</i>
Application event totals		11.70	0.00	0.00	385.40	
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
Lagoon	Process wastewater	207.03	19.18	181.57	1,690.14	3,050,200.00 <i>gal</i>
Application event totals		207.03	19.18	181.57	1,690.14	

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38 - 05/19/2023: 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
M.I.D Water		Surface water	0.48	0.00	0.00	105.26	8,600,300.00 <i>gal</i>
Application event totals			0.48	0.00	0.00	105.26	
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
25		Ground water	3.37	0.00	0.00	177.81	9,400,320.00 <i>gal</i>
Application event totals			3.37	0.00	0.00	177.81	
07/14/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25		Ground water	3.34	0.00	0.00	176.29	9,320,100.00 <i>gal</i>
Application event totals			3.34	0.00	0.00	176.29	
07/27/2023	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
60		Ground water	13.13	0.00	0.00	432.69	9,150,000.00 <i>gal</i>
Application event totals			13.13	0.00	0.00	432.69	
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
25		Ground water	3.28	0.00	0.00	173.08	9,150,450.00 <i>gal</i>
Application event totals			3.28	0.00	0.00	173.08	
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
25		Ground water	2.98	0.00	0.00	157.38	8,320,140.00 <i>gal</i>
Application event totals			2.98	0.00	0.00	157.38	

39 - 11/05/2022: Wheat, silage, soft dough

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

39 - 11/05/2022: Wheat, silage, soft dough

Field name: 39

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/10/2022	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
25	Ground water	3.06	0.00	0.00	161.43	8,420,300.00 <i>gal</i>
Application event totals		3.06	0.00	0.00	161.43	
01/19/2023	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
M.I.D Water	Surface water	0.52	0.00	0.00	114.19	9,205,100.00 <i>gal</i>
Application event totals		0.52	0.00	0.00	114.19	
02/13/2023	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
64	Ground water	6.17	0.00	0.00	456.96	7,504,000.00 <i>gal</i>
Application event totals		6.17	0.00	0.00	456.96	
03/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
64	Ground water	6.25	0.00	0.00	462.86	7,600,900.00 <i>gal</i>
Application event totals		6.25	0.00	0.00	462.86	
03/30/2023	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	234.02	21.68	205.25	1,910.55	3,402,000.00 <i>gal</i>
Application event totals		234.02	21.68	205.25	1,910.55	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
64	Ground water	7.20	0.00	0.00	533.46	8,760,145.00 <i>gal</i>
Application event totals		7.20	0.00	0.00	533.46	

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39 - 06/05/2023: Corn, silage

Field name: 39

Crop: Corn, silage

Plant date: 06/05/2023

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	206.73	19.15	181.31	1,687.71	3,005,200.00 gal
Application event totals		206.73	19.15	181.31	1,687.71	
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
27	Ground water	12.03	0.00	0.00	407.12	8,205,000.00 gal
Application event totals		12.03	0.00	0.00	407.12	
06/30/2023	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
27	Ground water	13.31	0.00	0.00	450.45	9,078,152.00 gal
Application event totals		13.31	0.00	0.00	450.45	
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
60	Ground water	13.10	0.00	0.00	431.51	9,003,460.00 gal
Application event totals		13.10	0.00	0.00	431.51	
07/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.48	0.00	0.00	106.68	8,600,090.00 gal
Application event totals		0.48	0.00	0.00	106.68	

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39 - 06/05/2023: 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
25		Ground water	2.75	0.00	0.00	144.97	7,562,000.00 <i>gal</i>
Application event totals			2.75	0.00	0.00	144.97	
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
M.I.D Water		Surface water	0.53	0.00	0.00	117.24	9,451,000.00 <i>gal</i>
Application event totals			0.53	0.00	0.00	117.24	
09/14/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
64		Ground water	7.81	0.00	0.00	578.88	9,506,100.00 <i>gal</i>
Application event totals			7.81	0.00	0.00	578.88	

40 - 11/14/2022: Wheat, silage, soft dough

Field name: 40

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		
10/23/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	252.23	20.39	218.18	1,748.56	3,662,200.00 <i>gal</i>
Application event totals		252.23	20.39	218.18	1,748.56	
01/06/2023	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
M.I.D Water	Surface water	0.47	0.00	0.00	104.14	8,962,000.00 <i>gal</i>
Application event totals		0.47	0.00	0.00	104.14	

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

40 - 11/14/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
20	Ground water	2.74	0.00	0.00	135.25	8,002,560.00 <i>gal</i>
Application event totals		2.74	0.00	0.00	135.25	
03/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
20	Ground water	2.97	0.00	0.00	146.74	8,682,000.00 <i>gal</i>
Application event totals		2.97	0.00	0.00	146.74	
04/18/2023	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
20	Ground water	2.99	0.00	0.00	147.89	8,750,482.00 <i>gal</i>
Application event totals		2.99	0.00	0.00	147.89	
05/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
20	Ground water	2.57	0.00	0.00	126.77	7,500,680.00 <i>gal</i>
Application event totals		2.57	0.00	0.00	126.77	

40 - 06/12/2023: Corn, silage

Field name: 40

Crop: Corn, silage

Plant date: 06/12/2023

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
64		Ground water	6.47	0.00	0.00	479.18	8,400,452.00 <i>gal</i>
Application event totals			6.47	0.00	0.00	479.18	

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40 - 06/12/2023: Corn, silage

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	154.69	14.33	135.67	1,262.85	2,400,620.00 <i>gal</i>
Application event totals		154.69	14.33	135.67	1,262.85	
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
M.I.D Water	Surface water	0.50	0.00	0.00	109.92	9,460,098.00 <i>gal</i>
Application event totals		0.50	0.00	0.00	109.92	
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
25	Ground water	3.20	0.00	0.00	168.98	9,410,052.00 <i>gal</i>
Application event totals		3.20	0.00	0.00	168.98	
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
27	Ground water	12.63	0.00	0.00	427.62	9,200,350.00 <i>gal</i>
Application event totals		12.63	0.00	0.00	427.62	
08/18/2023	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
64	Ground water	6.59	0.00	0.00	488.31	8,560,520.00 <i>gal</i>
Application event totals		6.59	0.00	0.00	488.31	
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
M.I.D Water	Surface water	0.52	0.00	0.00	113.43	9,762,210.00 <i>gal</i>
Application event totals		0.52	0.00	0.00	113.43	

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40 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	151.24	22.72	133.63	1,105.46	5,750,050.00 <i>gal</i>
Application event totals		151.24	22.72	133.63	1,105.46	
09/25/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25	Ground water	3.29	0.00	0.00	173.87	9,682,150.00 <i>gal</i>
Application event totals		3.29	0.00	0.00	173.87	

41 - 11/22/2022: Wheat, silage, soft dough

Field name: 41

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/25/2022	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
60	Ground water	12.13	0.00	0.00	399.73	8,453,100.00 <i>gal</i>
Application event totals		12.13	0.00	0.00	399.73	
01/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	321.74	33.56	257.57	2,165.75	4,005,050.00 <i>gal</i>
Application event totals		321.74	33.56	257.57	2,165.75	
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
26	Ground water	2.69	0.00	0.00	168.65	7,541,108.00 <i>gal</i>
Application event totals		2.69	0.00	0.00	168.65	

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41 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/31/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
26		Ground water	3.01	0.00	0.00	189.00	8,450,900.00 <i>gal</i>
Application event totals			3.01	0.00	0.00	189.00	
04/16/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
27		Ground water	11.55	0.00	0.00	390.93	7,985,200.00 <i>gal</i>
Application event totals			11.55	0.00	0.00	390.93	
04/30/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
26		Ground water	3.02	0.00	0.00	189.62	8,478,400.00 <i>gal</i>
Application event totals			3.02	0.00	0.00	189.62	

41 - 06/19/2023: Corn, silage

Field name: 41

Crop: Corn, silage

Plant date: 06/19/2023

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	207.04	19.18	181.59	1,690.28	3,050,451.00 <i>gal</i>
Application event totals				207.04	19.18	181.59	1,690.28	
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
M.I.D Water			Surface water	0.25	0.00	0.00	55.08	4,500,620.00 <i>gal</i>
Application event totals				0.25	0.00	0.00	55.08	

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41 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
27	Ground water	12.44	0.00	0.00	421.15	8,602,300.00 <i>gal</i>
Application event totals		12.44	0.00	0.00	421.15	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
26	Ground water	3.06	0.00	0.00	192.35	8,600,800.00 <i>gal</i>
Application event totals		3.06	0.00	0.00	192.35	
08/08/2023	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
27	Ground water	13.02	0.00	0.00	440.54	8,998,500.00 <i>gal</i>
Application event totals		13.02	0.00	0.00	440.54	
08/21/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
26	Ground water	3.38	0.00	0.00	212.16	9,486,250.00 <i>gal</i>
Application event totals		3.38	0.00	0.00	212.16	
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
27	Ground water	14.15	0.00	0.00	478.91	9,782,140.00 <i>gal</i>
Application event totals		14.15	0.00	0.00	478.91	
09/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
60	Ground water	13.84	0.00	0.00	455.86	9,640,012.00 <i>gal</i>
Application event totals		13.84	0.00	0.00	455.86	

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41 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/01/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
64	Ground water	7.09	0.00	0.00	525.28	8,742,451.00 <i>gal</i>
Application event totals		7.09	0.00	0.00	525.28	

42 - 11/29/2022: Wheat, silage, soft dough

Field name: 42

Crop: Wheat, silage, soft dough Plant date: 11/29/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
10/01/2022	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	254.85	20.60	220.45	1,766.76	3,700,320.00 <i>gal</i>	
Application event totals			254.85	20.60	220.45	1,766.76		
01/03/2023	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	
60		Ground water	10.88	0.00	0.00	358.49	7,985,200.00 <i>gal</i>	
Application event totals			10.88	0.00	0.00	358.49		
02/12/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
64		Ground water	5.37	0.00	0.00	397.67	6,971,500.00 <i>gal</i>	
Application event totals			5.37	0.00	0.00	397.67		
03/24/2023	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	
26		Ground water	2.97	0.00	0.00	186.75	8,795,651.00 <i>gal</i>	
Application event totals			2.97	0.00	0.00	186.75		

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42 - 11/29/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
64	Ground water	7.26	0.00	0.00	537.91	9,430,020.00 <i>gal</i>
Application event totals		7.26	0.00	0.00	537.91	
05/09/2023	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
M.I.D Water	Surface water	0.50	0.00	0.00	109.23	9,400,201.00 <i>gal</i>
Application event totals		0.50	0.00	0.00	109.23	

42 - 06/23/2023: Corn, silage

Field name: 42

Crop: Corn, silage

Plant date: 06/23/2023

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
06/06/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
25		Ground water	3.23	0.00	0.00	170.60	9,500,420.00 <i>gal</i>	
Application event totals			3.23	0.00	0.00	170.60		
07/07/2023	Subsurface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
25		Ground water	2.96	0.00	0.00	156.30	8,703,890.00 <i>gal</i>	
Application event totals			2.96	0.00	0.00	156.30		
07/25/2023	Subsurface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
64		Ground water	6.24	0.00	0.00	462.17	8,102,300.00 <i>gal</i>	
Application event totals			6.24	0.00	0.00	462.17		

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42 - 06/23/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Lagoon	Process wastewater	196.92	20.54	157.65	1,325.56	2,582,040.00 <i>gal</i>
Application event totals		196.92	20.54	157.65	1,325.56	
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
60	Ground water	6.13	0.00	0.00	202.03	4,500,205.00 <i>gal</i>
Application event totals		6.13	0.00	0.00	202.03	
08/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.50	0.00	0.00	110.13	9,478,200.00 <i>gal</i>
Application event totals		0.50	0.00	0.00	110.13	
09/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
26	Ground water	3.03	0.00	0.00	190.24	8,960,150.00 <i>gal</i>
Application event totals		3.03	0.00	0.00	190.24	
09/23/2023	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
26	Ground water	2.84	0.00	0.00	178.58	8,410,890.00 <i>gal</i>
Application event totals		2.84	0.00	0.00	178.58	
10/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25	Ground water	3.29	0.00	0.00	173.87	9,682,000.00 <i>gal</i>
Application event totals		3.29	0.00	0.00	173.87	

45 - 10/24/2022: Wheat, silage, soft dough

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

45 - 10/24/2022: Wheat, silage, soft dough

Field name: 45

Crop: Wheat, silage, soft dough

Plant date: 10/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/01/2022	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
1	Ground water	45.66	0.00	0.00	1,066.00	2,410,220.00 <i>gal</i>
Application event totals		45.66	0.00	0.00	1,066.00	
01/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	273.41	22.10	236.51	1,895.40	1,005,000.00 <i>gal</i>
Application event totals		273.41	22.10	236.51	1,895.40	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.80	0.00	0.00	175.42	3,822,000.00 <i>gal</i>
Application event totals		0.80	0.00	0.00	175.42	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.77	0.00	0.00	168.81	3,678,000.00 <i>gal</i>
Application event totals		0.77	0.00	0.00	168.81	

45 - 05/31/2023: Corn, silage

Field name: 45

Crop: Corn, silage

Plant date: 05/31/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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45 - 05/31/2023: 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
62	Ground water	7.65	0.00	0.00	533.21	2,808,624.00 <i>gal</i>
Application event totals		7.65	0.00	0.00	533.21	
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
63	Ground water	1.87	0.00	0.00	229.82	2,448,000.00 <i>gal</i>
Application event totals		1.87	0.00	0.00	229.82	
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
Wastewater Application	Process wastewater	230.09	21.31	201.80	1,878.43	904,000.00 <i>gal</i>
Application event totals		230.09	21.31	201.80	1,878.43	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
58	Ground water	6.44	0.00	0.00	437.06	1,995,200.00 <i>gal</i>
Application event totals		6.44	0.00	0.00	437.06	
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
58	Ground water	6.36	0.00	0.00	431.73	1,970,880.00 <i>gal</i>
Application event totals		6.36	0.00	0.00	431.73	
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
63	Ground water	1.74	0.00	0.00	213.93	2,278,732.00 <i>gal</i>
Application event totals		1.74	0.00	0.00	213.93	

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45 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
62	Ground water	7.01	0.00	0.00	488.47	2,572,960.00 <i>gal</i>
Application event totals		7.01	0.00	0.00	488.47	
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
63	Ground water	1.81	0.00	0.00	222.53	2,370,312.00 <i>gal</i>
Application event totals		1.81	0.00	0.00	222.53	

46 - 11/24/2022: Wheat, silage, soft dough

Field name: 46

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/31/2022	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
62	Ground water	8.02	0.00	0.00	559.10	5,890,000.00 <i>gal</i>
Application event totals		8.02	0.00	0.00	559.10	
01/19/2023	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
Wastewater Application	Process wastewater	353.45	36.86	282.95	2,379.16	2,346,500.00 <i>gal</i>
Application event totals		353.45	36.86	282.95	2,379.16	
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
M.I.D Water	Surface water	0.51	0.00	0.00	112.77	4,914,000.00 <i>gal</i>
Application event totals		0.51	0.00	0.00	112.77	

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46 - 11/24/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
03/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.45	0.00	0.00	99.28	4,326,000.00 <i>gal</i>
Application event totals			0.45	0.00	0.00	99.28	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.50	0.00	0.00	110.84	4,830,000.00 <i>gal</i>
Application event totals			0.50	0.00	0.00	110.84	
05/01/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.28	0.00	0.00	61.45	2,677,500.00 <i>gal</i>
Application event totals			0.28	0.00	0.00	61.45	

46 - 06/23/2023: Corn, silage

Field name: 46

Crop: Corn, silage

Plant date: 06/23/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	201.07	18.62	176.35	1,641.54	1,580,000.00 <i>gal</i>
Application event totals		201.07	18.62	176.35	1,641.54	
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
63	Ground water	3.10	0.00	0.00	381.39	8,124,948.00 <i>gal</i>
Application event totals		3.10	0.00	0.00	381.39	

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

46 - 06/23/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
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	
1		Ground water	46.06	0.00	0.00	1,075.50	4,863,360.00 <i>gal</i>	
Application event totals			46.06	0.00	0.00	1,075.50		
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	
1		Ground water	30.61	0.00	0.00	714.59	3,231,360.00 <i>gal</i>	
Application event totals			30.61	0.00	0.00	714.59		
08/24/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
58		Ground water	6.32	0.00	0.00	429.00	3,916,800.00 <i>gal</i>	
Application event totals			6.32	0.00	0.00	429.00		
08/24/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
65		Ground water	8.60	0.00	0.00	490.74	3,888,000.00 <i>gal</i>	
Application event totals			8.60	0.00	0.00	490.74		
08/24/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
63		Ground water	1.30	0.00	0.00	159.76	3,403,500.00 <i>gal</i>	
Application event totals			1.30	0.00	0.00	159.76		
09/12/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
65		Ground water	11.78	0.00	0.00	672.49	5,328,000.00 <i>gal</i>	
Application event totals			11.78	0.00	0.00	672.49		

47 - 11/10/2022: Wheat, silage, soft dough

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

47 - 11/10/2022: Wheat, silage, soft dough

Field name: 47

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		
11/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
20	Ground water	3.01	0.00	0.00	148.66	4,565,050.00 <i>gal</i>
Application event totals		3.01	0.00	0.00	148.66	
01/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	360.63	29.15	311.95	2,500.06	2,717,500.00 <i>gal</i>
Application event totals		360.63	29.15	311.95	2,500.06	
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
M.I.D Water	Surface water	0.50	0.00	0.00	110.02	4,914,000.00 <i>gal</i>
Application event totals		0.50	0.00	0.00	110.02	
03/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.40	0.00	0.00	87.32	3,900,000.00 <i>gal</i>
Application event totals		0.40	0.00	0.00	87.32	
04/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.54	0.00	0.00	118.48	5,292,000.00 <i>gal</i>
Application event totals		0.54	0.00	0.00	118.48	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.72	0.00	0.00	159.07	7,105,000.00 <i>gal</i>
Application event totals		0.72	0.00	0.00	159.07	

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

47 - 06/19/2023: Corn, silage

Field name: 47

Crop: Corn, silage

Plant date: 06/19/2023

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
Wastewater Application		Process wastewater	190.89	17.68	167.42	1,558.43	1,537,500.00 <i>gal</i>
Application event totals			190.89	17.68	167.42	1,558.43	
07/14/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
20		Ground water	2.23	0.00	0.00	109.95	3,376,272.00 <i>gal</i>
Application event totals			2.23	0.00	0.00	109.95	
07/14/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
63		Ground water	2.45	0.00	0.00	300.89	6,570,174.00 <i>gal</i>
Application event totals			2.45	0.00	0.00	300.89	
08/18/2023	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
63		Ground water	1.23	0.00	0.00	151.59	3,310,164.00 <i>gal</i>
Application event totals			1.23	0.00	0.00	151.59	
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
M.I.D Water		Surface water	0.51	0.00	0.00	111.95	5,000,400.00 <i>gal</i>
Application event totals			0.51	0.00	0.00	111.95	

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

47 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.48	0.00	0.00	104.85	4,683,216.00 <i>gal</i>
Application event totals		0.48	0.00	0.00	104.85	
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
65	Ground water	17.86	0.00	0.00	1,019.60	8,280,000.00 <i>gal</i>
Application event totals		17.86	0.00	0.00	1,019.60	
09/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
1	Ground water	17.86	0.00	0.00	417.08	1,933,188.00 <i>gal</i>
Application event totals		17.86	0.00	0.00	417.08	

48 - 11/10/2022: Wheat, silage, soft dough

Field name: 48

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	
11/04/2022	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	323.19	26.12	279.57	2,240.53	2,376,000.00 <i>gal</i>
Application event totals			323.19	26.12	279.57	2,240.53	
01/01/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.51	0.00	0.00	112.27	4,892,000.00 <i>gal</i>
Application event totals			0.51	0.00	0.00	112.27	

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48 - 11/10/2022: Wheat, silage, soft dough

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
02/18/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water			Surface water	1.00	0.00	0.00	219.28	9,555,000.00 <i>gal</i>	
Application event totals				1.00	0.00	0.00	219.28		
03/19/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water			Surface water	0.57	0.00	0.00	125.30	5,460,000.00 <i>gal</i>	
Application event totals				0.57	0.00	0.00	125.30		
04/22/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water			Surface water	0.39	0.00	0.00	86.75	3,780,000.00 <i>gal</i>	
Application event totals				0.39	0.00	0.00	86.75		
04/27/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water			Surface water	0.35	0.00	0.00	76.30	3,325,000.00 <i>gal</i>	
Application event totals				0.35	0.00	0.00	76.30		

48 - 06/16/2023: Corn, silage

Field name: 48

Crop: Corn, silage

Plant date: 06/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
62	Ground water	5.30	0.00	0.00	369.60	3,893,604.00 <i>gal</i>
Application event totals		5.30	0.00	0.00	369.60	

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48 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
63	Ground water	1.34	0.00	0.00	164.31	3,500,280.00 <i>gal</i>
Application event totals		1.34	0.00	0.00	164.31	
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
63	Ground water	1.86	0.00	0.00	228.29	4,863,360.00 <i>gal</i>
Application event totals		1.86	0.00	0.00	228.29	
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
63	Ground water	1.03	0.00	0.00	127.13	2,708,316.00 <i>gal</i>
Application event totals		1.03	0.00	0.00	127.13	
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
M.I.D Water	Surface water	0.66	0.00	0.00	145.74	6,350,508.00 <i>gal</i>
Application event totals		0.66	0.00	0.00	145.74	
08/08/2023	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
Wastewater Application	Process wastewater	269.35	24.95	236.23	2,198.94	2,116,500.00 <i>gal</i>
Application event totals		269.35	24.95	236.23	2,198.94	
08/18/2023	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
63	Ground water	1.26	0.00	0.00	155.38	3,310,164.00 <i>gal</i>
Application event totals		1.26	0.00	0.00	155.38	

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48 - 06/16/2023: 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
M.I.D Water			Surface water		0.52	0.00	0.00	114.75	5,000,400.00 <i>gal</i>
Application event totals					0.52	0.00	0.00	114.75	
09/12/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
63			Ground water		1.49	0.00	0.00	182.77	3,893,604.00 <i>gal</i>
Application event totals					1.49	0.00	0.00	182.77	

49 - 11/03/2022: Wheat, silage, soft dough

Field name: 49

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
10/18/2022	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
Wastewater Application			Process wastewater	288.90	23.35	249.91	2,002.81	2,177,000.00 <i>gal</i>
Application event totals				288.90	23.35	249.91	2,002.81	
01/26/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.88	0.00	0.00	194.34	8,680,000.00 <i>gal</i>
Application event totals				0.88	0.00	0.00	194.34	
03/14/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.59	0.00	0.00	129.77	5,796,000.00 <i>gal</i>
Application event totals				0.59	0.00	0.00	129.77	

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49 - 11/03/2022: Wheat, silage, soft dough

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/08/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.63	0.00	0.00	137.92	6,160,000.00 <i>gal</i>
Application event totals			0.63	0.00	0.00	137.92	
04/20/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	110.22	6.89	53.67	1,082.31	541,500.00 <i>gal</i>
Application event totals			110.22	6.89	53.67	1,082.31	
04/20/2023	Surface (irrigation)		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.41	0.00	0.00	89.15	3,982,000.00 <i>gal</i>
Application event totals			0.41	0.00	0.00	89.15	

49 - 06/08/2023: Corn, silage

Field name: 49

Crop: Corn, silage

Plant date: 06/08/2023

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
M.I.D Water		Surface water	0.55	0.00	0.00	121.35	5,420,000.00 <i>gal</i>
Application event totals			0.55	0.00	0.00	121.35	
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
25		Ground water	1.61	0.00	0.00	84.78	2,450,196.00 <i>gal</i>
Application event totals			1.61	0.00	0.00	84.78	

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49 - 06/08/2023: 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
63	Ground water	0.64	0.00	0.00	78.09	1,705,236.00 <i>gal</i>
Application event totals		0.64	0.00	0.00	78.09	
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
63	Ground water	1.47	0.00	0.00	180.91	3,950,316.00 <i>gal</i>
Application event totals		1.47	0.00	0.00	180.91	
07/29/2023	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
65	Ground water	11.50	0.00	0.00	656.09	5,328,000.00 <i>gal</i>
Application event totals		11.50	0.00	0.00	656.09	
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
Wastewater Application	Process wastewater	219.39	20.32	192.41	1,791.05	1,767,000.00 <i>gal</i>
Application event totals		219.39	20.32	192.41	1,791.05	
08/15/2023	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
63	Ground water	1.88	0.00	0.00	231.29	5,050,404.00 <i>gal</i>
Application event totals		1.88	0.00	0.00	231.29	
08/15/2023	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
65	Ground water	7.15	0.00	0.00	407.84	3,312,000.00 <i>gal</i>
Application event totals		7.15	0.00	0.00	407.84	

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49 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
1	Ground water	53.14	0.00	0.00	1,240.65	5,750,460.00 <i>gal</i>
Application event totals		53.14	0.00	0.00	1,240.65	
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
63	Ground water	1.94	0.00	0.00	238.87	5,216,016.00 <i>gal</i>
Application event totals		1.94	0.00	0.00	238.87	

Houweling - 04/01/2018: Almond, in shell

Field name: Houweling

Crop: Almond, in shell

Plant date: 04/01/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/20/2022	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
Compost Manure	Compost	28.52	12.85	5.78	518.76	38.00 <i>ton</i>
Application event totals		28.52	12.85	5.78	518.76	
03/11/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.16	0.00	0.00	35.55	1,200,500.00 <i>gal</i>
Application event totals		0.16	0.00	0.00	35.55	
04/07/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.20	0.00	0.00	42.95	1,450,500.00 <i>gal</i>
Application event totals		0.20	0.00	0.00	42.95	

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

Houweling - 04/01/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/21/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.15	0.00	0.00	34.05	1,150,000.00 <i>gal</i>
Application event totals		0.15	0.00	0.00	34.05	
05/05/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.21	0.00	0.00	46.34	1,565,000.00 <i>gal</i>
Application event totals		0.21	0.00	0.00	46.34	
05/19/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.22	0.00	0.00	47.39	1,600,500.00 <i>gal</i>
Application event totals		0.22	0.00	0.00	47.39	
06/01/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.25	0.00	0.00	54.50	1,840,600.00 <i>gal</i>
Application event totals		0.25	0.00	0.00	54.50	
06/16/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.27	0.00	0.00	58.64	1,980,200.00 <i>gal</i>
Application event totals		0.27	0.00	0.00	58.64	
06/29/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.30	0.00	0.00	66.63	2,250,000.00 <i>gal</i>
Application event totals		0.30	0.00	0.00	66.63	

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

Houweling - 04/01/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/07/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.22	0.00	0.00	48.86	1,650,200.00 <i>gal</i>
Application event totals		0.22	0.00	0.00	48.86	
07/21/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.22	0.00	0.00	47.98	1,620,410.00 <i>gal</i>
Application event totals		0.22	0.00	0.00	47.98	
08/05/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.18	0.00	0.00	39.98	1,350,200.00 <i>gal</i>
Application event totals		0.18	0.00	0.00	39.98	
08/18/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.27	0.00	0.00	60.13	2,030,500.00 <i>gal</i>
Application event totals		0.27	0.00	0.00	60.13	
08/31/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.27	0.00	0.00	58.65	1,980,540.00 <i>gal</i>
Application event totals		0.27	0.00	0.00	58.65	
09/15/2023	Microsprinkler	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.21	0.00	0.00	45.60	1,540,000.00 <i>gal</i>
Application event totals		0.21	0.00	0.00	45.60	

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

Houweling - 04/01/2018: Almond, in shell

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
09/28/2023	Microsprinkler		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.18	0.00	0.00	38.51	1,300,482.00 <i>gal</i>
Application event totals				0.18	0.00	0.00	38.51	
10/13/2023	Microsprinkler		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.24	0.00	0.00	53.61	1,810,560.00 <i>gal</i>
Application event totals				0.24	0.00	0.00	53.61	
10/28/2023	Microsprinkler		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.19	0.00	0.00	41.47	1,400,600.00 <i>gal</i>
Application event totals				0.19	0.00	0.00	41.47	
11/10/2023	Microsprinkler		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.18	0.00	0.00	38.52	1,300,760.00 <i>gal</i>
Application event totals				0.18	0.00	0.00	38.52	

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

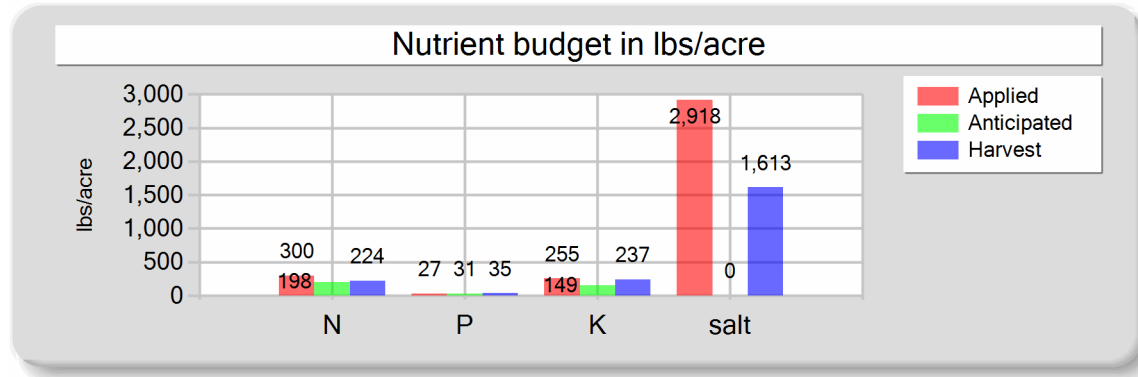
B. NUTRIENT BUDGET

20 - 11/11/2022: Wheat, silage, soft dough

Field name: 20

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022



	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	47,487,500.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,748.80 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	21.86 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	290.73	26.79	254.98	2,373.49	Process wastewater applied
Fresh water	2.48	0.00	0.00	544.89	4,569,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	168.26 acre-inches
Total nutrients applied	300.21	26.79	254.98	2,918.38	2.10 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	224.49	35.10	237.13	1,612.51	Total harvests for the crop
Nutrient balance	75.72	-8.31	17.85	1,305.86	1 harvests
Applied to removed ratio	1.34	0.76	1.08	1.81	

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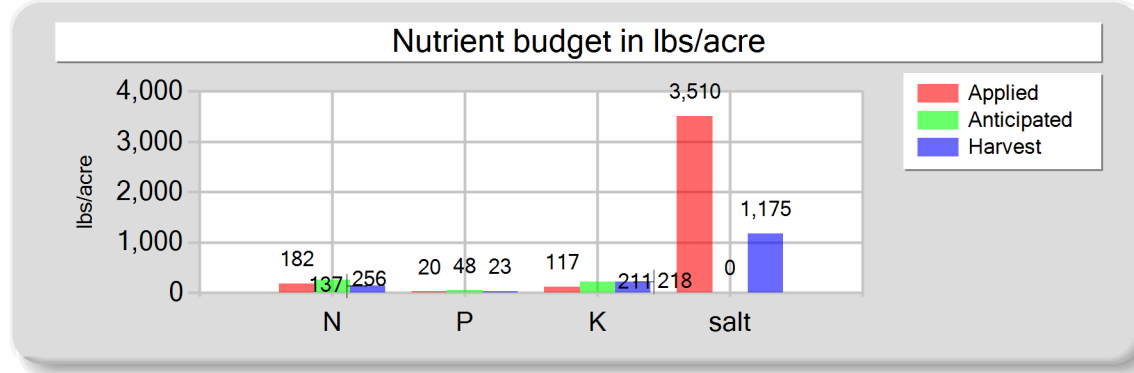
Reporting period 01/01/2023 to 12/31/2023.

20 - 06/21/2023: Corn, silage

Field name: 20

Crop: Corn, silage

Plant date: 06/21/2023



	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	132.60	19.92	117.15	969.18
Fresh water	42.32	0.00	0.00	2,540.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	181.92	19.92	117.15	3,509.65
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	136.92	22.73	218.04	1,175.19
Nutrient balance	45.00	-2.81	-100.89	2,334.45
Applied to removed ratio	1.33	0.88	0.54	2.99

Fresh water applied
69,282,800.00 <i>gallons</i>
2,551.45 <i>acre-inches</i>
31.89 <i>inches/acre</i>

Process wastewater applied
5,105,000.00 <i>gallons</i>
188.00 <i>acre-inches</i>
2.35 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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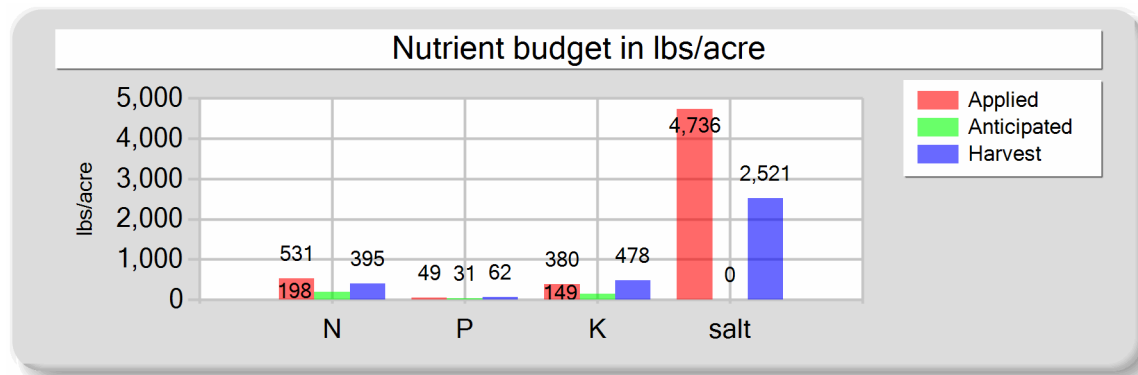
Reporting period 01/01/2023 to 12/31/2023.

21 - 11/24/2022: Wheat, silage, soft dough

Field name: 21

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022



	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	474.20	49.46	379.62	3,192.00
Fresh water	50.14	0.00	0.00	1,544.41
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	531.34	49.46	379.62	4,736.41
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	395.42	61.57	477.69	2,521.13
Nutrient balance	135.92	-12.11	-98.06	2,215.28
Applied to removed ratio	1.34	0.80	0.79	1.88

Fresh water applied
30,905,500.00 <i>gallons</i>
1,138.14 <i>acre-inches</i>
17.24 <i>inches/acre</i>

Process wastewater applied
5,194,500.00 <i>gallons</i>
191.30 <i>acre-inches</i>
2.90 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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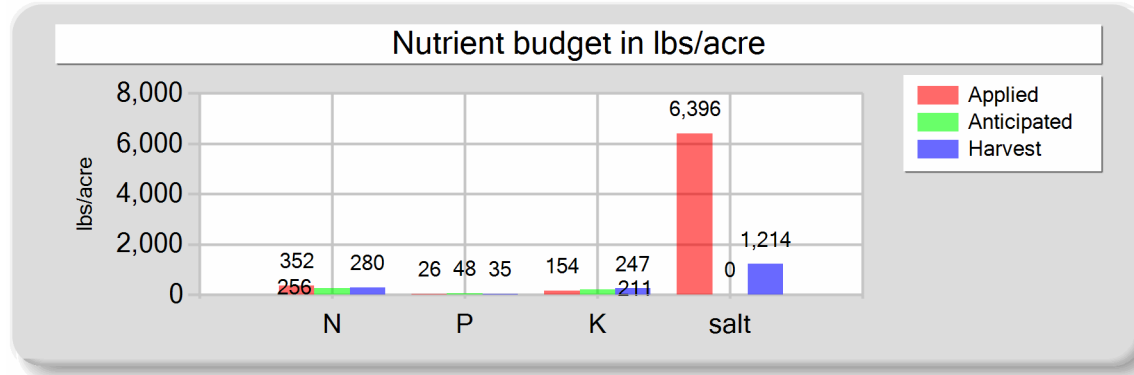
Reporting period 01/01/2023 to 12/31/2023.

21 - 05/13/2023: Corn, silage

Field name: 21

Crop: Corn, silage

Plant date: 05/13/2023



	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	174.73	26.25	154.38	1,277.16
Fresh water	169.91	0.00	0.00	5,118.80
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	351.64	26.25	154.38	6,395.97
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	280.22	34.87	247.01	1,214.27
Nutrient balance	71.43	-8.63	-92.62	5,181.70
Applied to removed ratio	1.25	0.75	0.63	5.27

Fresh water applied
56,509,917.00 <i>gallons</i>
2,081.07 <i>acre-inches</i>
31.53 <i>inches/acre</i>

Process wastewater applied
5,550,000.00 <i>gallons</i>
204.39 <i>acre-inches</i>
3.10 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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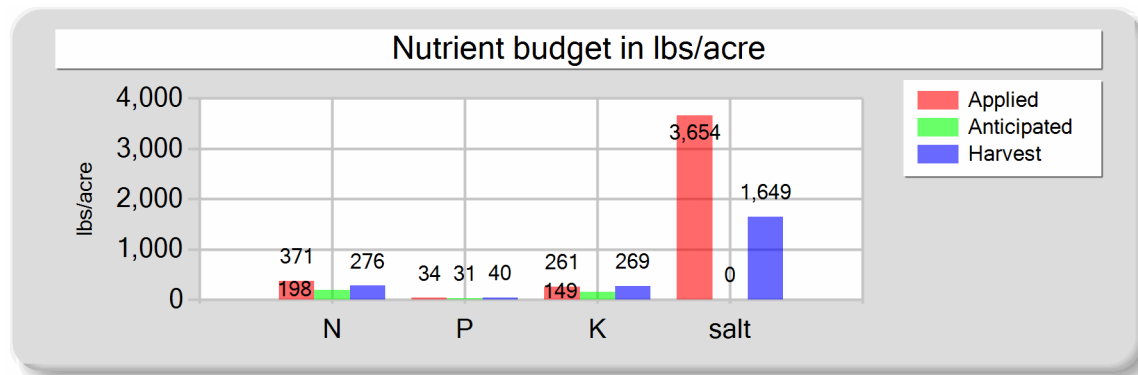
Reporting period 01/01/2023 to 12/31/2023.

22 - 10/27/2022: Wheat, silage, soft dough

Field name: 22

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022



	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	325.44	33.94	260.53	2,190.60
Fresh water	38.73	0.00	0.00	1,463.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	371.16	33.94	260.53	3,654.05
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	276.37	40.01	268.74	1,649.06
Nutrient balance	94.79	-6.06	-8.21	2,004.99
Applied to removed ratio	1.34	0.85	0.97	2.22

Fresh water applied
52,465,000.00 gallons
1,932.11 acre-inches
25.76 inches/acre

Process wastewater applied
4,051,000.00 gallons
149.18 acre-inches
1.99 inches/acre

Total harvests for the crop
1 harvests

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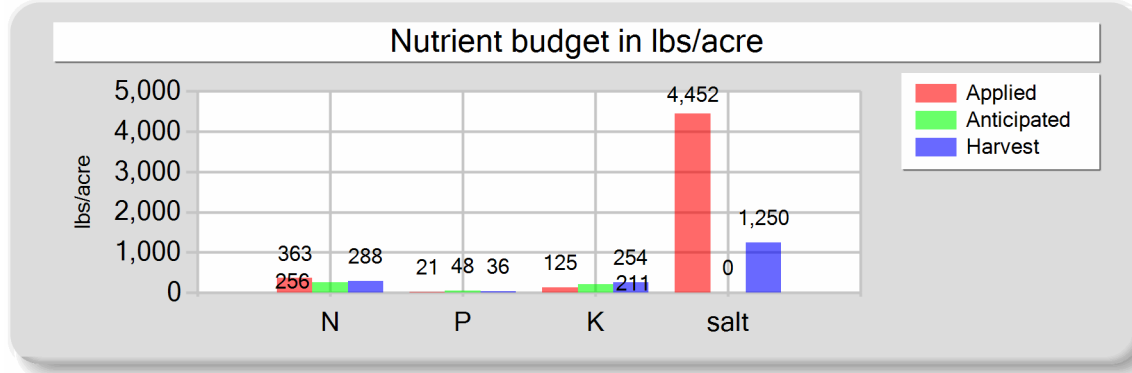
Reporting period 01/01/2023 to 12/31/2023.

22 - 06/13/2023: Corn, silage

Field name: 22

Crop: Corn, silage

Plant date: 06/13/2023



	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	64,941,650.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,391.58 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	31.89 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	280.67	21.38	124.58	945.58	Process wastewater applied
Fresh water	75.04	0.00	0.00	3,506.05	4,586,500.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	168.91 <i>acre-inches</i>
Total nutrients applied	362.71	21.38	124.58	4,451.63	2.25 <i>inches/acre</i>
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00	
Actual crop nutrient removal	288.49	35.90	254.30	1,250.12	Total harvests for the crop
Nutrient balance	74.22	-14.52	-129.72	3,201.51	1 <i>harvests</i>
Applied to removed ratio	1.26	0.60	0.49	3.56	

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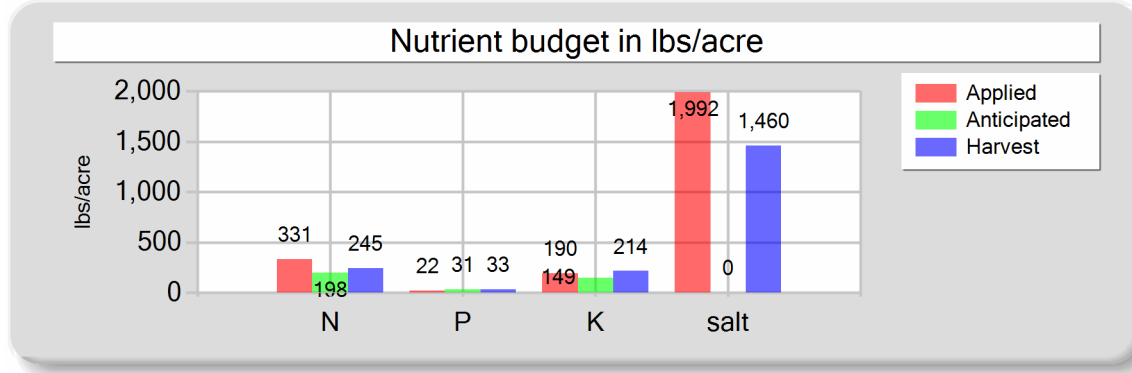
Reporting period 01/01/2023 to 12/31/2023.

23 - 10/27/2022: Wheat, silage, soft dough

Field name: 23

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022



	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	321.17	22.06	189.78	1,472.20
Fresh water	2.36	0.00	0.00	519.41
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	330.53	22.06	189.78	1,991.61
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	244.55	33.22	214.13	1,460.00
Nutrient balance	85.98	-11.16	-24.36	531.61
Applied to removed ratio	1.35	0.66	0.89	1.36

Fresh water applied
20,370,000.00 <i>gallons</i>
750.16 <i>acre-inches</i>
20.84 <i>inches/acre</i>

Process wastewater applied
1,925,500.00 <i>gallons</i>
70.91 <i>acre-inches</i>
1.97 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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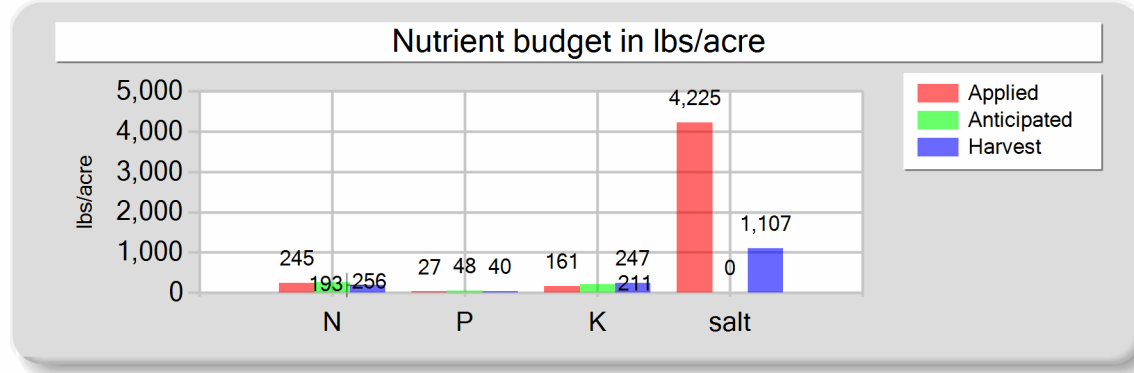
Reporting period 01/01/2023 to 12/31/2023.

23 - 06/07/2023: Corn, silage

Field name: 23

Crop: Corn, silage

Plant date: 06/07/2023



	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	30,304,420.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,116.01 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	31.00 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	181.82	27.31	160.64	1,328.94	Process wastewater applied
Fresh water	56.30	0.00	0.00	2,896.54	3,150,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	116.00 <i>acre-inches</i>
Total nutrients applied	245.12	27.31	160.64	4,225.48	3.22 <i>inches/acre</i>
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00	
Actual crop nutrient removal	193.12	39.70	246.76	1,106.84	Total harvests for the crop
Nutrient balance	52.00	-12.39	-86.12	3,118.64	1 <i>harvests</i>
Applied to removed ratio	1.27	0.69	0.65	3.82	

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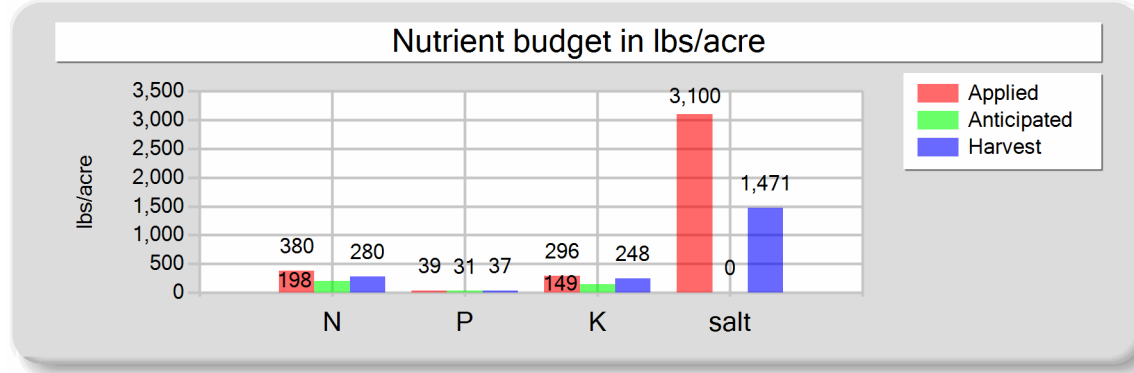
Reporting period 01/01/2023 to 12/31/2023.

24 - 11/03/2022: Wheat, silage, soft dough

Field name: 24

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022



	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	369.56	38.54	295.85	2,487.59
Fresh water	3.74	0.00	0.00	612.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	380.30	38.54	295.85	3,100.24
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	280.20	36.99	247.98	1,471.05
Nutrient balance	100.10	1.56	47.87	1,629.19
Applied to removed ratio	1.36	1.04	1.19	2.11

Fresh water applied
60,221,000.00 <i>gallons</i>
2,217.73 <i>acre-inches</i>
19.12 <i>inches/acre</i>

Process wastewater applied
7,115,000.00 <i>gallons</i>
262.02 <i>acre-inches</i>
2.26 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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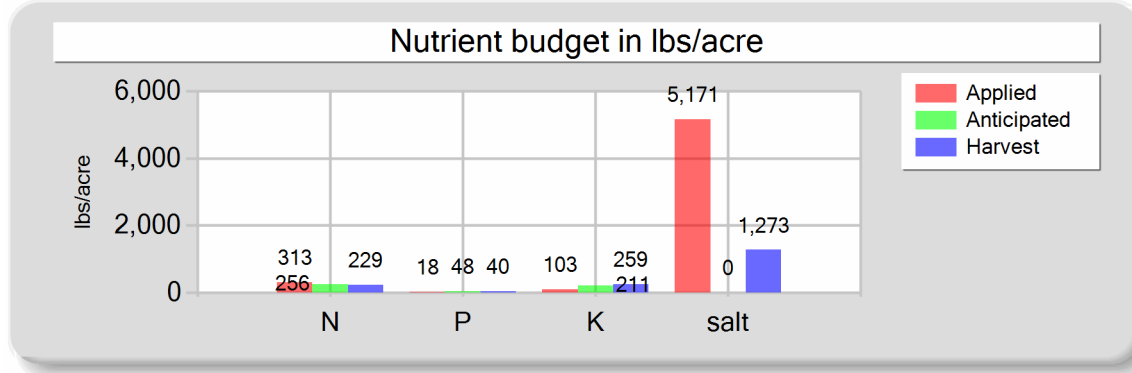
Reporting period 01/01/2023 to 12/31/2023.

24 - 06/07/2023: Corn, silage

Field name: 24

Crop: Corn, silage

Plant date: 06/07/2023



	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	116.67	17.52	103.08	852.75
Fresh water	189.19	0.00	0.00	4,318.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	312.86	17.52	103.08	5,171.06
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	229.26	39.53	258.91	1,272.81
Nutrient balance	83.59	-22.00	-155.83	3,898.25
Applied to removed ratio	1.36	0.44	0.40	4.06

Fresh water applied
99,282,530.00 <i>gallons</i>
3,656.24 <i>acre-inches</i>
31.52 <i>inches/acre</i>

Process wastewater applied
6,513,000.00 <i>gallons</i>
239.85 <i>acre-inches</i>
2.07 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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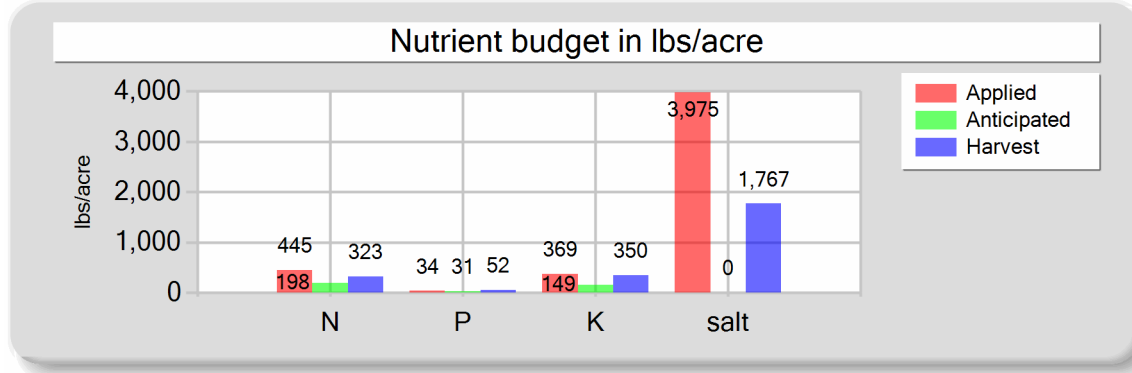
Reporting period 01/01/2023 to 12/31/2023.

25 - 11/29/2022: Wheat, silage, soft dough

Field name: 25

Crop: Wheat, silage, soft dough

Plant date: 11/29/2022



	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	30,920,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,138.68 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	18.98 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	426.43	34.47	368.88	2,956.26	Process wastewater applied
Fresh water	11.67	0.00	0.00	1,018.50	4,702,500.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	173.18 <i>acre-inches</i>
Total nutrients applied	445.10	34.47	368.88	3,974.76	2.89 <i>inches/acre</i>
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	323.42	51.51	350.10	1,767.16	Total harvests for the crop
Nutrient balance	121.68	-17.05	18.78	2,207.60	1 <i>harvests</i>
Applied to removed ratio	1.38	0.67	1.05	2.25	

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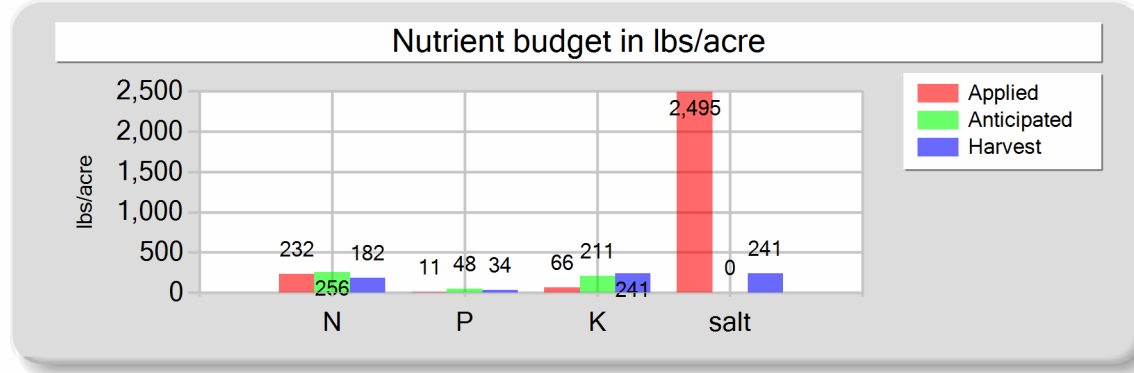
Reporting period 01/01/2023 to 12/31/2023.

25 - 07/03/2023: Corn, silage

Field name: 25

Crop: Corn, silage

Plant date: 07/03/2023



	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	200.94	11.48	66.48	473.40
Fresh water	23.69	0.00	0.00	2,022.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	231.63	11.48	66.48	2,495.42
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	182.24	33.64	241.40	241.40
Nutrient balance	49.40	-22.15	-174.92	2,254.03
Applied to removed ratio	1.27	0.34	0.28	10.34

Fresh water applied
52,976,972.00 gallons
1,950.96 acre-inches
32.52 inches/acre

Process wastewater applied
1,810,500.00 gallons
66.67 acre-inches
1.11 inches/acre

Total harvests for the crop
1 harvests

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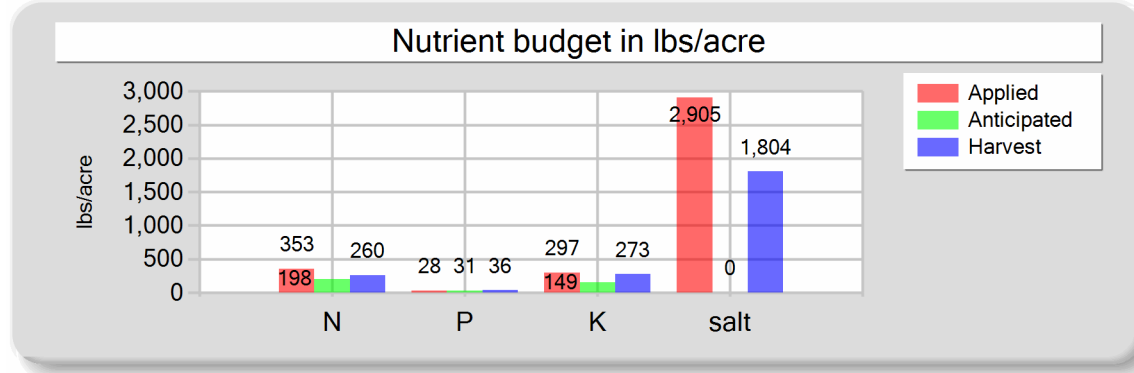
Reporting period 01/01/2023 to 12/31/2023.

26 - 10/31/2022: Wheat, silage, soft dough

Field name: 26

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022



	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	343.48	27.76	297.12	2,381.15
Fresh water	2.38	0.00	0.00	523.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	352.86	27.76	297.12	2,905.13
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	259.85	35.59	273.10	1,804.09
Nutrient balance	93.00	-7.82	24.02	1,101.04
Applied to removed ratio	1.36	0.78	1.09	1.61

Fresh water applied
49,090,000.00 <i>gallons</i>
1,807.82 <i>acre-inches</i>
21.02 <i>inches/acre</i>

Process wastewater applied
5,429,000.00 <i>gallons</i>
199.93 <i>acre-inches</i>
2.32 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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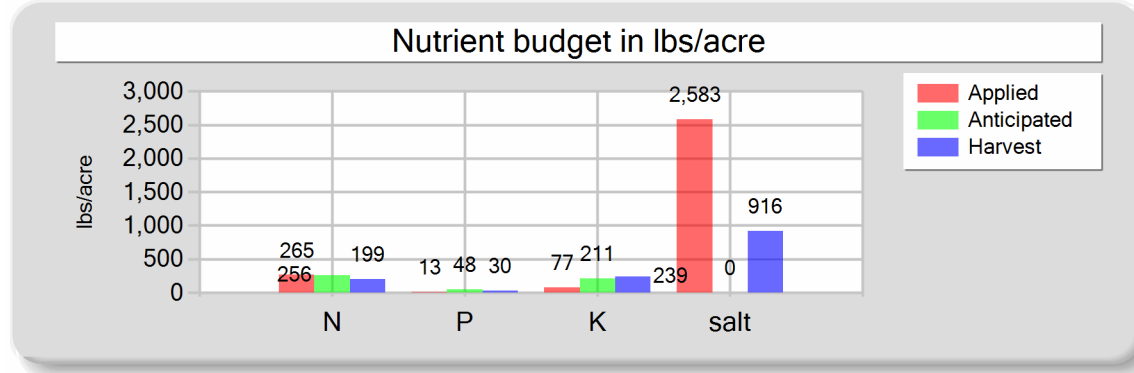
Reporting period 01/01/2023 to 12/31/2023.

26 - 06/14/2023: Corn, silage

Field name: 26

Crop: Corn, silage

Plant date: 06/14/2023



	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	233.08	13.32	77.11	549.10
Fresh water	24.87	0.00	0.00	2,034.27
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.95	13.32	77.11	2,583.37
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	199.04	30.13	239.01	915.88
Nutrient balance	65.90	-16.81	-161.91	1,667.49
Applied to removed ratio	1.33	0.44	0.32	2.82

Fresh water applied
72,241,980.00 <i>gallons</i>
2,660.43 <i>acre-inches</i>
30.94 <i>inches/acre</i>

Process wastewater applied
3,010,000.00 <i>gallons</i>
110.85 <i>acre-inches</i>
1.29 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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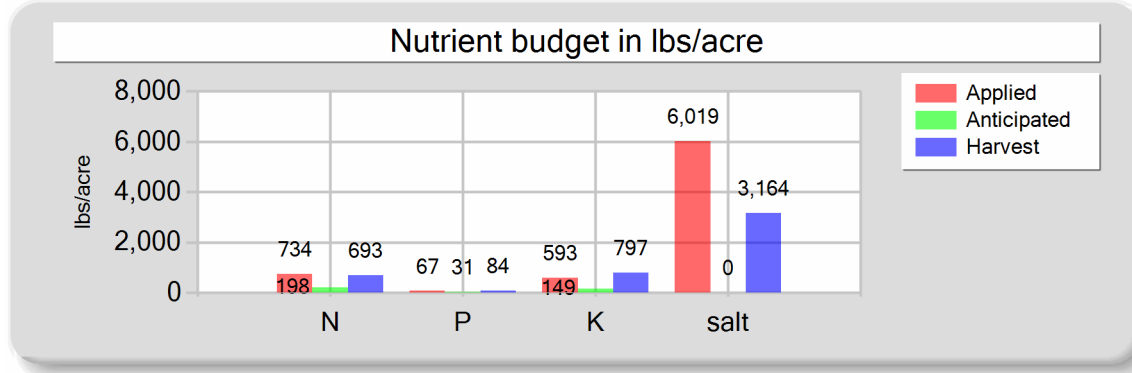
Reporting period 01/01/2023 to 12/31/2023.

27 - 11/21/2022: Wheat, silage, soft dough

Field name: 27

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022



	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	72,900,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,684.66 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	22.75 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	714.48	66.93	592.82	4,874.41	Process wastewater applied
Fresh water	12.67	0.00	0.00	1,144.62	14,672,500.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	540.34 <i>acre-inches</i>
Total nutrients applied	734.15	66.93	592.82	6,019.03	4.58 <i>inches/acre</i>
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	692.69	84.22	797.34	3,164.44	Total harvests for the crop
Nutrient balance	41.46	-17.29	-204.52	2,854.58	1 <i>harvests</i>
Applied to removed ratio	1.06	0.79	0.74	1.90	

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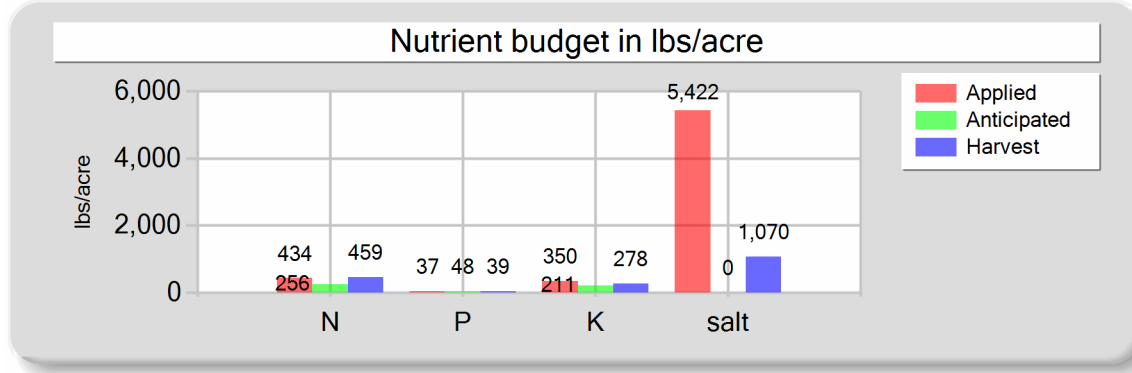
Reporting period 01/01/2023 to 12/31/2023.

27 - 05/27/2023: Corn, silage

Field name: 27

Crop: Corn, silage

Plant date: 05/27/2023



	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	399.32	36.99	350.22	3,260.02
Fresh water	28.03	0.00	0.00	2,162.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	434.35	36.99	350.22	5,422.17
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	458.71	38.99	277.94	1,069.63
Nutrient balance	-24.36	-2.00	72.29	4,352.54
Applied to removed ratio	0.95	0.95	1.26	5.07

Fresh water applied
93,166,646.00 <i>gallons</i>
3,431.01 <i>acre-inches</i>
29.08 <i>inches/acre</i>

Process wastewater applied
9,256,500.00 <i>gallons</i>
340.89 <i>acre-inches</i>
2.89 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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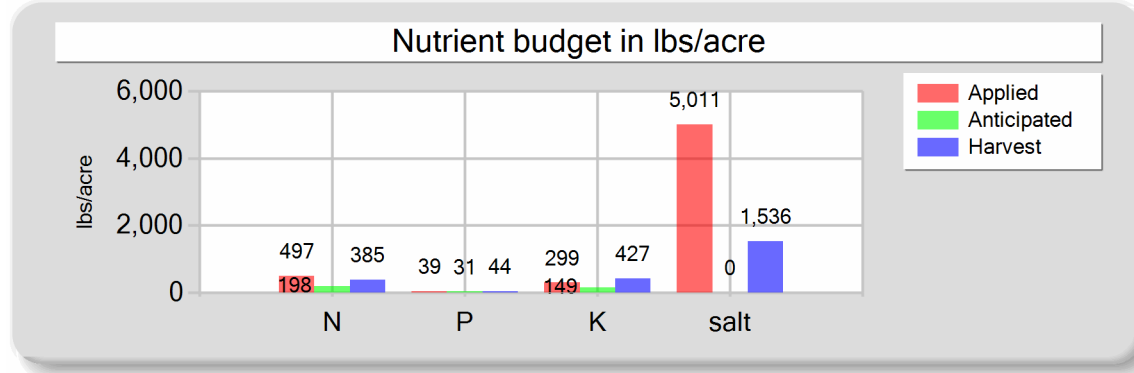
Reporting period 01/01/2023 to 12/31/2023.

29 - 11/30/2022: Wheat, silage, soft dough

Field name: 29

Crop: Wheat, silage, soft dough

Plant date: 11/30/2022



	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	481.30	38.72	299.18	4,088.21
Fresh water	8.67	0.00	0.00	922.40
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	496.97	38.72	299.18	5,010.61
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	385.31	44.41	427.32	1,536.43
Nutrient balance	111.66	-5.70	-128.14	3,474.19
Applied to removed ratio	1.29	0.87	0.70	3.26

Fresh water applied
22,598,600.00 <i>gallons</i>
832.23 <i>acre-inches</i>
23.12 <i>inches/acre</i>

Process wastewater applied
2,419,500.00 <i>gallons</i>
89.10 <i>acre-inches</i>
2.48 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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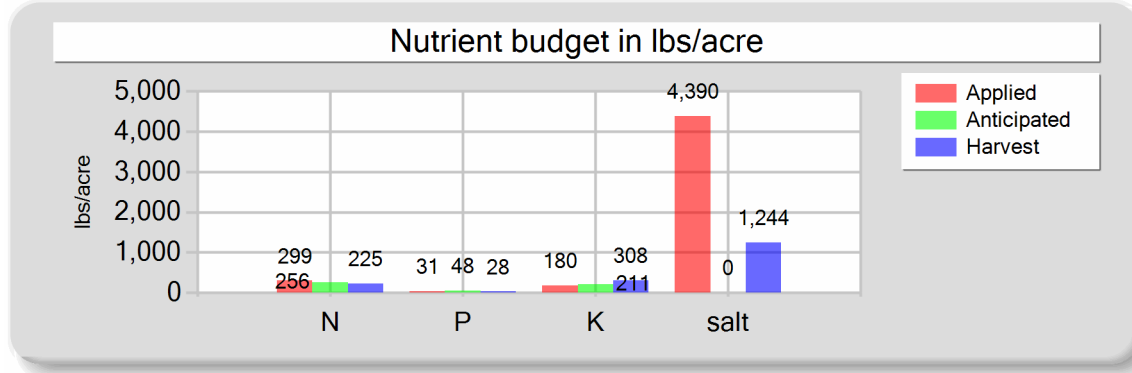
Reporting period 01/01/2023 to 12/31/2023.

29 - 05/24/2023: Corn, silage

Field name: 29

Crop: Corn, silage

Plant date: 05/24/2023



	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	203.32	30.54	179.64	1,486.09
Fresh water	88.34	0.00	0.00	2,903.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	298.66	30.54	179.64	4,389.65
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	225.38	27.92	307.53	1,244.27
Nutrient balance	73.28	2.62	-127.89	3,145.38
Applied to removed ratio	1.33	1.09	0.58	3.53

Fresh water applied
31,922,448.00 <i>gallons</i>
1,175.60 <i>acre-inches</i>
32.66 <i>inches/acre</i>

Process wastewater applied
3,522,500.00 <i>gallons</i>
129.72 <i>acre-inches</i>
3.60 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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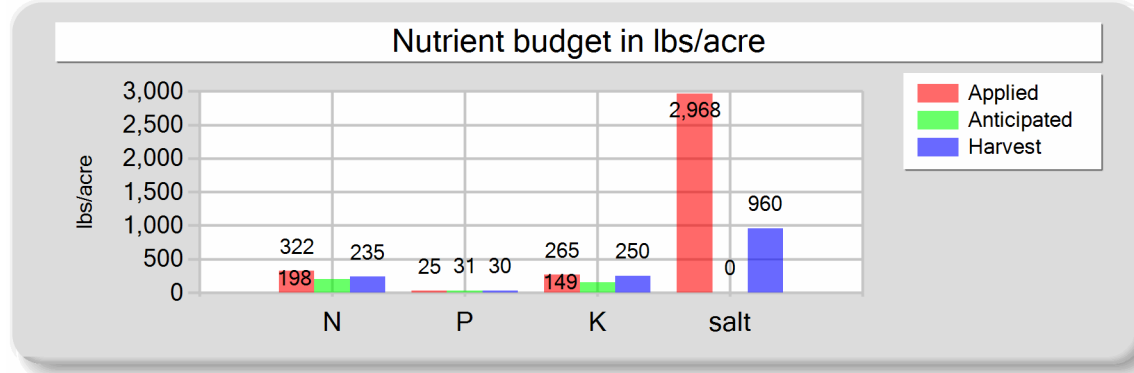
Reporting period 01/01/2023 to 12/31/2023.

30 - 11/29/2022: Wheat, silage, soft dough

Field name: 30

Crop: Wheat, silage, soft dough

Plant date: 11/29/2022



	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	306.13	24.74	264.82	2,122.28
Fresh water	8.52	0.00	0.00	845.82
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	321.65	24.74	264.82	2,968.10
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	235.11	30.10	249.76	959.98
Nutrient balance	86.54	-5.36	15.06	2,008.13
Applied to removed ratio	1.37	0.82	1.06	3.09

Fresh water applied
21,103,000.00 <i>gallons</i>
777.15 <i>acre-inches</i>
19.43 <i>inches/acre</i>

Process wastewater applied
2,250,600.00 <i>gallons</i>
82.88 <i>acre-inches</i>
2.07 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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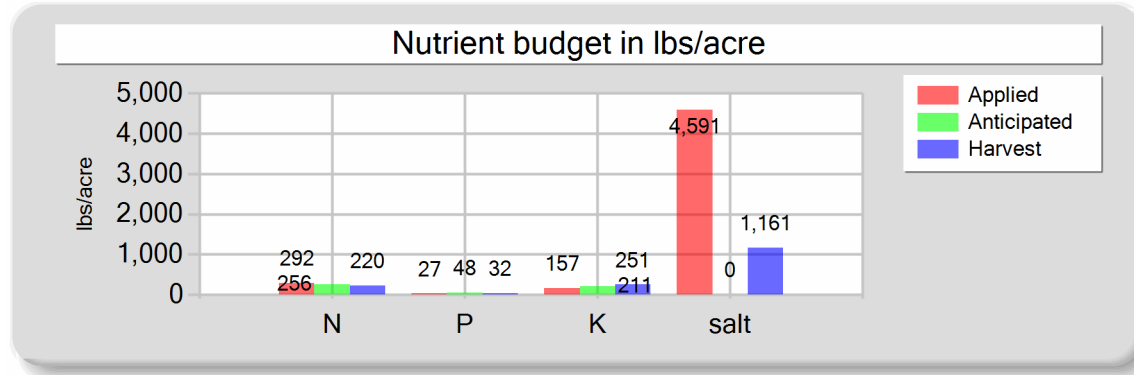
Reporting period 01/01/2023 to 12/31/2023.

30 - 05/27/2023: Corn, silage

Field name: 30

Crop: Corn, silage

Plant date: 05/27/2023



	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	177.79	26.70	157.08	1,299.51
Fresh water	107.31	0.00	0.00	3,291.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	292.10	26.70	157.08	4,590.66
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	219.62	31.80	251.24	1,161.33
Nutrient balance	72.48	-5.10	-94.16	3,429.33
Applied to removed ratio	1.33	0.84	0.63	3.95

Fresh water applied
33,856,257.00 <i>gallons</i>
1,246.81 <i>acre-inches</i>
31.17 <i>inches/acre</i>

Process wastewater applied
3,422,500.00 <i>gallons</i>
126.04 <i>acre-inches</i>
3.15 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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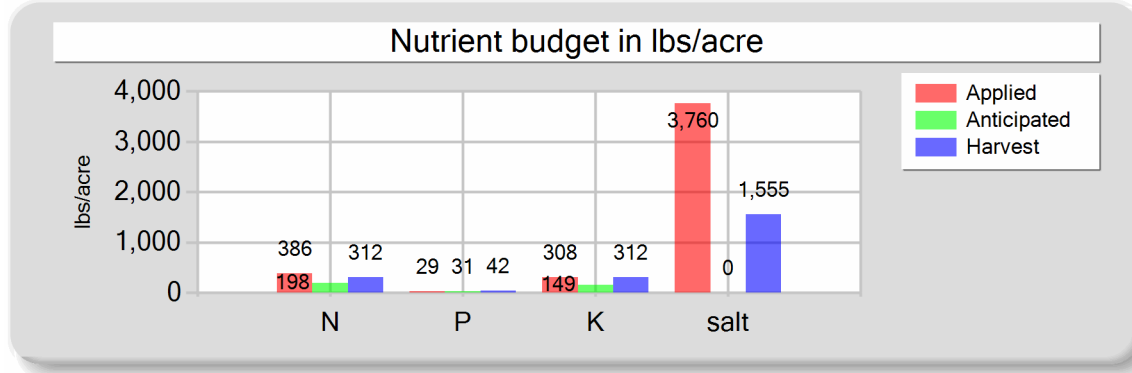
Reporting period 01/01/2023 to 12/31/2023.

31 - 10/24/2022: Wheat, silage, soft dough

Field name: 31

Crop: Wheat, silage, soft dough

Plant date: 10/24/2022



	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	356.48	28.81	308.36	2,471.27
Fresh water	22.85	0.00	0.00	1,288.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	386.32	28.81	308.36	3,760.15
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	312.44	41.76	311.81	1,555.17
Nutrient balance	73.88	-12.95	-3.45	2,204.98
Applied to removed ratio	1.24	0.69	0.99	2.42

Fresh water applied
33,963,600.00 gallons
1,250.76 acre-inches
21.56 inches/acre

Process wastewater applied
3,800,000.00 gallons
139.94 acre-inches
2.41 inches/acre

Total harvests for the crop
1 harvests

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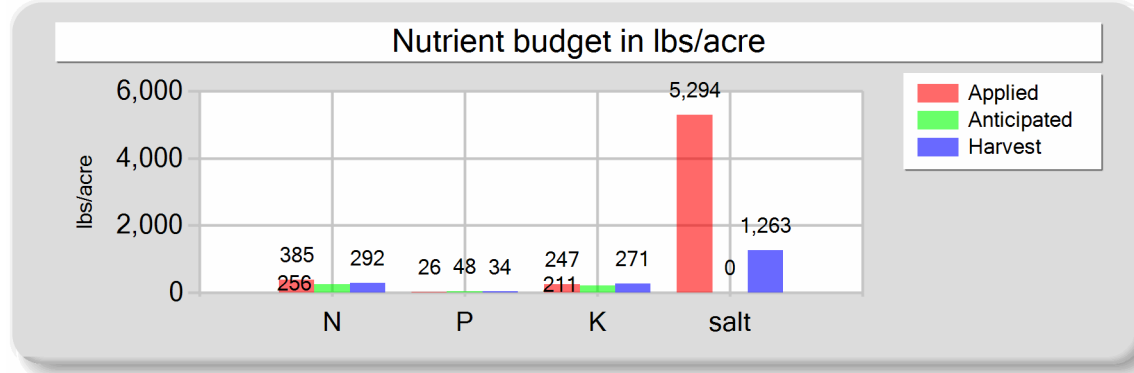
Reporting period 01/01/2023 to 12/31/2023.

31 - 06/15/2023: Corn, silage

Field name: 31

Crop: Corn, silage

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	281.60	26.08	246.98	2,298.95
Fresh water	96.10	0.00	0.00	2,995.27
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	384.70	26.08	246.98	5,294.22
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	291.83	33.67	271.42	1,263.25
Nutrient balance	92.86	-7.59	-24.45	4,030.98
Applied to removed ratio	1.32	0.77	0.91	4.19

Fresh water applied
48,775,124.00 gallons
1,796.22 acre-inches
30.97 inches/acre

Process wastewater applied
3,208,500.00 gallons
118.16 acre-inches
2.04 inches/acre

Total harvests for the crop
1 harvests

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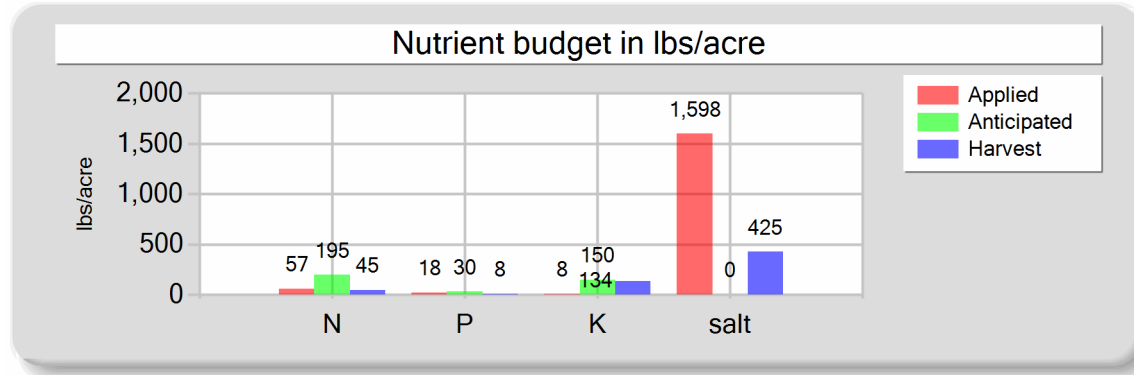
Reporting period 01/01/2023 to 12/31/2023.

32/33 - 04/03/2018: Almond, in shell

Field name: 32/33

Crop: Almond, in shell

Plant date: 04/03/2018



	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	68,256,021.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,513.64 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	35.40 <i>inches/acre</i>
Dry manure	39.32	17.71	7.97	715.27	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	4.01	0.00	0.00	882.47	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	57.33	17.71	7.97	1,597.74	
Anticipated crop nutrient removal	195.00	30.00	150.00	0.00	
Actual crop nutrient removal	44.95	8.06	133.74	424.79	
Nutrient balance	12.39	9.66	-125.77	1,172.96	
Applied to removed ratio	1.28	2.20	0.06	3.76	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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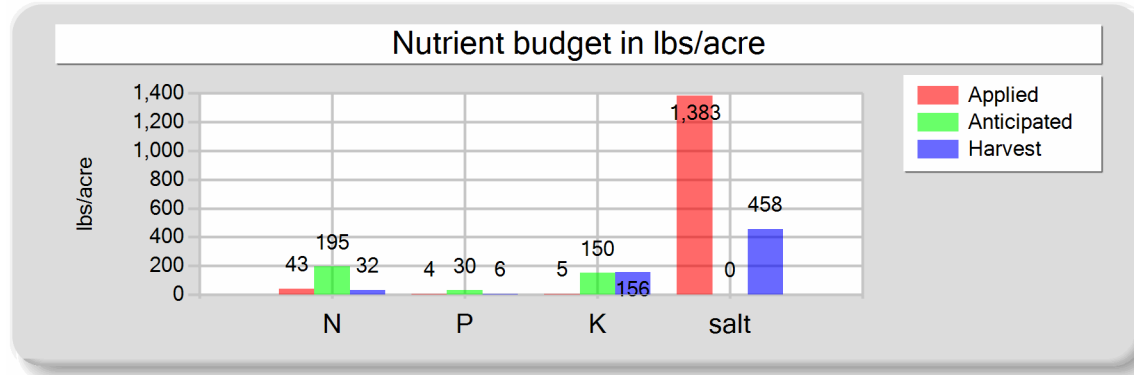
Reporting period 01/01/2023 to 12/31/2023.

34/35 - 04/01/2018: Almond, in shell

Field name: 34/35

Crop: Almond, in shell

Plant date: 04/01/2018



	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	165,698,830.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	6,102.12 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	31.29 <i>inches/acre</i>
Dry manure	25.07	4.40	4.88	603.42	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	3.55	0.00	0.00	780.02	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	42.61	4.40	4.88	1,383.44	
Anticipated crop nutrient removal	195.00	30.00	150.00	0.00	
Actual crop nutrient removal	32.09	5.97	156.28	457.55	
Nutrient balance	10.53	-1.57	-151.40	925.89	
Applied to removed ratio	1.33	0.74	0.03	3.02	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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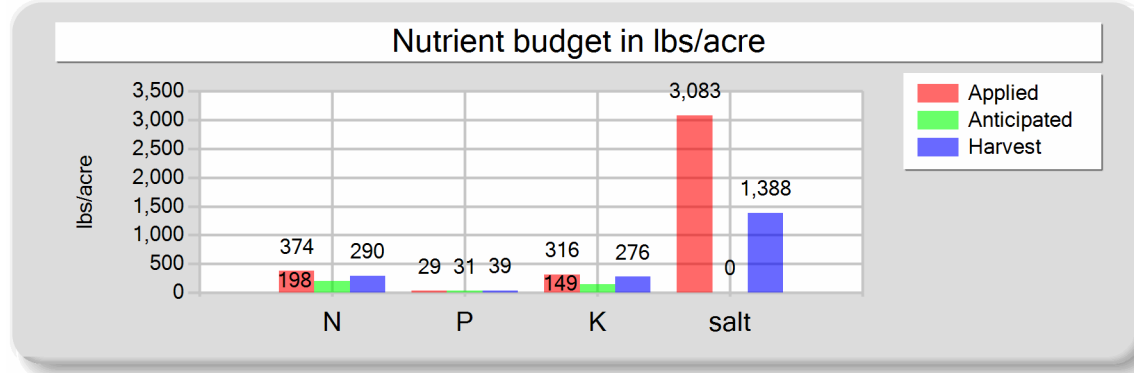
Reporting period 01/01/2023 to 12/31/2023.

37 - 10/20/2022: Wheat, silage, soft dough

Field name: 37

Crop: Wheat, silage, soft dough

Plant date: 10/20/2022



	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	364.80	29.49	315.57	2,529.01
Fresh water	2.52	0.00	0.00	553.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	374.32	29.49	315.57	3,082.57
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	290.01	39.05	275.79	1,387.65
Nutrient balance	84.31	-9.56	39.78	1,694.91
Applied to removed ratio	1.29	0.76	1.14	2.22

Fresh water applied
45,227,740.00 gallons
1,665.58 acre-inches
22.21 inches/acre

Process wastewater applied
5,028,600.00 gallons
185.19 acre-inches
2.47 inches/acre

Total harvests for the crop
1 harvests

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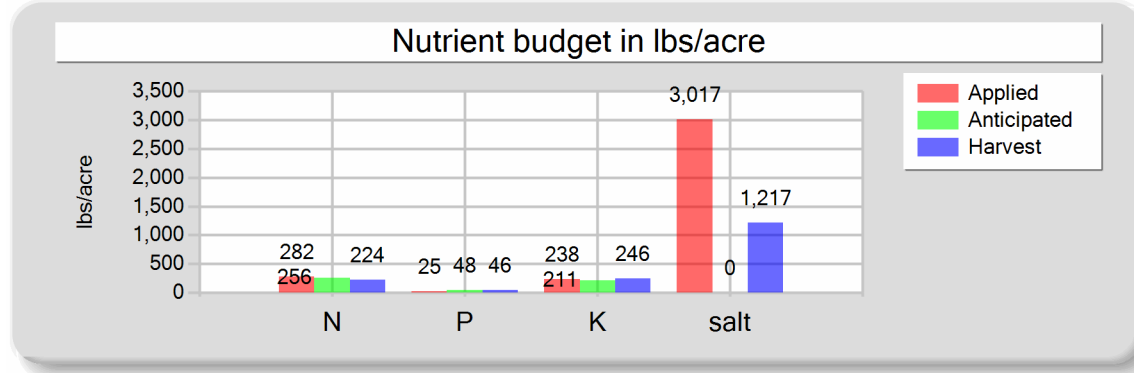
Reporting period 01/01/2023 to 12/31/2023.

37 - 05/14/2023: Corn, silage

Field name: 37

Crop: Corn, silage

Plant date: 05/14/2023



	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	271.51	25.15	238.13	2,216.61
Fresh water	3.64	0.00	0.00	800.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	282.15	25.15	238.13	3,017.03
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	224.10	45.61	245.73	1,216.84
Nutrient balance	58.05	-20.46	-7.60	1,800.20
Applied to removed ratio	1.26	0.55	0.97	2.48

Fresh water applied
65,397,740.00 <i>gallons</i>
2,408.38 <i>acre-inches</i>
32.11 <i>inches/acre</i>

Process wastewater applied
4,000,320.00 <i>gallons</i>
147.32 <i>acre-inches</i>
1.96 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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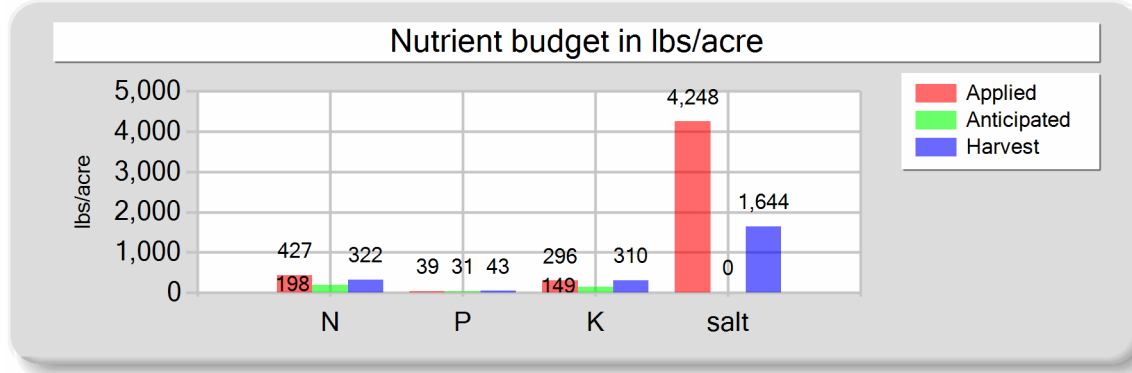
Reporting period 01/01/2023 to 12/31/2023.

38 - 10/24/2022: Wheat, silage, soft dough

Field name: 38

Crop: Wheat, silage, soft dough

Plant date: 10/24/2022



	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	43,136,090.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,588.56 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	21.18 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	369.55	38.54	295.84	2,487.53	Process wastewater applied
Fresh water	50.93	0.00	0.00	1,760.83	4,600,100.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	169.41 <i>acre-inches</i>
Total nutrients applied	427.48	38.54	295.84	4,248.36	2.26 <i>inches/acre</i>
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	322.03	43.30	309.70	1,644.42	Total harvests for the crop
Nutrient balance	105.45	-4.76	-13.86	2,603.95	1 <i>harvests</i>
Applied to removed ratio	1.33	0.89	0.96	2.58	

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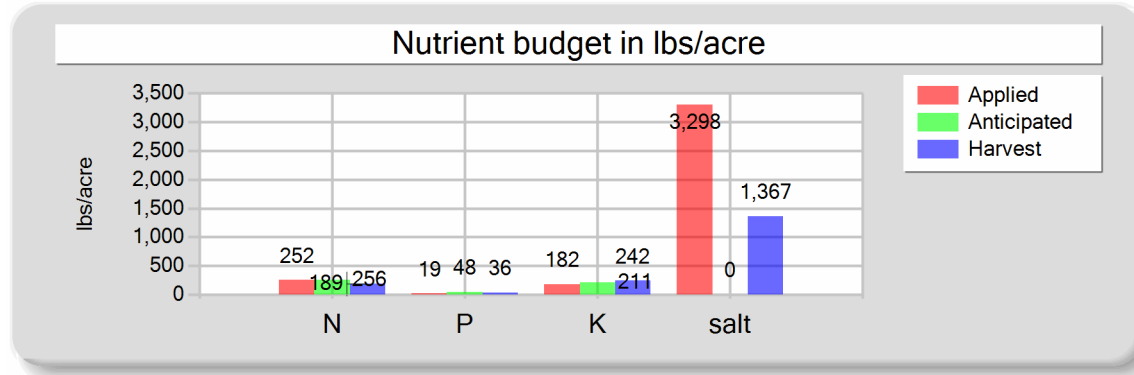
Reporting period 01/01/2023 to 12/31/2023.

38 - 05/19/2023: Corn, silage

Field name: 38

Crop: Corn, silage

Plant date: 05/19/2023



	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	0.00	0.00	0.00	0.00
Process wastewater	207.03	19.18	181.57	1,690.14
Fresh water	38.28	0.00	0.00	1,607.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	252.30	19.18	181.57	3,298.06
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	189.26	35.57	241.83	1,366.88
Nutrient balance	63.04	-16.40	-60.26	1,931.18
Applied to removed ratio	1.33	0.54	0.75	2.41

Fresh water applied
62,091,310.00 <i>gallons</i>
2,286.61 <i>acre-inches</i>
30.49 <i>inches/acre</i>

Process wastewater applied
3,050,200.00 <i>gallons</i>
112.33 <i>acre-inches</i>
1.50 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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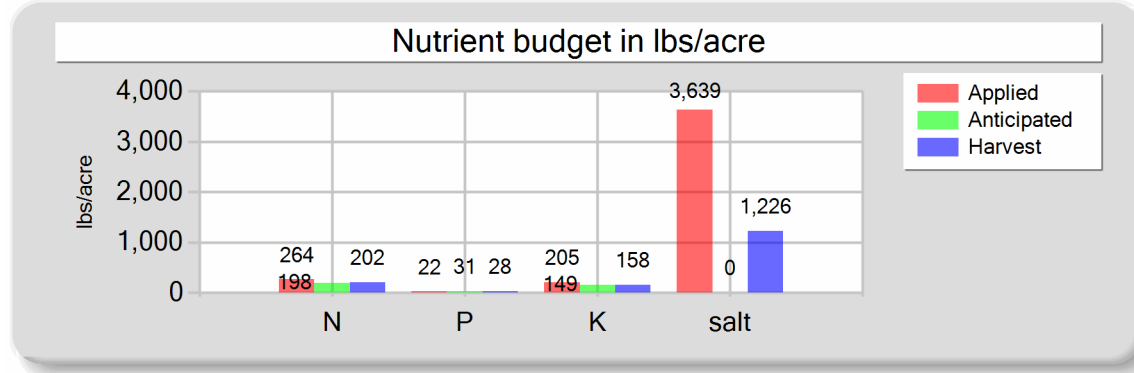
Reporting period 01/01/2023 to 12/31/2023.

39 - 11/05/2022: Wheat, silage, soft dough

Field name: 39

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022



	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	234.02	21.68	205.25	1,910.55
Fresh water	23.20	0.00	0.00	1,728.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.22	21.68	205.25	3,639.45
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	202.00	27.89	157.75	1,226.41
Nutrient balance	62.22	-6.22	47.50	2,413.04
Applied to removed ratio	1.31	0.78	1.30	2.97

Fresh water applied
41,490,445.00 gallons
1,527.95 acre-inches
20.65 inches/acre

Process wastewater applied
3,402,000.00 gallons
125.28 acre-inches
1.69 inches/acre

Total harvests for the crop
1 harvests

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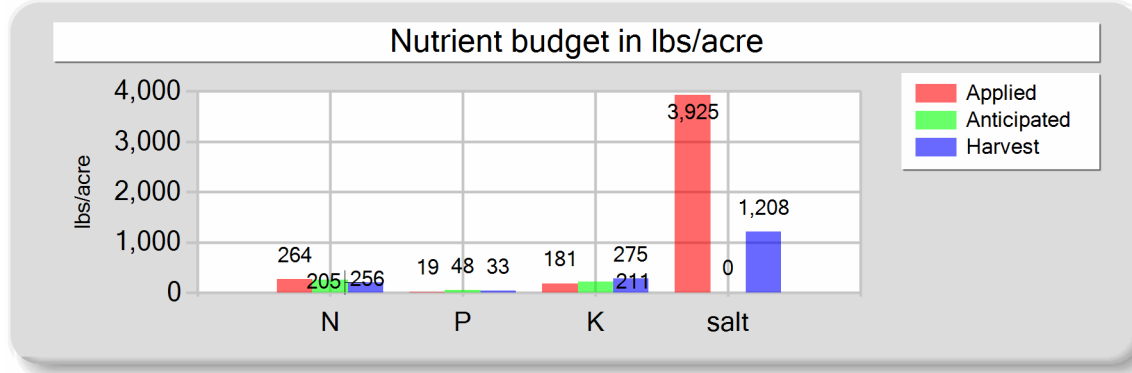
Reporting period 01/01/2023 to 12/31/2023.

39 - 06/05/2023: Corn, silage

Field name: 39

Crop: Corn, silage

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	0.00	0.00	0.00	0.00
Process wastewater	206.73	19.15	181.31	1,687.71
Fresh water	50.01	0.00	0.00	2,236.86
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	263.74	19.15	181.31	3,924.56
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	204.74	33.37	274.89	1,207.61
Nutrient balance	59.00	-14.22	-93.58	2,716.95
Applied to removed ratio	1.29	0.57	0.66	3.25

Fresh water applied
61,405,802.00 <i>gallons</i>
2,261.37 <i>acre-inches</i>
30.56 <i>inches/acre</i>

Process wastewater applied
3,005,200.00 <i>gallons</i>
110.67 <i>acre-inches</i>
1.50 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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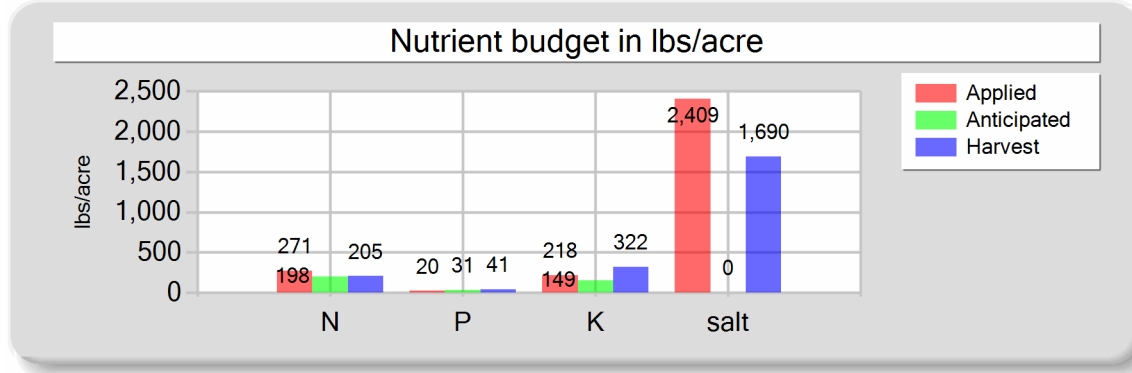
Reporting period 01/01/2023 to 12/31/2023.

40 - 11/14/2022: Wheat, silage, soft dough

Field name: 40

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)
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	252.23	20.39	218.18	1,748.56
Fresh water	11.75	0.00	0.00	660.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	270.97	20.39	218.18	2,409.35
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	205.23	40.64	321.93	1,690.12
Nutrient balance	65.74	-20.26	-103.75	719.22
Applied to removed ratio	1.32	0.50	0.68	1.43

Fresh water applied
41,897,722.00 gallons
1,542.95 acre-inches
19.53 inches/acre

Process wastewater applied
3,662,200.00 gallons
134.87 acre-inches
1.71 inches/acre

Total harvests for the crop
1 harvests

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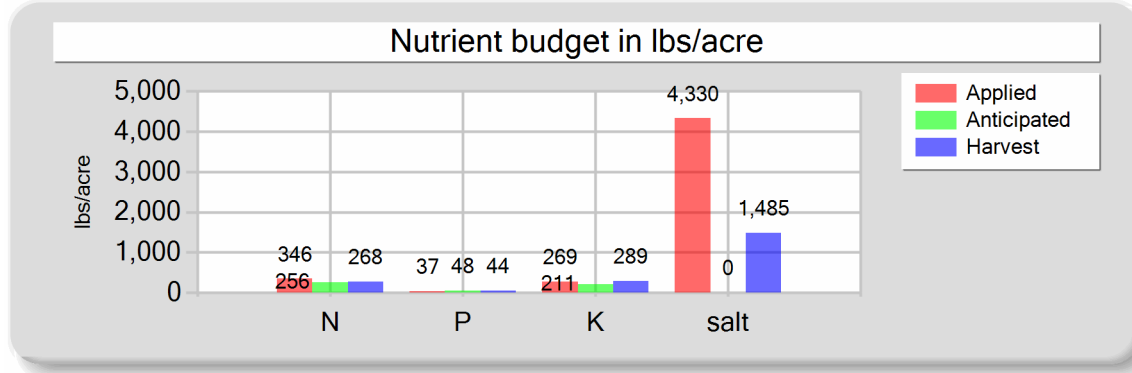
Reporting period 01/01/2023 to 12/31/2023.

40 - 06/12/2023: Corn, silage

Field name: 40

Crop: Corn, silage

Plant date: 06/12/2023



	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	305.93	37.04	269.29	2,368.31
Fresh water	33.20	0.00	0.00	1,961.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	346.13	37.04	269.29	4,329.62
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	267.56	44.28	288.87	1,484.59
Nutrient balance	78.57	-7.23	-19.57	2,845.03
Applied to removed ratio	1.29	0.84	0.93	2.92

Fresh water applied
64,475,832.00 <i>gallons</i>
2,374.43 <i>acre-inches</i>
30.06 <i>inches/acre</i>

Process wastewater applied
8,150,670.00 <i>gallons</i>
300.16 <i>acre-inches</i>
3.80 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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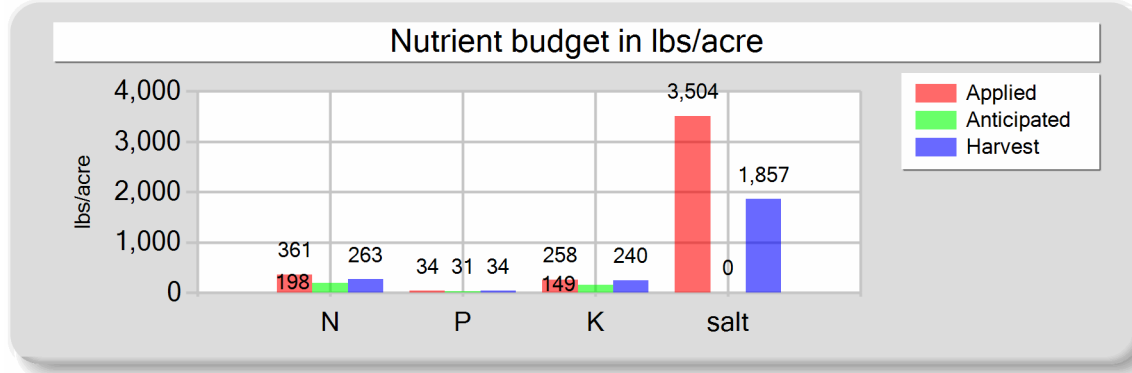
Reporting period 01/01/2023 to 12/31/2023.

41 - 11/22/2022: Wheat, silage, soft dough

Field name: 41

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022



	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	321.74	33.56	257.57	2,165.75
Fresh water	32.40	0.00	0.00	1,337.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	361.14	33.56	257.57	3,503.69
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	262.79	34.16	240.01	1,857.04
Nutrient balance	98.35	-0.61	17.56	1,646.65
Applied to removed ratio	1.37	0.98	1.07	1.89

Fresh water applied
40,908,708.00 gallons
1,506.53 acre-inches
20.09 inches/acre

Process wastewater applied
4,005,050.00 gallons
147.49 acre-inches
1.97 inches/acre

Total harvests for the crop
1 harvests

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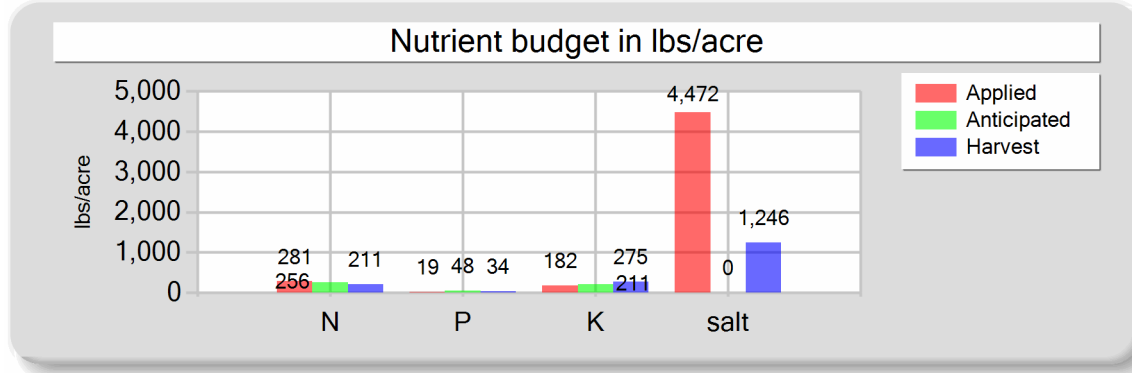
Reporting period 01/01/2023 to 12/31/2023.

41 - 06/19/2023: Corn, silage

Field name: 41

Crop: Corn, silage

Plant date: 06/19/2023



	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	68,353,073.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,517.21 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	33.56 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	207.04	19.18	181.59	1,690.28	Process wastewater applied
Fresh water	67.23	0.00	0.00	2,781.33	3,050,451.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	112.34 <i>acre-inches</i>
Total nutrients applied	281.27	19.18	181.59	4,471.61	1.50 <i>inches/acre</i>
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00	
Actual crop nutrient removal	211.50	34.33	274.94	1,246.19	Total harvests for the crop
Nutrient balance	69.77	-15.15	-93.36	3,225.42	1 <i>harvests</i>
Applied to removed ratio	1.33	0.56	0.66	3.59	

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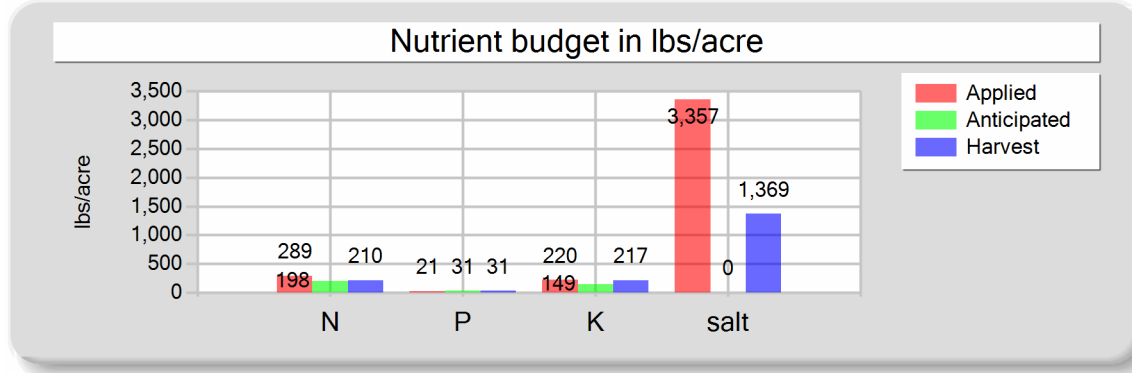
Reporting period 01/01/2023 to 12/31/2023.

42 - 11/29/2022: Wheat, silage, soft dough

Field name: 42

Crop: Wheat, silage, soft dough

Plant date: 11/29/2022



	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	254.85	20.60	220.45	1,766.76
Fresh water	26.98	0.00	0.00	1,590.04
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	288.83	20.60	220.45	3,356.79
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	210.48	30.81	216.82	1,369.36
Nutrient balance	78.36	-10.21	3.64	1,987.43
Applied to removed ratio	1.37	0.67	1.02	2.45

Fresh water applied
42,582,572.00 gallons
1,568.17 acre-inches
19.85 inches/acre

Process wastewater applied
3,700,320.00 gallons
136.27 acre-inches
1.72 inches/acre

Total harvests for the crop
1 harvests

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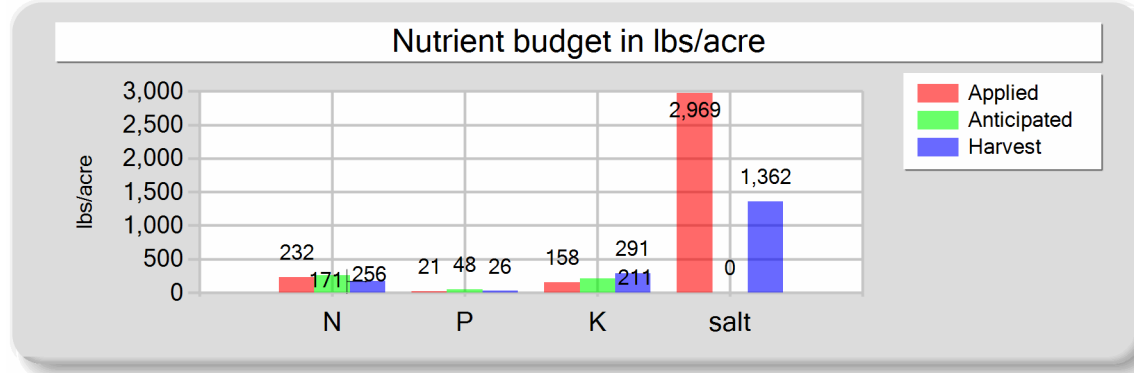
Reporting period 01/01/2023 to 12/31/2023.

42 - 06/23/2023: Corn, silage

Field name: 42

Crop: Corn, silage

Plant date: 06/23/2023



	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	67,338,055.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,479.83 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	31.39 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	196.92	20.54	157.65	1,325.56	Process wastewater applied
Fresh water	28.23	0.00	0.00	1,643.93	2,582,040.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	95.09 <i>acre-inches</i>
Total nutrients applied	232.15	20.54	157.65	2,969.49	1.20 <i>inches/acre</i>
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00	
Actual crop nutrient removal	170.60	25.82	291.11	1,361.67	Total harvests for the crop
Nutrient balance	61.55	-5.29	-133.47	1,607.82	1 <i>harvests</i>
Applied to removed ratio	1.36	0.80	0.54	2.18	

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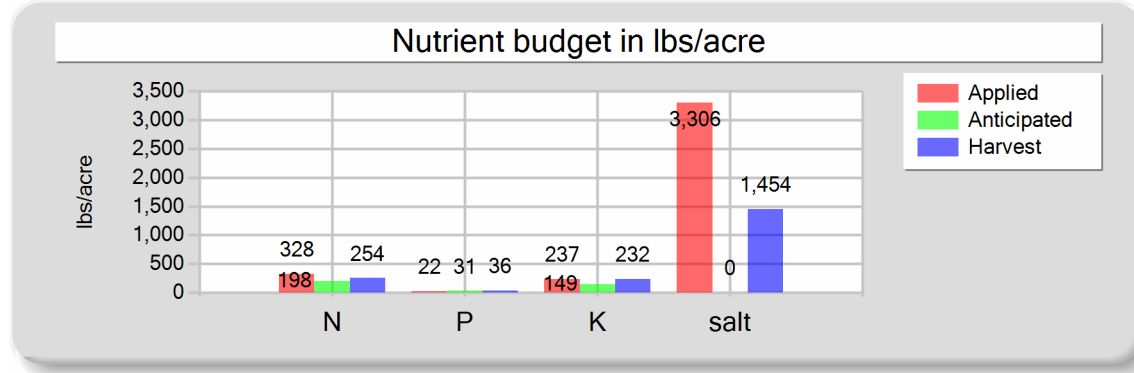
Reporting period 01/01/2023 to 12/31/2023.

45 - 10/24/2022: Wheat, silage, soft dough

Field name: 45

Crop: Wheat, silage, soft dough

Plant date: 10/24/2022



	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	273.41	22.10	236.51	1,895.40
Fresh water	47.22	0.00	0.00	1,410.24
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.63	22.10	236.51	3,305.64
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	253.57	35.65	231.69	1,454.47
Nutrient balance	74.06	-13.55	4.82	1,851.17
Applied to removed ratio	1.29	0.62	1.02	2.27

Fresh water applied
9,910,220.00 <i>gallons</i>
364.96 <i>acre-inches</i>
18.25 <i>inches/acre</i>

Process wastewater applied
1,005,000.00 <i>gallons</i>
37.01 <i>acre-inches</i>
1.85 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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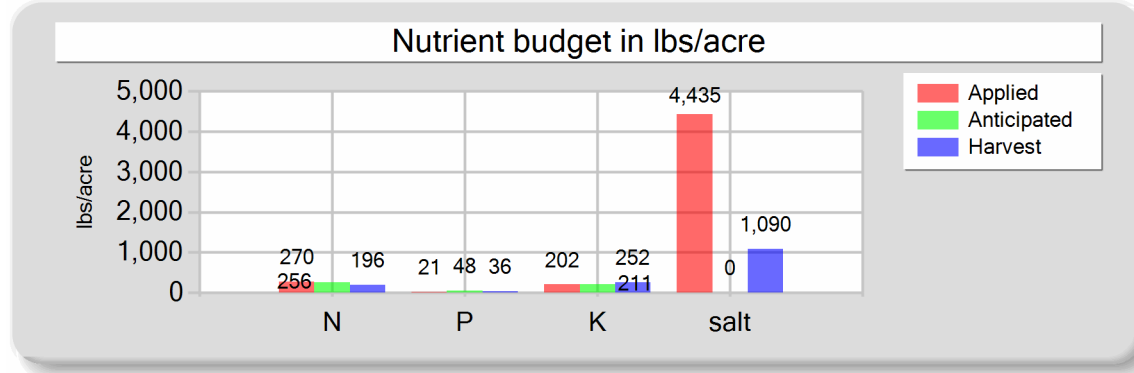
Reporting period 01/01/2023 to 12/31/2023.

45 - 05/31/2023: Corn, silage

Field name: 45

Crop: Corn, silage

Plant date: 05/31/2023



	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	230.09	21.31	201.80	1,878.43
Fresh water	32.89	0.00	0.00	2,556.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	269.98	21.31	201.80	4,435.19
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	196.28	36.22	251.59	1,090.22
Nutrient balance	73.70	-14.91	-49.79	3,344.97
Applied to removed ratio	1.38	0.59	0.80	4.07

Fresh water applied
16,444,708.00 gallons
605.60 acre-inches
30.28 inches/acre

Process wastewater applied
904,000.00 gallons
33.29 acre-inches
1.66 inches/acre

Total harvests for the crop
1 harvests

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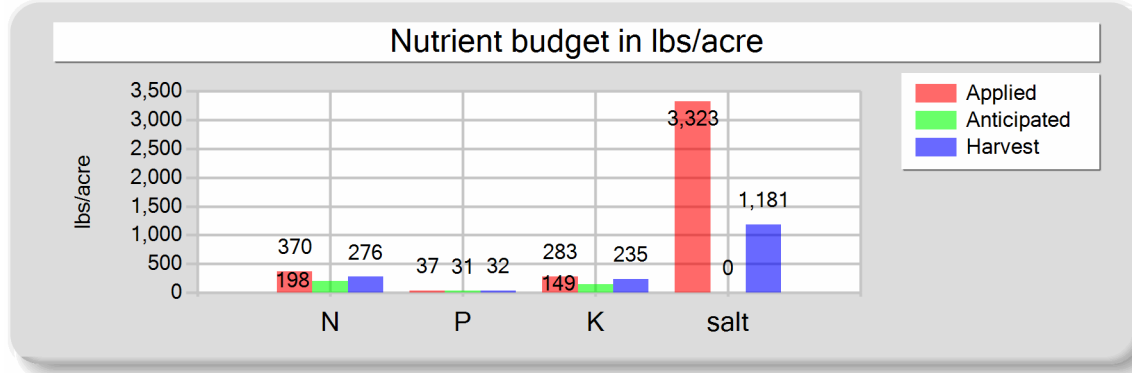
Reporting period 01/01/2023 to 12/31/2023.

46 - 11/24/2022: Wheat, silage, soft dough

Field name: 46

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022



	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	353.45	36.86	282.95	2,379.16
Fresh water	9.77	0.00	0.00	943.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	370.22	36.86	282.95	3,322.60
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	275.99	32.44	235.03	1,180.65
Nutrient balance	94.23	4.43	47.92	2,141.94
Applied to removed ratio	1.34	1.14	1.20	2.81

Fresh water applied
22,637,500.00 gallons
833.66 acre-inches
20.84 inches/acre

Process wastewater applied
2,346,500.00 gallons
86.41 acre-inches
2.16 inches/acre

Total harvests for the crop
1 harvests

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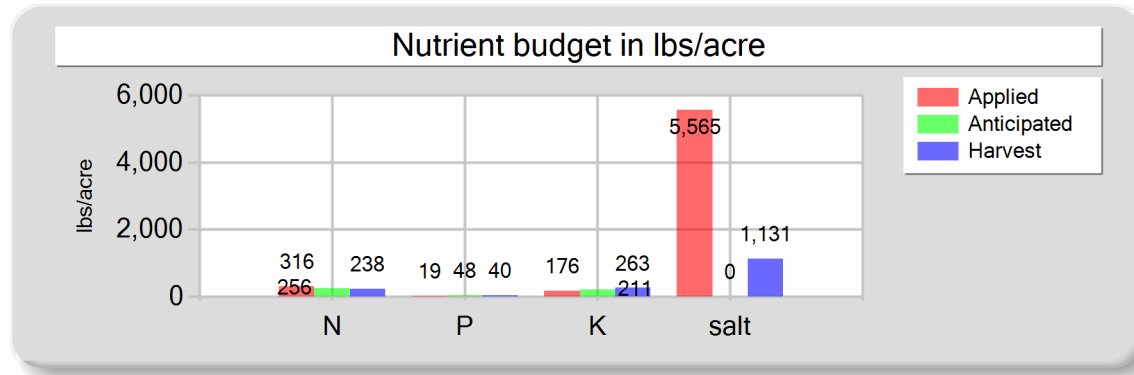
Reporting period 01/01/2023 to 12/31/2023.

46 - 06/23/2023: Corn, silage

Field name: 46

Crop: Corn, silage

Plant date: 06/23/2023



	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	201.07	18.62	176.35	1,641.54
Fresh water	107.78	0.00	0.00	3,923.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	315.85	18.62	176.35	5,565.01
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	237.88	39.82	262.66	1,131.14
Nutrient balance	77.97	-21.20	-86.31	4,433.87
Applied to removed ratio	1.33	0.47	0.67	4.92

Fresh water applied
32,755,968.00 <i>gallons</i>
1,206.29 <i>acre-inches</i>
30.16 <i>inches/acre</i>

Process wastewater applied
1,580,000.00 <i>gallons</i>
58.19 <i>acre-inches</i>
1.45 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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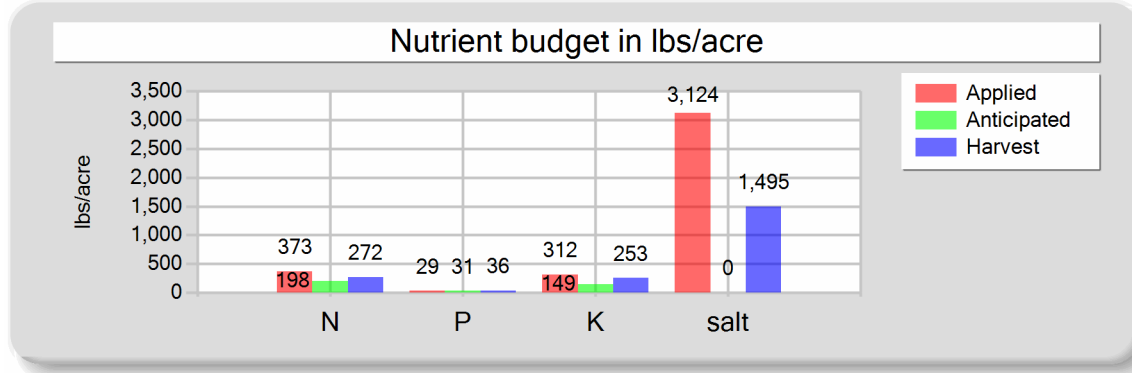
Reporting period 01/01/2023 to 12/31/2023.

47 - 11/10/2022: Wheat, silage, soft dough

Field name: 47

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	360.63	29.15	311.95	2,500.06
Fresh water	5.17	0.00	0.00	623.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	372.80	29.15	311.95	3,123.62
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	271.60	35.55	253.29	1,495.34
Nutrient balance	101.20	-6.40	58.66	1,628.28
Applied to removed ratio	1.37	0.82	1.23	2.09

Fresh water applied
25,776,050.00 gallons
949.24 acre-inches
23.15 inches/acre

Process wastewater applied
2,717,500.00 gallons
100.08 acre-inches
2.44 inches/acre

Total harvests for the crop
1 harvests

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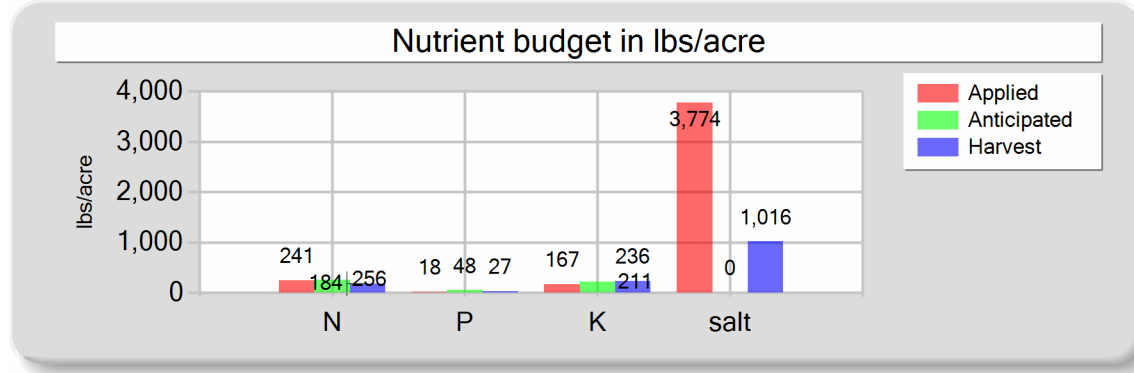
Reporting period 01/01/2023 to 12/31/2023.

47 - 06/19/2023: Corn, silage

Field name: 47

Crop: Corn, silage

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	0.00	0.00	0.00	0.00
Process wastewater	190.89	17.68	167.42	1,558.43
Fresh water	42.62	0.00	0.00	2,215.91
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	240.51	17.68	167.42	3,774.34
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	184.13	27.33	235.68	1,016.38
Nutrient balance	56.38	-9.65	-68.26	2,757.96
Applied to removed ratio	1.31	0.65	0.71	3.71

Fresh water applied
33,153,414.00 <i>gallons</i>
1,220.93 <i>acre-inches</i>
29.78 <i>inches/acre</i>

Process wastewater applied
1,537,500.00 <i>gallons</i>
56.62 <i>acre-inches</i>
1.38 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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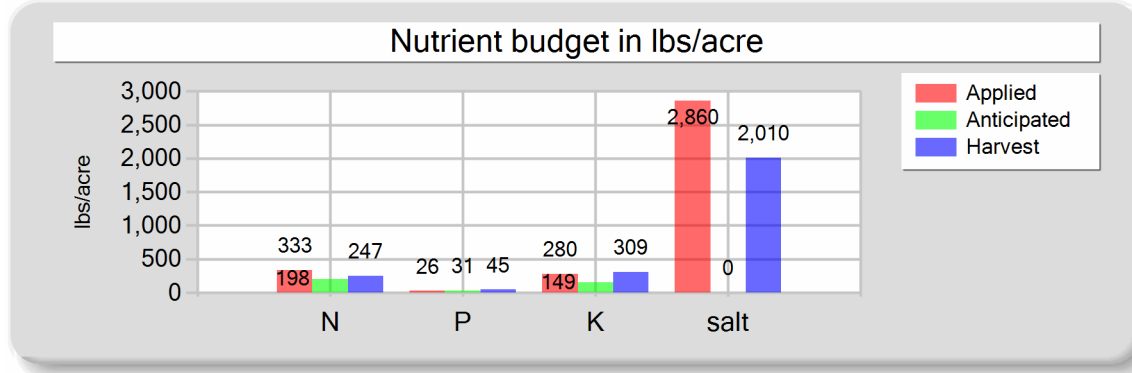
Reporting period 01/01/2023 to 12/31/2023.

48 - 11/10/2022: Wheat, silage, soft dough

Field name: 48

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	27,012,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	994.76 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	24.87 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	323.19	26.12	279.57	2,240.53	Process wastewater applied
Fresh water	2.82	0.00	0.00	619.89	2,376,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	87.50 <i>acre-inches</i>
Total nutrients applied	333.01	26.12	279.57	2,860.42	2.19 <i>inches/acre</i>
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	247.39	44.56	309.24	2,010.04	Total harvests for the crop
Nutrient balance	85.62	-18.44	-29.67	850.39	1 <i>harvests</i>
Applied to removed ratio	1.35	0.59	0.90	1.42	

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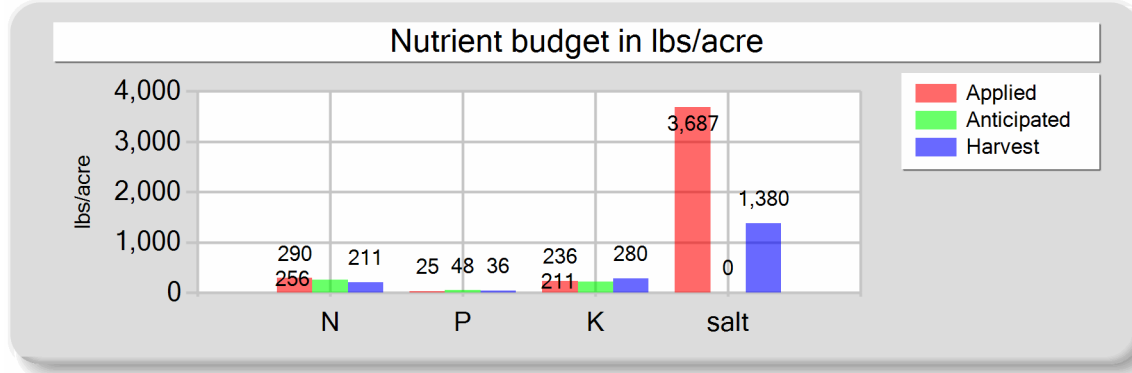
Reporting period 01/01/2023 to 12/31/2023.

48 - 06/16/2023: Corn, silage

Field name: 48

Crop: Corn, silage

Plant date: 06/16/2023



	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	269.35	24.95	236.23	2,198.94
Fresh water	13.47	0.00	0.00	1,487.96
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	289.81	24.95	236.23	3,686.90
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	210.80	36.14	280.43	1,379.58
Nutrient balance	79.02	-11.19	-44.20	2,307.32
Applied to removed ratio	1.37	0.69	0.84	2.67

Fresh water applied
33,520,236.00 gallons
1,234.44 acre-inches
30.86 inches/acre

Process wastewater applied
2,116,500.00 gallons
77.94 acre-inches
1.95 inches/acre

Total harvests for the crop
1 harvests

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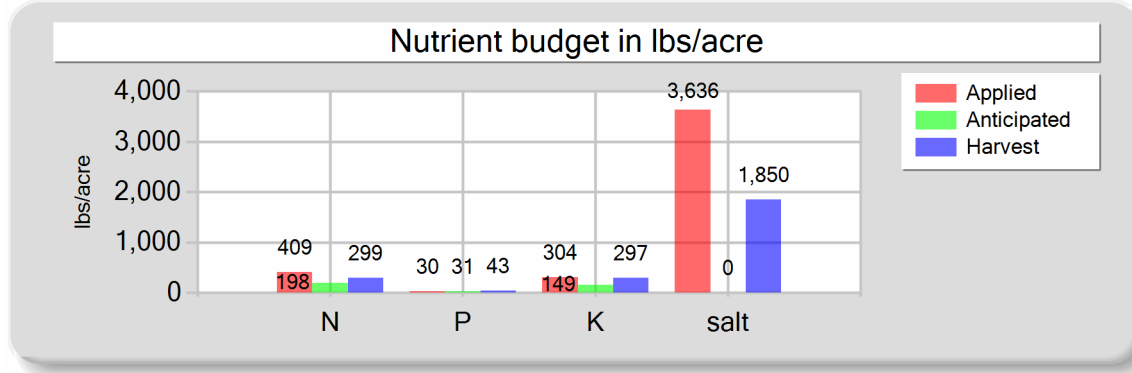
Reporting period 01/01/2023 to 12/31/2023.

49 - 11/03/2022: Wheat, silage, soft dough

Field name: 49

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022



	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	24,618,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	906.60 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	22.11 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	399.12	30.24	303.58	3,085.12	Process wastewater applied
Fresh water	2.51	0.00	0.00	551.17	2,718,500.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	100.11 <i>acre-inches</i>
Total nutrients applied	408.62	30.24	303.58	3,636.29	2.44 <i>inches/acre</i>
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	299.39	43.07	296.56	1,849.98	Total harvests for the crop
Nutrient balance	109.24	-12.83	7.02	1,786.32	1 <i>harvests</i>
Applied to removed ratio	1.36	0.70	1.02	1.97	

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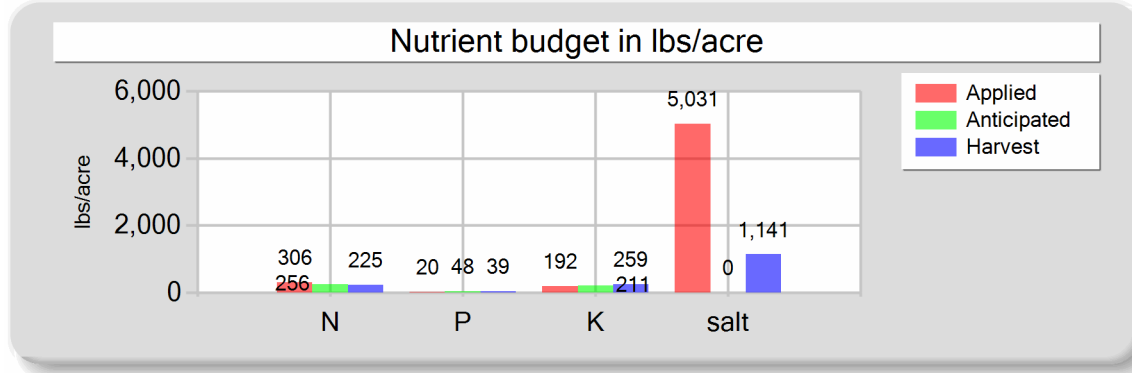
Reporting period 01/01/2023 to 12/31/2023.

49 - 06/08/2023: Corn, silage

Field name: 49

Crop: Corn, silage

Plant date: 06/08/2023



	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	219.39	20.32	192.41	1,791.05
Fresh water	79.87	0.00	0.00	3,239.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	306.25	20.32	192.41	5,030.92
Anticipated crop nutrient removal	256.00	48.00	211.20	0.00
Actual crop nutrient removal	225.28	38.78	258.52	1,141.16
Nutrient balance	80.97	-18.46	-66.10	3,889.76
Applied to removed ratio	1.36	0.52	0.74	4.41

Fresh water applied
38,182,628.00 <i>gallons</i>
1,406.14 <i>acre-inches</i>
34.30 <i>inches/acre</i>

Process wastewater applied
1,767,000.00 <i>gallons</i>
65.07 <i>acre-inches</i>
1.59 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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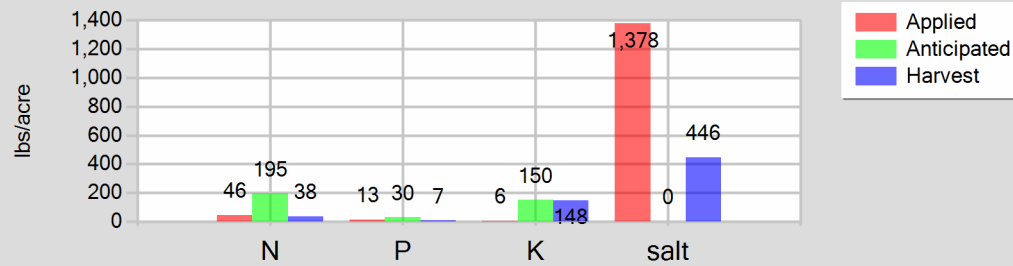
Houweling - 04/01/2018: Almond, in shell

Field name: Houweling

Crop: Almond, in shell

Plant date: 04/01/2018

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	28.52	12.85	5.78	518.76
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.91	0.00	0.00	859.37
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	46.42	12.85	5.78	1,378.13
Anticipated crop nutrient removal	195.00	30.00	150.00	0.00
Actual crop nutrient removal	37.81	7.13	147.70	446.08
Nutrient balance	8.62	5.72	-141.91	932.05
Applied to removed ratio	1.23	1.80	0.04	3.09

Fresh water applied
29,021,552.00 gallons
1,068.77 acre-inches
34.48 inches/acre
Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Total harvests for the crop
1 harvests

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

Solid Manure M7

Sample and source description: Solid Manure M7

Sample date: 01/09/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 85.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,100.00	8,030.00	5,220.00	21,900.00	15,400.00	1,010.00	3,600.00	1,310.00		14.80
DL	1,000.00	200.00	500.00	500.00	500.00	500.00	100.00	100.00		0.10

Solid Manure M7

Sample and source description: Solid Manure M7

Sample date: 10/23/2023 Material type: Compost Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 35.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,900.00	4,060.00	4,360.00	12,800.00	5,960.00	1,210.00	4,290.00	73,500.00		72.70
DL	1,000.00	200.00	500.00	500.00	500.00	500.00	100.00	100.00		0.10

SP-NE Solid Manure M7

Sample and source description: SP-NE Solid Manure M7

Sample date: 10/23/2023 Material type: Compost Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,300.00	13,200.00	5,940.00	54,500.00	5,600.00	1,400.00	7,070.00	26,800.00		53.30
DL	1,000.00	200.00	500.00	500.00	500.00	500.00	100.00	100.00		0.10

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

SP-NW Solid Manure M7

Sample and source description: SP-NW Solid Manure M7

Sample date: 10/23/2023 Material type: Compost Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 48.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,600.00	3,970.00	4,400.00	20,430.00	6,990.00	900.00	4,770.00	14,400.00		54.40
DL	1,000.00	200.00	500.00	500.00	500.00	500.00	100.00	100.00		0.10

B. PROCESS WASTEWATER ANALYSES

Aerated Lagoon H3

Sample and source description: Aerated Lagoon H3

Sample date: 01/12/2023 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	652.00	442.00			52.70	564.00								72,200.00	4,520
DL	0.50	0.50			0.20	0.50								100.00	10

Lagoon H4 + PH

Sample and source description: Lagoon H4 + PH

Sample date: 01/12/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.90

	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	722.00	507.00			75.30	578.00								72,200.00	4,860
DL	0.50	0.50			0.20	0.50								100.00	10

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Aerated Lagoon H4 SP 1

Sample and source description: Aerated Lagoon H4 SP 1

Sample date: 06/02/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.90

	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	610.00	348.00			56.50	535.00								72,200.00	4,980
DL	0.50	0.50			0.20	0.50								100.00	10

Waste Water H3 SP 1

Sample and source description: Waste Water H3 SP 1

Sample date: 10/19/2023 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	249.00	196.00			37.40	220.00								32,700.00	1,820
DL	0.50	0.50			0.20	0.50								100.00	10

Waste Water H3 SP 2

Sample and source description: Waste Water H3 SP 2

Sample date: 10/19/2023 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	798.00	246.00			45.60	264.00								34,000.00	1,880
DL	0.50	0.50			0.20	0.50								100.00	10

C. FRESH WATER ANALYSES

1

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

1

H14

Sample description: H14Sample date: 11/27/2023 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		0.50	44.90	211.00	59.70	126.00	478.00	0.00	77.60	184.00	1,890.00	1,060
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

18

H14

Sample description: H14Sample date: 11/27/2023 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	42.20	212.00	60.30	128.00	544.00	0.00	74.20	174.00	1,911.00	1,040
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

20

H14

Sample description: H14Sample date: 12/28/2023 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		0.50	2.74	29.70	9.67	25.60	140.00	0.50	10.50	17.90	3,520.00	160
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

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H14

Sample description: H14

Sample date: 12/28/2023 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		0.50	2.72	25.50	10.10	26.50	124.00	0.50	14.50	18.90	1,721.00	170
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

26

H14

Sample description: H14

Sample date: 12/28/2023 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		0.50	2.70	22.50	8.92	25.70	110.00	0.00	9.08	18.20	3,130.00	201
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

27

H14

Sample description: H14

Sample date: 12/28/2023 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		0.50	12.50	73.30	27.50	47.40	284.00	0.50	34.10	48.30	8,170.00	440
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

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H14

Sample description: H14

Sample date: 11/27/2023 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	60.00	251.00	69.40	115.00	490.00	2.00	71.00	281.00	2,150.00	1,250
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

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H14

Sample description: H14

Sample date: 12/28/2023 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		0.50	8.78	89.00	25.00	69.50	144.00	2.00	16.20	328.00	1,111.00	655
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	10

5

H14

Sample description: H14

Sample date: 12/28/2023 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		2.00	70.50	241.00	71.20	194.00	614.00	2.00	117.00	253.00	2,650.00	1,440
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

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H14

Sample description: H14

Sample date: 12/28/2023 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		0.50	7.24	71.80	18.70	62.40	138.00	2.00	12.10	172.00	999.00	525
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	10

60

H14

Sample description: H14

Sample date: 12/28/2023 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		0.50	12.40	73.70	27.70	47.90	282.00	0.50	34.70	47.70	8,240.00	425
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

62

H14

Sample description: H14

Sample date: 12/18/2023 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	6.53	70.00	101.00	60.70	132.00	0.00	11.80	175.00	899.00	455
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

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H14

Sample description: H14Sample date: 12/28/2023 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		0.50	1.33	27.20	10.10	39.90	112.00	0.50	7.22	58.90	4,430.00	225
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

64

H14

Sample description: H14Sample date: 12/28/2023 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		0.50	6.79	71.60	18.30	60.40	134.00	0.00	11.20	172.00	891.00	540
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

65

H14

Sample description: H14Sample date: 11/27/2023 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	10.60	91.00	23.00	69.50	196.00	2.00	17.70	177.00	1,060.00	605
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

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8

H14

Sample description: H14

Sample date: 12/28/2023 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		0.50	49.70	179.00	57.00	89.60	472.00	2.00	50.60	174.00	1,810.00	950
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	100

D21

H14

Sample description: H14

Sample date: 12/28/2023 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		0.50	77.40	216.00	67.60	174.00	342.00	2.00	74.50	269.00	2,430.00	1,360
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	100.00	10

D33

H14

Sample description: H14

Sample date: 12/28/2023 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	24.90	10.30	34.50	114.00	0.00	3.69	52.80	405.00	175
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

D35

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D35

H14

Sample description: H14

Sample date: 12/28/2023 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	2.56	23.20	9.17	26.60	120.00	0.00	9.94	17.40	333.00	145
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

M.I.D Water

Irrigation Water H14

Sample description: Irrigation Water H14

Sample date: 06/02/2023 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		0.50	0.00	6.21	1.57	4.45	26.00	0.00	3.17	3.45	100.00	110
DL		0.50	0.50	0.50	0.50	0.50	0.20	0.20	0.50	0.50	100.00	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

20 - 11/11/2022: Wheat, silage, soft dough

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20 - 11/11/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/09/2023 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	14,200.00	2,220.00	15,000.00		10.20
DL	1,000.00	200.00	500.00		0.10

20 - 06/21/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 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	7,410.00	1,230.00	11,800.00		6.36
DL	1,000.00	200.00	500.00		0.10

21 - 11/24/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 46.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,900.00	2,320.00	18,000.00		9.50
DL	1,000.00	200.00	500.00		0.10

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21 - 05/13/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,010.00	1,910.00	14,100.00		7.27
DL	1,000.00	200.00	500.00		0.10

22 - 10/27/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 68.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,100.00	2,620.00	17,600.00		10.80
DL	1,000.00	200.00	500.00		0.10

22 - 06/13/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,500.00	1,680.00	11,900.00		5.85
DL	1,000.00	200.00	500.00		0.10

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23 - 10/27/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,100.00	2,730.00	17,600.00		12.00
DL	1,000.00	200.00	500.00		0.10

23 - 06/07/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,800.00	2,220.00	13,800.00		6.19
DL	1,000.00	200.00	500.00		0.10

24 - 11/03/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,000.00	2,640.00	17,700.00		10.50
DL	1,000.00	200.00	500.00		0.10

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24 - 06/07/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,600.00	2,000.00	13,100.00		6.44
DL	1,000.00	200.00	500.00		0.10

25 - 11/29/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,400.00	3,090.00	21,000.00		10.60
DL	1,000.00	200.00	500.00		0.10

25 - 07/03/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,210.00	1,700.00	12,200.00		1.22
DL	1,000.00	200.00	500.00		0.10

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26 - 10/31/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 64.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,700.00	2,150.00	16,500.00		10.90
DL	1,000.00	200.00	500.00		0.10

26 - 06/14/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 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	9,910.00	1,500.00	11,900.00		4.56
DL	1,000.00	200.00	500.00		0.10

27 - 11/21/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 70.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	27,800.00	3,380.00	32,000.00		12.70
DL	1,000.00	200.00	500.00		0.10

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27 - 05/27/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,000.00	1,870.00	13,330.00		5.13
DL	1,000.00	200.00	500.00		0.10

29 - 11/30/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 74.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,100.00	3,700.00	35,600.00		12.80
DL	1,000.00	200.00	500.00		0.10

29 - 05/24/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 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	11,140.00	1,380.00	15,200.00		6.15
DL	1,000.00	200.00	500.00		0.10

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30 - 11/29/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 81.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,900.00	3,700.00	30,700.00		11.80
DL	1,000.00	200.00	500.00		0.10

30 - 05/27/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,500.00	1,810.00	14,300.00		6.61
DL	1,000.00	200.00	500.00		0.10

31 - 10/24/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 66.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,050.00	2,680.00	20,010.00		9.98
DL	1,000.00	200.00	500.00		0.10

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31 - 06/15/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,300.00	1,650.00	13,300.00		6.19
DL	1,000.00	200.00	500.00		0.10

32/33 - 04/03/2018: Almond, in shell

F18

Sample and source description: F18

Sample date: 10/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 15.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,400.00	2,940.00	48,800.00		15.50
DL	1,000.00	200.00	500.00		0.10

34/35 - 04/01/2018: Almond, in shell

F18

Sample and source description: F18

Sample date: 10/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 14.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,800.00	2,010.00	52,600.00		15.40
DL	1,000.00	200.00	500.00		0.10

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37 - 10/20/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/09/2023 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	19,980.00	2,690.00	19,000.00		9.56
DL	1,000.00	200.00	500.00		0.10

37 - 05/14/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	2,320.00	12,500.00		6.19
DL	1,000.00	200.00	500.00		0.10

38 - 10/24/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,500.00	3,160.00	22,600.00		12.00
DL	1,000.00	200.00	500.00		0.10

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38 - 05/19/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 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	10,800.00	2,030.00	13,800.00		7.80
DL	1,000.00	200.00	500.00		0.10

39 - 11/05/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	1,740.00	9,840.00		7.65
DL	1,000.00	200.00	500.00		0.10

39 - 06/05/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,800.00	1,760.00	14,500.00		6.37
DL	1,000.00	200.00	500.00		0.10

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40 - 11/14/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/09/2023 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	15,300.00	3,030.00	24,000.00		12.60
DL	1,000.00	200.00	500.00		0.10

40 - 06/12/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	1,870.00	12,200.00		6.27
DL	1,000.00	200.00	500.00		0.10

41 - 11/22/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 61.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,000.00	1,950.00	13,700.00		10.60
DL	1,000.00	200.00	500.00		0.10

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41 - 06/19/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,000.00	2,110.00	16,900.00		7.66
DL	1,000.00	200.00	500.00		0.10

42 - 11/29/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/09/2023 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	16,600.00	2,430.00	17,100.00		10.80
DL	1,000.00	200.00	500.00		0.10

42 - 06/23/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 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	10,900.00	1,650.00	18,600.00		8.70
DL	1,000.00	200.00	500.00		0.10

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45 - 10/24/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 72.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,700.00	2,770.00	18,000.00		11.30
DL	1,000.00	200.00	500.00		0.10

45 - 05/31/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 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	11,000.00	2,030.00	14,100.00		6.11
DL	1,000.00	200.00	500.00		0.10

46 - 11/24/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,080.00	2,360.00	17,100.00		8.59
DL	1,000.00	200.00	500.00		0.10

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46 - 06/23/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 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	12,300.00	1,880.00	12,400.00		5.34
DL	1,000.00	200.00	500.00		0.10

47 - 11/10/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,800.00	2,330.00	16,600.00		9.80
DL	1,000.00	200.00	500.00		0.10

47 - 06/19/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 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	12,500.00	1,670.00	14,400.00		6.21
DL	1,000.00	200.00	500.00		0.10

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48 - 11/10/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 72.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,600.00	3,170.00	22,000.00		14.30
DL	1,000.00	200.00	500.00		0.10

48 - 06/16/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,200.00	1,920.00	14,900.00		7.33
DL	1,000.00	200.00	500.00		0.10

49 - 11/03/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

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

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,200.00	3,050.00	21,000.00		13.10
DL	1,000.00	200.00	500.00		0.10

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49 - 06/08/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,200.00	2,100.00	14,000.00		6.18
DL	1,000.00	200.00	500.00		0.10

Houweling - 04/01/2018: Almond, in shell

Almond Hulls

Sample and source description: Almond Hulls

Sample date: 10/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 15.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,900.00	2,620.00	54,300.00		16.40
DL	1,000.00	200.00	500.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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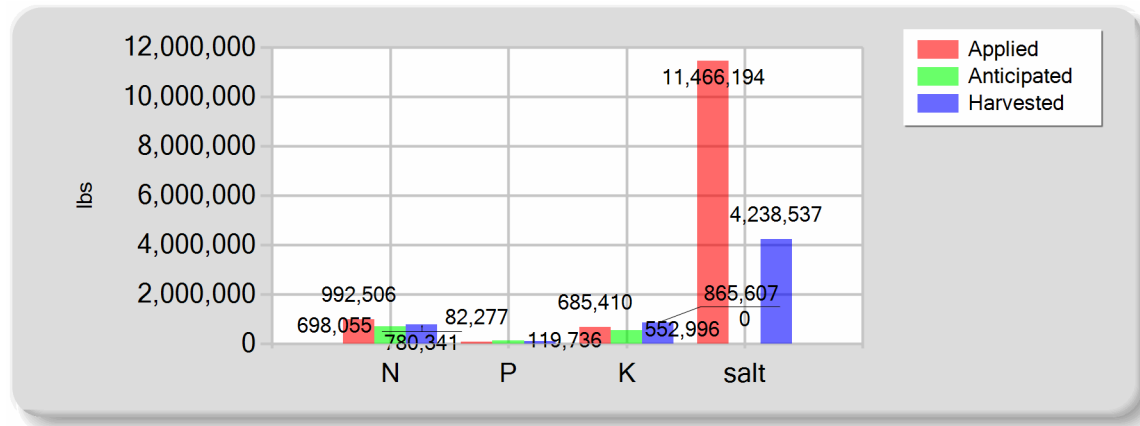
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

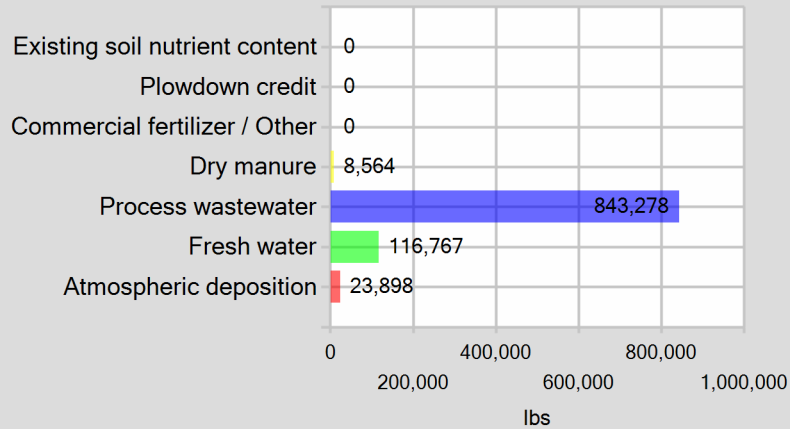
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	8,564.12	2,514.68	1,696.90	184,533.12
Process wastewater	843,277.53	79,762.20	683,712.86	5,892,225.98
Fresh water	116,766.61	0.00	0.00	5,389,435.23
Atmospheric deposition	23,898.00	0.00	0.00	0.00
Total nutrients applied	992,506.27	82,276.88	685,409.76	11,466,194.32
Anticipated crop nutrient removal	698,055.00	119,736.00	552,996.00	0.00
Actual crop nutrient removal	780,340.66	111,503.71	865,607.41	4,238,537.17
Nutrient balance	212,165.61	-29,226.84	-180,197.64	7,227,657.16
Applied to removed ratio	1.27	0.74	0.79	2.71

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

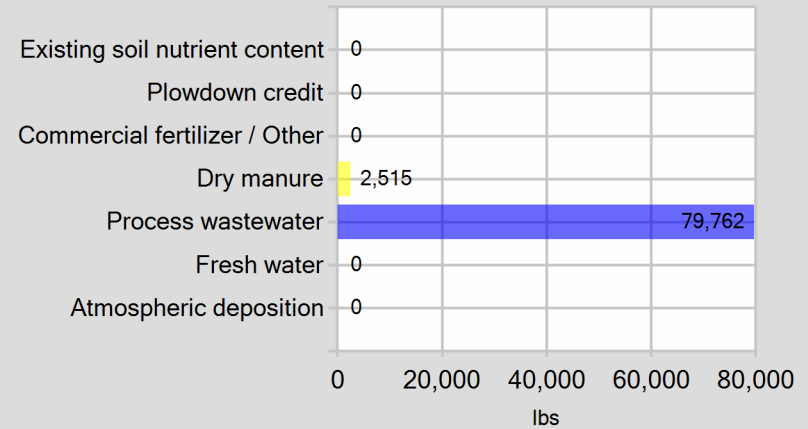


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

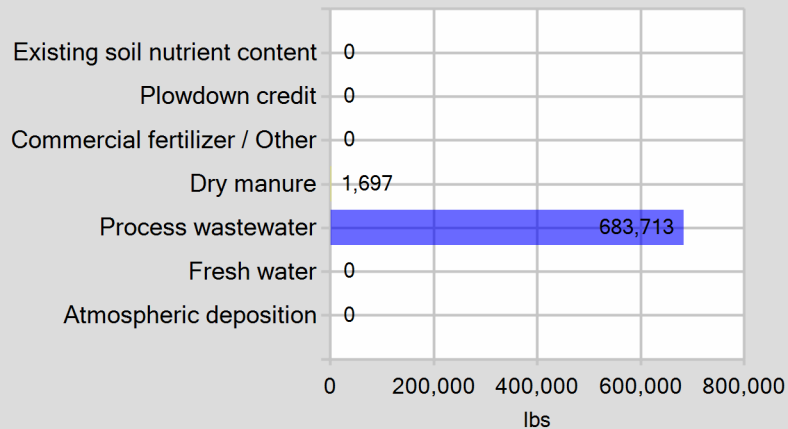
Pounds of nitrogen applied



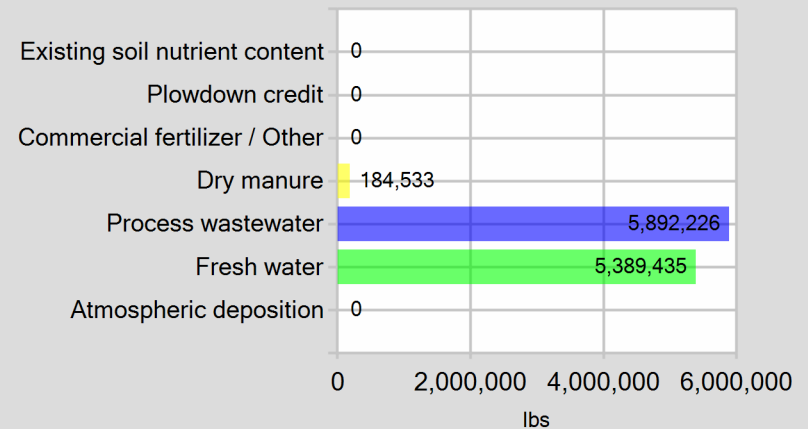
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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ADDITIONAL NOTES

A. NOTES

No notes entered for this annual report.

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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.

Rob Diepersloot

Theo VanderMeulen

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Robert Diepersloot

Theo VanderMeulen

PRINT OR TYPE NAME

PRINT OR TYPE NAME

Rob Diepersloot

Theo VanderMeulen

DATE 6-21-24

DATE 6-21-24

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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.