**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:** Maya Dairy

Physical address of dairy:

| 18451 Wildwood Rd. | Buttonwilllow | Kern | 93206 |
|---|---|---|---|
| Number and Street | City | County | Zip Code |

Street and nearest cross street (if no address):

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

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X087-X120-XX08-XXXX

**B. OPERATORS**

Echeverria, Juan

Operator name: Echeverria, Juan

Telephone no.: Landline: ; Cellular: (661) 746-2396

| P.O. Box 667 | Buttonwilllow | CA | 93206 |
|---|---|---|---|
| Mailing Address Number and Street | City | State | Zip Code |

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

**C. OWNERS**

Echeverria, Juan

Legal owner name: Echeverria, Juan

Telephone no.: Landline: ; Cellular: (661) 746-2396

| P.O. Box 667 | Buttonwilllow | CA | 93206 |
|---|---|---|---|
| Mailing Address Number and Street | City | State | Zip Code |

**This owner is responsible for paying permit fees.**

AVAILABLE NUTRIENTS

## A. HERD INFORMATION

| | Milk Cows | Dry Cows | Bred Heifers (15-24 mo.) | Heifers (7-14 mo. to breeding) | Calves (4-6 mo.) | Calves (0-3 mo.) |
|---|---|---|---|---|---|---|
| Number open confinement | 0 | 0 | 1,405 | 1,120 | 825 | 0 |
| Number under roof | 4,550 | 475 | 0 | 0 | 0 | 0 |
| Maximum number | 4,575 | 525 | 1,430 | 1,140 | 850 | 0 |
| Average number | 4,550 | 475 | 1,405 | 1,120 | 825 | 0 |
| Avg live weight (lbs) | 1,400 | 1,450 | 1,000 | 750 | | |

Predominant milk cow breed: Holstein

Average milk production: 75 *pounds per cow per day*

## B. MANURE GENERATED

Total manure excreted by the herd: 154,676.70 *tons per reporting period*

Total nitrogen from manure: 1,929,355.92 *lbs per reporting period*

After ammonia losses (30% loss applied): 1,350,549.14 *lbs per reporting period*

Total phosphorus from manure: 319,733.33 *lbs per reporting period*

Total potassium from manure: 886,313.73 *lbs per reporting period*

Total salt from manure: 2,251,593.75 *lbs per reporting period*

## C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 284,282,946 *gallons*

Total nitrogen generated: 632,126.22 *lbs*

Total phosphorus generated: 101,338.31 *lbs*

Total potassium generated: 746,958.69 *lbs*

Total salt generated: 6,752,131.10 *lbs*

| | | |
|---|---|---|
| | 284,282,946 | *gallons applied* |
| + | 0 | *gallons exported* |
| - | 0 | *gallons imported* |
| = | 284,282,946 | *gallons generated* |

## D. FRESH WATER SOURCES

| Source Description | Type |
|---|---|
| 207 | Ground water |
| 213 | Ground water |
| 215 | Ground water |
| 216N | Ground water |
| 216S | Ground water |

| Source Description | Type |
|---|---|
| 225 | Ground water |
| 232 | Ground water |
| Canal Water (Semi Tropic ID) | Surface water |
| DWN | Ground water |
| DWS2 | Ground water |
| MD House | Ground water |
| MD11 | Ground water |
| MD2 | Ground water |
| MD4 | Ground water |
| MD6 | Ground water |
| MD7 | Ground water |
| MD8 | Ground water |
| MD9N | Ground water |
| MD9S | Ground water |

## E. SUBSURFACE (TILE) DRAINAGE SOURCES

*No subsurface (tile) drainage sources entered.*

## F. NUTRIENT IMPORTS

*No dry manure nutrient imports entered.*

*No process wastewater nutrient imports entered.*

*No commercial or other nutrient imports entered.*

## G. NUTRIENT EXPORTS

| Date | Material type | Quantity | Reporting basis | Moisture (%) | Density (lbs/cu ft) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/23/2023 | Corral solids | 1,452.20 *ton* | Dry-weight | 13.2 | | 27,300.00 | 9,900.00 | 26,100.00 | | 0.00 |
| 10/03/2023 | Corral solids | 492.00 *ton* | Dry-weight | 13.2 | | 27,300.00 | 9,900.00 | 26,100.00 | | 0.00 |
| 11/30/2023 | Corral solids | 2,712.66 *ton* | Dry-weight | 13.2 | | 27,300.00 | 9,900.00 | 26,100.00 | | 0.00 |
| 12/02/2023 | Corral solids | 1,699.83 *ton* | Dry-weight | 13.2 | | 27,300.00 | 9,900.00 | 26,100.00 | | 0.00 |

*No liquid nutrient exports entered.*

| Material type | Total N (lbs) | Total P (lbs) | Total K (lbs) | Total salt (lbs) |
|---|---|---|---|---|
| Dry manure | 301,261.34 | 109,248.62 | 288,019.08 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | |
|---|---|---|---|---|
| Total exports for all materials | 301,261.34 | 109,248.62 | 288,019.08 | 0.00 |

APPLICATION AREA

## A. LIST OF LAND APPLICATION AREAS

| Field name | Controlled acres | Cropable acres | Total harvests | Type of waste applied | Parcel number |
|---|---|---|---|---|---|
| 207 | 72 | 72 | 2 | process wastewater | X087-X150-XX19-XXXX |
| 212 | 72 | 72 | 2 | process wastewater | X087-X150-XX10-XXXX |
| 213 | 54 | 54 | 2 | process wastewater | X087-X120-XX08-XXXX |
| 214 | 53 | 53 | 2 | process wastewater | X087-X120-XX08-XXXX |
| 215 | 76 | 76 | 2 | process wastewater | X087-X120-XX07-XXXX |
| 216 | 76 | 76 | 2 | process wastewater | X087-X120-XX06-XXXX<br>X087-X120-XX07-XXXX |
| 219 | 78 | 78 | 2 | process wastewater | X087-X120-XX08-XXXX |
| 220 | 77 | 77 | 2 | process wastewater | X087-X120-XX08-XXXX |
| 225 | 73 | 73 | 2 | process wastewater | X087-X150-XX08-XXXX |
| 226 | 75 | 75 | 2 | process wastewater | X087-X150-XX15-XXXX |
| 229 | 76 | 76 | 2 | process wastewater | X087-X150-XX05-XXXX<br>X087-X150-XX06-XXXX<br>X087-X150-XX15-XXXX |
| 230 | 76 | 76 | 2 | process wastewater | X087-X150-XX12-XXXX<br>X087-X150-XX17-XXXX |
| 231 | 75 | 75 | 2 | process wastewater | X087-X150-XX12-XXXX |
| 232 | 75 | 75 | 2 | process wastewater | X087-X150-XX16-XXXX |
| MD-1 | 80 | 80 | 1 | none | X087-X150-XX18-XXXX |
| MD-10 | 94 | 94 | 1 | none | X087-X120-XX01-XXXX<br>X087-X120-XX02-XXXX |
| MD-11 | 88 | 88 | 2 | process wastewater | X087-X120-XX03-XXXX |
| MD-12 | 73 | 73 | 2 | process wastewater | X087-X120-XX03-XXXX |
| MD-2 | 80 | 80 | 1 | none | X087-X150-XX18-XXXX |
| MD-3 | 80 | 80 | 0 | none | X087-X150-XX18-XXXX |
| MD-4 | 80 | 80 | 0 | none | X087-X150-XX18-XXXX |
| MD-5 | 78 | 78 | 2 | process wastewater | X087-X120-XX04-XXXX |
| MD-6 | 78 | 78 | 1 | none | X087-X120-XX04-XXXX |
| MD-7 | 78 | 78 | 1 | none | X087-X120-XX04-XXXX |
| MD-8 | 78 | 78 | 1 | none | X087-X120-XX04-XXXX |
| MD-9 | 92 | 92 | 1 | none | X087-X120-XX01-XXXX |
| Totals for areas that were used for application | 1,247 | 1,247 | 34 | | |
| Totals for areas that were not used for application | 740 | 740 | 7 | | |
| Land application area totals | 1,987 | 1,987 | 41 | | |

## B. CROPS AND HARVESTS

207

Field name: 207

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

Crop: Wheat, silage, soft dough Acres planted: 72 Plant date: 11/15/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/17/2023 | 1,344.00 *ton* | Dry-weight | | 70.9 | 17,400.00 | 4,000.00 | 20,100.00 | | 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 | 1,494.00 |
| Total actual harvest content | 18.67 | 189.03 | 43.46 | 218.37 | 1,140.72 |

06/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 72 Plant date: 06/29/2023

| 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 | 2,178.00 *ton* | Dry-weight | | 66.7 | 12,000.00 | 2,300.00 | 9,200.00 | | 5.57 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.25 | 241.76 | 46.34 | 185.35 | 1,122.16 |

212

Field name: 212

## 212

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

Crop: Wheat, silage, soft dough  Acres planted: 72  Plant date: 11/15/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/18/2023 | 1,354.00 *ton* | Dry-weight | | 70.2 | 16,900.00 | 4,000.00 | 21,600.00 | | 10.70 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 18.81 | 189.42 | 44.83 | 242.10 | 1,199.27 |

### 07/01/2023: Corn, silage

Crop: Corn, silage  Acres planted: 72  Plant date: 07/01/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/08/2023 | 2,175.00 *ton* | Dry-weight | | 65.5 | 11,900.00 | 2,200.00 | 7,900.00 | | 5.29 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.21 | 248.04 | 45.86 | 164.67 | 1,102.63 |

## 213

Field name: 213

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

Crop: Wheat, silage, soft dough  Acres planted: 54  Plant date: 11/15/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/18/2023 | 1,075.00 *ton* | Dry-weight | | 67.6 | 15,900.00 | 2,800.00 | 12,800.00 | | 8.65 |

| | 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 | 1,494.00 |
| Total actual harvest content | 19.91 | 205.11 | 36.12 | 165.12 | 1,115.85 |

## 213

### 07/01/2023: Corn, silage

Crop: Corn, silage  Acres planted: 54  Plant date: 07/01/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/10/2023 | 1,641.00 *ton* | Dry-weight | | 68.8 | 13,300.00 | 1,900.00 | 12,400.00 | | 5.41 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.39 | 252.20 | 36.03 | 235.14 | 1,025.88 |

## 214

Field name: 214

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

Crop: Wheat, silage, soft dough  Acres planted: 53  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 (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/20/2023 | 1,069.00 *ton* | Dry-weight | | 66.6 | 15,800.00 | 3,800.00 | 20,700.00 | | 11.60 |

| | 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 | 1,494.00 |
| Total actual harvest content | 20.17 | 212.88 | 51.20 | 278.90 | 1,562.92 |

### 06/30/2023: Corn, silage

Crop: Corn, silage  Acres planted: 53  Plant date: 06/30/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/10/2023 | 1,614.00 *ton* | Dry-weight | | 72.6 | 14,000.00 | 2,400.00 | 18,900.00 | | 7.52 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.45 | 233.63 | 40.05 | 315.41 | 1,254.95 |

## 215

Field name: 215

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

Crop: Wheat, silage, soft dough  Acres planted: 76  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 (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/20/2023 | 1,456.00 *ton* | Dry-weight | | 67.4 | 17,500.00 | 3,800.00 | 21,500.00 | | 13.20 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 19.16 | 218.59 | 47.47 | 268.56 | 1,648.81 |

### 06/29/2023: Corn, silage

Crop: Corn, silage  Acres planted: 76  Plant date: 06/29/2023

| 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 | 2,322.00 *ton* | Dry-weight | | 65.1 | 11,300.00 | 2,300.00 | 8,100.00 | | 5.01 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.55 | 240.98 | 49.05 | 172.74 | 1,068.42 |

## 216

Field name: 216

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

Crop: Wheat, silage, soft dough  Acres planted: 76  Plant date: 11/12/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/21/2023 | 1,438.00 *ton* | Dry-weight | | 69.2 | 15,900.00 | 3,400.00 | 18,400.00 | | 10.40 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 18.92 | 185.32 | 39.63 | 214.46 | 1,212.16 |

## 216

### 07/15/2023: Corn, silage

Crop: Corn, silage  Acres planted: 76  Plant date: 07/15/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/30/2023 | 2,299.00 *ton* | Dry-weight | | 63.5 | 10,800.00 | 3,000.00 | 10,400.00 | | 5.20 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.25 | 238.49 | 66.25 | 229.66 | 1,148.29 |

## 219

Field name: 219

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

Crop: Wheat, silage, soft dough  Acres planted: 78  Plant date: 11/12/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/20/2023 | 1,640.00 *ton* | Dry-weight | | 66.0 | 15,500.00 | 4,000.00 | 20,400.00 | | 11.60 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 21.03 | 221.61 | 57.19 | 291.67 | 1,658.50 |

### 06/25/2023: Corn, silage

Crop: Corn, silage  Acres planted: 78  Plant date: 06/25/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/09/2023 | 2,354.00 *ton* | Dry-weight | | 70.0 | 13,500.00 | 1,900.00 | 13,900.00 | | 5.61 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.18 | 244.45 | 34.40 | 251.70 | 1,015.84 |

## 220

Field name: 220

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

Crop: Wheat, silage, soft dough Acres planted: 77 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 (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/21/2023 | 1,488.00 *ton* | Dry-weight | | 64.9 | 16,400.00 | 4,200.00 | 20,100.00 | | 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 | 1,494.00 |
| Total actual harvest content | 19.32 | 222.48 | 56.98 | 272.68 | 1,465.12 |

### 06/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/25/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/09/2023 | 2,325.00 *ton* | Dry-weight | | 69.6 | 13,800.00 | 1,900.00 | 12,000.00 | | 5.13 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.19 | 253.35 | 34.88 | 220.30 | 941.79 |

## 225

Field name: 225

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

Crop: Wheat, silage, soft dough Acres planted: 73 Plant date: 11/12/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/19/2023 | 1,531.00 *ton* | Dry-weight | | 66.0 | 14,200.00 | 3,800.00 | 20,300.00 | | 11.90 |

| | 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 | 1,494.00 |
| Total actual harvest content | 20.97 | 202.51 | 54.19 | 289.51 | 1,697.10 |

225

07/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 73 Plant date: 07/01/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/17/2023 | 2,216.00 *ton* | Dry-weight | | 70.3 | 13,400.00 | 2,300.00 | 15,900.00 | | 6.49 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.36 | 241.62 | 41.47 | 286.70 | 1,170.25 |

226

Field name: 226

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

Crop: Wheat, silage, soft dough Acres planted: 75 Plant date: 11/20/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/28/2023 | 1,509.00 *ton* | Dry-weight | | 70.8 | 17,400.00 | 3,700.00 | 23,200.00 | | 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 | 1,494.00 |
| Total actual harvest content | 20.12 | 204.45 | 43.48 | 272.60 | 1,280.76 |

06/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/29/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/17/2023 | 2,274.00 *ton* | Dry-weight | | 70.2 | 12,700.00 | 2,200.00 | 15,000.00 | | 6.01 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.32 | 229.50 | 39.76 | 271.06 | 1,086.05 |

229

Field name: 229

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

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 11/15/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/21/2023 | 1,522.00 *ton* | Dry-weight | | 67.1 | 16,100.00 | 4,300.00 | 23,900.00 | | 12.50 |

| | 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 | 1,494.00 |
| Total actual harvest content | 20.03 | 212.15 | 56.66 | 314.94 | 1,647.16 |

06/27/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/27/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/10/2023 | 2,314.00 *ton* | Dry-weight | | 68.3 | 11,800.00 | 2,000.00 | 12,200.00 | | 5.47 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.45 | 227.78 | 38.61 | 235.50 | 1,055.91 |

230

Field name: 230

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

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 11/15/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/28/2023 | 1,522.00 *ton* | Dry-weight | | 70.4 | 18,700.00 | 3,700.00 | 22,300.00 | | 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 | 1,494.00 |
| Total actual harvest content | 20.03 | 221.70 | 43.87 | 264.38 | 1,256.69 |

230

07/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 07/12/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/30/2023 | 2,310.00 *ton* | Dry-weight | | 67.9 | 11,600.00 | 2,500.00 | 9,500.00 | | 4.11 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.39 | 226.36 | 48.78 | 185.38 | 802.00 |

231

Field name: 231

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

Crop: Wheat, silage, soft dough Acres planted: 75 Plant date: 11/16/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/17/2023 | 1,529.00 *ton* | Dry-weight | | 67.3 | 16,300.00 | 4,200.00 | 21,900.00 | | 12.20 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 20.39 | 217.33 | 56.00 | 291.99 | 1,626.61 |

06/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/24/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/16/2023 | 2,264.00 *ton* | Dry-weight | | 69.1 | 13,300.00 | 2,600.00 | 10,000.00 | | 5.40 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.19 | 248.12 | 48.50 | 186.55 | 1,007.39 |

## 232

Field name: 232

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

Crop: Wheat, silage, soft dough  Acres planted: 75  Plant date: 11/16/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/27/2023 | 1,529.00 *ton* | Dry-weight | | 70.4 | 17,400.00 | 3,700.00 | 23,400.00 | | 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 | 1,494.00 |
| Total actual harvest content | 20.39 | 210.00 | 44.65 | 282.41 | 1,267.24 |

### 07/12/2023: Corn, silage

Crop: Corn, silage  Acres planted: 75  Plant date: 07/12/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/25/2023 | 2,266.00 *ton* | Dry-weight | | 70.3 | 13,600.00 | 2,500.00 | 15,200.00 | | 5.68 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.21 | 244.08 | 44.87 | 272.79 | 1,019.37 |

## MD-1

Field name: MD-1

### 11/01/2017: Almond, in shell

Crop: Almond, in shell  Acres planted: 80  Plant date: 11/01/2017

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/05/2023 | 101.00 *ton* | Dry-weight | | 5.4 | 20,100.00 | 1,900.00 | 16,500.00 | | 15.90 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 1.30 | 118.30 | 18.20 | 91.00 | 182.00 |
| Total actual harvest content | 1.26 | 48.01 | 4.54 | 39.41 | 379.80 |

## MD-10

Field name: MD-10

### 11/10/2017: Alfalfa, hay

Crop: Alfalfa, hay  Acres planted: 94  Plant date: 11/10/2017

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/07/2023 | 759.00 *ton* | Dry-weight | | 9.9 | 40,200.00 | 2,900.00 | 21,500.00 | | 21.00 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 480.00 | 43.20 | 336.00 | 1,600.00 |
| Total actual harvest content | 8.07 | 584.92 | 42.20 | 312.83 | 3,055.54 |

## MD-11

Field name: MD-11

### 11/17/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough  Acres planted: 88  Plant date: 11/17/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/18/2023 | 1,633.00 *ton* | Dry-weight | | 70.2 | 16,200.00 | 4,000.00 | 20,400.00 | | 11.00 |

| | 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 | 1,494.00 |
| Total actual harvest content | 18.56 | 179.17 | 44.24 | 225.62 | 1,216.59 |

### 07/10/2023: Corn, silage

Crop: Corn, silage  Acres planted: 88  Plant date: 07/10/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/24/2023 | 2,649.00 *ton* | Dry-weight | | 63.1 | 11,000.00 | 2,800.00 | 9,800.00 | | 4.71 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.10 | 244.37 | 62.20 | 217.71 | 1,046.35 |

## MD-12

Field name: MD-12

### 11/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough  Acres planted: 73  Plant date: 11/18/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/30/2023 | 1,425.00 *ton* | Dry-weight | | 61.2 | 15,100.00 | 2,600.00 | 16,000.00 | | 8.58 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 19.52 | 228.73 | 39.38 | 242.37 | 1,299.69 |

### 07/11/2023: Corn, silage

Crop: Corn, silage  Acres planted: 73  Plant date: 07/11/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/25/2023 | 2,208.00 *ton* | Dry-weight | | 70.1 | 13,300.00 | 2,600.00 | 15,000.00 | | 5.78 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.25 | 240.56 | 47.03 | 271.31 | 1,045.45 |

## MD-2

Field name: MD-2

### 11/01/2017: Almond, in shell

Crop: Almond, in shell  Acres planted: 80  Plant date: 11/01/2017

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/05/2023 | 102.00 *ton* | Dry-weight | | 5.9 | 19,800.00 | 2,100.00 | 16,000.00 | | 12.90 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 1.30 | 118.30 | 18.20 | 91.00 | 182.00 |
| Total actual harvest content | 1.28 | 47.51 | 5.04 | 38.39 | 309.54 |

## MD-3

Field name: MD-3

### 04/01/2022: Almond, in shell

Crop: Almond, in shell  Acres planted: 80  Plant date: 04/01/2022

*No harvests entered for this crop.*

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 0.10 | 9.10 | 1.40 | 7.00 | 14.00 |
| Total actual harvest content | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## MD-4

Field name: MD-4

### 04/01/2022: Almond, in shell

Crop: Almond, in shell  Acres planted: 80  Plant date: 04/01/2022

*No harvests entered for this crop.*

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 0.10 | 9.10 | 1.40 | 7.00 | 14.00 |
| Total actual harvest content | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## MD-5

Field name: MD-5

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

Crop: Wheat, silage, soft dough  Acres planted: 78  Plant date: 11/16/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/26/2023 | 1,501.00 *ton* | Dry-weight | | 65.2 | 15,700.00 | 3,800.00 | 18,800.00 | | 11.20 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 19.24 | 210.28 | 50.90 | 251.80 | 1,500.08 |

## MD-5

### 07/03/2023: Corn, silage

Crop: Corn, silage  Acres planted: 78  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 (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/24/2023 | 2,355.00 *ton* | Dry-weight | | 65.2 | 12,000.00 | 2,700.00 | 9,100.00 | | 4.17 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.19 | 252.17 | 56.74 | 191.23 | 876.28 |

## MD-6

Field name: MD-6

### 11/09/2017: Alfalfa, hay

Crop: Alfalfa, hay  Acres planted: 78  Plant date: 11/09/2017

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/07/2023 | 651.00 *ton* | Dry-weight | | 10.0 | 39,700.00 | 3,000.00 | 22,400.00 | | 11.90 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 480.00 | 43.20 | 336.00 | 1,600.00 |
| Total actual harvest content | 8.35 | 596.42 | 45.07 | 336.52 | 1,787.75 |

## MD-7

Field name: MD-7

## MD-7

### 10/31/2016: Alfalfa, hay

Crop: Alfalfa, hay  Acres planted: 78  Plant date: 10/31/2016

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/07/2023 | 635.00 *ton* | Dry-weight | | 10.1 | 39,100.00 | 3,000.00 | 22,200.00 | | 11.90 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 480.00 | 43.20 | 336.00 | 1,600.00 |
| Total actual harvest content | 8.14 | 572.33 | 43.91 | 324.95 | 1,741.87 |

## MD-8

Field name: MD-8

### 11/01/2020: Alfalfa, hay

Crop: Alfalfa, hay  Acres planted: 78  Plant date: 11/01/2020

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/07/2023 | 639.00 *ton* | Dry-weight | | 10.8 | 34,500.00 | 2,900.00 | 23,700.00 | | 11.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 480.00 | 43.20 | 336.00 | 1,600.00 |
| Total actual harvest content | 8.19 | 504.22 | 42.38 | 346.38 | 1,622.27 |

## MD-9

Field name: MD-9

MD-9

11/03/2016: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 92 Plant date: 11/03/2016

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/07/2023 | 744.00 *ton* | Dry-weight | | 10.5 | 37,200.00 | 2,900.00 | 23,500.00 | | 11.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 480.00 | 43.20 | 336.00 | 1,600.00 |
| Total actual harvest content | 8.09 | 538.49 | 41.98 | 340.18 | 1,606.80 |

NUTRIENT BUDGET

## A. LAND APPLICATIONS

### 207 - 11/15/2022: Wheat, silage, soft dough

Field name: 207

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

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/16/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 81.92 | 12.28 | 76.49 | 1,033.70 | 2,229,664.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.66 | 0.00 | 0.00 | 143.19 | 9,503,554.00 *gal* |
| Application event totals | | 82.58 | 12.28 | 76.49 | 1,176.89 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 68.17 | 15.33 | 92.47 | 647.30 | 1,855,447.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 102.54 | 6,805,449.00 *gal* |
| Application event totals | | 68.64 | 15.33 | 92.47 | 749.85 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 76.62 | 11.48 | 71.55 | 966.85 | 2,085,487.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.48 | 0.00 | 0.00 | 104.08 | 6,907,514.00 *gal* |
| Application event totals | | 77.10 | 11.48 | 71.55 | 1,070.93 | |

### 207 - 06/29/2023: Corn, silage

Field name: 207

Crop: Corn, silage — Plant date: 06/29/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|

207 - 06/29/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 70.69 | 14.19 | 106.60 | 421.30 | 2,439,547.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.66 | 0.00 | 0.00 | 141.94 | 9,420,336.00 *gal* |
| Application event totals | | 71.34 | 14.19 | 106.60 | 563.24 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.65 | 0.00 | 0.00 | 140.21 | 9,305,684.00 *gal* |
| Application event totals | | 0.65 | 0.00 | 0.00 | 140.21 | |

| | | | | |
|---|---|---|---|---|
| 07/24/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 75.73 | 15.21 | 114.20 | 451.37 | 2,613,654.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.65 | 0.00 | 0.00 | 140.13 | 9,300,358.00 *gal* |
| Application event totals | | 76.38 | 15.21 | 114.20 | 591.50 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.65 | 0.00 | 0.00 | 141.78 | 9,409,654.00 *gal* |
| Application event totals | | 0.65 | 0.00 | 0.00 | 141.78 | |

| | | | | |
|---|---|---|---|---|
| 08/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 86.69 | 11.97 | 110.02 | 1,037.98 | 3,354,159.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.65 | 0.00 | 0.00 | 141.72 | 9,405,648.00 *gal* |
| Application event totals | | 87.35 | 11.97 | 110.02 | 1,179.70 | |

## 207 - 06/29/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.67 | 0.00 | 0.00 | 144.72 | 9,604,589.00 *gal* |
| Application event totals | | 0.67 | 0.00 | 0.00 | 144.72 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 47.55 | 6.57 | 60.34 | 569.27 | 1,839,564.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.69 | 0.00 | 0.00 | 149.24 | 9,904,587.00 *gal* |
| Application event totals | | 48.23 | 6.57 | 60.34 | 718.51 | |

## 212 - 11/15/2022: Wheat, silage, soft dough

Field name: 212

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/16/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 78.61 | 11.78 | 73.40 | 991.92 | 2,139,548.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.80 | 0.00 | 0.00 | 173.33 | 11,503,548.00 *gal* |
| Application event totals | | 79.41 | 11.78 | 73.40 | 1,165.25 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 74.95 | 11.23 | 69.98 | 945.71 | 2,039,884.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.45 | 0.00 | 0.00 | 98.41 | 6,531,547.00 *gal* |
| Application event totals | | 75.40 | 11.23 | 69.98 | 1,044.13 | |

## 212 - 11/15/2022: 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 64.14 | 9.61 | 59.89 | 809.32 | 1,745,698.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.45 | 0.00 | 0.00 | 97.99 | 6,503,510.00 *gal* |
| Application event totals | | 64.59 | 9.61 | 59.89 | 907.32 | |

## 212 - 07/01/2023: Corn, silage

Field name: 212

Crop: Corn, silage

Plant date: 07/01/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 82.28 | 16.52 | 124.07 | 490.38 | 2,839,547.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.59 | 0.00 | 0.00 | 128.89 | 8,554,214.00 *gal* |
| Application event totals | | 82.87 | 16.52 | 124.07 | 619.27 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.63 | 0.00 | 0.00 | 136.44 | 9,055,621.00 *gal* |
| Application event totals | | 0.63 | 0.00 | 0.00 | 136.44 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/23/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 71.44 | 14.34 | 107.73 | 425.77 | 2,465,447.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 133.36 | 8,851,224.00 *gal* |
| Application event totals | | 72.05 | 14.34 | 107.73 | 559.14 | |

## 212 - 07/01/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/02/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 130.29 | 8,646,987.00 *gal* |
| Application event totals | | 0.60 | 0.00 | 0.00 | 130.29 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 61.25 | 8.46 | 77.73 | 733.38 | 2,369,852.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.92 | 8,755,469.00 *gal* |
| Application event totals | | 61.86 | 8.46 | 77.73 | 865.30 | |

| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 133.38 | 8,852,144.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 133.38 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 68.97 | 9.53 | 87.53 | 825.80 | 2,668,521.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 134.85 | 8,949,852.00 *gal* |
| Application event totals | | 69.59 | 9.53 | 87.53 | 960.65 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 133.07 | 8,831,445.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 133.07 | |

## 213 - 11/15/2022: Wheat, silage, soft dough

Field name: 213

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

## 213 - 11/15/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/16/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 81.29 | 12.18 | 75.90 | 1,025.73 | 1,659,357.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.68 | 0.00 | 0.00 | 147.98 | 7,365,987.00 *gal* |
| Application event totals | | 81.97 | 12.18 | 75.90 | 1,173.71 | |

| | | | | |
|---|---|---|---|---|
| 01/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 80.56 | 12.07 | 75.23 | 1,016.58 | 1,644,559.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.70 | 0.00 | 0.00 | 152.08 | 7,569,874.00 *gal* |
| Application event totals | | 81.27 | 12.07 | 75.23 | 1,168.66 | |

| | | | | |
|---|---|---|---|---|
| 02/22/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 73.24 | 10.97 | 68.39 | 924.20 | 1,495,114.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.52 | 0.00 | 0.00 | 111.59 | 5,554,753.00 *gal* |
| Application event totals | | 73.76 | 10.97 | 68.39 | 1,035.80 | |

## 213 - 07/01/2023: Corn, silage

Field name: 213

Crop: Corn, silage

Plant date: 07/01/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 75.51 | 15.16 | 113.88 | 450.06 | 1,954,587.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.67 | 0.00 | 0.00 | 145.94 | 7,264,214.00 *gal* |
| Application event totals | | 76.19 | 15.16 | 113.88 | 596.00 | |

213 - 07/01/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 139.71 | 6,954,125.00 *gal* |
| Application event totals | | 0.64 | 0.00 | 0.00 | 139.71 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/23/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 73.31 | 14.72 | 110.55 | 436.93 | 1,897,547.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.65 | 0.00 | 0.00 | 139.82 | 6,959,842.00 *gal* |
| Application event totals | | 73.96 | 14.72 | 110.55 | 576.75 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.81 | 6,561,258.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 131.81 | |

| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 72.32 | 9.99 | 91.77 | 865.85 | 2,098,457.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.63 | 0.00 | 0.00 | 136.99 | 6,818,741.00 *gal* |
| Application event totals | | 72.95 | 9.99 | 91.77 | 1,002.84 | |

| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.89 | 6,564,821.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 131.89 | |

## 213 - 07/01/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 54.25 | 7.49 | 68.84 | 649.51 | 1,574,147.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 132.01 | 6,571,224.00 *gal* |
| Application event totals | | 54.86 | 7.49 | 68.84 | 781.53 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 131.01 | 6,521,449.00 *gal* |
| Application event totals | | 0.60 | 0.00 | 0.00 | 131.01 | |

## 214 - 11/14/2022: Wheat, silage, soft dough

Field name: 214

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 |
|---|---|---|---|---|
| 11/15/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 87.59 | 13.12 | 81.79 | 1,105.23 | 1,754,852.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 163.07 | 7,966,951.00 *gal* |
| Application event totals | | 88.34 | 13.12 | 81.79 | 1,268.30 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 77.16 | 11.56 | 72.05 | 973.62 | 1,545,896.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 114.65 | 5,601,245.00 *gal* |
| Application event totals | | 77.69 | 11.56 | 72.05 | 1,088.27 | |

## 214 - 11/14/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 77.36 | 11.59 | 72.23 | 976.11 | 1,549,852.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.48 | 0.00 | 0.00 | 104.37 | 5,098,753.00 *gal* |
| Application event totals | | 77.84 | 11.59 | 72.23 | 1,080.48 | |

## 214 - 06/30/2023: Corn, silage

Field name: 214

Crop: Corn, silage

Plant date: 06/30/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 80.36 | 16.14 | 121.19 | 478.97 | 2,041,589.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 133.25 | 6,509,665.00 *gal* |
| Application event totals | | 80.98 | 16.14 | 121.19 | 612.21 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.11 | 6,405,446.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 131.11 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/23/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 78.11 | 15.68 | 117.78 | 465.52 | 1,984,258.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.59 | 0.00 | 0.00 | 127.04 | 6,206,489.00 *gal* |
| Application event totals | | 78.69 | 15.68 | 117.78 | 592.56 | |

## 214 - 06/30/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 133.26 | 6,510,245.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 133.26 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 61.46 | 8.49 | 77.99 | 735.85 | 1,750,369.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 135.07 | 6,598,753.00 *gal* |
| Application event totals | | 62.08 | 8.49 | 77.99 | 870.92 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 133.09 | 6,502,159.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 133.09 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 59.19 | 8.18 | 75.12 | 708.74 | 1,685,874.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 135.10 | 6,600,214.00 *gal* |
| Application event totals | | 59.82 | 8.18 | 75.12 | 843.84 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.65 | 0.00 | 0.00 | 140.35 | 6,856,992.00 *gal* |
| Application event totals | | 0.65 | 0.00 | 0.00 | 140.35 | |

## 215 - 11/14/2022: Wheat, silage, soft dough

Field name: 215

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

## 215 - 11/14/2022: Wheat, silage, soft dough

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

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 79.57 | 11.92 | 74.30 | 1,004.03 | 2,285,987.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 129.88 | 9,098,547.00 *gal* |
| Application event totals | | 80.17 | 11.92 | 74.30 | 1,133.91 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/14/2023 | 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 | 85.52 | 12.81 | 79.86 | 1,079.13 | 2,456,987.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 102.74 | 7,197,536.00 *gal* |
| Application event totals | | 86.00 | 12.81 | 79.86 | 1,181.87 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 78.53 | 11.77 | 73.33 | 990.96 | 2,256,231.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 102.54 | 7,183,654.00 *gal* |
| Application event totals | | 79.01 | 11.77 | 73.33 | 1,093.50 | |

## 215 - 06/29/2023: Corn, silage

Field name: 215

Crop: Corn, silage

Plant date: 06/29/2023

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

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 93.24 | 18.72 | 140.60 | 555.70 | 3,396,587.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.59 | 0.00 | 0.00 | 126.99 | 8,896,547.00 *gal* |
| Application event totals | | 93.82 | 18.72 | 140.60 | 682.69 | |

215 - 06/29/2023: Corn, silage

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

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 134.24 | 9,404,587.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 134.24 | |

| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 85.09 | 17.09 | 128.32 | 507.14 | 3,099,789.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.63 | 0.00 | 0.00 | 135.66 | 9,503,547.00 *gal* |
| Application event totals | | 85.72 | 17.09 | 128.32 | 642.80 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/02/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.34 | 9,201,254.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 131.34 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 88.07 | 12.16 | 111.76 | 1,054.41 | 3,596,557.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.41 | 9,205,789.00 *gal* |
| Application event totals | | 88.67 | 12.16 | 111.76 | 1,185.82 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 132.75 | 9,299,864.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 132.75 | |

| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 134.18 | 9,399,874.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 134.18 | |

## 215 - 06/29/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/24/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 125.95 | 8,823,556.00 *gal* |
| Application event totals | | 0.58 | 0.00 | 0.00 | 125.95 | |

## 216 - 11/12/2022: Wheat, silage, soft dough

Field name: 216

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/13/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 78.21 | 11.72 | 73.03 | 986.84 | 2,246,852.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.57 | 0.00 | 0.00 | 122.88 | 8,608,654.00 *gal* |
| Application event totals | | 78.77 | 11.72 | 73.03 | 1,109.72 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 80.54 | 12.07 | 75.20 | 1,016.27 | 2,313,852.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.57 | 0.00 | 0.00 | 122.91 | 8,610,254.00 *gal* |
| Application event totals | | 81.11 | 12.07 | 75.20 | 1,139.17 | |

| | | | | |
|---|---|---|---|---|
| 02/14/2023 | 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 | 52.73 | 7.90 | 49.23 | 665.31 | 1,514,789.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.44 | 0.00 | 0.00 | 94.35 | 6,609,874.00 *gal* |
| Application event totals | | 53.16 | 7.90 | 49.23 | 759.66 | |

## 216 - 07/15/2023: Corn, silage

## 216 - 07/15/2023: Corn, silage

Field name: 216

Crop: Corn, silage

Plant date: 07/15/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/02/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 91.59 | 18.39 | 138.12 | 545.88 | 3,336,578.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 125.95 | 8,823,654.00 *gal* |
| Application event totals | | 92.17 | 18.39 | 138.12 | 671.84 | |

| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 125.83 | 8,814,778.00 *gal* |
| Application event totals | | 0.58 | 0.00 | 0.00 | 125.83 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 80.05 | 16.07 | 120.71 | 477.07 | 2,915,987.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.56 | 0.00 | 0.00 | 121.99 | 8,545,992.00 *gal* |
| Application event totals | | 80.61 | 16.07 | 120.71 | 599.06 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.57 | 0.00 | 0.00 | 123.54 | 8,654,632.00 *gal* |
| Application event totals | | 0.57 | 0.00 | 0.00 | 123.54 | |

| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 68.31 | 9.43 | 86.69 | 817.88 | 2,789,741.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 124.69 | 8,735,473.00 *gal* |
| Application event totals | | 68.89 | 9.43 | 86.69 | 942.57 | |

## 216 - 07/15/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.55 | 0.00 | 0.00 | 119.72 | 8,387,123.00 *gal* |
| Application event totals | | 0.55 | 0.00 | 0.00 | 119.72 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/25/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 40.57 | 5.60 | 51.49 | 485.79 | 1,656,997.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.54 | 0.00 | 0.00 | 117.85 | 8,256,321.00 *gal* |
| Application event totals | | 41.12 | 5.60 | 51.49 | 603.64 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/13/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.54 | 0.00 | 0.00 | 117.90 | 8,259,882.00 *gal* |
| Application event totals | | 0.54 | 0.00 | 0.00 | 117.90 | |

## 219 - 11/12/2022: Wheat, silage, soft dough

Field name: 219

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/13/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 90.33 | 13.54 | 84.35 | 1,139.83 | 2,663,485.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.57 | 0.00 | 0.00 | 124.34 | 8,940,215.00 *gal* |
| Application event totals | | 90.91 | 13.54 | 84.35 | 1,264.18 | |

## 219 - 11/12/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 69.72 | 10.45 | 65.10 | 879.71 | 2,055,647.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 138.46 | 9,954,825.00 *gal* |
| Application event totals | | 70.36 | 10.45 | 65.10 | 1,018.17 | |

| | | | | |
|---|---|---|---|---|
| 02/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 72.50 | 10.86 | 67.70 | 914.81 | 2,137,664.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.48 | 0.00 | 0.00 | 104.95 | 7,545,687.00 *gal* |
| Application event totals | | 72.98 | 10.86 | 67.70 | 1,019.76 | |

## 219 - 06/25/2023: Corn, silage

Field name: 219

Crop: Corn, silage

Plant date: 06/25/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 73.88 | 14.84 | 111.42 | 440.34 | 2,762,314.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 132.67 | 9,538,951.00 *gal* |
| Application event totals | | 74.50 | 14.84 | 111.42 | 573.01 | |

| | | | | |
|---|---|---|---|---|
| 07/06/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 132.76 | 9,545,687.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 132.76 | |

219 - 06/25/2023: 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 67.55 | 13.56 | 101.86 | 402.59 | 2,525,489.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 132.72 | 9,542,458.00 *gal* |
| Application event totals | | 68.16 | 13.56 | 101.86 | 535.31 | |

| | | | | |
|---|---|---|---|---|
| 08/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 132.78 | 9,546,852.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 132.78 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 75.45 | 10.42 | 95.75 | 903.33 | 3,162,314.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 134.06 | 9,638,569.00 *gal* |
| Application event totals | | 76.07 | 10.42 | 95.75 | 1,037.39 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 134.11 | 9,642,584.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 134.11 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 60.36 | 8.34 | 76.60 | 722.70 | 2,529,963.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 132.67 | 9,538,754.00 *gal* |
| Application event totals | | 60.97 | 8.34 | 76.60 | 855.37 | |

## 219 - 06/25/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 132.77 | 9,545,886.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 132.77 | |

## 220 - 11/14/2022: Wheat, silage, soft dough

Field name: 220

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 |
|---|---|---|---|---|
| 11/15/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 84.63 | 12.68 | 79.03 | 1,067.92 | 2,463,448.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.63 | 0.00 | 0.00 | 135.85 | 9,642,448.00 *gal* |
| Application event totals | | 85.26 | 12.68 | 79.03 | 1,203.77 | |

| | | | | |
|---|---|---|---|---|
| 01/18/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 91.26 | 13.68 | 85.22 | 1,151.59 | 2,656,448.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 134.43 | 9,541,598.00 *gal* |
| Application event totals | | 91.88 | 13.68 | 85.22 | 1,286.02 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 66.92 | 10.03 | 62.48 | 844.39 | 1,947,816.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.55 | 0.00 | 0.00 | 118.99 | 8,445,687.00 *gal* |
| Application event totals | | 67.47 | 10.03 | 62.48 | 963.38 | |

## 220 - 06/25/2023: Corn, silage

## 220 - 06/25/2023: Corn, silage

Field name: 220

Crop: Corn, silage

Plant date: 06/25/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 68.54 | 13.76 | 103.36 | 408.49 | 2,529,665.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.59 | 0.00 | 0.00 | 127.85 | 9,074,587.00 *gal* |
| Application event totals | | 69.13 | 13.76 | 103.36 | 536.34 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 137.68 | 9,772,489.00 *gal* |
| Application event totals | | 0.64 | 0.00 | 0.00 | 137.68 | |

| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 72.59 | 14.58 | 109.46 | 432.61 | 2,678,995.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.59 | 0.00 | 0.00 | 127.88 | 9,076,951.00 *gal* |
| Application event totals | | 73.18 | 14.58 | 109.46 | 560.49 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/30/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 137.72 | 9,774,896.00 *gal* |
| Application event totals | | 0.64 | 0.00 | 0.00 | 137.72 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 68.40 | 9.45 | 86.80 | 818.94 | 2,830,115.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 126.48 | 8,976,987.00 *gal* |
| Application event totals | | 68.98 | 9.45 | 86.80 | 945.41 | |

## 220 - 06/25/2023: 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 137.68 | 9,772,489.00 *gal* |
| Application event totals | | 0.64 | 0.00 | 0.00 | 137.68 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 62.81 | 8.67 | 79.71 | 751.99 | 2,598,753.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 137.65 | 9,769,854.00 *gal* |
| Application event totals | | 63.44 | 8.67 | 79.71 | 889.64 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 126.16 | 8,954,778.00 *gal* |
| Application event totals | | 0.58 | 0.00 | 0.00 | 126.16 | |

## 225 - 11/12/2022: Wheat, silage, soft dough

Field name: 225

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/13/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 79.92 | 11.98 | 74.63 | 1,008.45 | 2,205,417.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.67 | 0.00 | 0.00 | 145.54 | 9,793,654.00 *gal* |
| Application event totals | | 80.59 | 11.98 | 74.63 | 1,153.99 | |

## 225 - 11/12/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/14/2023 | 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 | 81.01 | 12.14 | 75.64 | 1,022.20 | 2,235,489.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.56 | 0.00 | 0.00 | 120.29 | 8,094,587.00 *gal* |
| Application event totals | | 81.56 | 12.14 | 75.64 | 1,142.49 | |

| | | | | |
|---|---|---|---|---|
| 02/22/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 66.79 | 10.01 | 62.37 | 842.83 | 1,843,225.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.52 | 0.00 | 0.00 | 112.83 | 7,592,122.00 *gal* |
| Application event totals | | 67.32 | 10.01 | 62.37 | 955.66 | |

## 225 - 07/01/2023: Corn, silage

Field name: 225

Crop: Corn, silage

Plant date: 07/01/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 64.03 | 12.86 | 96.56 | 381.64 | 2,240,587.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 135.13 | 9,092,687.00 *gal* |
| Application event totals | | 64.66 | 12.86 | 96.56 | 516.76 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 135.12 | 9,092,357.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 135.12 | |

225 - 07/01/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/22/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 82.58 | 16.58 | 124.53 | 492.19 | 2,889,654.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 126.21 | 8,492,458.00 *gal* |
| Application event totals | | 83.17 | 16.58 | 124.53 | 618.40 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 135.17 | 9,095,487.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 135.17 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 82.61 | 11.41 | 104.84 | 989.10 | 3,240,587.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.52 | 0.00 | 0.00 | 112.90 | 7,596,852.00 *gal* |
| Application event totals | | 83.13 | 11.41 | 104.84 | 1,101.99 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.56 | 0.00 | 0.00 | 120.30 | 8,094,852.00 *gal* |
| Application event totals | | 0.56 | 0.00 | 0.00 | 120.30 | |

| | | | | |
|---|---|---|---|---|
| 09/10/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 52.01 | 7.18 | 66.00 | 622.73 | 2,040,258.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.59 | 0.00 | 0.00 | 127.65 | 8,589,698.00 *gal* |
| Application event totals | | 52.60 | 7.18 | 66.00 | 750.38 | |

## 225 - 07/01/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/25/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.59 | 0.00 | 0.00 | 127.00 | 8,545,884.00 *gal* |
| Application event totals | | 0.59 | 0.00 | 0.00 | 127.00 | |

## 226 - 11/20/2022: Wheat, silage, soft dough

Field name: 226

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/21/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 84.62 | 12.68 | 79.01 | 1,067.71 | 2,398,987.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.54 | 0.00 | 0.00 | 116.01 | 8,020,554.00 *gal* |
| Application event totals | | 85.15 | 12.68 | 79.01 | 1,183.72 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 81.05 | 12.14 | 75.68 | 1,022.70 | 2,297,852.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.68 | 0.00 | 0.00 | 146.38 | 10,119,856.00 *gal* |
| Application event totals | | 81.72 | 12.14 | 75.68 | 1,169.08 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/23/2023 | 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 | 68.95 | 10.33 | 64.38 | 870.06 | 1,954,897.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.74 | 8,001,254.00 *gal* |
| Application event totals | | 69.49 | 10.33 | 64.38 | 985.79 | |

## 226 - 06/29/2023: Corn, silage

226 - 06/29/2023: Corn, silage

Field name: 226

Crop: Corn, silage

Plant date: 06/29/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 77.88 | 15.64 | 117.44 | 464.15 | 2,799,654.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.66 | 0.00 | 0.00 | 142.35 | 9,841,564.00 *gal* |
| Application event totals | | 78.53 | 15.64 | 117.44 | 606.50 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 133.42 | 9,223,654.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 133.42 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 73.03 | 14.66 | 110.13 | 435.27 | 2,625,498.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 124.69 | 8,620,654.00 *gal* |
| Application event totals | | 73.61 | 14.66 | 110.13 | 559.97 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.57 | 0.00 | 0.00 | 123.23 | 8,519,564.00 *gal* |
| Application event totals | | 0.57 | 0.00 | 0.00 | 123.23 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 70.83 | 9.78 | 89.89 | 848.11 | 2,854,812.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.57 | 0.00 | 0.00 | 123.24 | 8,520,156.00 *gal* |
| Application event totals | | 71.40 | 9.78 | 89.89 | 971.35 | |

## 226 - 06/29/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/27/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 49.51 | 6.84 | 62.83 | 592.82 | 1,995,489.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.57 | 0.00 | 0.00 | 123.18 | 8,515,648.00 *gal* |
| Application event totals | | 50.08 | 6.84 | 62.83 | 716.00 | |

| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.54 | 0.00 | 0.00 | 117.49 | 8,122,568.00 *gal* |
| Application event totals | | 0.54 | 0.00 | 0.00 | 117.49 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/27/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.12 | 9,064,991.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 131.12 | |

## 229 - 11/15/2022: Wheat, silage, soft dough

Field name: 229

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/16/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 98.47 | 14.75 | 91.95 | 1,242.51 | 2,828,951.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.73 | 0.00 | 0.00 | 157.33 | 11,022,154.00 *gal* |
| Application event totals | | 99.19 | 14.75 | 91.95 | 1,399.84 | |

## 229 - 11/15/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 84.50 | 12.66 | 78.90 | 1,066.21 | 2,427,549.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.50 | 0.00 | 0.00 | 107.50 | 7,531,254.00 *gal* |
| Application event totals | | 84.99 | 12.66 | 78.90 | 1,173.71 | |

| | | | | |
|---|---|---|---|---|
| 02/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 61.14 | 9.16 | 57.09 | 771.49 | 1,756,547.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.49 | 0.00 | 0.00 | 106.10 | 7,433,156.00 *gal* |
| Application event totals | | 61.63 | 9.16 | 57.09 | 877.60 | |

## 229 - 06/27/2023: Corn, silage

Field name: 229

Crop: Corn, silage

Plant date: 06/27/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 | 74.91 | 15.04 | 112.97 | 446.47 | 2,728,954.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.59 | 0.00 | 0.00 | 127.76 | 8,950,231.00 *gal* |
| Application event totals | | 75.50 | 15.04 | 112.97 | 574.23 | |

| | | | | |
|---|---|---|---|---|
| 07/06/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 129.19 | 9,050,456.00 *gal* |
| Application event totals | | 0.60 | 0.00 | 0.00 | 129.19 | |

229 - 06/27/2023: 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 77.68 | 15.60 | 117.14 | 462.95 | 2,829,654.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 130.61 | 9,150,221.00 *gal* |
| Application event totals | | 78.28 | 15.60 | 117.14 | 593.56 | |

| | | | | |
|---|---|---|---|---|
| 08/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 129.15 | 9,047,852.00 *gal* |
| Application event totals | | 0.60 | 0.00 | 0.00 | 129.15 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 66.84 | 9.23 | 84.82 | 800.23 | 2,729,564.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 130.65 | 9,152,458.00 *gal* |
| Application event totals | | 67.44 | 9.23 | 84.82 | 930.88 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 130.55 | 9,145,893.00 *gal* |
| Application event totals | | 0.60 | 0.00 | 0.00 | 130.55 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 62.66 | 8.65 | 79.52 | 750.22 | 2,558,963.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 130.66 | 9,153,265.00 *gal* |
| Application event totals | | 63.26 | 8.65 | 79.52 | 880.88 | |

## 229 - 06/27/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/29/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.56 | 0.00 | 0.00 | 121.67 | 8,523,558.00 *gal* |
| Application event totals | | 0.56 | 0.00 | 0.00 | 121.67 | |

## 230 - 11/15/2022: Wheat, silage, soft dough

Field name: 230

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/16/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 81.09 | 12.15 | 75.72 | 1,023.21 | 2,329,654.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 126.35 | 8,851,235.00 *gal* |
| Application event totals | | 81.67 | 12.15 | 75.72 | 1,149.55 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 77.32 | 11.59 | 72.20 | 975.69 | 2,221,456.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 134.92 | 9,452,114.00 *gal* |
| Application event totals | | 77.95 | 11.59 | 72.20 | 1,110.61 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/23/2023 | 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 | 85.45 | 12.80 | 79.79 | 1,078.20 | 2,454,852.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.56 | 0.00 | 0.00 | 122.12 | 8,555,214.00 *gal* |
| Application event totals | | 86.01 | 12.80 | 79.79 | 1,200.32 | |

## 230 - 07/12/2023: Corn, silage

230 - 07/12/2023: Corn, silage

Field name: 230

Crop: Corn, silage

Plant date: 07/12/2023

| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 66.65 | 13.38 | 100.50 | 397.21 | 2,427,854.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.63 | 0.00 | 0.00 | 136.34 | 9,551,224.00 *gal* |
| Application event totals | | 67.28 | 13.38 | 100.50 | 533.55 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.98 | 9,245,889.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 131.98 | |

| | | | | |
|---|---|---|---|---|
| 08/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 66.81 | 9.23 | 84.78 | 799.91 | 2,728,457.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 132.02 | 9,248,654.00 *gal* |
| Application event totals | | 67.42 | 9.23 | 84.78 | 931.93 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 133.50 | 9,352,354.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 133.50 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 71.63 | 9.89 | 90.91 | 857.67 | 2,925,469.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.98 | 9,245,896.00 *gal* |
| Application event totals | | 72.24 | 9.89 | 90.91 | 989.65 | |

## 230 - 07/12/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 134.89 | 9,449,852.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 134.89 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 50.89 | 7.03 | 64.59 | 609.35 | 2,078,455.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.63 | 0.00 | 0.00 | 136.26 | 9,545,896.00 *gal* |
| Application event totals | | 51.52 | 7.03 | 64.59 | 745.61 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/15/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 130.20 | 9,121,458.00 *gal* |
| Application event totals | | 0.60 | 0.00 | 0.00 | 130.20 | |

## 231 - 11/16/2022: Wheat, silage, soft dough

Field name: 231

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/17/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 80.17 | 12.01 | 74.86 | 1,011.64 | 2,273,002.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.68 | 0.00 | 0.00 | 147.79 | 10,217,554.00 *gal* |
| Application event totals | | 80.85 | 12.01 | 74.86 | 1,159.43 | |

## 231 - 11/16/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/18/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 91.79 | 13.75 | 85.71 | 1,158.21 | 2,602,336.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.55 | 0.00 | 0.00 | 118.86 | 8,216,995.00 *gal* |
| Application event totals | | 92.34 | 13.75 | 85.71 | 1,277.07 | |

| | | | | |
|---|---|---|---|---|
| 02/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 71.44 | 10.71 | 66.71 | 901.48 | 2,025,489.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.54 | 7,020,156.00 *gal* |
| Application event totals | | 71.91 | 10.71 | 66.71 | 1,003.02 | |

## 231 - 06/24/2023: Corn, silage

Field name: 231

Crop: Corn, silage

Plant date: 06/24/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 77.09 | 15.48 | 116.25 | 459.45 | 2,771,324.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.91 | 9,119,654.00 *gal* |
| Application event totals | | 77.70 | 15.48 | 116.25 | 591.36 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 137.67 | 9,517,895.00 *gal* |
| Application event totals | | 0.64 | 0.00 | 0.00 | 137.67 | |

231 - 06/24/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/19/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 66.08 | 13.27 | 99.64 | 393.82 | 2,375,448.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.94 | 9,121,554.00 *gal* |
| Application event totals | | 66.69 | 13.27 | 99.64 | 525.76 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.94 | 9,121,564.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 131.94 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 66.19 | 9.14 | 84.00 | 792.48 | 2,667,554.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.91 | 9,119,654.00 *gal* |
| Application event totals | | 66.80 | 9.14 | 84.00 | 924.40 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.91 | 9,119,654.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 131.91 | |

| | | | | |
|---|---|---|---|---|
| 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 | 62.91 | 8.69 | 79.84 | 753.24 | 2,535,448.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 130.41 | 9,015,664.00 *gal* |
| Application event totals | | 63.51 | 8.69 | 79.84 | 883.64 | |

## 231 - 06/24/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 129.25 | 8,935,225.00 *gal* |
| Application event totals | | 0.60 | 0.00 | 0.00 | 129.25 | |

## 232 - 11/16/2022: Wheat, silage, soft dough

Field name: 232

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/17/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 83.71 | 12.54 | 78.16 | 1,056.24 | 2,373,225.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.65 | 0.00 | 0.00 | 140.25 | 9,696,334.00 *gal* |
| Application event totals | | 84.35 | 12.54 | 78.16 | 1,196.50 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 79.92 | 11.98 | 74.63 | 1,008.45 | 2,265,842.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.57 | 0.00 | 0.00 | 124.29 | 8,592,554.00 *gal* |
| Application event totals | | 80.49 | 11.98 | 74.63 | 1,132.74 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 76.03 | 11.39 | 71.00 | 959.42 | 2,155,668.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.51 | 0.00 | 0.00 | 109.78 | 7,589,335.00 *gal* |
| Application event totals | | 76.54 | 11.39 | 71.00 | 1,069.19 | |

## 232 - 07/12/2023: Corn, silage

## 232 - 07/12/2023: Corn, silage

Field name: 232

Crop: Corn, silage

Plant date: 07/12/2023

| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 85.28 | 17.12 | 128.61 | 508.29 | 3,065,889.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 138.14 | 9,549,885.00 *gal* |
| Application event totals | | 85.92 | 17.12 | 128.61 | 646.42 | |

| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 139.62 | 9,652,449.00 *gal* |
| Application event totals | | 0.64 | 0.00 | 0.00 | 139.62 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 57.85 | 11.62 | 87.24 | 344.78 | 2,079,654.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 133.82 | 9,251,336.00 *gal* |
| Application event totals | | 58.47 | 11.62 | 87.24 | 478.60 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 133.83 | 9,252,449.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 133.83 | |

| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 68.88 | 9.51 | 87.41 | 824.68 | 2,775,943.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 135.30 | 9,353,664.00 *gal* |
| Application event totals | | 69.50 | 9.51 | 87.41 | 959.98 | |

232 - 07/12/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 129.51 | 8,953,679.00 *gal* |
| Application event totals | | 0.60 | 0.00 | 0.00 | 129.51 | |

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

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 75.84 | 10.47 | 96.24 | 908.02 | 3,056,449.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.65 | 0.00 | 0.00 | 141.08 | 9,753,664.00 *gal* |
| Application event totals | | 76.49 | 10.47 | 96.24 | 1,049.10 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/14/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.47 | 9,089,336.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 131.47 | |

MD-1 - 11/01/2017: Almond, in shell

Field name: MD-1

Crop: Almond, in shell

Plant date: 11/01/2017

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.51 | 7,485,421.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.51 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.55 | 7,488,654.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.55 | |

MD-1 - 11/01/2017: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.46 | 7,482,154.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.46 | |

| | | | | |
|---|---|---|---|---|
| 05/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.48 | 0.00 | 0.00 | 104.42 | 7,700,245.00 *gal* |
| Application event totals | | 0.48 | 0.00 | 0.00 | 104.42 | |

| | | | | |
|---|---|---|---|---|
| 06/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.71 | 7,500,254.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.71 | |

| | | | | |
|---|---|---|---|---|
| 06/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.74 | 7,502,852.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.74 | |

| | | | | |
|---|---|---|---|---|
| 07/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.72 | 7,501,485.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.72 | |

| | | | | |
|---|---|---|---|---|
| 07/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.74 | 7,502,951.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.74 | |

## MD-1 - 11/01/2017: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.73 | 7,501,587.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.73 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.74 | 7,502,456.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.74 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.75 | 7,503,548.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.75 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.47 | 0.00 | 0.00 | 101.75 | 7,503,442.00 *gal* |
| Application event totals | | 0.47 | 0.00 | 0.00 | 101.75 | |

## MD-10 - 11/10/2017: Alfalfa, hay

Field name: MD-10

Crop: Alfalfa, hay

Plant date: 11/10/2017

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/05/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.77 | 0.00 | 0.00 | 167.60 | 14,522,345.00 *gal* |
| Application event totals | | 0.77 | 0.00 | 0.00 | 167.60 | |

MD-10 - 11/10/2017: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/05/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.88 | 0.00 | 0.00 | 190.82 | 16,534,551.00 *gal* |
| Application event totals | | 0.88 | 0.00 | 0.00 | 190.82 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/07/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.77 | 0.00 | 0.00 | 167.65 | 14,526,547.00 *gal* |
| Application event totals | | 0.77 | 0.00 | 0.00 | 167.65 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/09/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.88 | 0.00 | 0.00 | 190.67 | 16,521,336.00 *gal* |
| Application event totals | | 0.88 | 0.00 | 0.00 | 190.67 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/10/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.77 | 0.00 | 0.00 | 167.57 | 14,519,554.00 *gal* |
| Application event totals | | 0.77 | 0.00 | 0.00 | 167.57 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/10/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.88 | 0.00 | 0.00 | 190.70 | 16,523,665.00 *gal* |
| Application event totals | | 0.88 | 0.00 | 0.00 | 190.70 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/15/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.88 | 0.00 | 0.00 | 190.71 | 16,524,565.00 *gal* |
| Application event totals | | 0.88 | 0.00 | 0.00 | 190.71 | |

## MD-10 - 11/10/2017: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/15/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.88 | 0.00 | 0.00 | 190.71 | 16,524,556.00 *gal* |
| Application event totals | | 0.88 | 0.00 | 0.00 | 190.71 | |

## MD-11 - 11/17/2022: Wheat, silage, soft dough

Field name: MD-11

Crop: Wheat, silage, soft dough

Plant date: 11/17/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/18/2022 | 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 68.58 | 10.28 | 64.04 | 865.35 | 2,281,336.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.59 | 0.00 | 0.00 | 128.61 | 10,432,115.00 *gal* |
| Application event totals | | 69.17 | 10.28 | 64.04 | 993.96 | |

| | | | | |
|---|---|---|---|---|
| 01/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 68.45 | 10.26 | 63.91 | 863.66 | 2,276,884.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.56 | 0.00 | 0.00 | 121.21 | 9,832,558.00 *gal* |
| Application event totals | | 69.00 | 10.26 | 63.91 | 984.88 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 46.73 | 7.00 | 43.64 | 589.71 | 1,554,661.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.51 | 0.00 | 0.00 | 111.32 | 9,029,664.00 *gal* |
| Application event totals | | 47.25 | 7.00 | 43.64 | 701.03 | |

## MD-11 - 07/10/2023: Corn, silage

MD-11 - 07/10/2023: Corn, silage

Field name: MD-11

Crop: Corn, silage

Plant date: 07/10/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/01/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 70.66 | 14.19 | 106.55 | 421.11 | 2,980,336.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 138.44 | 11,230,221.00 *gal* |
| Application event totals | | 71.29 | 14.19 | 106.55 | 559.55 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 126.07 | 10,226,489.00 *gal* |
| Application event totals | | 0.58 | 0.00 | 0.00 | 126.07 | |

| | | | | |
|---|---|---|---|---|
| 08/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 69.25 | 9.56 | 87.88 | 829.13 | 3,274,668.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.06 | 9,333,584.00 *gal* |
| Application event totals | | 69.78 | 9.56 | 87.88 | 944.19 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 113.77 | 9,228,665.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 113.77 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 71.61 | 9.89 | 90.88 | 857.40 | 3,386,334.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.02 | 9,330,225.00 *gal* |
| Application event totals | | 72.14 | 9.89 | 90.88 | 972.42 | |

## MD-11 - 07/10/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/20/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 138.35 | 11,222,584.00 *gal* |
| Application event totals | | 0.64 | 0.00 | 0.00 | 138.35 | |

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

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 64.63 | 8.93 | 82.02 | 773.85 | 3,056,331.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 138.39 | 11,225,668.00 *gal* |
| Application event totals | | 65.27 | 8.93 | 82.02 | 912.24 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/15/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 124.83 | 10,125,779.00 *gal* |
| Application event totals | | 0.58 | 0.00 | 0.00 | 124.83 | |

## MD-12 - 11/18/2022: Wheat, silage, soft dough

Field name: MD-12

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/19/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 75.50 | 11.31 | 70.50 | 952.68 | 2,083,445.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.57 | 0.00 | 0.00 | 122.93 | 8,272,300.00 *gal* |
| Application event totals | | 76.07 | 11.31 | 70.50 | 1,075.61 | |

## MD-12 - 11/18/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 82.67 | 12.39 | 77.19 | 1,043.16 | 2,281,332.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.59 | 0.00 | 0.00 | 128.82 | 8,668,445.00 *gal* |
| Application event totals | | 83.27 | 12.39 | 77.19 | 1,171.98 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 82.15 | 12.31 | 76.71 | 1,036.60 | 2,266,987.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.74 | 8,864,852.00 *gal* |
| Application event totals | | 82.76 | 12.31 | 76.71 | 1,168.34 | |

## MD-12 - 07/11/2023: Corn, silage

Field name: MD-12

Crop: Corn, silage

Plant date: 07/11/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/02/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 65.17 | 13.09 | 98.28 | 388.41 | 2,280,334.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 135.21 | 9,098,554.00 *gal* |
| Application event totals | | 65.79 | 13.09 | 98.28 | 523.62 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.73 | 0.00 | 0.00 | 158.42 | 10,659,887.00 *gal* |
| Application event totals | | 0.73 | 0.00 | 0.00 | 158.42 | |

MD-12 - 07/11/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 71.06 | 9.81 | 90.17 | 850.76 | 2,787,357.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.64 | 0.00 | 0.00 | 137.75 | 9,269,336.00 *gal* |
| Application event totals | | 71.69 | 9.81 | 90.17 | 988.51 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 135.02 | 9,085,478.00 *gal* |
| Application event totals | | 0.62 | 0.00 | 0.00 | 135.02 | |

| | | | | |
|---|---|---|---|---|
| 09/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 63.72 | 8.80 | 80.87 | 762.95 | 2,499,654.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 134.87 | 9,075,412.00 *gal* |
| Application event totals | | 64.34 | 8.80 | 80.87 | 897.82 | |

| | | | | |
|---|---|---|---|---|
| 09/20/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.63 | 0.00 | 0.00 | 136.36 | 9,175,412.00 *gal* |
| Application event totals | | 0.63 | 0.00 | 0.00 | 136.36 | |

| | | | | |
|---|---|---|---|---|
| 10/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 67.11 | 9.27 | 85.17 | 803.51 | 2,632,541.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.63 | 0.00 | 0.00 | 136.21 | 9,165,874.00 *gal* |
| Application event totals | | 67.74 | 9.27 | 85.17 | 939.72 | |

MD-12 - 07/11/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/15/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.63 | 0.00 | 0.00 | 136.20 | 9,164,778.00 *gal* |
| Application event totals | | 0.63 | 0.00 | 0.00 | 136.20 | |

MD-2 - 11/01/2017: Almond, in shell

Field name: MD-2

Crop: Almond, in shell

Plant date: 11/01/2017

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.46 | 0.00 | 0.00 | 98.75 | 7,282,154.00 *gal* |
| Application event totals | | 0.46 | 0.00 | 0.00 | 98.75 | |

| | | | | |
|---|---|---|---|---|
| 04/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.46 | 0.00 | 0.00 | 98.75 | 7,282,185.00 *gal* |
| Application event totals | | 0.46 | 0.00 | 0.00 | 98.75 | |

| | | | | |
|---|---|---|---|---|
| 05/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.46 | 0.00 | 0.00 | 98.91 | 7,293,548.00 *gal* |
| Application event totals | | 0.46 | 0.00 | 0.00 | 98.91 | |

| | | | | |
|---|---|---|---|---|
| 05/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.49 | 0.00 | 0.00 | 105.69 | 7,793,548.00 *gal* |
| Application event totals | | 0.49 | 0.00 | 0.00 | 105.69 | |

MD-2 - 11/01/2017: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.49 | 0.00 | 0.00 | 105.70 | 7,794,511.00 *gal* |
| Application event totals | | 0.49 | 0.00 | 0.00 | 105.70 | |

| | | | | |
|---|---|---|---|---|
| 06/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.49 | 0.00 | 0.00 | 105.70 | 7,794,558.00 *gal* |
| Application event totals | | 0.49 | 0.00 | 0.00 | 105.70 | |

| | | | | |
|---|---|---|---|---|
| 07/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.49 | 0.00 | 0.00 | 105.71 | 7,795,248.00 *gal* |
| Application event totals | | 0.49 | 0.00 | 0.00 | 105.71 | |

| | | | | |
|---|---|---|---|---|
| 07/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.48 | 0.00 | 0.00 | 104.36 | 7,695,986.00 *gal* |
| Application event totals | | 0.48 | 0.00 | 0.00 | 104.36 | |

| | | | | |
|---|---|---|---|---|
| 08/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.44 | 0.00 | 0.00 | 94.88 | 6,996,842.00 *gal* |
| Application event totals | | 0.44 | 0.00 | 0.00 | 94.88 | |

| | | | | |
|---|---|---|---|---|
| 08/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.48 | 0.00 | 0.00 | 104.37 | 7,696,852.00 *gal* |
| Application event totals | | 0.48 | 0.00 | 0.00 | 104.37 | |

## MD-2 - 11/01/2017: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/05/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.48 | 0.00 | 0.00 | 104.38 | 7,696,998.00 *gal* |
| Application event totals | | 0.48 | 0.00 | 0.00 | 104.38 | |

| | | | | |
|---|---|---|---|---|
| 09/20/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.49 | 0.00 | 0.00 | 105.73 | 7,796,978.00 *gal* |
| Application event totals | | 0.49 | 0.00 | 0.00 | 105.73 | |

## MD-3 - 04/01/2022: Almond, in shell

Field name: MD-3

Crop: Almond, in shell

Plant date: 04/01/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 115.27 | |

| | | | | |
|---|---|---|---|---|
| 05/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Liquid commercial fertilizer | 32.00 | 0.00 | 0.00 | 0.00 | |
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 32.53 | 0.00 | 0.00 | 115.27 | |

| | | | | |
|---|---|---|---|---|
| 06/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 115.27 | |

## MD-3 - 04/01/2022: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 115.27 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 115.27 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 115.27 | |

## MD-4 - 04/01/2022: Almond, in shell

Field name: MD-4

Crop: Almond, in shell

Plant date: 04/01/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 115.27 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Liquid commercial fertilizer | 32.00 | 0.00 | 0.00 | 0.00 | |
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 32.53 | 0.00 | 0.00 | 115.27 | |

## MD-4 - 04/01/2022: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 115.27 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 115.27 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 115.27 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/10/2023 | Pipeline | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.27 | 8,500,000.00 *gal* |
| Application event totals | | 0.53 | 0.00 | 0.00 | 115.27 | |

## MD-5 - 11/16/2022: Wheat, silage, soft dough

Field name: MD-5

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/17/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 77.48 | 11.61 | 72.35 | 977.69 | 2,284,587.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.72 | 0.00 | 0.00 | 157.06 | 11,292,456.00 *gal* |
| Application event totals | | 78.21 | 11.61 | 72.35 | 1,134.75 | |

## MD-5 - 11/16/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 74.09 | 11.10 | 69.18 | 934.90 | 2,184,597.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.26 | 8,286,951.00 *gal* |
| Application event totals | | 74.62 | 11.10 | 69.18 | 1,050.15 | |

| | | | | |
|---|---|---|---|---|
| 02/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 75.37 | 11.29 | 70.38 | 951.04 | 2,222,334.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.53 | 0.00 | 0.00 | 115.38 | 8,295,645.00 *gal* |
| Application event totals | | 75.90 | 11.29 | 70.38 | 1,066.42 | |

## MD-5 - 07/03/2023: Corn, silage

Field name: MD-5

Crop: Corn, silage

Plant date: 07/03/2023

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

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 82.53 | 16.57 | 124.45 | 491.86 | 3,085,498.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 132.08 | 9,496,554.00 *gal* |
| Application event totals | | 83.14 | 16.57 | 124.45 | 623.94 | |

| | | | | |
|---|---|---|---|---|
| 07/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.61 | 0.00 | 0.00 | 131.93 | 9,485,489.00 *gal* |
| Application event totals | | 0.61 | 0.00 | 0.00 | 131.93 | |

MD-5 - 07/03/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/02/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 78.36 | 10.82 | 99.45 | 938.25 | 3,284,557.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.62 | 0.00 | 0.00 | 133.46 | 9,595,648.00 *gal* |
| Application event totals | | 78.98 | 10.82 | 99.45 | 1,071.71 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 126.42 | 9,089,654.00 *gal* |
| Application event totals | | 0.58 | 0.00 | 0.00 | 126.42 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 64.08 | 8.85 | 81.32 | 767.26 | 2,685,945.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 129.01 | 9,275,896.00 *gal* |
| Application event totals | | 64.68 | 8.85 | 81.32 | 896.27 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.60 | 0.00 | 0.00 | 129.20 | 9,289,654.00 *gal* |
| Application event totals | | 0.60 | 0.00 | 0.00 | 129.20 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Lagoon | Process wastewater | 59.40 | 8.20 | 75.38 | 711.18 | 2,489,645.00 *gal* |
| Canal Water (Semi Tropic ID) | Surface water | 0.58 | 0.00 | 0.00 | 126.60 | 9,102,115.00 *gal* |
| Application event totals | | 59.98 | 8.20 | 75.38 | 837.78 | |

## MD-5 - 07/03/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/14/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.57 | 0.00 | 0.00 | 122.71 | 8,822,568.00 *gal* |
| Application event totals | | 0.57 | 0.00 | 0.00 | 122.71 | |

## MD-6 - 11/09/2017: Alfalfa, hay

Field name: MD-6

Crop: Alfalfa, hay

Plant date: 11/09/2017

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/05/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.73 | 0.00 | 0.00 | 158.60 | 11,403,515.00 *gal* |
| Application event totals | | 0.73 | 0.00 | 0.00 | 158.60 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/06/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.74 | 0.00 | 0.00 | 159.80 | 11,489,654.00 *gal* |
| Application event totals | | 0.74 | 0.00 | 0.00 | 159.80 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/08/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.74 | 0.00 | 0.00 | 159.89 | 11,495,647.00 *gal* |
| Application event totals | | 0.74 | 0.00 | 0.00 | 159.89 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/09/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 3.07 | 0.00 | 0.00 | 245.85 | 11,489,654.00 *gal* |
| Application event totals | | 3.07 | 0.00 | 0.00 | 245.85 | |

## MD-6 - 11/09/2017: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/10/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.73 | 0.00 | 0.00 | 158.73 | 11,412,459.00 *gal* |
| Application event totals | | 0.73 | 0.00 | 0.00 | 158.73 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/12/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.74 | 0.00 | 0.00 | 159.38 | 11,458,964.00 *gal* |
| Application event totals | | 0.74 | 0.00 | 0.00 | 159.38 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/15/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.87 | 0.00 | 0.00 | 187.62 | 13,489,564.00 *gal* |
| Application event totals | | 0.87 | 0.00 | 0.00 | 187.62 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/17/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.87 | 0.00 | 0.00 | 187.69 | 13,494,852.00 *gal* |
| Application event totals | | 0.87 | 0.00 | 0.00 | 187.69 | |

## MD-7 - 10/31/2016: Alfalfa, hay

Field name: MD-7

Crop: Alfalfa, hay

Plant date: 10/31/2016

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/06/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.74 | 0.00 | 0.00 | 159.90 | 11,496,548.00 *gal* |
| Application event totals | | 0.74 | 0.00 | 0.00 | 159.90 | |

MD-7 - 10/31/2016: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/07/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 162.67 | 11,695,648.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 162.67 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/08/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 162.67 | 11,695,698.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 162.67 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/09/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 162.76 | 11,702,154.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 162.76 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/11/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.76 | 0.00 | 0.00 | 164.07 | 11,796,489.00 *gal* |
| Application event totals | | 0.76 | 0.00 | 0.00 | 164.07 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/12/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.89 | 0.00 | 0.00 | 191.91 | 13,797,852.00 *gal* |
| Application event totals | | 0.89 | 0.00 | 0.00 | 191.91 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/14/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.76 | 0.00 | 0.00 | 164.06 | 11,795,668.00 *gal* |
| Application event totals | | 0.76 | 0.00 | 0.00 | 164.06 | |

## MD-7 - 10/31/2016: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/16/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.76 | 0.00 | 0.00 | 164.14 | 11,801,214.00 *gal* |
| Application event totals | | 0.76 | 0.00 | 0.00 | 164.14 | |

## MD-8 - 11/01/2020: Alfalfa, hay

Field name: MD-8

Crop: Alfalfa, hay

Plant date: 11/01/2020

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/04/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 162.70 | 11,697,852.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 162.70 | |

| | | | | |
|---|---|---|---|---|
| 04/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.74 | 0.00 | 0.00 | 161.29 | 11,596,489.00 *gal* |
| Application event totals | | 0.74 | 0.00 | 0.00 | 161.29 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.74 | 0.00 | 0.00 | 160.72 | 11,555,645.00 *gal* |
| Application event totals | | 0.74 | 0.00 | 0.00 | 160.72 | |

| | | | | |
|---|---|---|---|---|
| 06/07/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.74 | 0.00 | 0.00 | 161.19 | 11,589,654.00 *gal* |
| Application event totals | | 0.74 | 0.00 | 0.00 | 161.19 | |

## MD-8 - 11/01/2020: Alfalfa, hay

| 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.74 | 0.00 | 0.00 | 160.58 | 11,545,896.00 *gal* |
| Application event totals | | 0.74 | 0.00 | 0.00 | 160.58 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 161.98 | 11,645,963.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 161.98 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/11/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 162.23 | 11,664,589.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 162.23 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/14/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 162.24 | 11,664,789.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 162.24 | |

## MD-9 - 11/03/2016: Alfalfa, hay

Field name: MD-9

Crop: Alfalfa, hay

Plant date: 11/03/2016

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/05/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.69 | 0.00 | 0.00 | 148.44 | 12,588,459.00 *gal* |
| Application event totals | | 0.69 | 0.00 | 0.00 | 148.44 | |

MD-9 - 11/03/2016: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/06/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.68 | 0.00 | 0.00 | 148.29 | 12,575,412.00 *gal* |
| Application event totals | | 0.68 | 0.00 | 0.00 | 148.29 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/07/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.74 | 0.00 | 0.00 | 160.09 | 13,576,458.00 *gal* |
| Application event totals | | 0.74 | 0.00 | 0.00 | 160.09 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/08/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.87 | 0.00 | 0.00 | 187.44 | 15,895,478.00 *gal* |
| Application event totals | | 0.87 | 0.00 | 0.00 | 187.44 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/09/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 162.49 | 13,779,654.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 162.49 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/10/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 162.56 | 13,785,469.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 162.56 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/12/2023 | 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 |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 162.60 | 13,788,964.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 162.60 | |

MD-9 - 11/03/2016: Alfalfa, hay

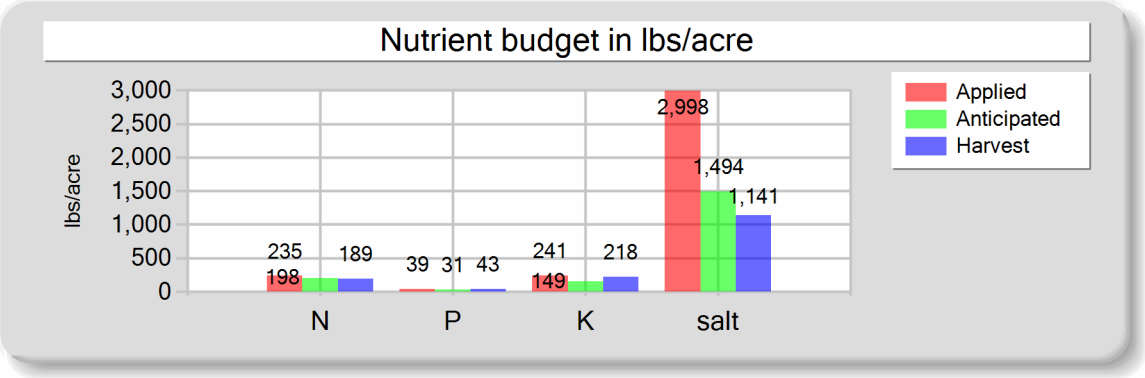
| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/14/2023 | Subsurface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Canal Water (Semi Tropic ID) | Surface water | 0.75 | 0.00 | 0.00 | 162.73 | 13,800,486.00 *gal* |
| Application event totals | | 0.75 | 0.00 | 0.00 | 162.73 | |

## B. NUTRIENT BUDGET

207 - 11/15/2022: Wheat, silage, soft dough

Field name: 207 Crop: Wheat, silage, soft dough Plant date: 11/15/2022




| | 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 | 226.72 | 39.09 | 240.51 | 2,647.86 |
| Fresh water | 1.61 | 0.00 | 0.00 | 349.81 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 235.33 | 39.09 | 240.51 | 2,997.67 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 189.03 | 43.46 | 218.37 | 1,140.72 |
| Nutrient balance | 46.30 | -4.37 | 22.15 | 1,856.95 |
| Applied to removed ratio | 1.24 | 0.90 | 1.10 | 2.63 |

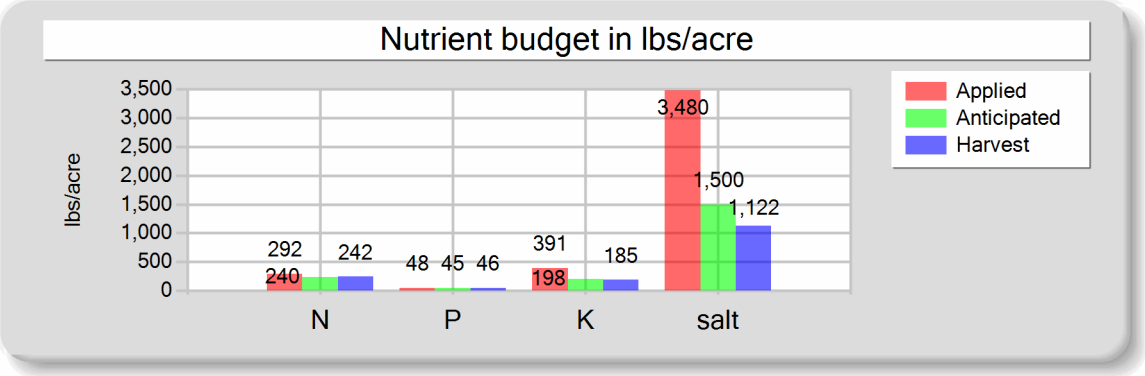
| Fresh water applied | |
|---|---|
| 23,216,517.00 | *gallons* |
| 854.99 | *acre-inches* |
| 11.87 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,170,598.00 | *gallons* |
| 227.24 | *acre-inches* |
| 3.16 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 207 - 06/29/2023: Corn, silage

Field name: 207 Crop: Corn, silage Plant date: 06/29/2023




| | 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 | 280.66 | 47.94 | 391.16 | 2,479.91 |
| Fresh water | 4.61 | 0.00 | 0.00 | 999.73 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 292.27 | 47.94 | 391.16 | 3,479.65 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 241.76 | 46.34 | 185.35 | 1,122.16 |
| Nutrient balance | 50.51 | 1.60 | 205.81 | 2,357.49 |
| Applied to removed ratio | 1.21 | 1.03 | 2.11 | 3.10 |

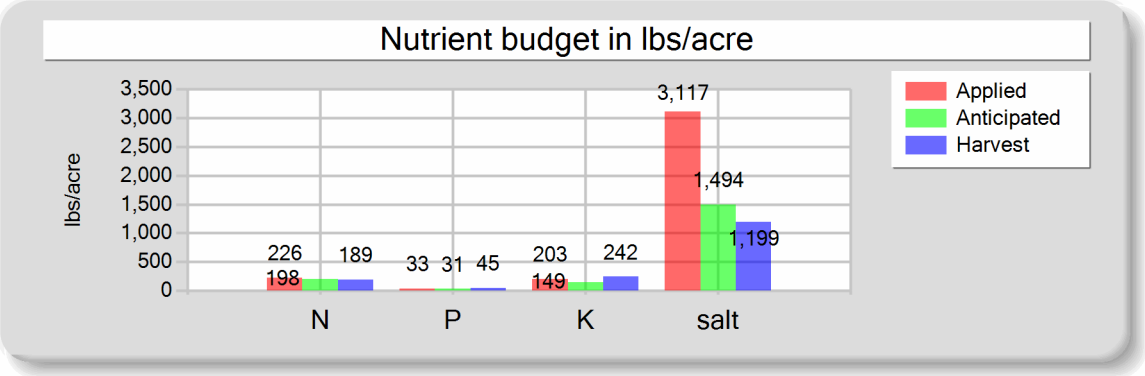
| Fresh water applied | |
|---|---|
| 66,350,856.00 | *gallons* |
| 2,443.48 | *acre-inches* |
| 33.94 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,246,924.00 | *gallons* |
| 377.36 | *acre-inches* |
| 5.24 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 212 - 11/15/2022: Wheat, silage, soft dough

Field name: 212 Crop: Wheat, silage, soft dough Plant date: 11/15/2022




| | 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 | 217.70 | 32.62 | 203.27 | 2,746.96 |
| Fresh water | 1.71 | 0.00 | 0.00 | 369.73 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 226.40 | 32.62 | 203.27 | 3,116.69 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 189.42 | 44.83 | 242.10 | 1,199.27 |
| Nutrient balance | 36.99 | -12.21 | -38.82 | 1,917.42 |
| Applied to removed ratio | 1.20 | 0.73 | 0.84 | 2.60 |

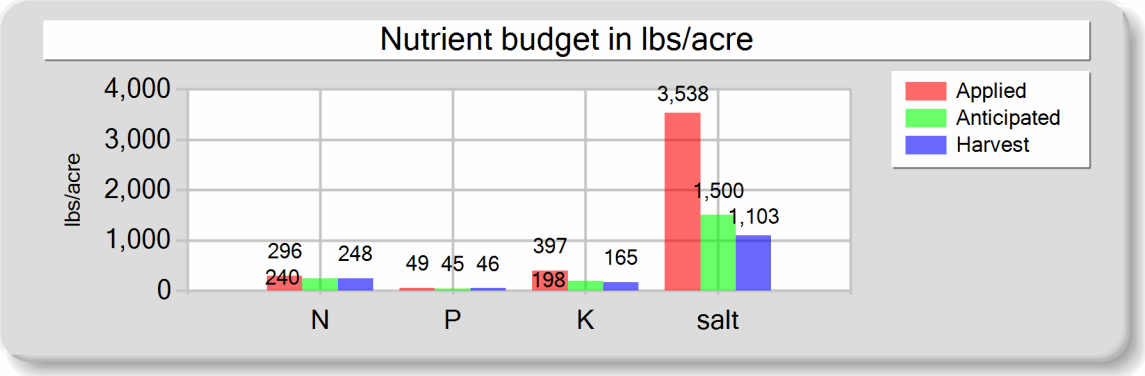
| Fresh water applied | |
|---|---|
| 24,538,605.00 | *gallons* |
| 903.67 | *acre-inches* |
| 12.55 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 5,925,130.00 | *gallons* |
| 218.20 | *acre-inches* |
| 3.03 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 212 - 07/01/2023: Corn, silage

Field name: 212 Crop: Corn, silage Plant date: 07/01/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 283.94 | 48.85 | 397.06 | 2,475.32 |
| Fresh water | 4.90 | 0.00 | 0.00 | 1,062.20 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 295.84 | 48.85 | 397.06 | 3,537.53 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 248.04 | 45.86 | 164.67 | 1,102.63 |
| Nutrient balance | 47.80 | 3.00 | 232.40 | 2,434.89 |
| Applied to removed ratio | 1.19 | 1.07 | 2.41 | 3.21 |

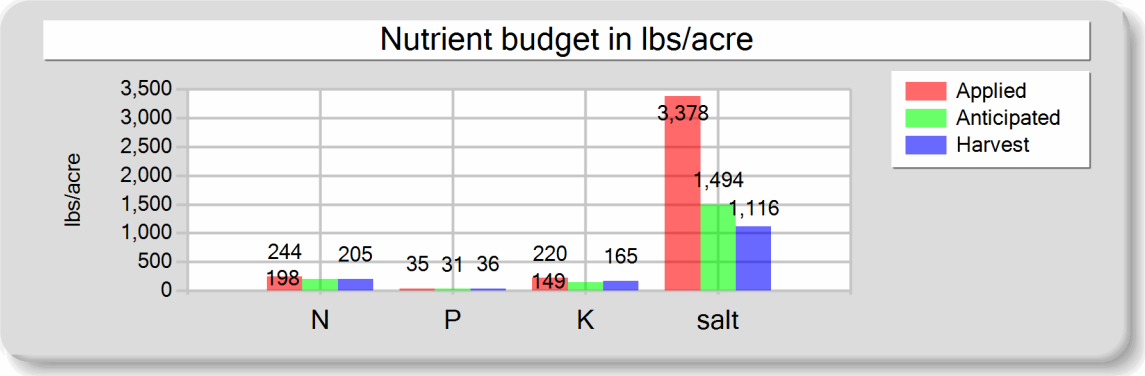
| Fresh water applied | |
|---|---|
| 70,496,956.00 | *gallons* |
| 2,596.16 | *acre-inches* |
| 36.06 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,343,367.00 | *gallons* |
| 380.91 | *acre-inches* |
| 5.29 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 213 - 11/15/2022: Wheat, silage, soft dough

Field name: 213 Crop: Wheat, silage, soft dough Plant date: 11/15/2022




| | 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 | 235.10 | 35.23 | 219.52 | 2,966.51 |
| Fresh water | 1.90 | 0.00 | 0.00 | 411.65 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 244.00 | 35.23 | 219.52 | 3,378.16 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 205.11 | 36.12 | 165.12 | 1,115.85 |
| Nutrient balance | 38.89 | -0.89 | 54.40 | 2,262.31 |
| Applied to removed ratio | 1.19 | 0.98 | 1.33 | 3.03 |

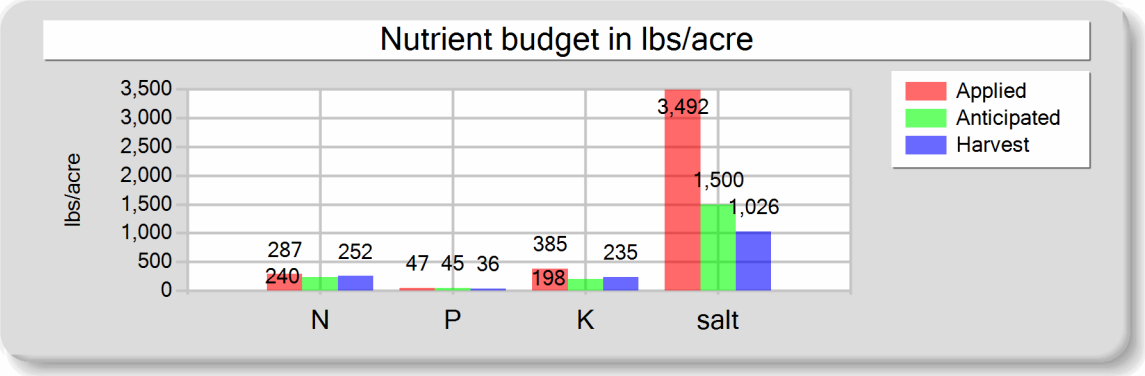
| Fresh water applied | |
|---|---|
| 20,490,614.00 | *gallons* |
| 754.60 | *acre-inches* |
| 13.97 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 4,799,030.00 | *gallons* |
| 176.73 | *acre-inches* |
| 3.27 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 213 - 07/01/2023: Corn, silage

Field name: 213 Crop: Corn, silage Plant date: 07/01/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 275.39 | 47.36 | 385.04 | 2,402.36 |
| Fresh water | 5.03 | 0.00 | 0.00 | 1,089.18 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 287.42 | 47.36 | 385.04 | 3,491.54 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 252.20 | 36.03 | 235.14 | 1,025.88 |
| Nutrient balance | 35.21 | 11.34 | 149.91 | 2,465.66 |
| Applied to removed ratio | 1.14 | 1.31 | 1.64 | 3.40 |

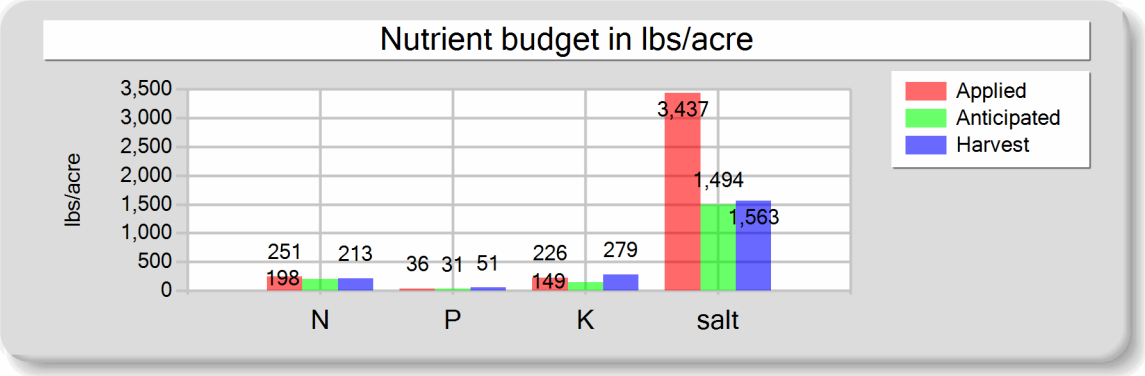
| Fresh water applied | |
|---|---|
| 54,215,674.00 | *gallons* |
| 1,996.58 | *acre-inches* |
| 36.97 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 7,524,738.00 | *gallons* |
| 277.11 | *acre-inches* |
| 5.13 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 214 - 11/14/2022: Wheat, silage, soft dough

Field name: 214 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 | 242.11 | 36.28 | 226.07 | 3,054.96 |
| Fresh water | 1.76 | 0.00 | 0.00 | 382.09 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 250.87 | 36.28 | 226.07 | 3,437.05 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 212.88 | 51.20 | 278.90 | 1,562.92 |
| Nutrient balance | 37.99 | -14.92 | -52.83 | 1,874.14 |
| Applied to removed ratio | 1.18 | 0.71 | 0.81 | 2.20 |

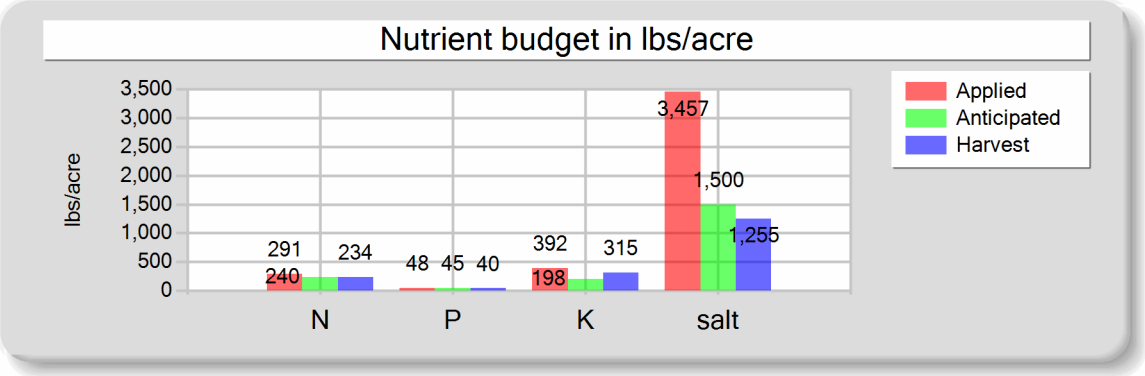
| Fresh water applied | |
|---|---|
| 18,666,949.00 | *gallons* |
| 687.44 | *acre-inches* |
| 12.97 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 4,850,600.00 | *gallons* |
| 178.63 | *acre-inches* |
| 3.37 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 214 - 06/30/2023: Corn, silage

Field name: 214 Crop: Corn, silage Plant date: 06/30/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 279.12 | 48.49 | 392.09 | 2,389.08 |
| Fresh water | 4.93 | 0.00 | 0.00 | 1,068.27 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 291.05 | 48.49 | 392.09 | 3,457.35 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 233.63 | 40.05 | 315.41 | 1,254.95 |
| Nutrient balance | 57.42 | 8.43 | 76.68 | 2,202.40 |
| Applied to removed ratio | 1.25 | 1.21 | 1.24 | 2.75 |

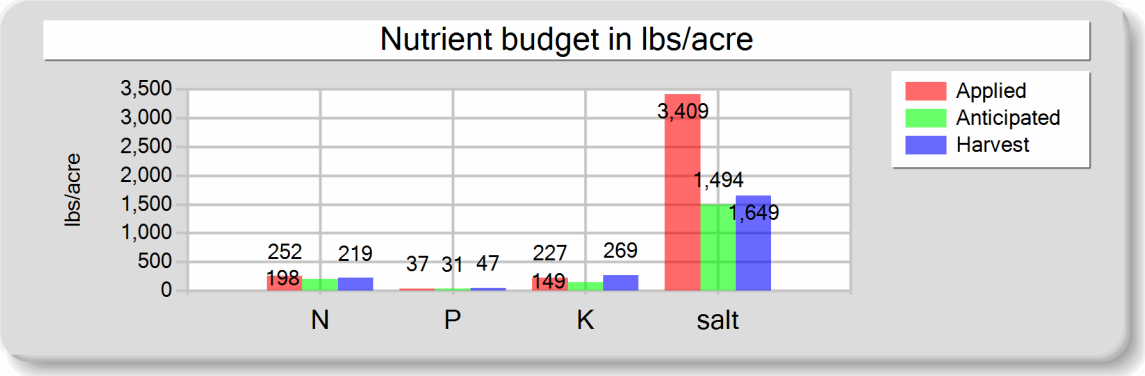
| Fresh water applied | |
|---|---|
| 52,189,963.00 | *gallons* |
| 1,921.98 | *acre-inches* |
| 36.26 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 7,462,090.00 | *gallons* |
| 274.80 | *acre-inches* |
| 5.18 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 215 - 11/14/2022: Wheat, silage, soft dough

Field name: 215 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 | 243.62 | 36.51 | 227.49 | 3,074.12 |
| Fresh water | 1.55 | 0.00 | 0.00 | 335.16 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 252.17 | 36.51 | 227.49 | 3,409.28 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 218.59 | 47.47 | 268.56 | 1,648.81 |
| Nutrient balance | 33.58 | -10.96 | -41.07 | 1,760.48 |
| Applied to removed ratio | 1.15 | 0.77 | 0.85 | 2.07 |

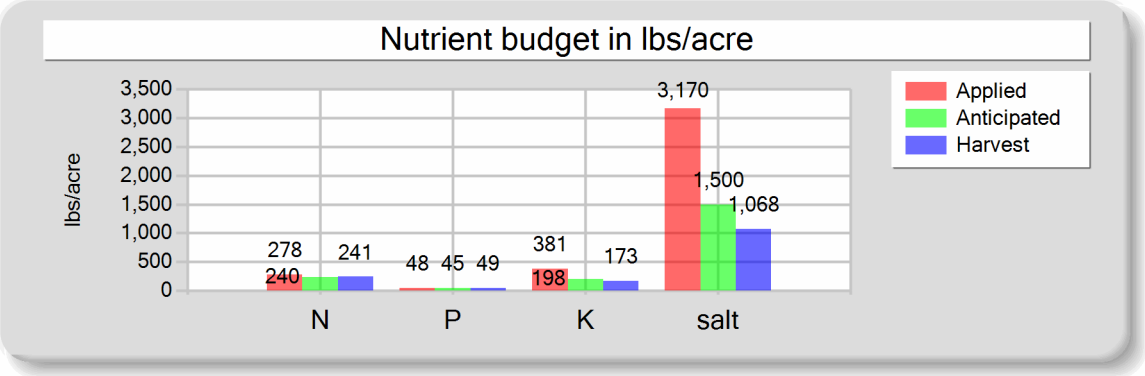
| Fresh water applied | |
|---|---|
| 23,479,737.00 | *gallons* |
| 864.68 | *acre-inches* |
| 11.38 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,999,205.00 | *gallons* |
| 257.76 | *acre-inches* |
| 3.39 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 215 - 06/29/2023: Corn, silage

Field name: 215 Crop: Corn, silage Plant date: 06/29/2023




| | 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 | 266.40 | 47.97 | 380.68 | 2,117.26 |
| Fresh water | 4.86 | 0.00 | 0.00 | 1,052.52 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 278.25 | 47.97 | 380.68 | 3,169.78 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 240.98 | 49.05 | 172.74 | 1,068.42 |
| Nutrient balance | 37.27 | -1.08 | 207.94 | 2,101.36 |
| Applied to removed ratio | 1.15 | 0.98 | 2.20 | 2.97 |

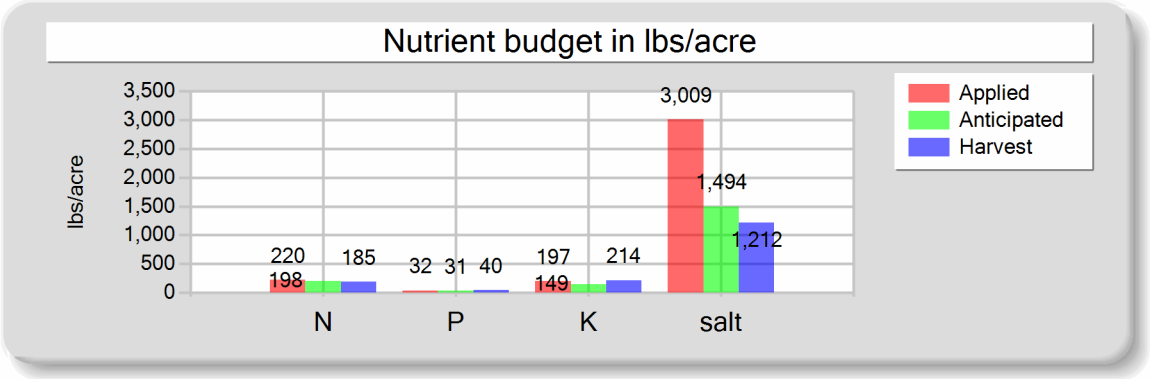
| Fresh water applied | |
|---|---|
| 73,735,018.00 | *gallons* |
| 2,715.41 | *acre-inches* |
| 35.73 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,092,933.00 | *gallons* |
| 371.69 | *acre-inches* |
| 4.89 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 216 - 11/12/2022: Wheat, silage, soft dough

Field name: 216 Crop: Wheat, silage, soft dough Plant date: 11/12/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 211.47 | 31.69 | 197.46 | 2,668.42 |
| Fresh water | 1.57 | 0.00 | 0.00 | 340.14 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 220.04 | 31.69 | 197.46 | 3,008.56 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 185.32 | 39.63 | 214.46 | 1,212.16 |
| Nutrient balance | 34.72 | -7.94 | -17.00 | 1,796.40 |
| Applied to removed ratio | 1.19 | 0.80 | 0.92 | 2.48 |

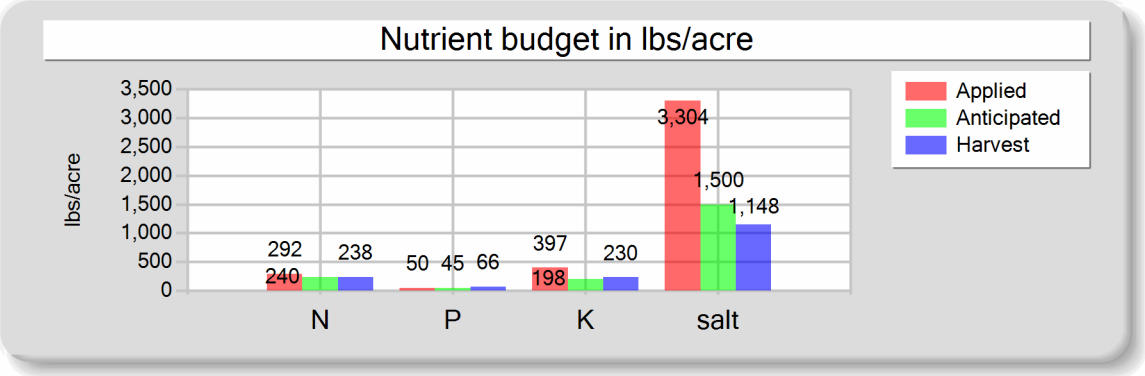
| Fresh water applied | |
|---|---|
| 23,828,782.00 | *gallons* |
| 877.53 | *acre-inches* |
| 11.55 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,075,493.00 | *gallons* |
| 223.74 | *acre-inches* |
| 2.94 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 216 - 07/15/2023: Corn, silage

Field name: 216 Crop: Corn, silage Plant date: 07/15/2023




| | 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 | 280.52 | 49.50 | 397.01 | 2,326.62 |
| Fresh water | 4.51 | 0.00 | 0.00 | 977.48 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 292.03 | 49.50 | 397.01 | 3,304.10 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 238.49 | 66.25 | 229.66 | 1,148.29 |
| Nutrient balance | 53.54 | -16.74 | 167.35 | 2,155.81 |
| Applied to removed ratio | 1.22 | 0.75 | 1.73 | 2.88 |

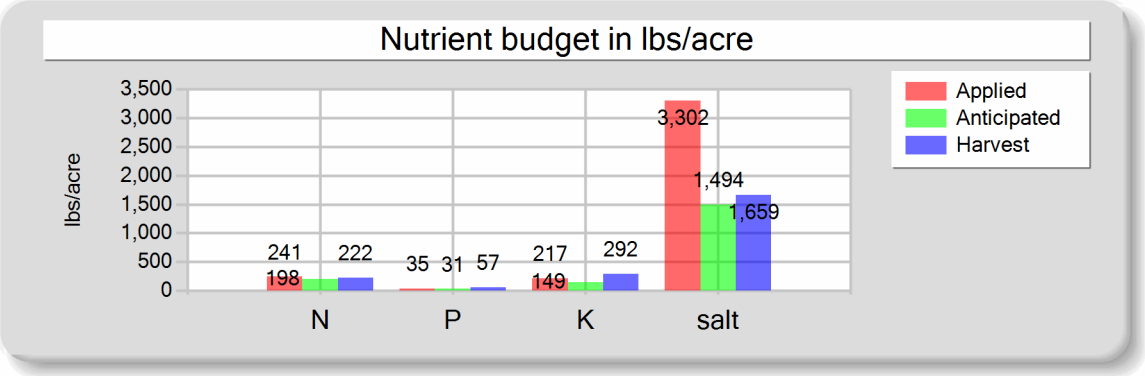
| Fresh water applied | |
|---|---|
| 68,477,855.00 | *gallons* |
| 2,521.81 | *acre-inches* |
| 33.18 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,699,303.00 | *gallons* |
| 394.02 | *acre-inches* |
| 5.18 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 219 - 11/12/2022: Wheat, silage, soft dough

Field name: 219 Crop: Wheat, silage, soft dough Plant date: 11/12/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 232.55 | 34.85 | 217.14 | 2,934.36 |
| Fresh water | 1.70 | 0.00 | 0.00 | 367.75 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 241.25 | 34.85 | 217.14 | 3,302.10 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 221.61 | 57.19 | 291.67 | 1,658.50 |
| Nutrient balance | 19.63 | -22.34 | -74.53 | 1,643.60 |
| Applied to removed ratio | 1.09 | 0.61 | 0.74 | 1.99 |

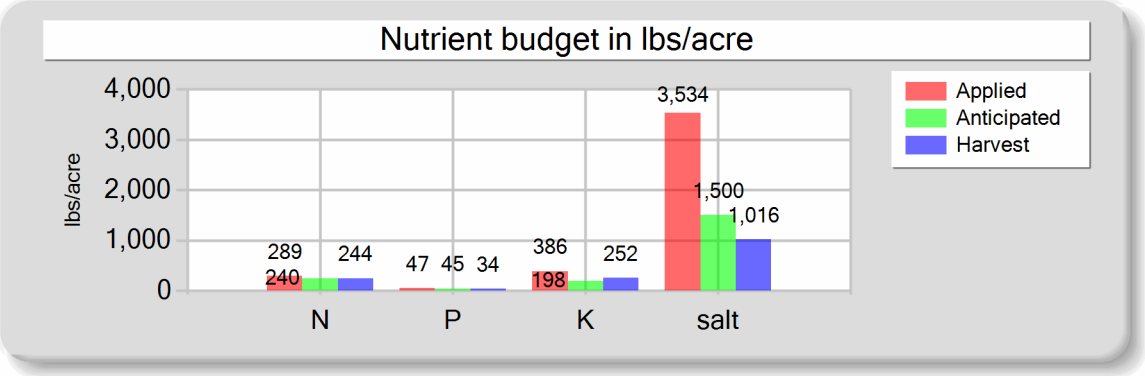
| Fresh water applied | |
|---|---|
| 26,440,727.00 | *gallons* |
| 973.72 | *acre-inches* |
| 12.48 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,856,796.00 | *gallons* |
| 252.51 | *acre-inches* |
| 3.24 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 219 - 06/25/2023: Corn, silage

Field name: 219 Crop: Corn, silage Plant date: 06/25/2023




| | 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 | 277.24 | 47.16 | 385.63 | 2,468.97 |
| Fresh water | 4.91 | 0.00 | 0.00 | 1,064.54 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 289.15 | 47.16 | 385.63 | 3,533.51 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 244.45 | 34.40 | 251.70 | 1,015.84 |
| Nutrient balance | 44.70 | 12.75 | 133.93 | 2,517.66 |
| Applied to removed ratio | 1.18 | 1.37 | 1.53 | 3.48 |

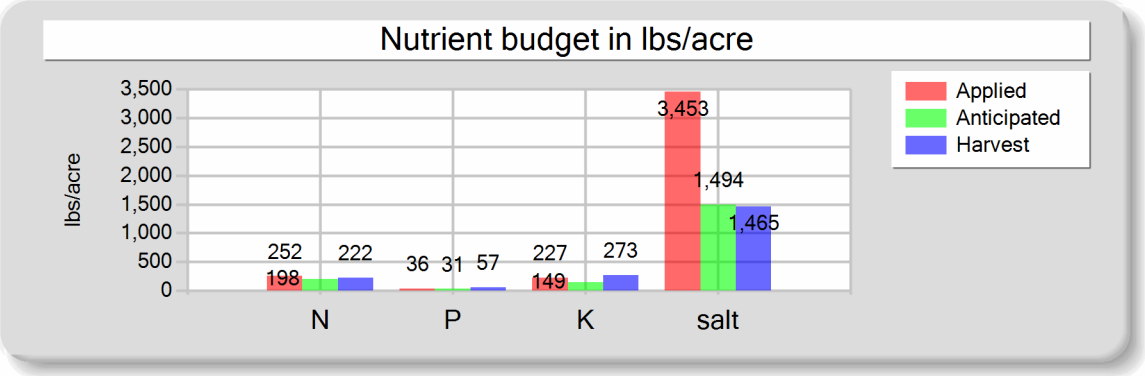
| Fresh water applied | |
|---|---|
| 76,539,741.00 | *gallons* |
| 2,818.70 | *acre-inches* |
| 36.14 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,980,080.00 | *gallons* |
| 404.36 | *acre-inches* |
| 5.18 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 220 - 11/14/2022: Wheat, silage, soft dough

Field name: 220 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 | 242.81 | 36.38 | 226.73 | 3,063.90 |
| Fresh water | 1.80 | 0.00 | 0.00 | 389.27 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 251.61 | 36.38 | 226.73 | 3,453.17 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 222.48 | 56.98 | 272.68 | 1,465.12 |
| Nutrient balance | 29.13 | -20.59 | -45.95 | 1,988.05 |
| Applied to removed ratio | 1.13 | 0.64 | 0.83 | 2.36 |

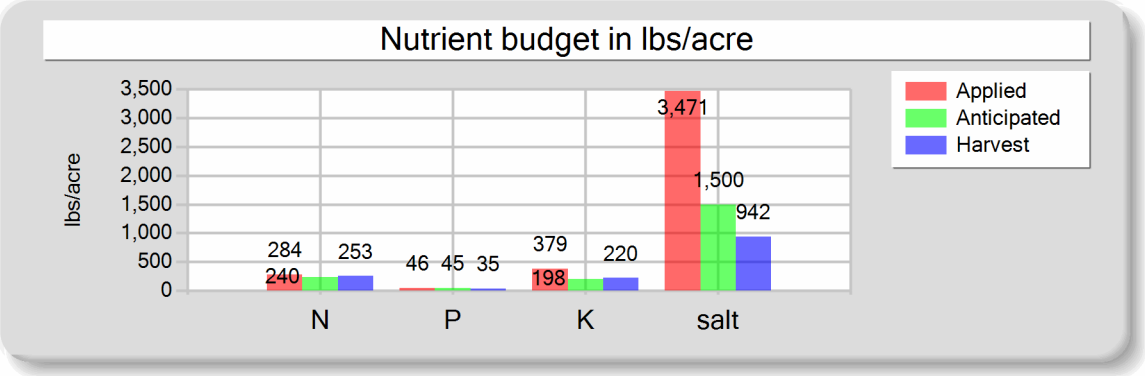
| Fresh water applied | |
|---|---|
| 27,629,733.00 | *gallons* |
| 1,017.51 | *acre-inches* |
| 13.21 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 7,067,712.00 | *gallons* |
| 260.28 | *acre-inches* |
| 3.38 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 220 - 06/25/2023: Corn, silage

Field name: 220 Crop: Corn, silage Plant date: 06/25/2023




| | 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 | 272.33 | 46.46 | 379.32 | 2,412.03 |
| Fresh water | 4.89 | 0.00 | 0.00 | 1,059.11 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 284.22 | 46.46 | 379.32 | 3,471.14 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 253.35 | 34.88 | 220.30 | 941.79 |
| Nutrient balance | 30.87 | 11.58 | 159.02 | 2,529.35 |
| Applied to removed ratio | 1.12 | 1.33 | 1.72 | 3.69 |

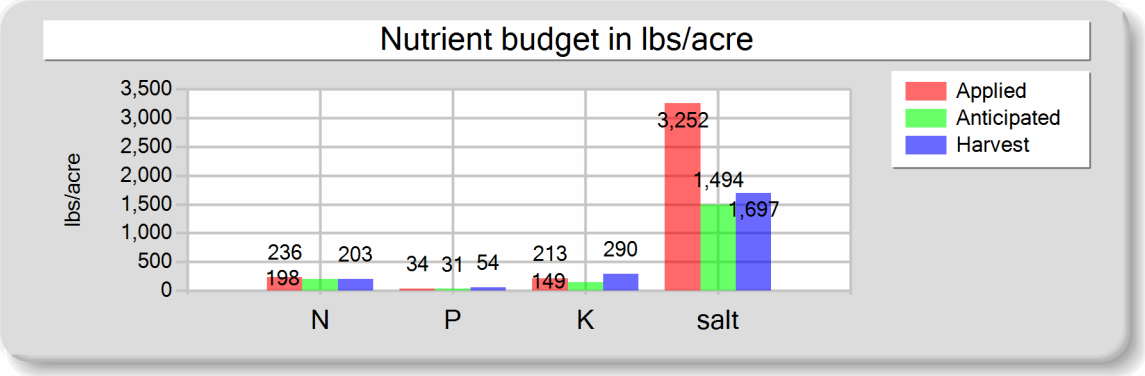
| Fresh water applied | |
|---|---|
| 75,173,031.00 | *gallons* |
| 2,768.37 | *acre-inches* |
| 35.95 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,637,528.00 | *gallons* |
| 391.74 | *acre-inches* |
| 5.09 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 225 - 11/12/2022: Wheat, silage, soft dough

Field name: 225 Crop: Wheat, silage, soft dough Plant date: 11/12/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 227.72 | 34.12 | 212.64 | 2,873.48 |
| Fresh water | 1.75 | 0.00 | 0.00 | 378.66 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 236.47 | 34.12 | 212.64 | 3,252.15 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 202.51 | 54.19 | 289.51 | 1,697.10 |
| Nutrient balance | 33.96 | -20.07 | -76.87 | 1,555.04 |
| Applied to removed ratio | 1.17 | 0.63 | 0.73 | 1.92 |

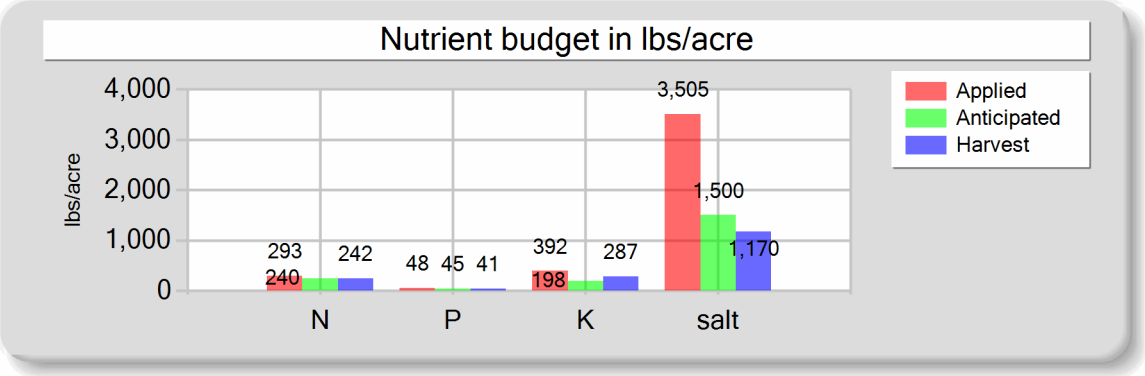
| Fresh water applied | |
|---|---|
| 25,480,363.00 | *gallons* |
| 938.36 | *acre-inches* |
| 12.85 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,284,131.00 | *gallons* |
| 231.42 | *acre-inches* |
| 3.17 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 225 - 07/01/2023: Corn, silage

Field name: 225 Crop: Corn, silage Plant date: 07/01/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 281.24 | 48.03 | 391.94 | 2,485.66 |
| Fresh water | 4.71 | 0.00 | 0.00 | 1,019.47 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 292.94 | 48.03 | 391.94 | 3,505.12 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 241.62 | 41.47 | 286.70 | 1,170.25 |
| Nutrient balance | 51.32 | 6.56 | 105.24 | 2,334.87 |
| Applied to removed ratio | 1.21 | 1.16 | 1.37 | 3.00 |

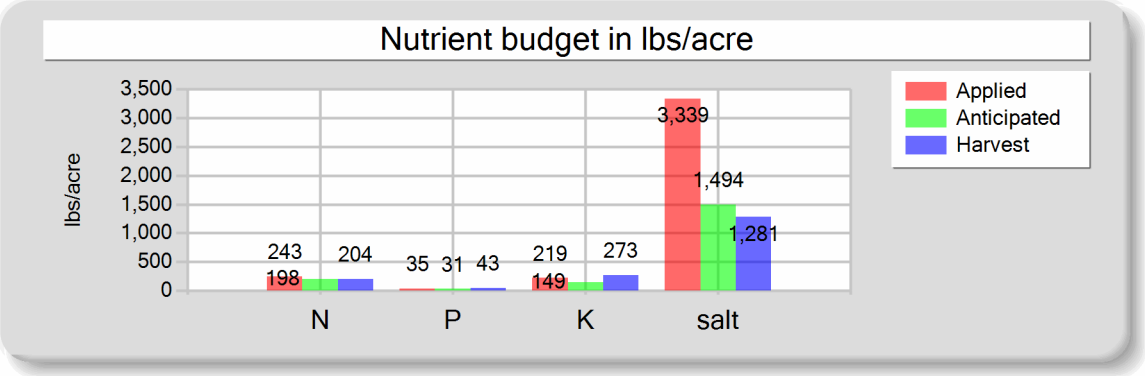
| Fresh water applied | |
|---|---|
| 68,600,275.00 | *gallons* |
| 2,526.31 | *acre-inches* |
| 34.61 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,411,086.00 | *gallons* |
| 383.40 | *acre-inches* |
| 5.25 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 226 - 11/20/2022: Wheat, silage, soft dough

Field name: 226 Crop: Wheat, silage, soft dough Plant date: 11/20/2022




| | 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 | 234.62 | 35.16 | 219.07 | 2,960.47 |
| Fresh water | 1.75 | 0.00 | 0.00 | 378.13 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 243.36 | 35.16 | 219.07 | 3,338.60 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 204.45 | 43.48 | 272.60 | 1,280.76 |
| Nutrient balance | 38.91 | -8.32 | -53.53 | 2,057.84 |
| Applied to removed ratio | 1.19 | 0.81 | 0.80 | 2.61 |

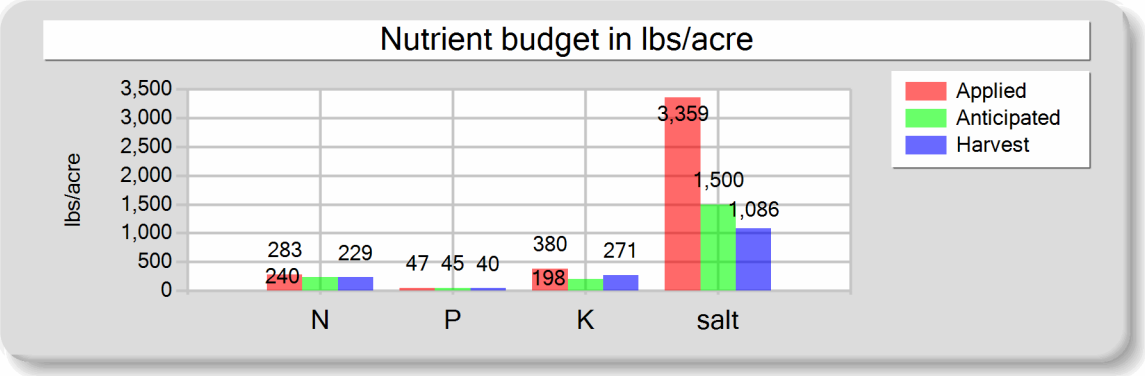
| Fresh water applied | |
|---|---|
| 26,141,664.00 | *gallons* |
| 962.71 | *acre-inches* |
| 12.84 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,651,736.00 | *gallons* |
| 244.96 | *acre-inches* |
| 3.27 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 226 - 06/29/2023: Corn, silage

Field name: 226 Crop: Corn, silage Plant date: 06/29/2023




| | 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 | 271.26 | 46.92 | 380.30 | 2,340.36 |
| Fresh water | 4.70 | 0.00 | 0.00 | 1,018.73 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 282.96 | 46.92 | 380.30 | 3,359.09 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 229.50 | 39.76 | 271.06 | 1,086.05 |
| Nutrient balance | 53.46 | 7.17 | 109.24 | 2,273.04 |
| Applied to removed ratio | 1.23 | 1.18 | 1.40 | 3.09 |

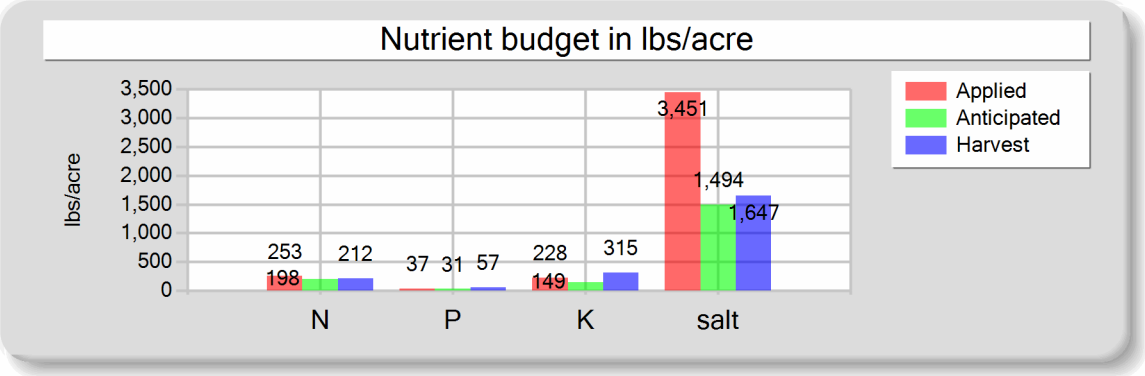
| Fresh water applied | |
|---|---|
| 70,428,799.00 | *gallons* |
| 2,593.65 | *acre-inches* |
| 34.58 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,275,453.00 | *gallons* |
| 378.41 | *acre-inches* |
| 5.05 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

229 - 11/15/2022: Wheat, silage, soft dough

Field name: 229 Crop: Wheat, silage, soft dough Plant date: 11/15/2022




| | 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 | 244.11 | 36.58 | 227.94 | 3,080.20 |
| Fresh water | 1.71 | 0.00 | 0.00 | 370.94 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 252.82 | 36.58 | 227.94 | 3,451.15 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 212.15 | 56.66 | 314.94 | 1,647.16 |
| Nutrient balance | 40.66 | -20.09 | -87.00 | 1,803.98 |
| Applied to removed ratio | 1.19 | 0.65 | 0.72 | 2.10 |

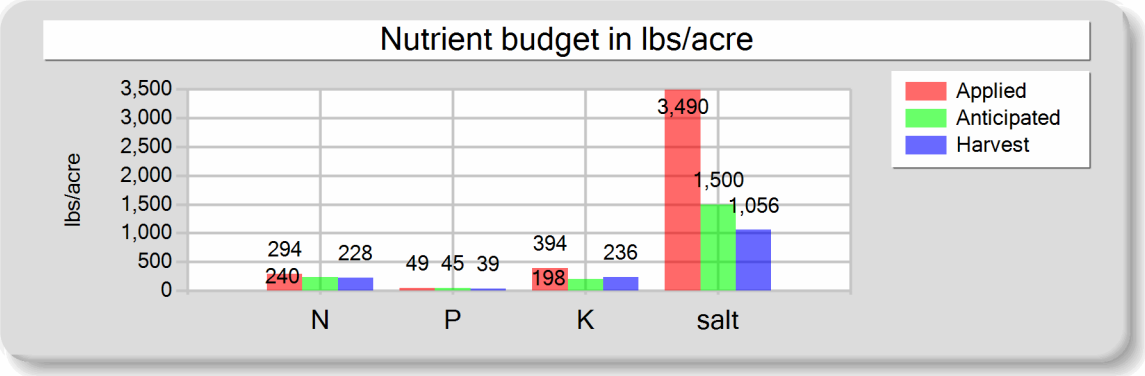
| Fresh water applied | |
|---|---|
| 25,986,564.00 | *gallons* |
| 957.00 | *acre-inches* |
| 12.59 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 7,013,047.00 | *gallons* |
| 258.27 | *acre-inches* |
| 3.40 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

229 - 06/27/2023: Corn, silage

Field name: 229 Crop: Corn, silage Plant date: 06/27/2023




| | 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 | 282.08 | 48.52 | 394.44 | 2,459.87 |
| Fresh water | 4.75 | 0.00 | 0.00 | 1,030.24 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 293.84 | 48.52 | 394.44 | 3,490.11 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 227.78 | 38.61 | 235.50 | 1,055.91 |
| Nutrient balance | 66.05 | 9.92 | 158.93 | 2,434.20 |
| Applied to removed ratio | 1.29 | 1.26 | 1.67 | 3.31 |

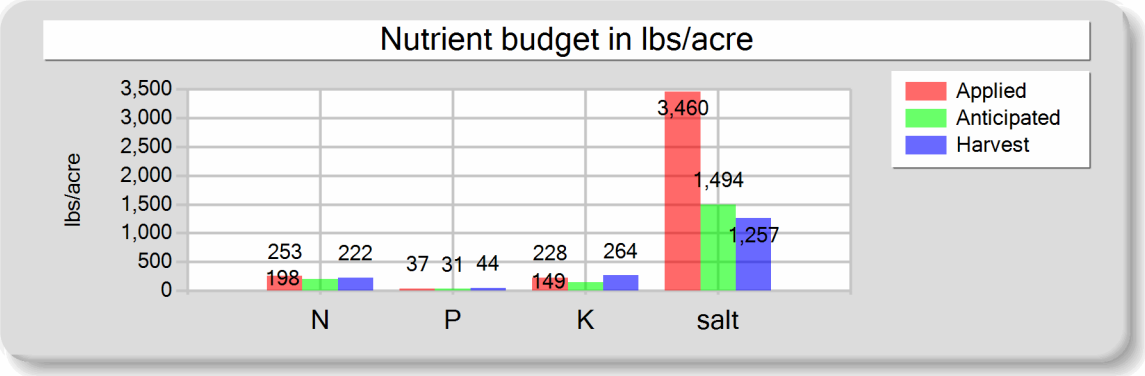
| Fresh water applied | |
|---|---|
| 72,173,934.00 | *gallons* |
| 2,657.92 | *acre-inches* |
| 34.97 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,847,135.00 | *gallons* |
| 399.46 | *acre-inches* |
| 5.26 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 230 - 11/15/2022: Wheat, silage, soft dough

Field name: 230 Crop: Wheat, silage, soft dough Plant date: 11/15/2022




| | 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 | 243.86 | 36.54 | 227.70 | 3,077.09 |
| Fresh water | 1.77 | 0.00 | 0.00 | 383.39 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 252.63 | 36.54 | 227.70 | 3,460.48 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 221.70 | 43.87 | 264.38 | 1,256.69 |
| Nutrient balance | 30.93 | -7.33 | -36.67 | 2,203.79 |
| Applied to removed ratio | 1.14 | 0.83 | 0.86 | 2.75 |

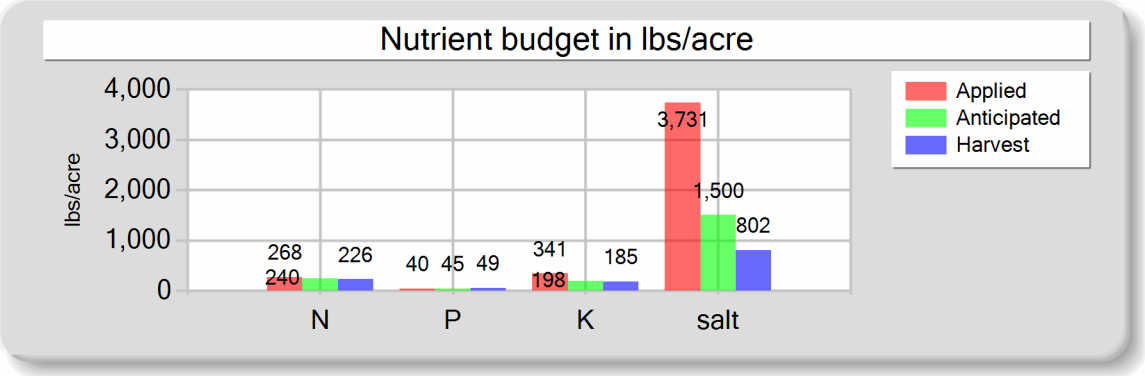
| Fresh water applied | |
|---|---|
| 26,858,563.00 | *gallons* |
| 989.11 | *acre-inches* |
| 13.01 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 7,005,962.00 | *gallons* |
| 258.01 | *acre-inches* |
| 3.39 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 230 - 07/12/2023: Corn, silage

Field name: 230 Crop: Corn, silage Plant date: 07/12/2023




| | 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 | 255.98 | 39.53 | 340.78 | 2,664.14 |
| Fresh water | 4.93 | 0.00 | 0.00 | 1,067.17 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 267.91 | 39.53 | 340.78 | 3,731.30 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 226.36 | 48.78 | 185.38 | 802.00 |
| Nutrient balance | 41.55 | -9.25 | 155.40 | 2,929.30 |
| Applied to removed ratio | 1.18 | 0.81 | 1.84 | 4.65 |

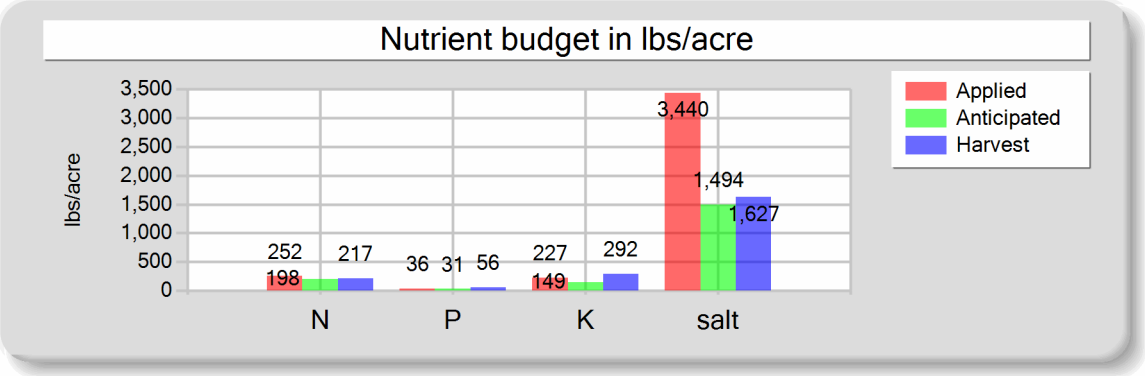
| Fresh water applied | |
|---|---|
| 74,761,223.00 | *gallons* |
| 2,753.20 | *acre-inches* |
| 36.23 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,160,235.00 | *gallons* |
| 374.17 | *acre-inches* |
| 4.92 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 231 - 11/16/2022: Wheat, silage, soft dough

Field name: 231 Crop: Wheat, silage, soft dough Plant date: 11/16/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 243.40 | 36.47 | 227.28 | 3,071.33 |
| Fresh water | 1.70 | 0.00 | 0.00 | 368.19 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 252.10 | 36.47 | 227.28 | 3,439.52 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 217.33 | 56.00 | 291.99 | 1,626.61 |
| Nutrient balance | 34.78 | -19.53 | -64.71 | 1,812.91 |
| Applied to removed ratio | 1.16 | 0.65 | 0.78 | 2.11 |

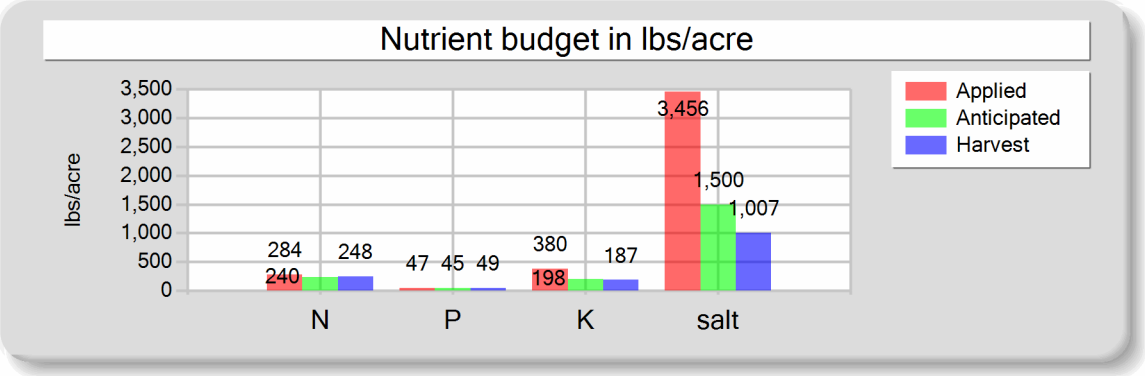
| Fresh water applied | |
|---|---|
| 25,454,705.00 | *gallons* |
| 937.41 | *acre-inches* |
| 12.50 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,900,827.00 | *gallons* |
| 254.13 | *acre-inches* |
| 3.39 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## 231 - 06/24/2023: Corn, silage

Field name: 231 Crop: Corn, silage Plant date: 06/24/2023




| | 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 | 272.27 | 46.58 | 379.73 | 2,398.99 |
| Fresh water | 4.88 | 0.00 | 0.00 | 1,056.95 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 284.14 | 46.58 | 379.73 | 3,455.93 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 248.12 | 48.50 | 186.55 | 1,007.39 |
| Nutrient balance | 36.03 | -1.93 | 193.18 | 2,448.54 |
| Applied to removed ratio | 1.15 | 0.96 | 2.04 | 3.43 |

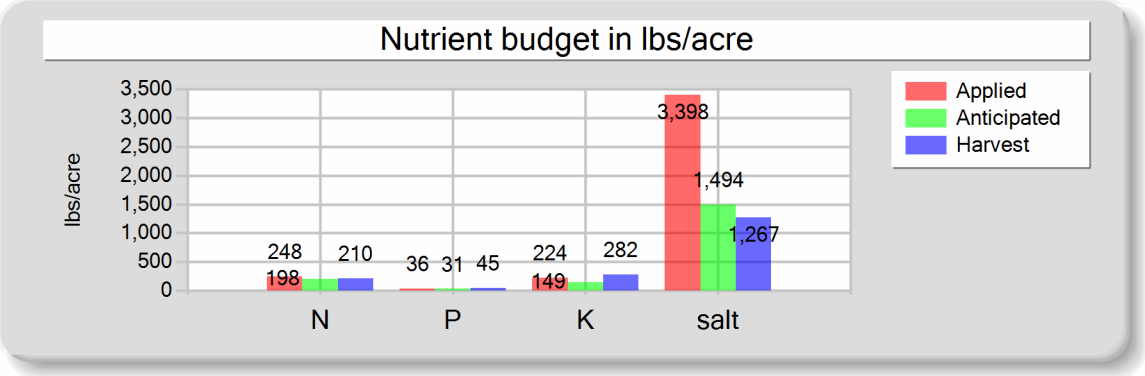
| Fresh water applied | |
|---|---|
| 73,070,864.00 | *gallons* |
| 2,690.95 | *acre-inches* |
| 35.88 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,349,774.00 | *gallons* |
| 381.15 | *acre-inches* |
| 5.08 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

232 - 11/16/2022: Wheat, silage, soft dough

Field name: 232 Crop: Wheat, silage, soft dough Plant date: 11/16/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 239.66 | 35.91 | 223.78 | 3,024.11 |
| Fresh water | 1.73 | 0.00 | 0.00 | 374.32 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 248.39 | 35.91 | 223.78 | 3,398.43 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 210.00 | 44.65 | 282.41 | 1,267.24 |
| Nutrient balance | 38.39 | -8.74 | -58.63 | 2,131.19 |
| Applied to removed ratio | 1.18 | 0.80 | 0.79 | 2.68 |

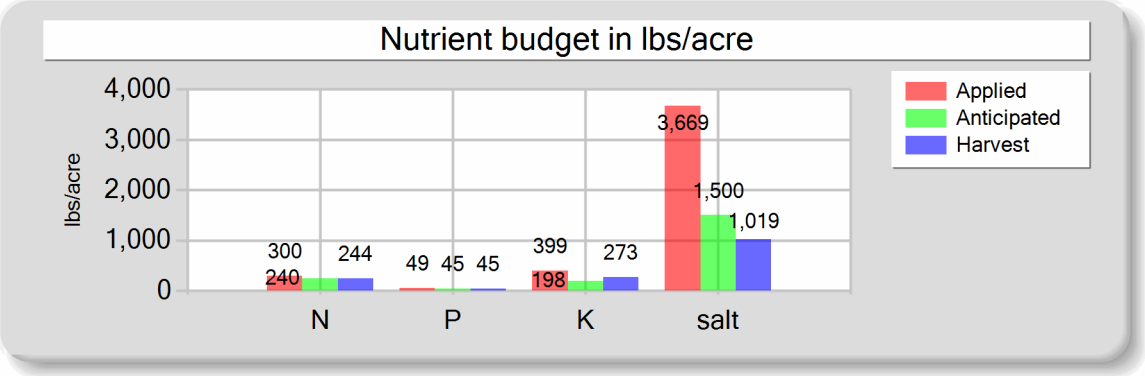
| Fresh water applied | |
|---|---|
| 25,878,223.00 | *gallons* |
| 953.01 | *acre-inches* |
| 12.71 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,794,735.00 | *gallons* |
| 250.23 | *acre-inches* |
| 3.34 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

232 - 07/12/2023: Corn, silage

Field name: 232 Crop: Corn, silage Plant date: 07/12/2023




| | 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 | 287.85 | 48.73 | 399.50 | 2,585.76 |
| Fresh water | 5.00 | 0.00 | 0.00 | 1,082.77 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 299.85 | 48.73 | 399.50 | 3,668.54 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 244.08 | 44.87 | 272.79 | 1,019.37 |
| Nutrient balance | 55.77 | 3.86 | 126.71 | 2,649.16 |
| Applied to removed ratio | 1.23 | 1.09 | 1.46 | 3.60 |

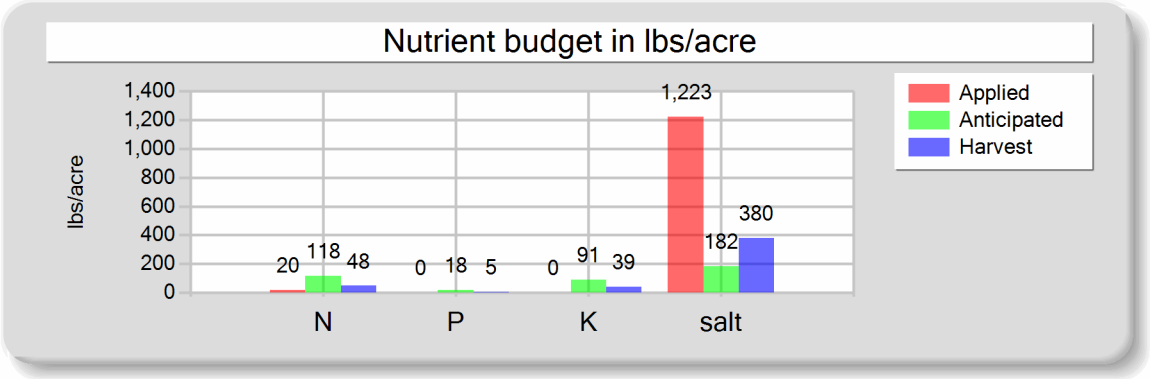
| Fresh water applied | |
|---|---|
| 74,856,462.00 | *gallons* |
| 2,756.71 | *acre-inches* |
| 36.76 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,977,935.00 | *gallons* |
| 404.28 | *acre-inches* |
| 5.39 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## MD-1 - 11/01/2017: Almond, in shell

Field name: MD-1 Crop: Almond, in shell Plant date: 11/01/2017




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 5.64 | 0.00 | 0.00 | 1,222.83 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 19.64 | 0.00 | 0.00 | 1,222.83 |
| Anticipated crop nutrient removal | 118.30 | 18.20 | 91.00 | 182.00 |
| Actual crop nutrient removal | 48.01 | 4.54 | 39.41 | 379.80 |
| Nutrient balance | -28.37 | -4.54 | -39.41 | 843.03 |
| Applied to removed ratio | 0.41 | 0.00 | 0.00 | 3.22 |

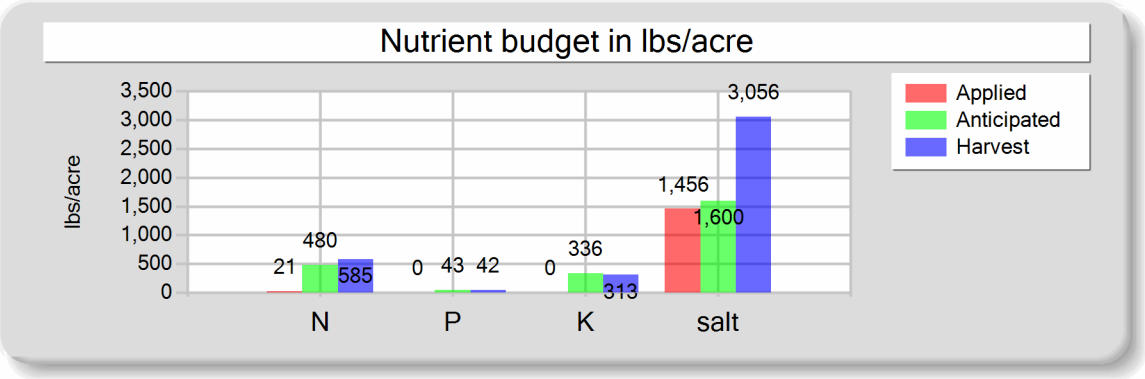
| Fresh water applied | |
|---|---|
| 90,175,049.00 | *gallons* |
| 3,320.84 | *acre-inches* |
| 41.51 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## MD-10 - 11/10/2017: Alfalfa, hay

Field name: MD-10 Crop: Alfalfa, hay Plant date: 11/10/2017




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 6.72 | 0.00 | 0.00 | 1,456.44 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 20.72 | 0.00 | 0.00 | 1,456.44 |
| Anticipated crop nutrient removal | 480.00 | 43.20 | 336.00 | 1,600.00 |
| Actual crop nutrient removal | 584.92 | 42.20 | 312.83 | 3,055.54 |
| Nutrient balance | -564.20 | -42.20 | -312.83 | -1,599.10 |
| Applied to removed ratio | 0.04 | 0.00 | 0.00 | 0.48 |

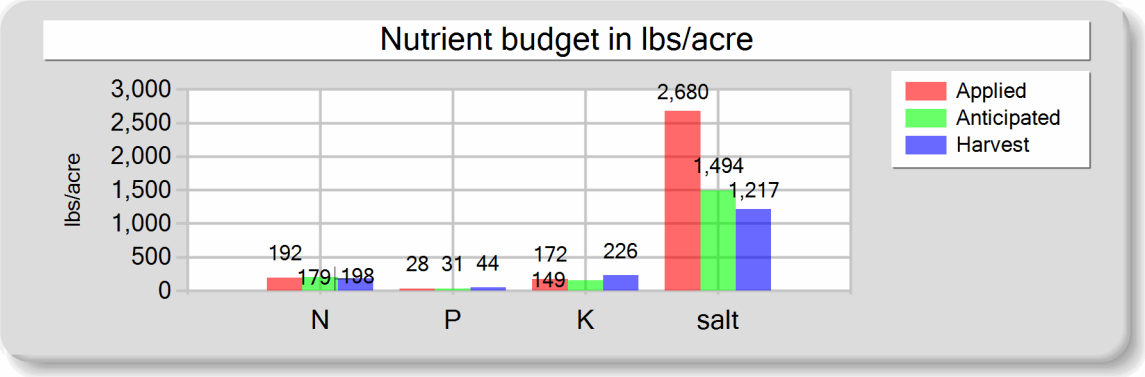
| Fresh water applied | |
|---|---|
| 126,197,119.00 | *gallons* |
| 4,647.41 | *acre-inches* |
| 49.44 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

MD-11 - 11/17/2022: Wheat, silage, soft dough

Field name: MD-11 Crop: Wheat, silage, soft dough Plant date: 11/17/2022




| | 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 | 183.76 | 27.53 | 171.59 | 2,318.73 |
| Fresh water | 1.67 | 0.00 | 0.00 | 361.14 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 192.43 | 27.53 | 171.59 | 2,679.86 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 179.17 | 44.24 | 225.62 | 1,216.59 |
| Nutrient balance | 13.26 | -16.70 | -54.04 | 1,463.28 |
| Applied to removed ratio | 1.07 | 0.62 | 0.76 | 2.20 |

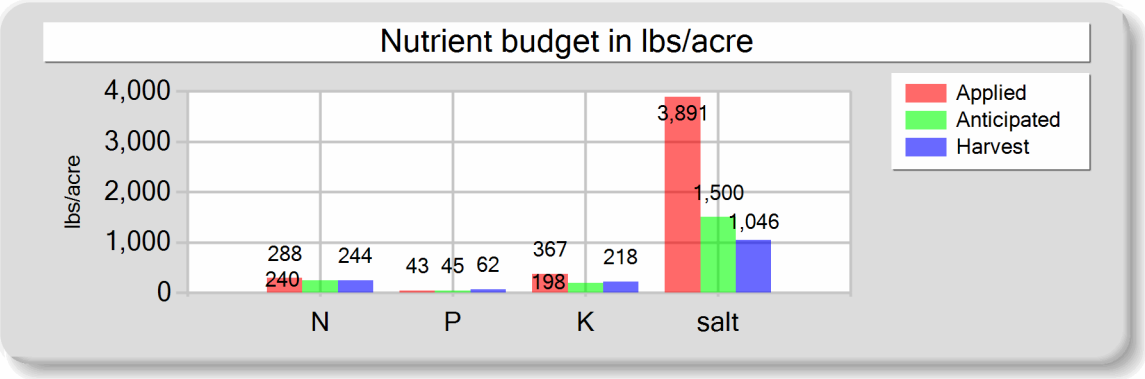
| Fresh water applied | |
|---|---|
| 29,294,337.00 | *gallons* |
| 1,078.81 | *acre-inches* |
| 12.26 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,112,881.00 | *gallons* |
| 225.12 | *acre-inches* |
| 2.56 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

MD-11 - 07/10/2023: Corn, silage

Field name: MD-11 Crop: Corn, silage Plant date: 07/10/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 276.15 | 42.57 | 367.33 | 2,881.49 |
| Fresh water | 4.66 | 0.00 | 0.00 | 1,009.94 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 287.81 | 42.57 | 367.33 | 3,891.43 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 244.37 | 62.20 | 217.71 | 1,046.35 |
| Nutrient balance | 43.44 | -19.63 | 149.62 | 2,845.08 |
| Applied to removed ratio | 1.18 | 0.68 | 1.69 | 3.72 |

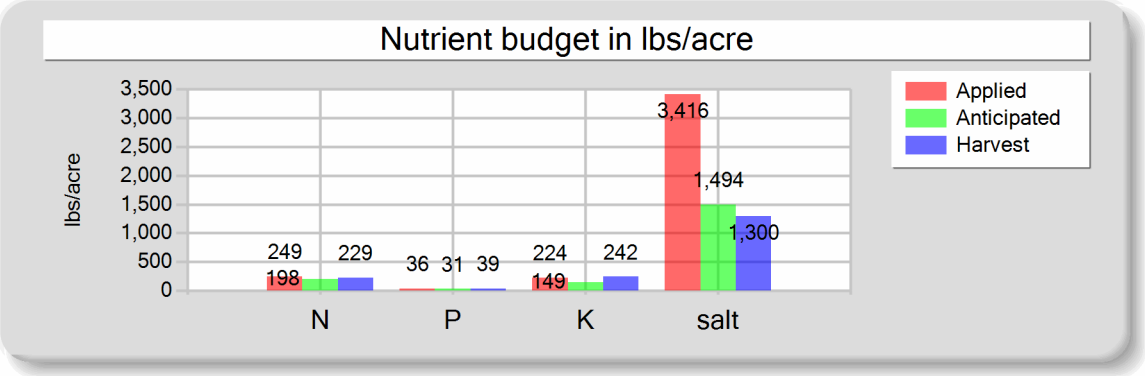
| Fresh water applied | |
|---|---|
| 81,923,215.00 | *gallons* |
| 3,016.95 | *acre-inches* |
| 34.28 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 12,697,669.00 | *gallons* |
| 467.61 | *acre-inches* |
| 5.31 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## MD-12 - 11/18/2022: Wheat, silage, soft dough

Field name: MD-12 Crop: Wheat, silage, soft dough Plant date: 11/18/2022




| | 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 | 240.32 | 36.01 | 224.40 | 3,032.44 |
| Fresh water | 1.77 | 0.00 | 0.00 | 383.50 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 249.09 | 36.01 | 224.40 | 3,415.94 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 228.73 | 39.38 | 242.37 | 1,299.69 |
| Nutrient balance | 20.36 | -3.37 | -17.97 | 2,116.24 |
| Applied to removed ratio | 1.09 | 0.91 | 0.93 | 2.63 |

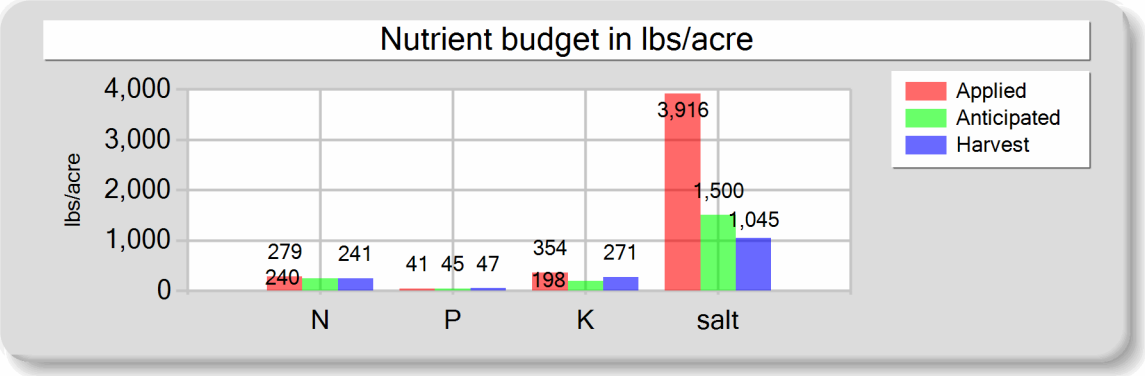
| Fresh water applied | |
|---|---|
| 25,805,597.00 | *gallons* |
| 950.33 | *acre-inches* |
| 13.02 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,631,764.00 | *gallons* |
| 244.23 | *acre-inches* |
| 3.35 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

MD-12 - 07/11/2023: Corn, silage

Field name: MD-12 Crop: Corn, silage Plant date: 07/11/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 267.06 | 40.97 | 354.48 | 2,805.62 |
| Fresh water | 5.12 | 0.00 | 0.00 | 1,110.04 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 279.18 | 40.97 | 354.48 | 3,915.66 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 240.56 | 47.03 | 271.31 | 1,045.45 |
| Nutrient balance | 38.62 | -6.06 | 83.17 | 2,870.20 |
| Applied to removed ratio | 1.16 | 0.87 | 1.31 | 3.75 |

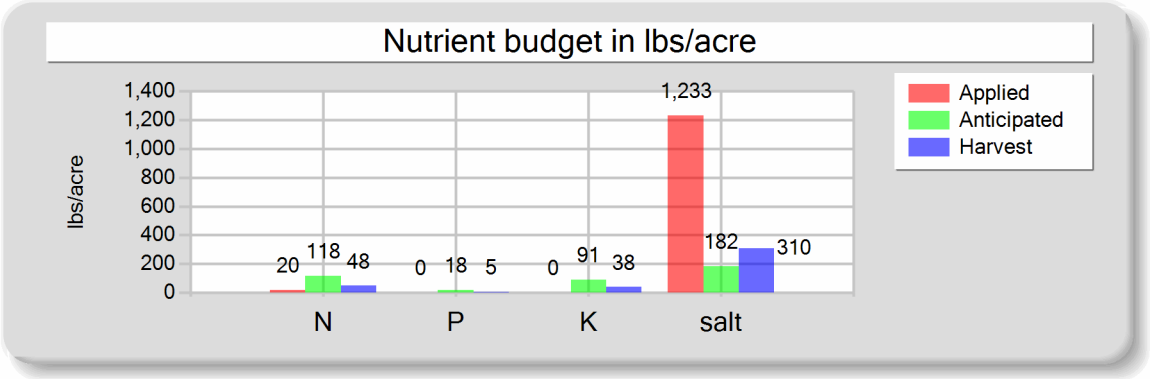
| Fresh water applied | |
|---|---|
| 74,694,731.00 | *gallons* |
| 2,750.75 | *acre-inches* |
| 37.68 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 10,199,886.00 | *gallons* |
| 375.63 | *acre-inches* |
| 5.15 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## MD-2 - 11/01/2017: Almond, in shell

Field name: MD-2 Crop: Almond, in shell Plant date: 11/01/2017




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 5.69 | 0.00 | 0.00 | 1,232.92 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 19.69 | 0.00 | 0.00 | 1,232.92 |
| Anticipated crop nutrient removal | 118.30 | 18.20 | 91.00 | 182.00 |
| Actual crop nutrient removal | 47.51 | 5.04 | 38.39 | 309.54 |
| Nutrient balance | -27.82 | -5.04 | -38.39 | 923.38 |
| Applied to removed ratio | 0.41 | 0.00 | 0.00 | 3.98 |

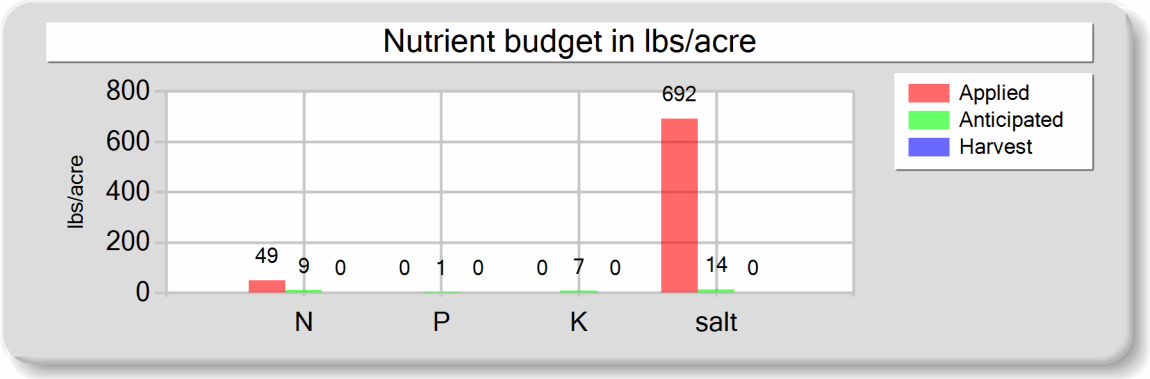
| Fresh water applied | |
|---|---|
| 90,919,408.00 | *gallons* |
| 3,348.25 | *acre-inches* |
| 41.85 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## MD-3 - 04/01/2022: Almond, in shell

Field name: MD-3 Crop: Almond, in shell Plant date: 04/01/2022




| | 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 | 32.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 3.19 | 0.00 | 0.00 | 691.59 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 49.19 | 0.00 | 0.00 | 691.59 |
| Anticipated crop nutrient removal | 9.10 | 1.40 | 7.00 | 14.00 |
| Actual crop nutrient removal | 0.00 | 0.00 | 0.00 | 0.00 |
| Nutrient balance | 49.19 | 0.00 | 0.00 | 691.59 |
| Applied to removed ratio | 0.00 | 0.00 | 0.00 | 0.00 |

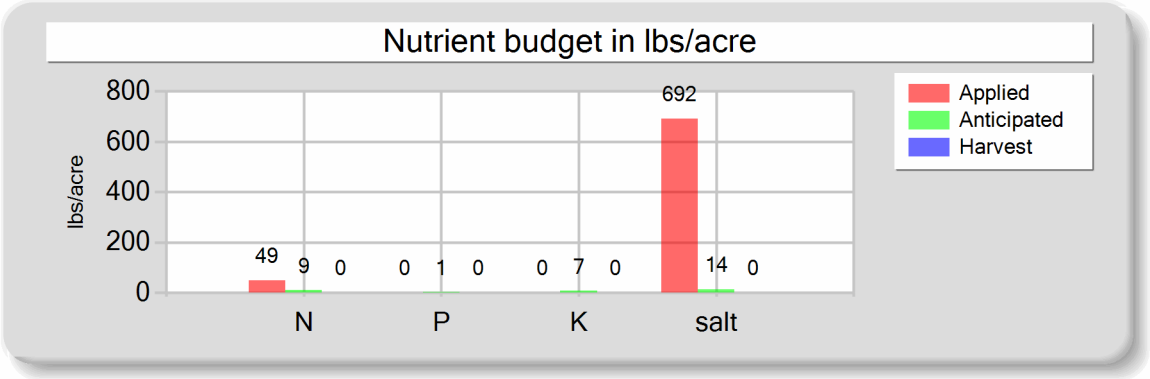
| Fresh water applied | |
|---|---|
| 51,000,000.00 | *gallons* |
| 1,878.16 | *acre-inches* |
| 23.48 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## MD-4 - 04/01/2022: Almond, in shell

Field name: MD-4 Crop: Almond, in shell Plant date: 04/01/2022




| | 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 | 32.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 3.19 | 0.00 | 0.00 | 691.59 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 49.19 | 0.00 | 0.00 | 691.59 |
| Anticipated crop nutrient removal | 9.10 | 1.40 | 7.00 | 14.00 |
| Actual crop nutrient removal | 0.00 | 0.00 | 0.00 | 0.00 |
| Nutrient balance | 49.19 | 0.00 | 0.00 | 691.59 |
| Applied to removed ratio | 0.00 | 0.00 | 0.00 | 0.00 |

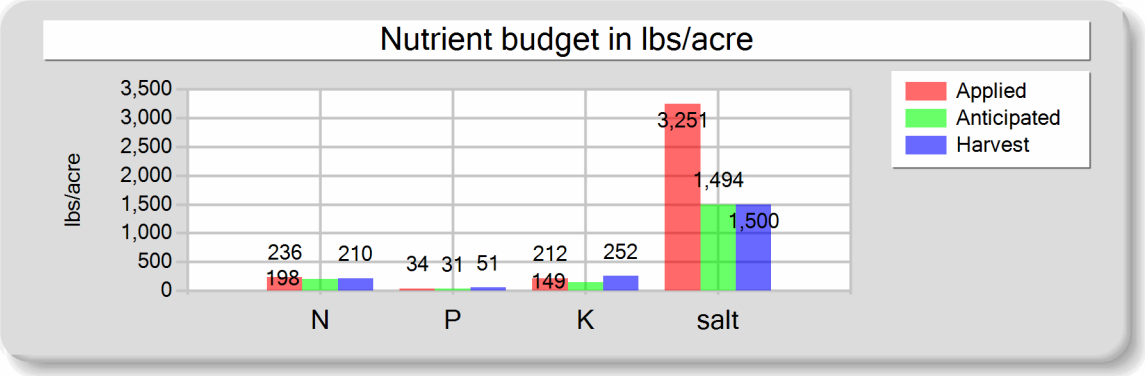
| Fresh water applied | |
|---|---|
| 51,000,000.00 | *gallons* |
| 1,878.16 | *acre-inches* |
| 23.48 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

MD-5 - 11/16/2022: Wheat, silage, soft dough

Field name: MD-5 Crop: Wheat, silage, soft dough Plant date: 11/16/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 226.94 | 34.01 | 211.91 | 2,863.63 |
| Fresh water | 1.79 | 0.00 | 0.00 | 387.70 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 235.73 | 34.01 | 211.91 | 3,251.32 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 210.28 | 50.90 | 251.80 | 1,500.08 |
| Nutrient balance | 25.45 | -16.89 | -39.89 | 1,751.25 |
| Applied to removed ratio | 1.12 | 0.67 | 0.84 | 2.17 |

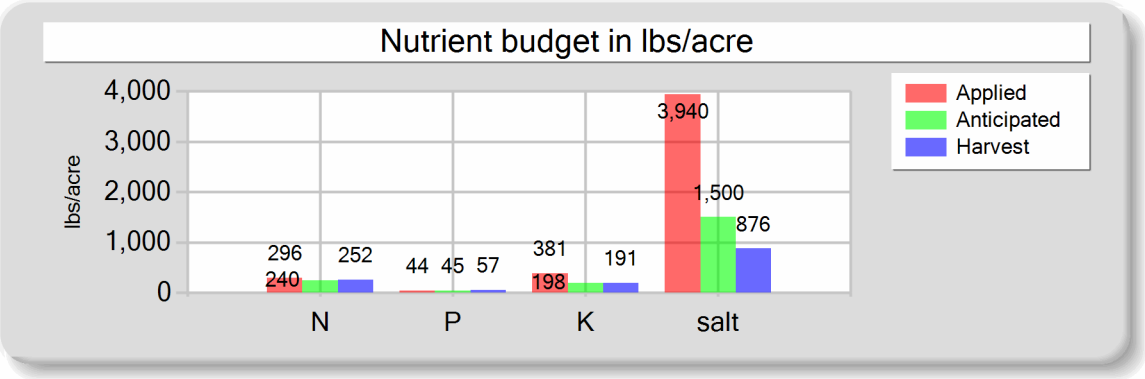
| Fresh water applied | |
|---|---|
| 27,875,052.00 | *gallons* |
| 1,026.54 | *acre-inches* |
| 13.16 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,691,518.00 | *gallons* |
| 246.43 | *acre-inches* |
| 3.16 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

MD-5 - 07/03/2023: Corn, silage

Field name: MD-5 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 | 284.37 | 44.45 | 380.60 | 2,908.55 |
| Fresh water | 4.76 | 0.00 | 0.00 | 1,031.41 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 296.13 | 44.45 | 380.60 | 3,939.96 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 252.17 | 56.74 | 191.23 | 876.28 |
| Nutrient balance | 43.96 | -12.29 | 189.38 | 3,063.68 |
| Applied to removed ratio | 1.17 | 0.78 | 1.99 | 4.50 |

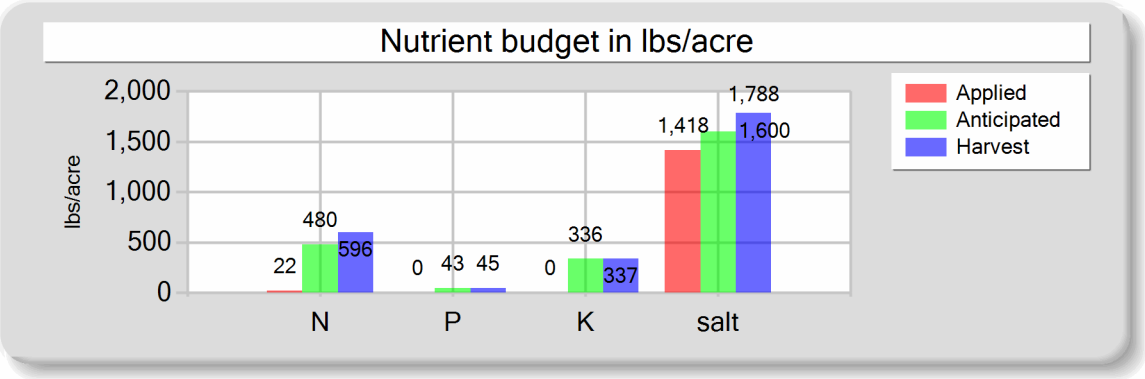
| Fresh water applied | |
|---|---|
| 74,157,578.00 | *gallons* |
| 2,730.97 | *acre-inches* |
| 35.01 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 11,545,645.00 | *gallons* |
| 425.19 | *acre-inches* |
| 5.45 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## MD-6 - 11/09/2017: Alfalfa, hay

Field name: MD-6 Crop: Alfalfa, hay Plant date: 11/09/2017




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 8.48 | 0.00 | 0.00 | 1,417.55 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 22.48 | 0.00 | 0.00 | 1,417.55 |
| Anticipated crop nutrient removal | 480.00 | 43.20 | 336.00 | 1,600.00 |
| Actual crop nutrient removal | 596.42 | 45.07 | 336.52 | 1,787.75 |
| Nutrient balance | -573.94 | -45.07 | -336.52 | -370.19 |
| Applied to removed ratio | 0.04 | 0.00 | 0.00 | 0.79 |

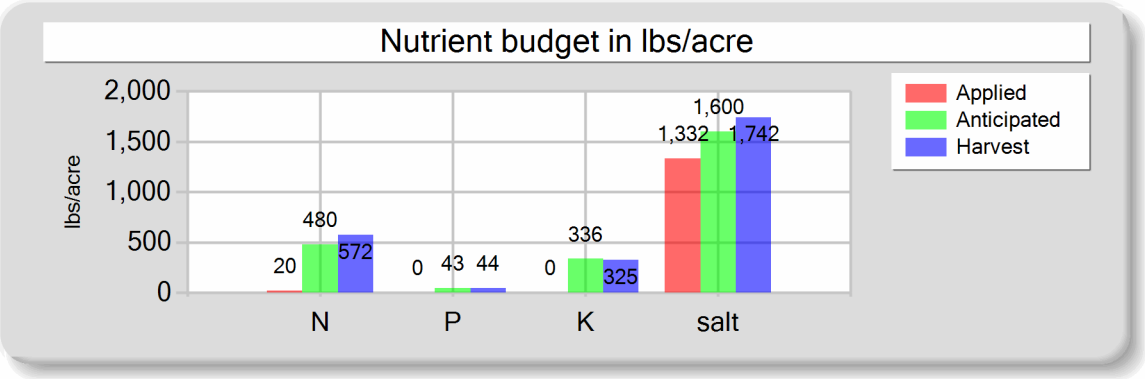
| Fresh water applied | |
|---|---|
| 95,734,309.00 | *gallons* |
| 3,525.57 | *acre-inches* |
| 45.20 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## MD-7 - 10/31/2016: Alfalfa, hay

Field name: MD-7 Crop: Alfalfa, hay Plant date: 10/31/2016




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 6.15 | 0.00 | 0.00 | 1,332.16 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 20.15 | 0.00 | 0.00 | 1,332.16 |
| Anticipated crop nutrient removal | 480.00 | 43.20 | 336.00 | 1,600.00 |
| Actual crop nutrient removal | 572.33 | 43.91 | 324.95 | 1,741.87 |
| Nutrient balance | -552.18 | -43.91 | -324.95 | -409.71 |
| Applied to removed ratio | 0.04 | 0.00 | 0.00 | 0.76 |

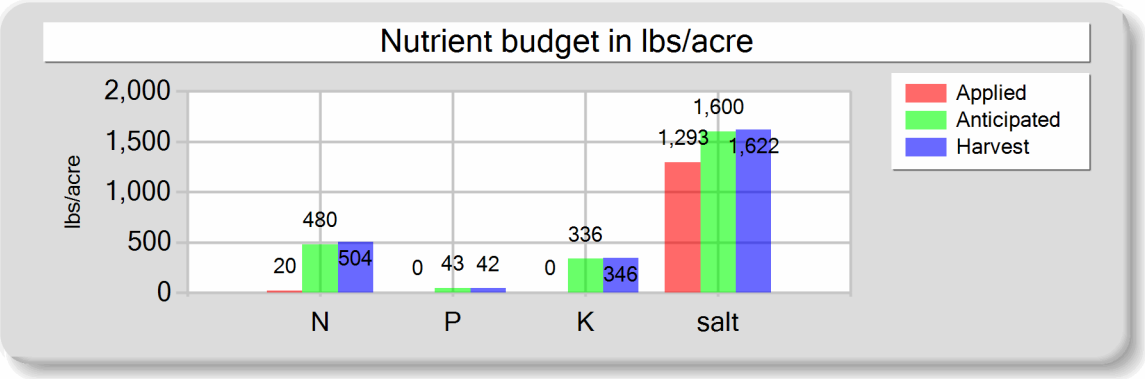
| Fresh water applied | |
|---|---|
| 95,781,271.00 | *gallons* |
| 3,527.30 | *acre-inches* |
| 45.22 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## MD-8 - 11/01/2020: Alfalfa, hay

Field name: MD-8 Crop: Alfalfa, hay Plant date: 11/01/2020




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 5.97 | 0.00 | 0.00 | 1,292.93 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 19.97 | 0.00 | 0.00 | 1,292.93 |
| Anticipated crop nutrient removal | 480.00 | 43.20 | 336.00 | 1,600.00 |
| Actual crop nutrient removal | 504.22 | 42.38 | 346.38 | 1,622.27 |
| Nutrient balance | -484.25 | -42.38 | -346.38 | -329.34 |
| Applied to removed ratio | 0.04 | 0.00 | 0.00 | 0.80 |

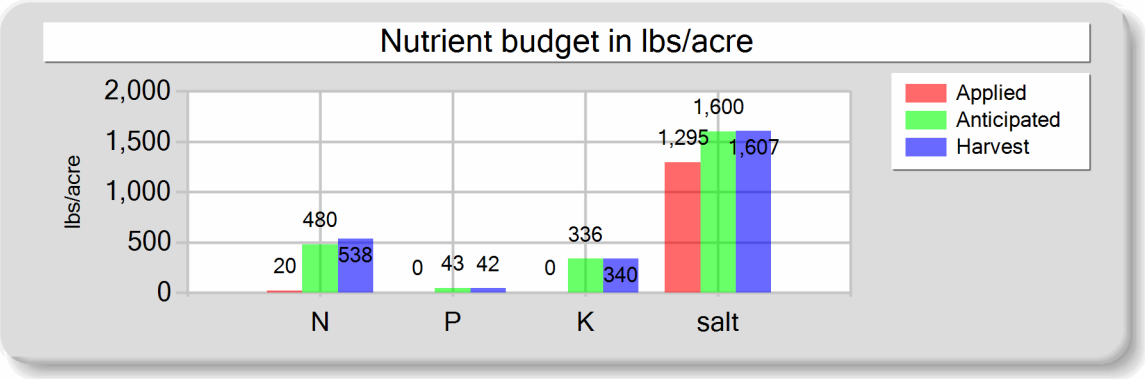
| Fresh water applied | |
|---|---|
| 92,960,877.00 | *gallons* |
| 3,423.43 | *acre-inches* |
| 43.89 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

## MD-9 - 11/03/2016: Alfalfa, hay

Field name: MD-9 Crop: Alfalfa, hay Plant date: 11/03/2016




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 5.98 | 0.00 | 0.00 | 1,294.63 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 19.98 | 0.00 | 0.00 | 1,294.63 |
| Anticipated crop nutrient removal | 480.00 | 43.20 | 336.00 | 1,600.00 |
| Actual crop nutrient removal | 538.49 | 41.98 | 340.18 | 1,606.80 |
| Nutrient balance | -518.52 | -41.98 | -340.18 | -312.17 |
| Applied to removed ratio | 0.04 | 0.00 | 0.00 | 0.81 |

| Fresh water applied | |
|---|---|
| 109,790,380.00 | *gallons* |
| 4,043.21 | *acre-inches* |
| 43.95 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

NUTRIENT ANALYSES

## A. MANURE ANALYSES

Manure

Sample and source description: Manure

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

Moisture: 5.8 %

| | 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** | 26,400.00 | 9,000.00 | 28,200.00 | | | | | | | |
| **DL** | 100.00 | 100.00 | 100.00 | | | | | | | |

Manure

Sample and source description: Manure

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

Moisture: 37.5 %

| | 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** | 7,200.00 | 2,800.00 | 3,700.00 | | | | | | | |
| **DL** | 100.00 | 200.00 | 200.00 | | | | | | | |

Manure

Sample and source description: Manure

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

Moisture: 13.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Calcium (mg/kg) | Magnesium (mg/kg) | Sodium (mg/kg) | Sulfur (mg/kg) | Chloride (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 27,300.00 | 9,900.00 | 26,100.00 | | | | | | | |
| **DL** | 100.00 | 200.00 | 200.00 | | | | | | | |

## B. PROCESS WASTEWATER ANALYSES

Lagoon

Sample and source description: Lagoon

Sample date: 11/18/2022 Material type: Process wastewater Source of analysis: Lab analysis pH:

| | Kjeldahl-N (mg/L) | NH4-N (mg/L) | NH3-N (mg/L) | Nitrate-N (mg/L) | Total P (mg/L) | Total K (mg/L) | Calcium (mg/L) | Magnes. (mg/L) | Sodium (mg/L) | Bicarb. (mg/L) | Carb. (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 317.00 | 229.00 | 0.00 | 0.00 | 47.50 | 296.00 | | | | | | | | 6,020.00 | 4,000 |
| **DL** | 10.00 | 2.00 | 0.20 | 0.20 | 0.20 | 0.50 | | | | | | | | 100.00 | 10 |

Lagoon

Sample and source description: Lagoon

Sample date: 03/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.10

| | 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** | 334.00 | 224.00 | 0.00 | 0.00 | 63.00 | 406.00 | | | | | | | | 4,940.00 | 3,280 |
| **DL** | 10.00 | 2.00 | 0.20 | 0.20 | 0.20 | 0.50 | | | | | | | | 100.00 | 10 |

Lagoon

Sample and source description: Lagoon

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

| | Kjeldahl-N (mg/L) | NH4-N (mg/L) | NH3-N (mg/L) | Nitrate-N (mg/L) | Total P (mg/L) | Total K (mg/L) | Calcium (mg/L) | Magnes. (mg/L) | Sodium (mg/L) | Bicarb. (mg/L) | Carb. (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 250.00 | 226.00 | 0.00 | 0.00 | 50.20 | 377.00 | | | | | | | | 2,240.00 | 1,490 |
| **DL** | 10.00 | 2.00 | 0.10 | 0.10 | 0.20 | 0.50 | | | | | | | | 100.00 | 10 |

Lagoon

Sample and source description: Lagoon

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

| | Kjeldahl-N (mg/L) | NH4-N (mg/L) | NH3-N (mg/L) | Nitrate-N (mg/L) | Total P (mg/L) | Total K (mg/L) | Calcium (mg/L) | Magnes. (mg/L) | Sodium (mg/L) | Bicarb. (mg/L) | Carb. (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 223.00 | 217.00 | 0.00 | 0.00 | 30.80 | 283.00 | | | | | | | | 4,020.00 | 2,670 |
| **DL** | 10.00 | 2.00 | 0.20 | 0.20 | 0.20 | 0.50 | | | | | | | | 100.00 | 10 |

Lagoon

Sample and source description: Lagoon

Sample date: 11/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

| | Kjeldahl-N (mg/L) | NH4-N (mg/L) | NH3-N (mg/L) | Nitrate-N (mg/L) | Total P (mg/L) | Total K (mg/L) | Calcium (mg/L) | Magnes. (mg/L) | Sodium (mg/L) | Bicarb. (mg/L) | Carb. (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 385.00 | 381.00 | 0.00 | 0.00 | 32.80 | 312.00 | | | | | | | | 5,110.00 | 3,390 |
| **DL** | 10.00 | 2.00 | 0.20 | 0.20 | 0.20 | 0.50 | | | | | | | | 100.00 | 10 |

## C. FRESH WATER ANALYSES

Canal Water (Semi Tropic ID)

Canal Water (Semi Tropic)

Sample description: Canal Water (Semi Tropic)

Sample date: 07/18/2023 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** | 0.60 | 0.00 | 0.60 | | | | | | | | 204.00 | 130 |
| **DL** | 0.50 | 0.50 | 0.20 | | | | | | | | 1.00 | 20 |

DWN

Domestic Well

Sample description: Domestic Well

Sample date: 11/30/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 1.90 | 0.00 | 1.90 | | | | | | | | 309.00 | |
| **DL** | 0.50 | 0.10 | 0.20 | | | | | | | | 1.00 | |

## D. SOIL ANALYSES

*No soil analyses entered.*

## E. PLANT TISSUE ANALYSES

### 207 - 11/15/2022: Wheat, silage, soft dough

#### Wheat

Sample and source description: Wheat

Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.9 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 17,400.00 | 4,000.00 | 20,100.00 | | 10.50 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

### 207 - 06/29/2023: Corn, silage

#### Corn

Sample and source description: Corn

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

Moisture: 66.7 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 12,000.00 | 2,300.00 | 9,200.00 | | 5.57 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

### 212 - 11/15/2022: Wheat, silage, soft dough

#### Wheat

Sample and source description: Wheat

Sample date: 05/18/2023 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** | 16,900.00 | 4,000.00 | 21,600.00 | | 10.70 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 212 - 07/01/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.5 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 11,900.00 | 2,200.00 | 7,900.00 | | 5.29 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 213 - 11/15/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/18/2023 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** | 15,900.00 | 2,800.00 | 12,800.00 | | 8.65 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 213 - 07/01/2023: Corn, silage

### Corn

Sample and source description: Corn

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

Moisture: 68.8 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,300.00 | 1,900.00 | 12,400.00 | | 5.41 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 214 - 11/14/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/20/2023 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** | 15,800.00 | 3,800.00 | 20,700.00 | | 11.60 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 214 - 06/30/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/10/2023 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** | 14,000.00 | 2,400.00 | 18,900.00 | | 7.52 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 215 - 11/14/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.4 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 17,500.00 | 3,800.00 | 21,500.00 | | 13.20 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 215 - 06/29/2023: Corn, silage

### Corn

Sample and source description: Corn

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

Moisture: 65.1 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 11,300.00 | 2,300.00 | 8,100.00 | | 5.01 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 216 - 11/12/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 15,900.00 | 3,400.00 | 18,400.00 | | 10.40 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 216 - 07/15/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.5 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 10,800.00 | 3,000.00 | 10,400.00 | | 5.20 |
| **DL** | 0.05 | 0.02 | 0.02 | | 0.05 |

## 219 - 11/12/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/20/2023 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** | 15,500.00 | 4,000.00 | 20,400.00 | | 11.60 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 219 - 06/25/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/09/2023 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** | 13,500.00 | 1,900.00 | 13,900.00 | | 5.61 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 220 - 11/14/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.9 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 16,400.00 | 4,200.00 | 20,100.00 | | 10.80 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 220 - 06/25/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.6 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,800.00 | 1,900.00 | 12,000.00 | | 5.13 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 225 - 11/12/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/19/2023 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** | 14,200.00 | 3,800.00 | 20,300.00 | | 11.90 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 225 - 07/01/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,400.00 | 2,300.00 | 15,900.00 | | 6.49 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 226 - 11/20/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.8 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 17,400.00 | 3,700.00 | 23,200.00 | | 10.90 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 226 - 06/29/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/17/2023 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** | 12,700.00 | 2,200.00 | 15,000.00 | | 6.01 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 229 - 11/15/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.1 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 16,100.00 | 4,300.00 | 23,900.00 | | 12.50 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

229 - 06/27/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 68.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 11,800.00 | 2,000.00 | 12,200.00 | | 5.47 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

230 - 11/15/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/28/2023 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** | 18,700.00 | 3,700.00 | 22,300.00 | | 10.60 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

230 - 07/12/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.9 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 11,600.00 | 2,500.00 | 9,500.00 | | 4.11 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 231 - 11/16/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 16,300.00 | 4,200.00 | 21,900.00 | | 12.20 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 231 - 06/24/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.1 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,300.00 | 2,600.00 | 10,000.00 | | 5.40 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 232 - 11/16/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/27/2023 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** | 17,400.00 | 3,700.00 | 23,400.00 | | 10.50 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## 232 - 07/12/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 2,500.00 | 15,200.00 | | 5.68 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-1 - 11/01/2017: Almond, in shell

### Almonds

Sample and source description: Almonds

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 5.4 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 20,100.00 | 1,900.00 | 16,500.00 | | 15.90 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-10 - 11/10/2017: Alfalfa, hay

### Alfalfa

Sample and source description: Alfalfa

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

Moisture: 9.9 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 40,200.00 | 2,900.00 | 21,500.00 | | 21.00 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-11 - 11/17/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/18/2023 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** | 16,200.00 | 4,000.00 | 20,400.00 | | 11.00 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-11 - 07/10/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.1 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 11,000.00 | 2,800.00 | 9,800.00 | | 4.71 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-12 - 11/18/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 15,100.00 | 2,600.00 | 16,000.00 | | 8.58 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-12 - 07/11/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.1 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,300.00 | 2,600.00 | 15,000.00 | | 5.78 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-2 - 11/01/2017: Almond, in shell

### Almonds

Sample and source description: Almonds

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 5.9 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 19,800.00 | 2,100.00 | 16,000.00 | | 12.90 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-5 - 11/16/2022: Wheat, silage, soft dough

### Wheat

Sample and source description: Wheat

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 15,700.00 | 3,800.00 | 18,800.00 | | 11.20 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-5 - 07/03/2023: Corn, silage

### Corn

Sample and source description: Corn

Sample date: 10/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 12,000.00 | 2,700.00 | 9,100.00 | | 4.17 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-6 - 11/09/2017: Alfalfa, hay

### Alfalfa

Sample and source description: Alfalfa

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

Moisture: 10.0 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 39,700.00 | 3,000.00 | 22,400.00 | | 11.90 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## MD-7 - 10/31/2016: Alfalfa, hay

### Alfalfa

Sample and source description: Alfalfa

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

Moisture: 10.1 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 39,100.00 | 3,000.00 | 22,200.00 | | 11.90 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

MD-8 - 11/01/2020: Alfalfa, hay

Wheat

Sample and source description: Wheat

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

Moisture: 10.8 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 34,500.00 | 2,900.00 | 23,700.00 | | 11.10 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

MD-9 - 11/03/2016: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

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

Moisture: 10.5 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 37,200.00 | 2,900.00 | 23,500.00 | | 11.10 |
| **DL** | 500.00 | 200.00 | 200.00 | | 0.05 |

## F. SUBSURFACE (TILE) DRAINAGE ANALYSES

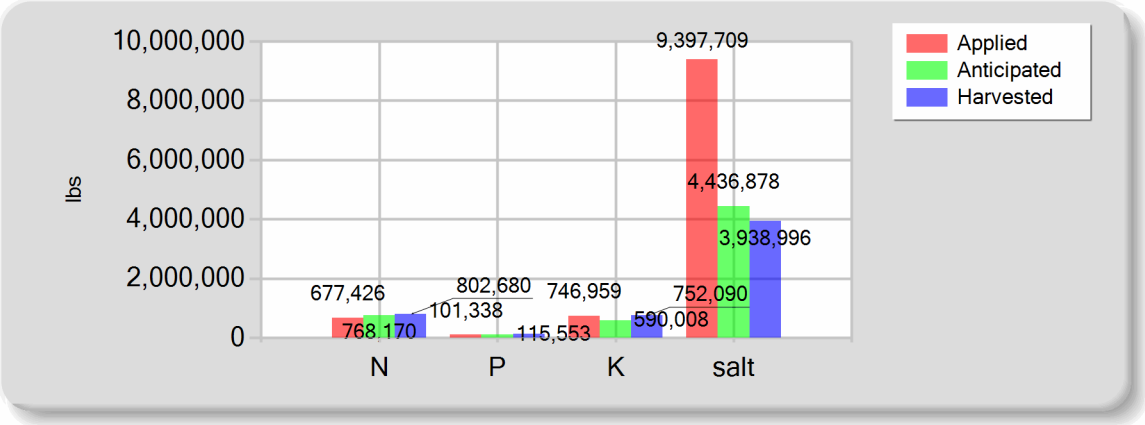
*No subsurface (tile) drainage analyses entered.*

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

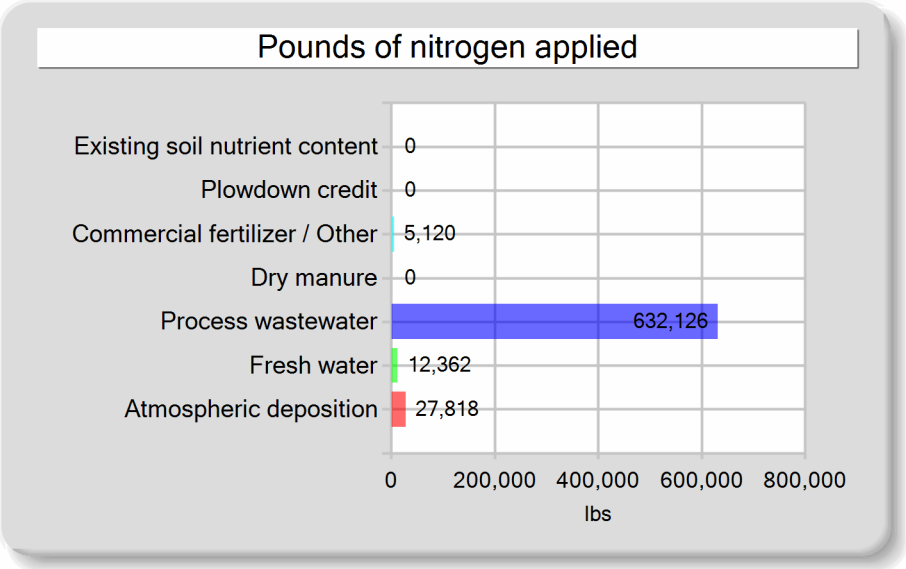
## A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

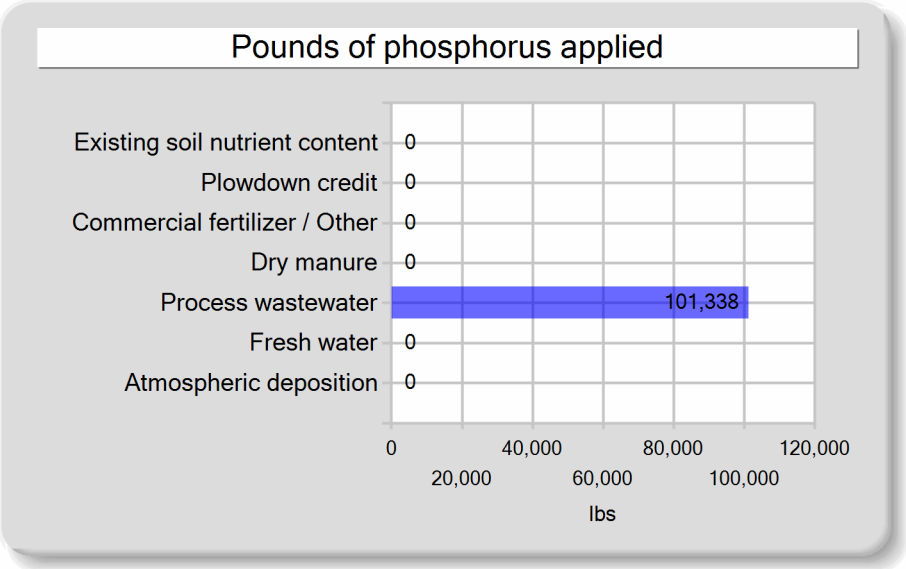
| | Total N (lbs) | Total P (lbs) | Total K (lbs) | Total salt (lbs) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 5,120.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 632,126.22 | 101,338.31 | 746,958.69 | 6,752,131.10 |
| Fresh water | 12,361.56 | 0.00 | 0.00 | 2,645,578.19 |
| Atmospheric deposition | 27,818.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 677,425.78 | 101,338.31 | 746,958.69 | 9,397,709.29 |
| Anticipated crop nutrient removal | 768,170.00 | 115,553.20 | 590,007.80 | 4,436,878.00 |
| Actual crop nutrient removal | 802,679.99 | 136,297.26 | 752,089.75 | 3,938,996.00 |
| Nutrient balance | -125,254.20 | -34,958.95 | -5,131.06 | 5,458,713.29 |
| Applied to removed ratio | 0.84 | 0.74 | 0.99 | 2.39 |

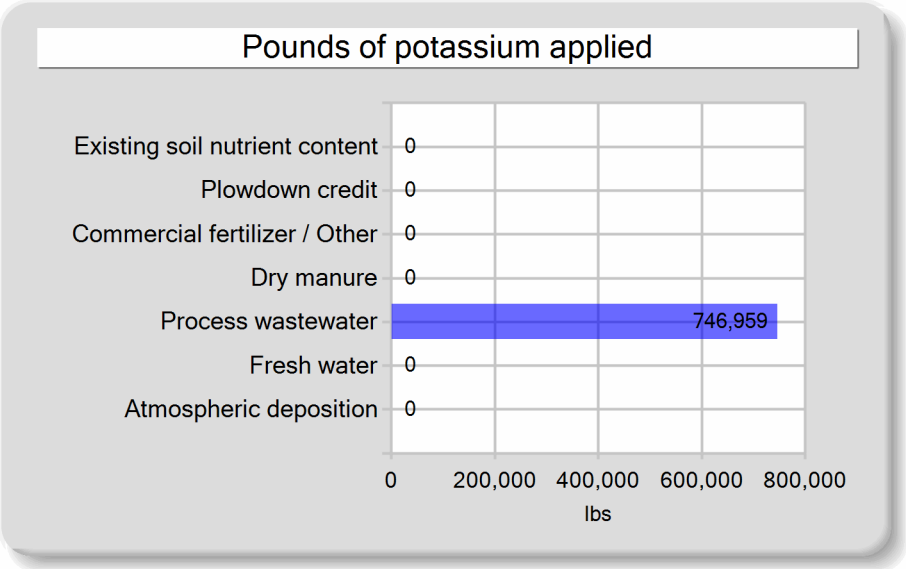
## B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

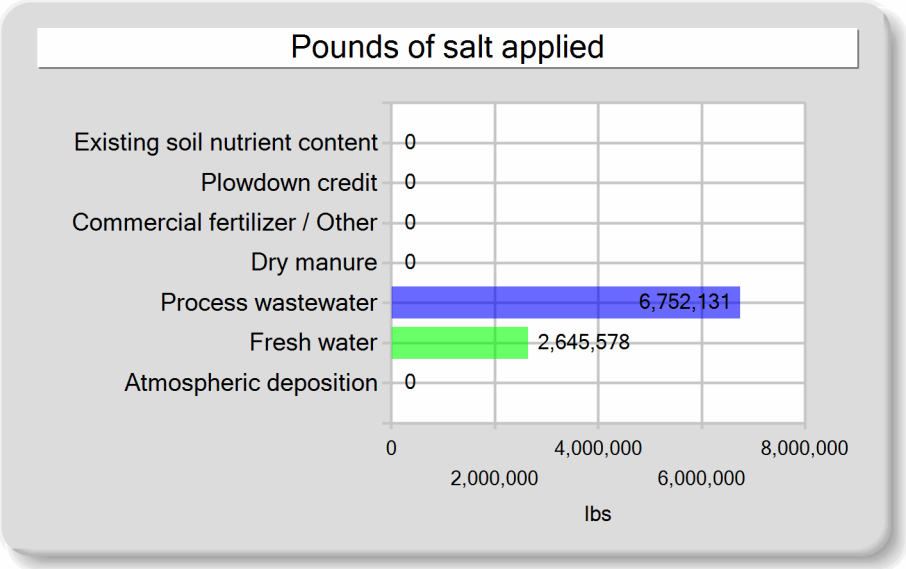


## C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE



## EXCEPTION REPORTING

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

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

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

### B. STORM WATER DISCHARGES

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

*No stormwater discharges occurred during the reporting period.*

### C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

## NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

### A. NUTRIENT MANAGEMENT PLAN STATEMENTS

| | |
|---|---|
| Was the facility's NMP updated in the reporting period? | 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 |

ADDITIONAL NOTES

**A. NOTES**

~Fields MD3 and MD4 are non bearing trees and did not have a harvest in 2023.

~Wells~ MD4, MD6, MD7, MD8, MD9N, MD9S, MD11, 207, 213, 215, 216N, 216S, 225, 232, MD2, MD House and DWS 2 were Out of Service in 2023.

ANNUAL REPORT VALIDATION INFORMATION

## A. VALIDATION ERRORS

The following sections contain validation errors and should be reviewed before submitting the Annual Report :

1. Harvest Events

**Annual Report - General Order No. R5-2007-0035**
*Reporting period 01/01/2023 to 12/31/2023.*

CERTIFICATION

**A. OWNER AND/OR OPERATOR CERTIFICATION**

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

| | |
|---|---|
| Juan Echeverria | |
| SIGNATURE OF OWNER OF FACILITY | SIGNATURE OF OPERATOR OF FACILITY |
| Juan Echeverria | SAME AS OWNER |
| PRINT OR TYPE NAME | PRINT OR TYPE NAME |
| Juan Echeverria | 6-13-24 |
| DATE | DATE |

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. |

ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

December 13, 2023

**Sentry Ag Services**
Attn: Monique Baldivez
P.O. Box 7750
Visalia, CA 93290

**Lab No.** : **VI 2348027**
**Customer No.** : **4019696**
**Reference** : **3444**

## Laboratory Report

**Introduction:** This report package contains a total of 3 pages divided into 3 sections:

| | | |
|---|---|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (1 page) | : Results for each sample submitted. |
| Quality Control | (1 page) | : Supporting Quality Control (QC) results. |

## Case Narrative

This Case Narrative pertains to the following samples:

| Sample Description | Date Sampled | Date Received | FGL Lab No. | Matrix |
|---|---|---|---|---|
| DWN | 11/30/2023 | 11/30/2023 | VI 2348027-001 | DW |

**Sampling and Receipt Information:**

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

| Test Summary | |
|---|---|
| SM 4500-H+B | Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573) |
| SM 4500-NO3 F | Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573) |

**Certification:** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-12-14



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Santa Paula, CA 93060
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Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

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**Office & Laboratory**
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TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

December 13, 2023

**Sentry Ag Services**
Attn: Monique Baldivez
P.O. Box 7750
Visalia, CA 93290

Description : DWN
Project : Maya

Lab No. : VI 2348027-001
Customer No. : 4019696
Reference : 3444
Sampled On : November 30, 2023 at 09:20
Sampled By : Klay
Received On : November 30, 2023 at 13:40
Matrix : Drinking Water

## Sample Results - Inorganic

| Constituent | Result | RL | Units | MCL/AL | Dil. | DQF | Sample Preparation | | | Sample Analysis | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dairy Analysis** | | | | | | | Date | Time | Who | Method | Date | Time | Who |
| Nitrate Nitrogen | 1.9 | 0.4 | mg/L | 10 | 1 | | 12/01/2023 | 12:15 | lfs | SM 4500-NO3 F | 12/01/2023 | 14:23 | lfs |
| Conductivity | 309 | 1 | umhos/cm | 1600[2] | 1 | | 12/07/2023 | 07:47 | krh | SM 4500-H+B | 12/07/2023 | 13:30 | krh |

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.


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December 13, 2023
**Sentry Ag Service**

Lab No. : VI 2348027
Customer No. : 4019696

## Quality Control - Wet Chem

| Constituent | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|---|---|---|---|---|---|---|---|---|
| **Wet Chem** | | | | | | | | |
| E. C. | 2320B | (VI 2348017-001) | Dup | umhos/cm | | 0% | 5 | |
| Nitrate Nitrogen | 4500NO3F | 12/01/2023:213604LFS | Blank | mg/L | | ND | <0.4 | |
| | | | LCS | mg/L | 11.22 | 95.1% | 80-120 | |
| | | | MS | mg/L | 5.609 | 92.4% | 66-125 | |
| | | (SP 2319794-001) | MSD | mg/L | 5.609 | 92.9% | 66-125 | |
| | | | MSRPD | mg/L | | 0.3% | ≤30.4 | |

**Definition**

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.


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FAX: (559)734-8435
CA ELAP Certification No. 2810

# Laboratory Analysis Work Order

2348027

3444

**SITE NAME:** Maya

**LABORATORY:** VT | FGL 4-19696

**Billing:** Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290

**Authorized Copy Release to:**
labs@sentryagservices.com

## ANALYSIS TO BE COMPLETED

### Irrigation/Ground Water (ELAP Standards)

- W1 EC, $NO_3N$ (Dom)
- W2 EC, $NO_3N$, TDS, TN (Irr)
- W3 $NH_4$-N (Ammonium)
- W4 EC, $NO_3N$, Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4S$, Cl, TDS (Dom, GM)
- W5 EC, $NO_3N$, TDS, TN, Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4S$, Cl (Irr, GM)
- W6 $NO_3N$, $NO_2$ (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, $HCO_3$, $CO_3$, $SO_4$, Cl + Lab Filtering (GWM)
- W8 Other: _____

RDL 5.4C

### Plant Tissue

- P1 TN, $NO_3N$, $PO_4P$, K (Mid Season - Wheat)
- P2 TN, P, K (Mid-season - Corn)
- P3 TN, TP, TK, Ash, %M (At Harvest)
- P4 TN, %M
- P5 % Moisture
- P6 NIR
- P7 Other: _____

### Process Waste Water (lagoon)

- L1 EC, $NH_4N$, TKN, TP, TK, TDS (Quarterly)
- L2 EC, $NO_3N$, $NH_4N$, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, $HCO_3$,$CO_3$, $SO_4S$, Cl (Biennially)
- L4 Other: _____

### Manure

- M1 TN, TP, TK, %M (2/year)
- M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
- M3 Other: _____

### Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, $NO_3N$, $PO_4P$, K-AA, Zn, Mn, Fe, Cu, $SO_4S$
- S2 S1 + CEC, CaCO3, OM, C:N, TN
- S3 $NO_3N$, $NH_4N$
- S4 Other: _____

| | Sample ID | Description | Analysis | Date/Time | Sampled by | SAS USE ONLY: FIELD TESTS $NH_3N$ * | pH | Temp |
|---|---|---|---|---|---|---|---|---|
| 1 | DWN | Dom. Well | W1 | 11/30/23 9:20 | Klay | — | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of sampes, please note below.

NOTES:

### CHAIN OF CUSTODY RECORDING

| | Signature | Company | Received Date & Time | Relinquished Date & Time |
|---|---|---|---|---|
| 1st | Klay Miller | SAS | | 11/30/23 13:40 |
| 2nd | [illegible] | FGL | 11/30/23 13:40 | |
| 3rd | [illegible] | | | 11/30/23 1730 |
| 4th | [illegible] | | 11/30/23 1730 | |

**LABORATORY USE ONLY**

**Logged In By:** GLS 12/1/23 **Total Samples:** _____ **Laboratory No.:** _____

CDA 1143

# Inter-Laboratory Condition Upon Receipt (Attach to COC)

**Sample Receipt at:** CC CH STK VI

1. Number of ice chests/packages received: 1 Shipping tracking #(s): OTC
2. Temp IR Gun ID #: 407
3. Were samples received on ice? Yes No Temps: 5.4i / / / /
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
4. Do the number of bottles received agree with the COC? Yes No N/A
5. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
6. VOAs checked for Headspace? Yes No N/A
7. Were all analyses within holding times at time of receipt? Yes No
8. Verify sample date, time and sampler name Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): DH

**Sample Receipt at SP:**

1. Number of ice chests/packages received: 2 Shipping tracking #(s): 560553707 / 15
2. Temp IR Gun ID #: 263
3. Were samples received on ice? Yes No Temps: 2 / 3 / / /
   Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/
4. Do the number of bottles received agree with the COC? Yes No N/A
5. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

**Sample Verification, Labeling and Distribution:**

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
   [Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Have rush or project due dates been checked and accepted? Yes No N/A
6. Were all analyses within holding times at time of receipt? Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): CDA

**Discrepancy Documentation:**

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:
   Resolution:
2. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:
   Resolution:

(Please use the back of this sheet for additional comments or co:

(4019696)
Sentry Ag Service
VI 2348027
iv 12/01/2023 07:25:56
VI 2348027

ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

August 11, 2023

**Sentry Ag Services**
Attn: Monique Baldivez
P.O. Box 7750
Visalia, CA 93290

**Lab No.** : **VI 2344660**
**Customer No.** : **4019696**
**Reference** : **3057**

## Laboratory Report

**Introduction:** This report package contains a total of 3 pages divided into 3 sections:

| | | |
|---|---|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (1 page) | : Results for each sample submitted. |
| Quality Control | (1 page) | : Supporting Quality Control (QC) results. |

## Case Narrative

This Case Narrative pertains to the following samples:

| Sample Description | Date Sampled | Date Received | FGL Lab No. | Matrix |
|---|---|---|---|---|
| Semi Tropic ID | 07/18/2023 | 07/18/2023 | VI 2344660-001 | AGW |

### Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

| Test Summary | |
|---|---|
| EPA 351.2 | Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573) |
| SM 2540 C | Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573) |
| SM 4500-H+B | Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573) |
| SM 4500-NO3 F | Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573) |

**Certification:** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-08-14



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CA ELAP Certification No. 2810

August 11, 2023

**Sentry Ag Services**
Attn: Monique Baldivez
P.O. Box 7750
Visalia, CA 93290

Description : Semi Tropic ID
Project : Semi Tropic ID

Lab No. : VI 2344660-001
Customer No. : 4019696
Reference : 3057
Sampled On : July 18, 2023 at 08:30
Sampled By : Klay
Received On : July 18, 2023 at 15:17
Matrix : Ag Water

## Sample Results - Inorganic

| Constituent | Result | RL | Units | Note | Dil. | DQF | Sample Preparation | | | Sample Analysis | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dairy Analysis** | | | | | | | Date | Time | Who | Method | Date | Time | Who |
| Nitrogen, Total Kjeldahl | 0.6 | 0.5 | mg/L | | 1 | | 08/08/2023 | 08:55 | sta | EPA 351.2 | 08/10/2023 | 17:40 | lcr |
| Nitrate Nitrogen | ND | 0.4 | mg/L | | 1 | U | 07/19/2023 | 12:15 | lfs | SM 4500-NO3 F | 07/19/2023 | 15:06 | lfs |
| Nitrogen, Total as Nitrogen | 0.6 | 0.5 | mg/L | | 1 | | 08/08/2023 | 08:55 | sta | Calc. | 08/10/2023 | 17:40 | lcr |
| Nitrate + Nitrite as N | ND | 0.4 | mg/L | | 1 | U | 07/19/2023 | 12:15 | lfs | SM 4500-NO3 F | 07/19/2023 | 15:06 | lfs |
| Kjeldahl Nitrogen | 0.6 | 0.5 | mg/L | | 1 | | 08/08/2023 | 08:55 | sta | EPA 351.2 | 08/10/2023 | 17:40 | lcr |
| Conductivity | 204 | 1 | umhos/cm | | 1 | | 07/31/2023 | 17:05 | amm | SM 4500-H+B | 07/31/2023 | 20:34 | amm |
| Solids, Total Dissolved (TDS) | 130 | 20 | mg/L | | 1 | | 07/21/2023 | 09:30 | ctl | SM 2540 C | 07/24/2023 | 11:00 | ctl |

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution


Page 2 of 3

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August 11, 2023
**Sentry Ag Service**

Lab No. : VI 2344660
Customer No. : 4019696

## Quality Control - Wet Chem

| Constituent | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|---|---|---|---|---|---|---|---|---|
| **Wet Chem** | | | | | | | | |
| E. C. | 2320B | (VI 2344710-008) | Dup | umhos/cm | | 0.3% | 5 | |
| Solids, Total Dissolved | 2540CE | 07/21/2023:207986CTL | Blank | mg/L | | ND | <20 | |
| | | | LCS | mg/L | 991.5 | 101% | 90-110 | |
| | | (SP 2312256-003) | Dup | mg/L | | 0.2% | 5 | |
| | | (SP 2312256-003) | Dup | mg/L | | 3.10% | 5 | |
| Nitrogen, Total Kjeldahl | 351.2 | 08/08/2023:208707STA | Blank | mg/L | | ND | <0.5 | |
| | | | LCS | mg/L | 12.00 | 91.3% | 73-124 | |
| | | | MS | mg/L | 12.00 | 85.5% | 54-136 | |
| | | (VI 2344654-002) | MSD | mg/L | 12.00 | 85.3% | 54-136 | |
| | | | MSRPD | mg/L | | 0.3% | ≤27 | |
| | | | MS | mg/L | 12.00 | 82.8% | 54-136 | |
| | | (VI 2344644-003) | MSD | mg/L | 12.00 | 82.5% | 54-136 | |
| | | | MSRPD | mg/L | | 0.3% | ≤27 | |
| Nitrate + Nitrite as N | 4500NO3F | 07/19/2023:207926LFS | Blank | mg/L | | ND | <0.4 | |
| | | | LCS | mg/L | 11.22 | 97.8% | 80-120 | |
| | | | MS | mg/L | 5.609 | 91.9% | 66-125 | |
| | | (STK2339515-001) | MSD | mg/L | 5.609 | 94.5% | 66-125 | |
| | | | MSRPD | mg/L | | 1.2% | ≤30.4 | |
| Nitrate Nitrogen | 4500NO3F | 07/19/2023:207926LFS | Blank | mg/L | | ND | <0.4 | |
| | | | LCS | mg/L | 11.22 | 97.8% | 80-120 | |
| | | | MS | mg/L | 5.609 | 91.9% | 66-125 | |
| | | (STK2339515-001) | MSD | mg/L | 5.609 | 94.5% | 66-125 | |
| | | | MSRPD | mg/L | | 1.2% | ≤30.4 | |

**Definition**

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND : Non-detect - Result was below the DQO listed for the analyte.


Page 3 of 3

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2344660

# Laboratory Analysis Work Order

3057

**SITE NAME:** Semi Tropic ID

**LABORATORY:** VT | FGL 4-19696

**Billing:** Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290

**Authorized Copy Release to:**
labs@sentryagservices.com

## ANALYSIS TO BE COMPLETED

### Irrigation/Ground Water (ELAP Standards)

- W1 EC, $NO_3N$ (Dom)
- W2 EC, $NO_3N$, TDS, TN (Irr)
- W3 $NH_4$-N (Ammonium)
- W4 EC, $NO_3N$, Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4S$, Cl, TDS (Dom, GM)
- W5 EC, $NO_3N$, TDS, TN, Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4S$, Cl (Irr, GM)
- W6 $NO_3N$, $NO_2$ (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, $HCO_3$, $CO_3$, $SO_4$, Cl + Lab Filtering (GWM)
- W8 Other: _____

### Plant Tissue

- P1 TN, $NO_3N$, $PO_4P$, K (Mid Season - Wheat)
- P2 TN, P, K (Mid-season - Corn)
- P3 TN, TP, TK, Ash, %M (At Harvest)
- P4 TN, %M
- P5 % Moisture
- P6 NIR
- P7 Other: _____

### Process Waste Water (lagoon)

- L1 EC, $NH_4N$, TKN, TP, TK, TDS (Quarterly)
- L2 EC, $NO_3N$, $NH_4N$, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, $HCO_3$,$CO_3$, $SO_4S$, Cl (Biennially)
- L4 Other: _____

### Manure

- M1 TN, TP, TK, %M (2/year)
- M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
- M3 Other: _____

### Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, $NO_3N$, $PO_4P$, K-AA, Zn, Mn, Fe, Cu, $SO_4S$
- S2 S1 + CEC, CaCO3, OM, C:N, TN
- S3 $NO_3N$, $NH_4N$
- S4 Other: _____

| | Sample ID | Description | Analysis | Date/Time | Sampled by | SAS USE ONLY: FIELD TESTS $NH_3N$ * | pH | Temp |
|---|---|---|---|---|---|---|---|---|
| 1 | Semi Tropic ID | Canal H20 | W2 | 7/18/23 8:30 | Klay | – | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of sampes, please note below.

NOTES:

### CHAIN OF CUSTODY RECORDING

| | Signature | Company | Received Date & Time | Relinquished Date & Time |
|---|---|---|---|---|
| 1st | Klay [illegible] | SAS | | 7/18/23 15:17 |
| 2nd | SRO | FGL | 7/18/23 1517 | |
| 3rd | SRO | FGL | | 7/18/23 1730 |
| 4th | | GLS | 7/18/23 1730 | |

LABORATORY USE ONLY
**Logged In By:** _____ **Total Samples:** _____ **Laboratory No.:** _____

R01 GLS 7/19/23
5.3°C MC 1100

# Inter-Laboratory Condition Upon Receipt (Attach to COC)

**Sample Receipt at:** STK CC CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC
2. Were samples received in a chilled condition? Temps: RO1 / 5.3°c / ____ / ____ / ____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

| | | | | |
|---|---|---|---|---|
| 3. | Do the number of bottles received agree with the COC? | Yes | No | N/A |
| 4. | Were samples received intact? (i.e. no broken bottles, leaks etc.) | Yes | No | |
| 5. | VOAs checked for Headspace? | Yes | No | N/A |
| 6. | Were sample custody seals intact? | Yes | No | N/A |
| 7. | If required, was sample split for pH analysis? | Yes | No | N/A |
| 8. | Were all analyses within holding times at time of receipt? | Yes | No | |
| 9. | Verify sample date, time and sampler name | Yes | No | |

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): SRO

**Sample Receipt at SP:**

1. Were samples received in a chilled condition? Temps: 3c / ____ / ____ / ____ / ____
   Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 559787246 6815

| | | | | |
|---|---|---|---|---|
| 3. | Do the number of bottles received agree with the COC? | Yes | No | N/A |
| 4. | Were samples received intact? (i.e. no broken bottles, leaks etc.) | Yes | No | |
| 5. | Were sample custody seals intact? | Yes | No | N/A |

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

**Sample Verification, Labeling and Distribution:**

| | | | | | |
|---|---|---|---|---|---|
| 1. | Were all requested analyses understood and acceptable? | Yes | No | | |
| 2. | Did bottle labels correspond with the client's ID's? | Yes | No | | |
| 3. | Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab] | Yes | No | N/A | FGL |
| 4. | VOAs checked for Headspace? | Yes | No | N/A | |
| 5. | Have rush or project due dates been checked and accepted? | Yes | No | N/A | |
| 6. | Were all analyses within holding times at time of receipt? | Yes | No | | |

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): MYC

**Discrepancy Documentation:**

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:
   Resolution:

2. Person Contacted:_____ Phone Number:
   Initiated By:_____
   Problem:
   Resolution:

(Please use the back of this sheet for additional c
contacts)

(4019696)
Sentry Ag Service
VI 2344660
iv 07/19/2023 08:11:16
VI 2344660

# ATTACHMENT D

## Manure/Process Wastewater Tracking Manifest
## For
## Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination.**
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

**Operator Information:**

Name of Operator: _____

Name of Dairy Facility: [illegible] DAIRY

Facility Address: 18451 [illegible] RD (Number and Street) B-WILLOW (City) 93206 (Zip Code)

Contact Person Name and Phone Number: _____ (Name) 661-746-2356 (Phone Number)

**Manure/Process Wastewater Hauler Information:**

Name of Hauling Company/Person: R.A.S.

Address of Hauling Company /Person: 9442 BEAR MTN BAKER 93311 (Number and Street, City, Zip Code)

Contact Person: FRED AMIREAR (Name) 661-978-5321 (Phone Number)

**Destination Information:**

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

CANZIA FARM (Name) 1600 CONN COMM (Number and Street) B-WILLOW (City) 93206 (Zip Code) 661-854-3319 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

RAMIREZ RD & SAN [illegible] (Number and Street) B-WILLOW (City) 93206 (Zip Code) _____ (Assessor's Parcel Number)

Dates Hauled: 9/5-9/23

**Amount Hauled:**

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 145220 Tons or Cubic Yards (indicate which units used) SCALE

Manure Solids Content (if amount reported in tons): 62%

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: _____

_____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

_____

**Written Agreement:**
Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

____ Yes _____ No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.
_____ (Operator shall provide initials here to acknowledge this requirement).

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

Operator's Signature: Juan Echeverria Date: 6-13-24

Hauler's Signature: _____ Date: 6/4/24

# ATTACHMENT D

## Manure/Process Wastewater Tracking Manifest
## For
## Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination.**
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

**Operator Information:**

Name of Operator: _____

Name of Dairy Facility: MATA DAIRY

Facility Address: 18451 WILLOWBROOK RD (Number and Street) B-WILLOW (City) 93206 (Zip Code)

Contact Person Name and Phone Number: _____ (Name) 661-746-2396 (Phone Number)

**Manure/Process Wastewater Hauler Information:**

Name of Hauling Company/Person: B.A.S.

Address of Hauling Company /Person: 9442 BEAN AVE (Number and Street) BAKR (City) 93311 (Zip Code)

Contact Person: FRED AMIREAR (Name) 661-978-9321 (Phone Number)

**Destination Information:**

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

[illegible] (Name) [illegible] Edison St (Number and Street) BAKR (City) 9389 (Zip Code) 661-333-9150 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

7th Standard & Mac [illegible] (Number and Street) (City) 93206 (Zip Code) (Assessor's Parcel Number)

Dates Hauled: 9/8 - 11/2/23

**Amount Hauled:**

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 1699.83 Tons (separator) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 61%

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: Pulle

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

**Written Agreement:**
Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

____ Yes _____ No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.
_____ (Operator shall provide initials here to acknowledge this requirement).

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

Operator's Signature: Juan Echeverria Date: 6-13-24

Hauler's Signature: _____ Date: 6/13/24

# ATTACHMENT D

## Manure/Process Wastewater Tracking Manifest
## For
## Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination.**
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

**Operator Information:**

Name of Operator: _____

Name of Dairy Facility: [illegible] DAIRY

Facility Address: [illegible] WILLOW RD (Number and Street) B-WILLOW (City) 93206 (Zip Code)

Contact Person Name and Phone Number: _____ (Name) 661-746-2396 (Phone Number)

**Manure/Process Wastewater Hauler Information:**

Name of Hauling Company/Person: B.A.S.

Address of Hauling Company /Person: 9442 BEAN AVE (Number and Street) BAKER (City) 93311 (Zip Code)

Contact Person: FRED AMIREAU (Name) 661-978-5321 (Phone Number)

**Destination Information:**

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

[illegible] (Name) 351 W 3rd ST (Number and Street) [illegible] (City) 93206 (Zip Code) 661-809-6198 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

7th STREET & COLE (Number and Street) [illegible] (City) 93206 (Zip Code) _____ (Assessor's Parcel Number)

Dates Hauled: 10/3/23

**Amount Hauled:**

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 492 Tons or Cubic Yards (indicate which units used) SCALE

Manure Solids Content (if amount reported in tons): 6%

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: N.A.

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

**Written Agreement:**
Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

____ Yes _____ No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.
_____ (Operator shall provide initials here to acknowledge this requirement).

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

Operator's Signature: Juan Echeverria Date: 6-13-24

Hauler's Signature: _____ Date: 6/4/24

# ATTACHMENT D

## Manure/Process Wastewater Tracking Manifest
## For
## Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination.**
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

**Operator Information:**

Name of Operator: _____

Name of Dairy Facility: MATA DAIRY

Facility Address: 18451 WEBERWOOD RD (Number and Street) BAKERSFIELD (City) 93206 (Zip Code)

Contact Person Name and Phone Number: _____ (Name) 661-246-2396 (Phone Number)

**Manure/Process Wastewater Hauler Information:**

Name of Hauling Company/Person: B.A.S.

Address of Hauling Company /Person: 9442 BEAR MTN (Number and Street) BAKER (City) 93311 (Zip Code)

Contact Person: FRED AMIREAR (Name) 661-978-5321 (Phone Number)

**Destination Information:**

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

B-BLUE FARM (Name) 23951 SUDDEN RD (Number and Street) BAKER (City) 93314 (Zip Code) 661-589-2221 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

_____ (Number and Street) _____ (City) _____ (Zip Code) _____ (Assessor's Parcel Number)

Dates Hauled: 11/30/23

**Amount Hauled:**

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 2712.66 ~~Tons~~ SLURRY or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: N/A

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

**Written Agreement:**
Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

____ Yes _____ No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.
_____ (Operator shall provide initials here to acknowledge this requirement).

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

Operator's Signature: Juan Echeverria Date: 6-13-24

Hauler's Signature: _____ Date: 6/13/24