

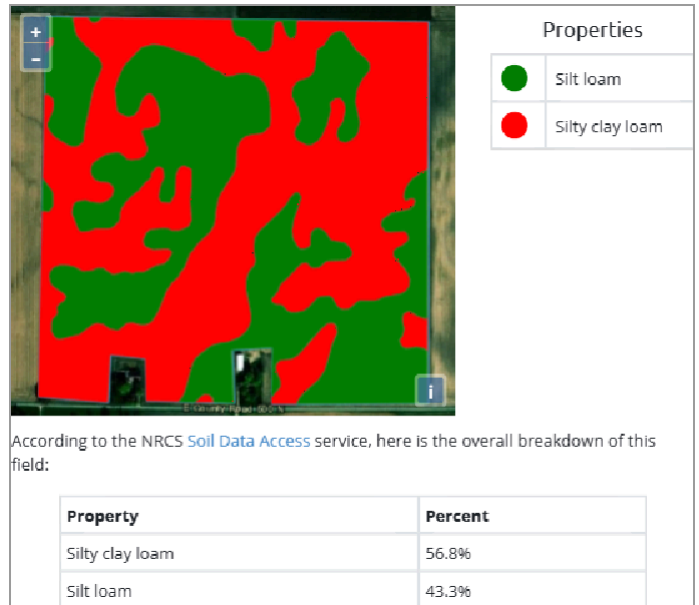
Product Trial Report

| GROWER DETAILS | FIELD DETAILS | PLANTING/HARVEST DETAILS | Total Acre Final Report |
|--------------------------|-------------------------------------|---------------------------------|------------------------------------|
| Grower | Total Acres: 153.56 | Crop: Corn | Report Date: 11/10/2024 |
| City & State: Camden, IN | Soil Type: Please see Soil Type Map | Plant Date: 05/11/2024 | Harvest Year: 2024 |
| Zip Code: 46917 | Irrigation: None | Row Spacing: 30" | Crop: Corn |
| | Fall Tillage: Strip Till | Planting Depth: 2.30 | Trial Name: X246 Trial |
| | Previous Crop: Soybean | Harvest Date: 10/12/2024 | Trial Type: In-Furrow, V4, V10, VT |
| | | Hybrid: 41DT911 | Product: SB Armor17-K |
| | | Seed Company: Specialty Hybrids | |
| | | Population: 34000 | |

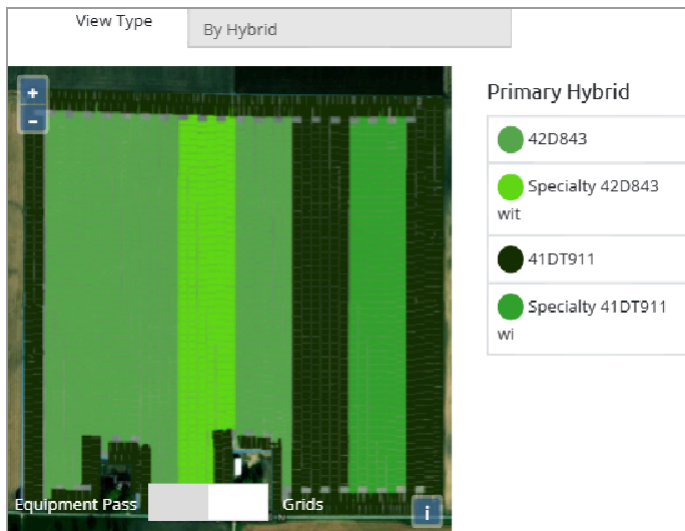
Field Map



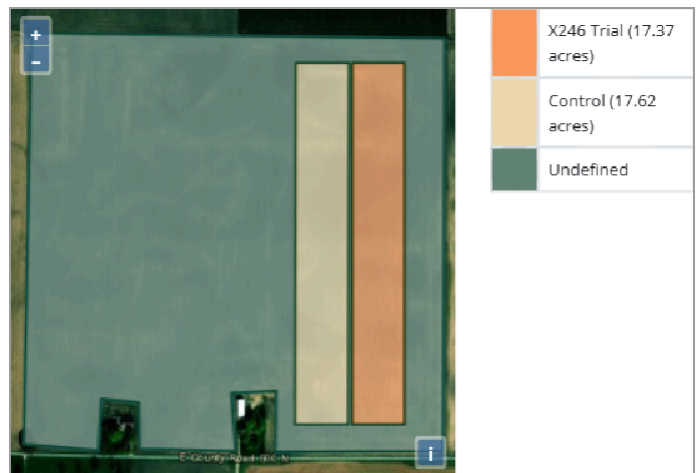
Soil Type



Planting Map



Trial Zones



Product Trial Report

Flag Test Data

X246

| | Date | Time | Color | Count | Soil Temp. | GDUs | GDU delta |
|---|------------|------------|-------|-------|------------|------|-----------|
| 1 | 5/18/2024 | 7:57 PM | Blue | 4 | 74 °F | 115 | |
| 2 | 05/19/2024 | 07:58 AM | Blue | 24 | 74 °F | 126 | 11 |
| 3 | 5/19/2024 | 6:54:01 PM | Blue | 3 | 74 °F | 137 | 22 |

Control

| | Date | Time | Color | Count | Soil Temp. | GDUs | GDU delta |
|---|------------|------------|-------|-------|------------|------|-----------|
| 1 | 5/18/2024 | 7:57 PM | Blue | 6 | 74 °F | 115 | |
| 2 | 05/19/2024 | 07:58 AM | Blue | 18 | 74 °F | 126 | 11 |
| 3 | 5/19/2024 | 6:55:02 PM | Blue | 9 | 74 °F | 137 | 22 |

Product Trial Report

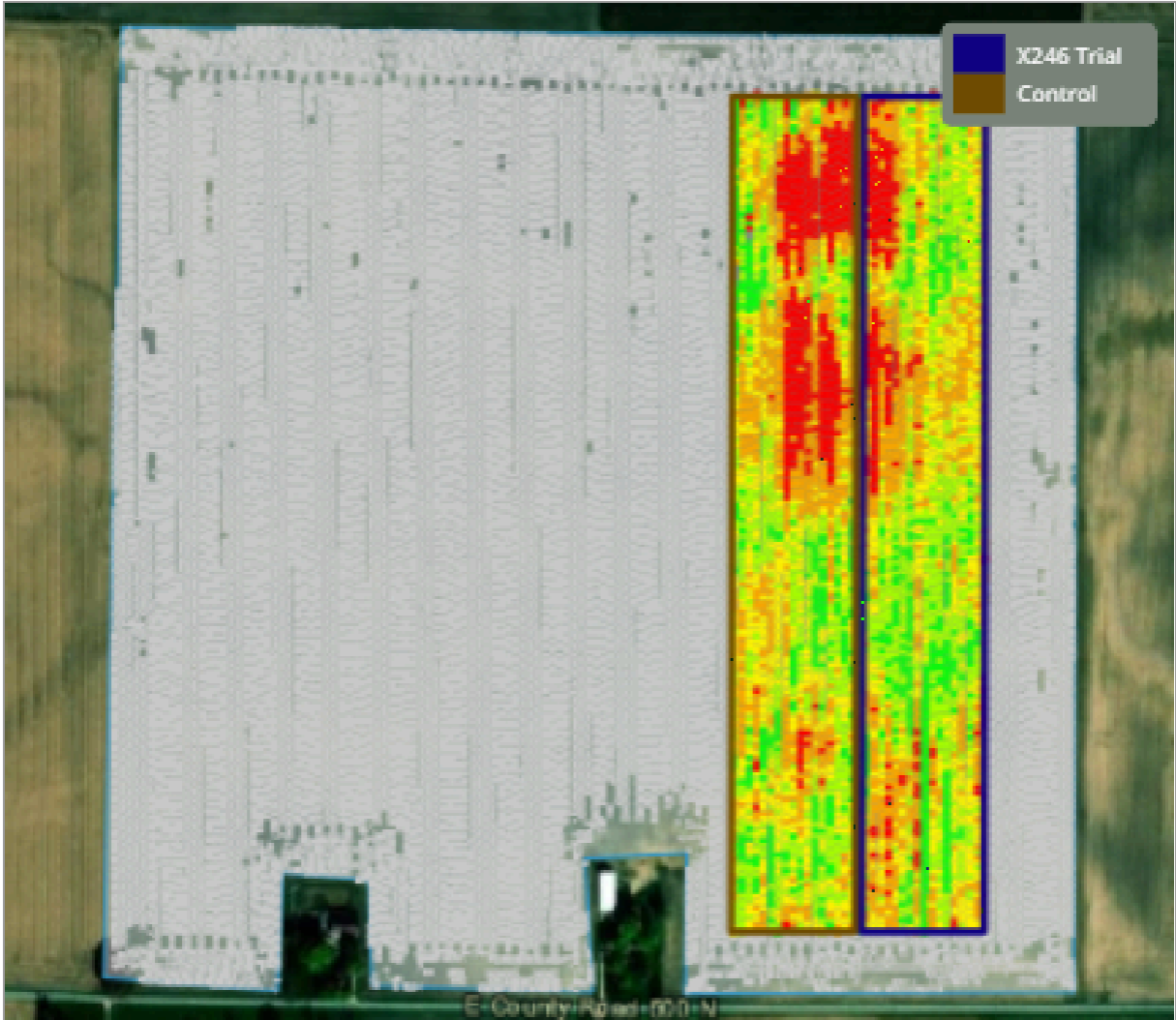
Tissue Results Data

| Date | GDUs | Water | Tissue Site | Nitrogen | Phosphorus | Potassium | Magnesium | Calcium | Sulfur | Zinc | Manganese | Copper | Iron | Boron | Aluminum | Molybdenum | Sodium |
|------------|------|--------|------------------|----------|------------|-----------|-----------|---------|--------|-----------|------------|-----------|------------|-----------|----------|------------|----------|
| 06/03/2024 | 404 | - | SoilBiotics X246 | 5.23 % | 0.34 % | 4.09 % | 0.23 % | 0.62 % | 0.33 % | 78.04 ppm | 126.11 ppm | 14.52 ppm | 216 ppm | 12.94 ppm | | 1.1 ppm | 0.27 ppm |
| | | | Control | 4.79 % | 0.37 % | 4.35 % | 0.23 % | 0.58 % | 0.32 % | 72.15 ppm | 91.04 ppm | 12.58 ppm | 189 ppm | 11.36 ppm | | 0.49 ppm | 0.84 ppm |
| 06/17/2024 | 693 | 1 in | SoilBiotics X246 | 4.79 % | 0.45 % | 3.52 % | 0.23 % | 0.59 % | 0.39 % | 34.47 ppm | 81.51 ppm | 15.22 ppm | 166.28 ppm | 23.58 ppm | | 0.98 ppm | 0.18 ppm |
| | | | Control | 5.09 % | 0.39 % | 3 % | 0.21 % | 0.44 % | 0.33 % | 29.7 ppm | 65.75 ppm | 13.15 ppm | 199.69 ppm | 22.08 ppm | | 0.95 ppm | 0.13 ppm |
| 07/01/2024 | 1022 | 2.1 in | SoilBiotics X246 | 3.7 % | 0.31 % | 2.16 % | 0.13 % | 0.27 % | 0.19 % | 32.48 ppm | 42.65 ppm | 7.64 ppm | 126.15 ppm | 17.05 ppm | | 0.63 ppm | 0.4 ppm |
| | | | Control | 3.87 % | 0.32 % | 2.31 % | 0.13 % | 0.28 % | 0.2 % | 31.64 ppm | 35.53 ppm | 9.06 ppm | 142.88 ppm | 14.36 ppm | | 0.89 ppm | 0.42 ppm |
| 07/15/2024 | 1336 | 3.9 in | SoilBiotics X246 | 3.55 % | 0.31 % | 1.89 % | 0.16 % | 0.48 % | 0.2 % | 30.61 ppm | 44.98 ppm | 10.09 ppm | 134.82 ppm | 9.69 ppm | | 0.88 ppm | 0.14 ppm |
| | | | Control | 4.01 % | 0.32 % | 2.11 % | 0.18 % | 0.44 % | 0.2 % | 24.34 ppm | 108.2 ppm | 9.46 ppm | 102.13 ppm | 15.55 ppm | | 0.99 ppm | 0.11 ppm |
| 07/29/2024 | 1611 | 1.2 in | SoilBiotics X246 | 3.6 % | 0.48 % | 2.37 % | 0.21 % | 0.54 % | 0.27 % | 32.06 ppm | 49.42 ppm | 12.27 ppm | 153.1 ppm | 12.09 ppm | | 1.01 ppm | 0.05 ppm |
| | | | Control | 3.7 % | 0.49 % | 2.7 % | 0.25 % | 0.6 % | 0.29 % | 39.12 ppm | 104.46 ppm | 13.04 ppm | 185.59 ppm | 16.91 ppm | | 0.87 ppm | 0.12 ppm |
| 08/12/2024 | 1919 | 0.5 in | SoilBiotics X246 | 3.81 % | 0.44 % | 2.25 % | 0.22 % | 0.6 % | 0.24 % | 26.36 ppm | 53.22 ppm | 12.23 ppm | 211.63 ppm | 15.52 ppm | | 0.66 ppm | 0.26 ppm |
| | | | Control | 3.8 % | 0.46 % | 2.32 % | 0.25 % | 0.62 % | 0.25 % | 27.41 ppm | 125.18 ppm | 12.84 ppm | 166.79 ppm | 16.3 ppm | | 1.14 ppm | 0.27 ppm |
| 08/26/2024 | 2187 | 1 in | SoilBiotics X246 | 3.01 % | 0.59 % | 2.46 % | 0.23 % | 0.62 % | 0.26 % | 25.67 ppm | 58.45 ppm | 15.28 ppm | 147.44 ppm | 18.2 ppm | | 0.71 ppm | 0.29 ppm |
| | | | Control | 3.33 % | 0.45 % | 2.96 % | 0.25 % | 0.59 % | 0.24 % | 25.55 ppm | 115.95 ppm | 13.89 ppm | 168.8 ppm | 19.57 ppm | | 1.11 ppm | 0.26 ppm |

Product Trial Report

Yield Results Data

High Level Yield Heat Map



This data was filtered based on -1 / +2.5 St Dev

| Yield Summary BPA | |
|-----------------------|--------|
| Location | Yield |
| X246 Trial | 238.58 |
| Control | 236.1 |
| Yield Response | 2.48 |

| Yield Values | |
|--------------|---------------|
| ● | 191.9 - 225.4 |
| ● | 225.5 - 235.4 |
| ● | 235.4 - 240.8 |
| ● | 240.8 - 246.9 |
| ● | 246.9 - 332.9 |

Product Trial Report

Product Trial Comments:

This trial had a +2.48 bushels/acre yield response using the -1/+2.5 Standard Deviation measurement method.

The Control had sequential applications of Veltyma applied at 7 oz./acre rate on 7/13 and 8/23

Flag Test Results

Trial - 28 emerged within 126 GDU's. 31 total within 137 GDU's

Control - 24 emerged within 126 GDU's. 33 total within 137 GDU's

Application Date and Details:

Application #1

Application Date: 5/11/24

Growth Stage: N/A

Application Method: In-Furrow

Product Application Rate/Acre (X246): 1 quart

Tank Mix Rate/Acre: 9 gallons

Application #2

Application Date: 6/4/24, 429 GDU's

Growth Stage: V3

Application Method: Foliar

Product Application Rate/Acre (X246): 2 quarts

Tank Mix Rate/Acre: 15 gallons

Application #3

Application Date: 6/24/24, 885 GDU's

Growth Stage: V10

Application Method: Foliar (Drone)

Product Application Rate/Acre (X246): 2 quarts

Tank Mix Rate/Acre: 2 gallons

Application #4

Application Date: 7/13/24, 1282 GDU's

Growth Stage: VT

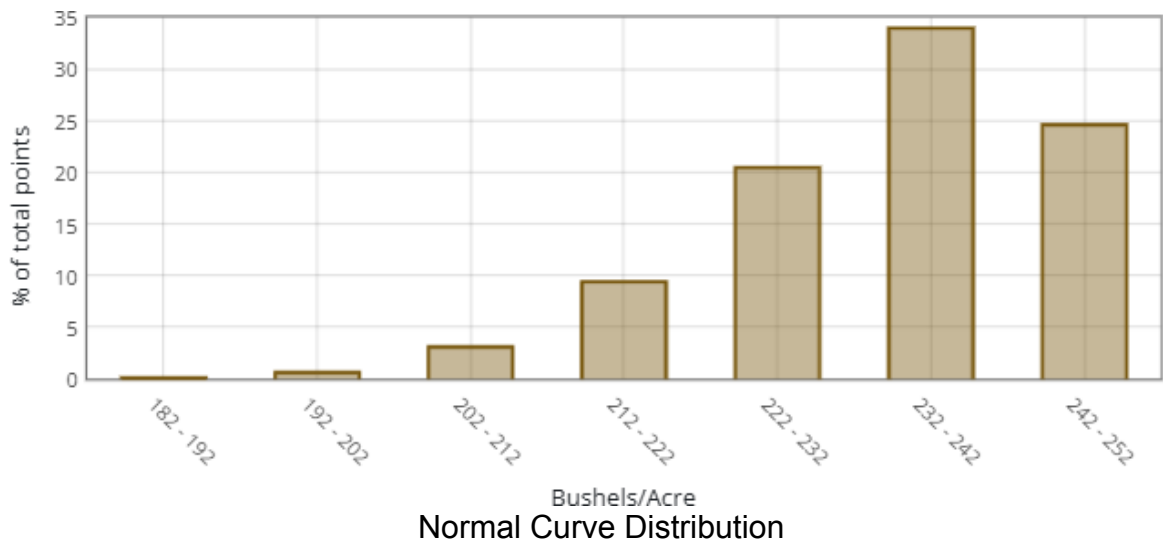
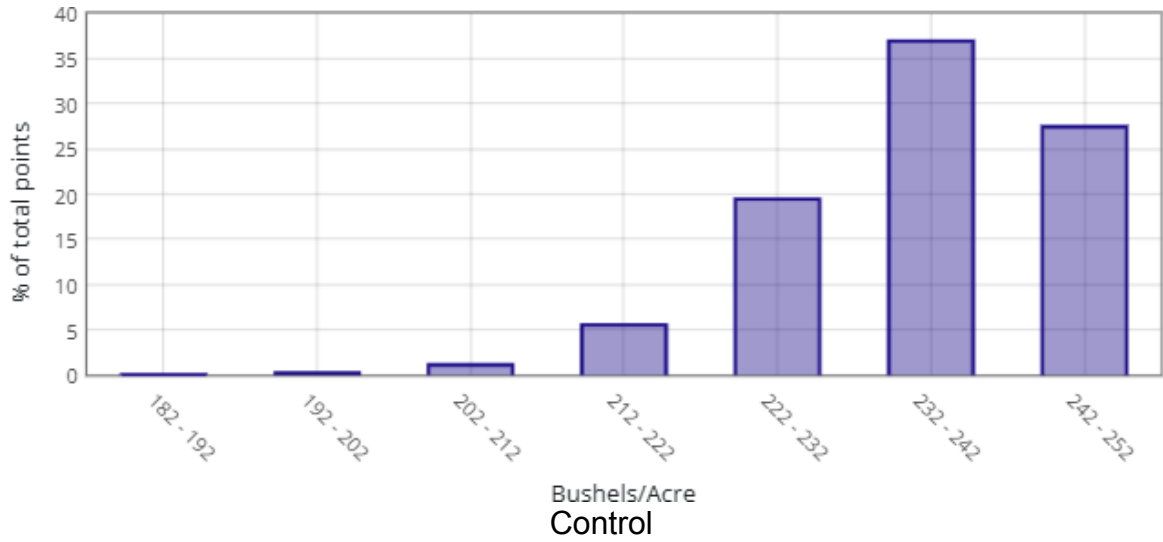
Application Method: Foliar (Drone)

Product Application Rate/Acre (X246): 2 quarts

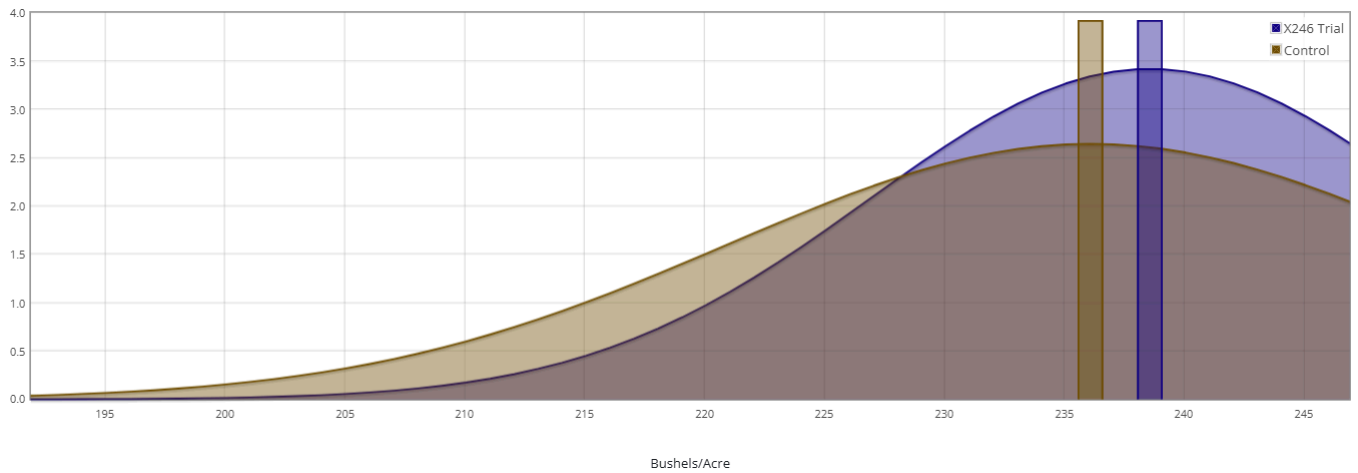
Tank Mix Rate/Acre: 2 gallons

Product Trial Report

X246 Trial



Normal Curve Distribution



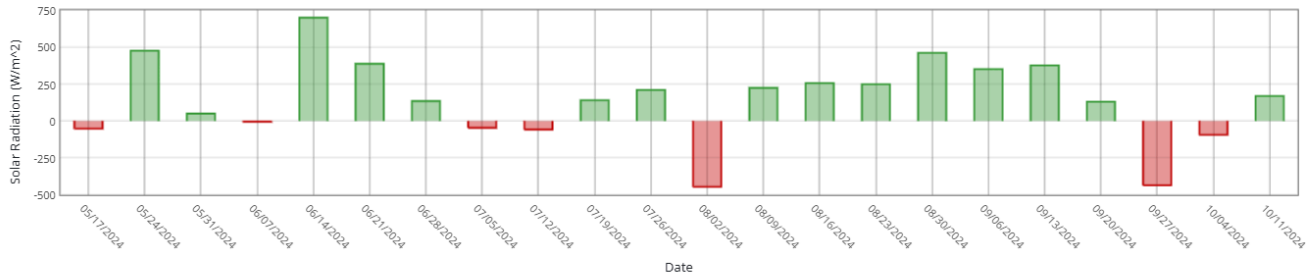
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Trial Location Weather Data vs 5 Yr Avg

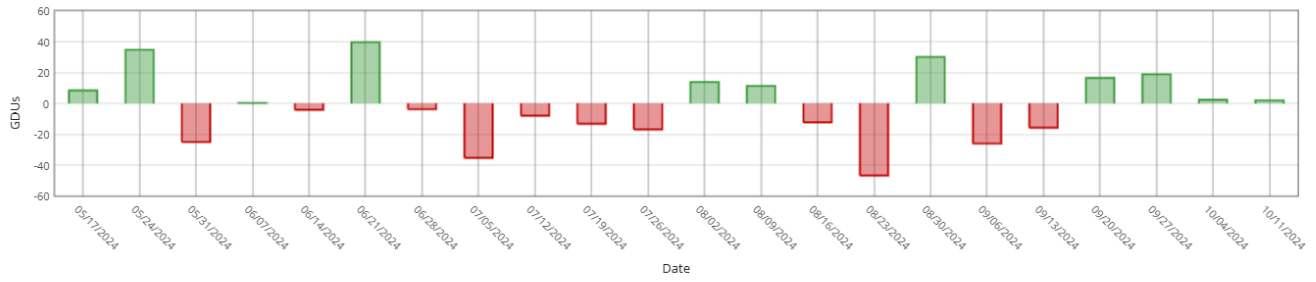
Historical Averages based on past years

Cumulative Week over Week

Sunlight



Heat (GDUs)



Rain

