

Product Trial Report

| GROWER DETAILS | FIELD DETAILS | PLANTING/HARVEST DETAILS | |
|--|--|--------------------------------------|--------------------------------|
| Grower: | Total Acres: 159.63 | Crop: Soybean | Report Date: 01/08/2024 |
| City & State: SHEFFIELD, IA | Soil Type: Please see Soil Type Map | Plant Date: 05/20/2023 | Harvest Year: 2023 |
| Zip Code: 50475 | Title: Spot Tile | Row Spacing: 30" | Crop: Soybean |
| | Irrigation: None | Planting Depth: 2.50 | Trial Name: DgradeR |
| | Fall Tillage: No Till | Harvest Date: 10/02/2023 | Trial Type: Preplant |
| | Spring Tillage: Strip Till | Variety: 2225E | |
| | | Seed Company: Merschman Seeds | |
| | | Population: 105000 | |

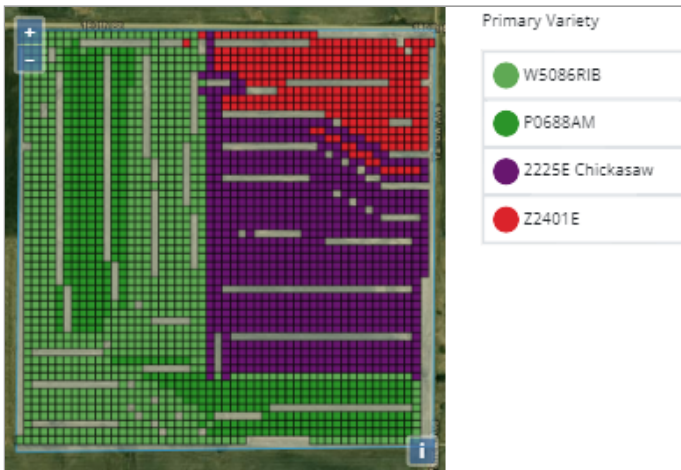
Field Map



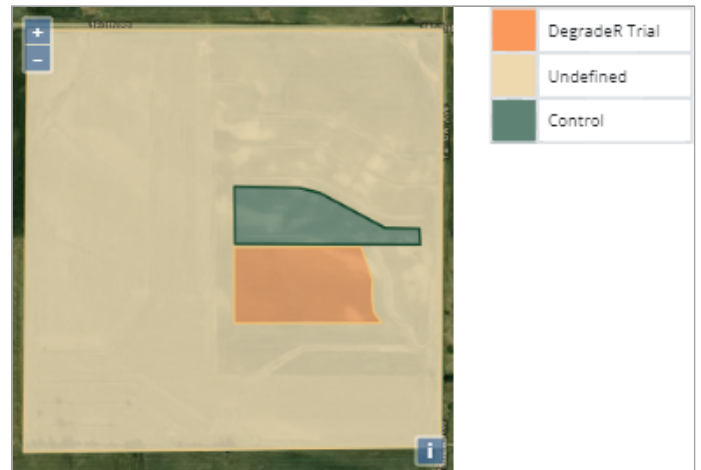
Soil Type



Planting Map



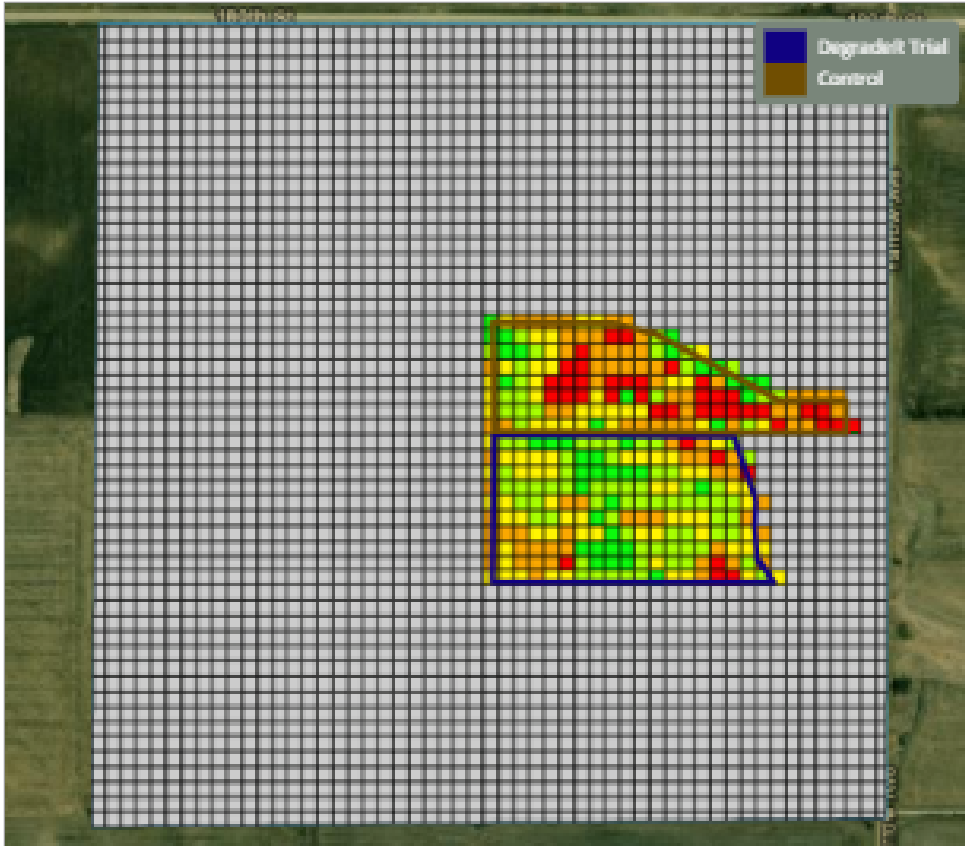
Trial Zones



Product Trial Report

Yield Results Data

High Level Yield Heat Map



| Yield Summary BPA | |
|-----------------------|--------------|
| <i>Location</i> | <i>Yield</i> |
| DegradeR Trial | 57.69 |
| Control | 50.54 |
| Yield Response | 7.25 |

| Yield Values | |
|--------------|-------------|
| ● | 19.5 - 42.5 |
| ● | 42.9 - 51.7 |
| ● | 51.7 - 58.6 |
| ● | 58.7 - 63.6 |
| ● | 63.6 - 83.1 |

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Product Trial Comments: This trial had a 7.15 bu./acre yield response. The empty part of the heat map was planted to corn. This trial experienced significant drought pressure during the reproductive and pod fill stages.

Per the satellite imagery at the bottom of this report, the DgradeR product drove a significantly higher amount of chlorophyll activity due to nutrients being released into the soil from residue breakdown

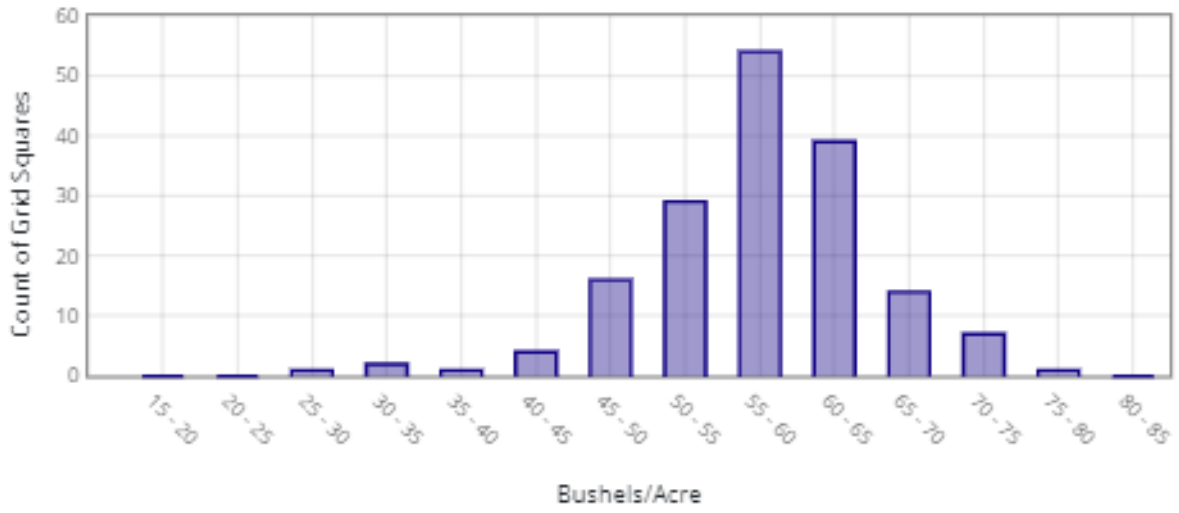
Application Date and Details:

Application Date - 5/24/23. 4 days after plant date

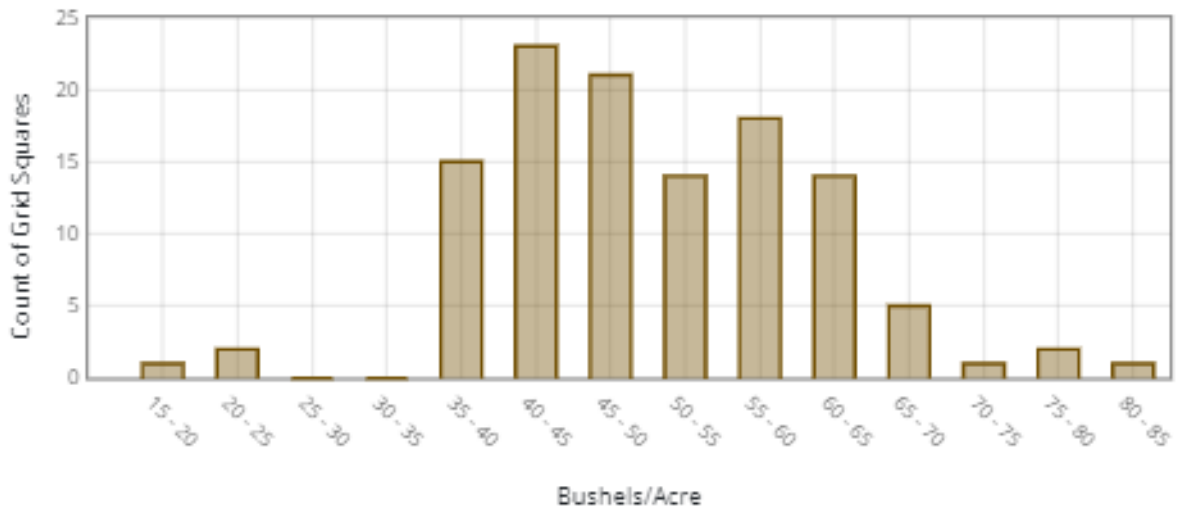
Application Rate/Acre - 48 oz. DgradeR with 2 lbs./acre Dry Spray Grade AMS Tank Mix Rate/Acre - 15 gallons

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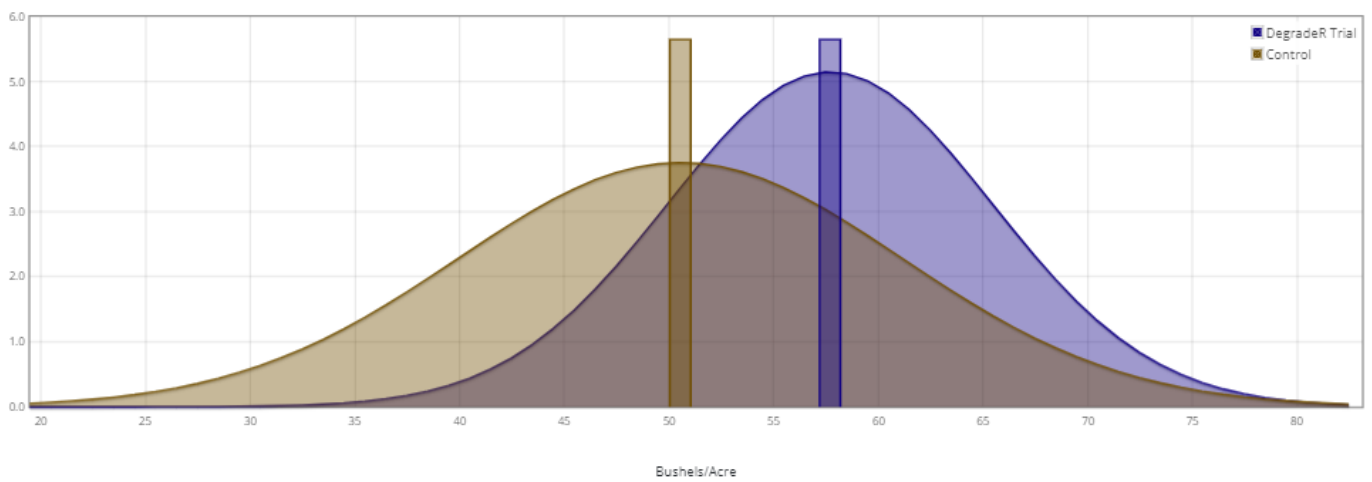
DegradeR Trial



Control



Normal Curve Distribution



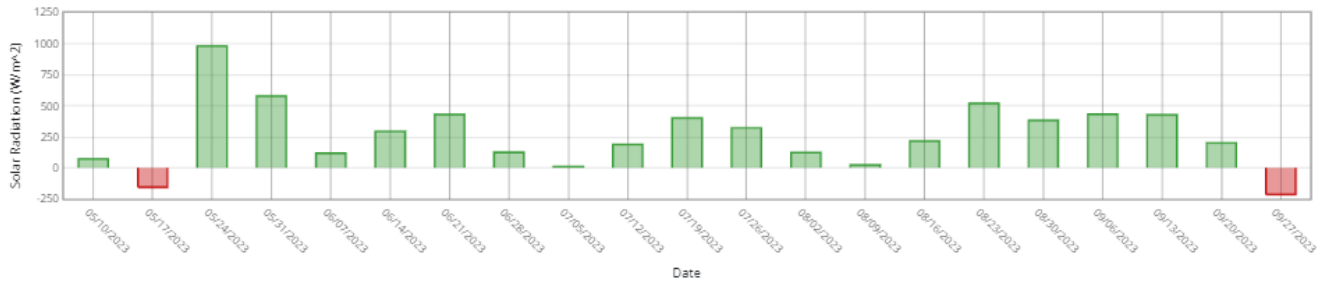
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Trial Location Weather Data vs 5 Yr Avg

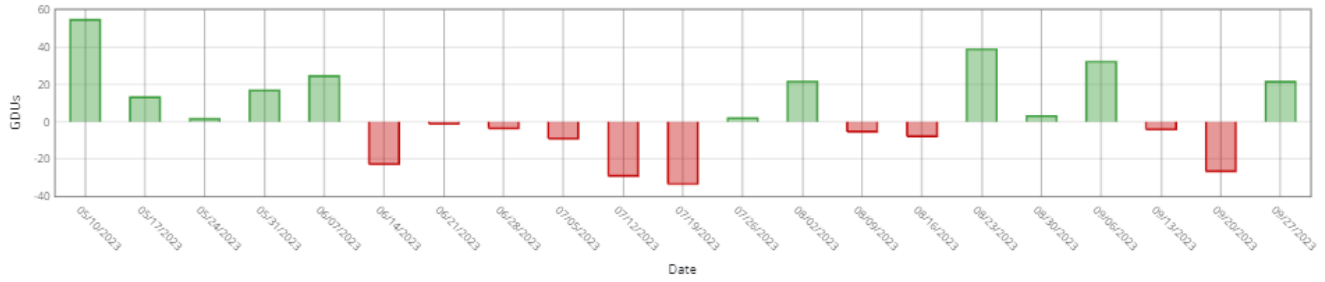
Historical Averages based on past years

Cumulative Week over Week

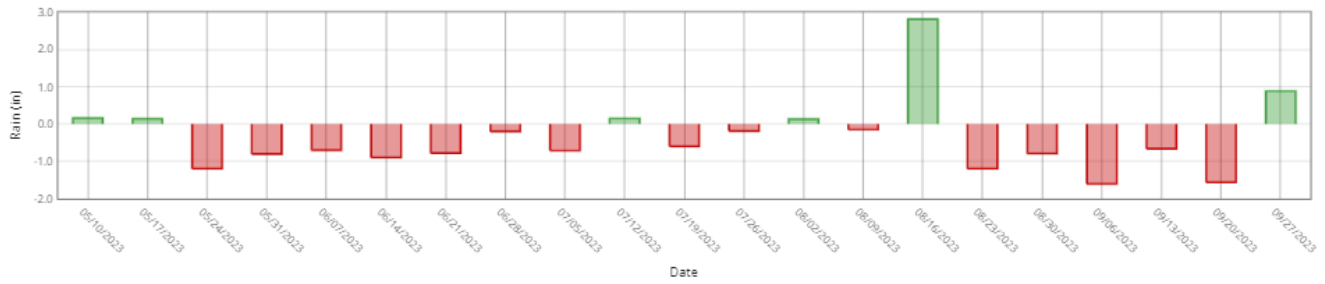
Sunlight



Heat (GDUs)



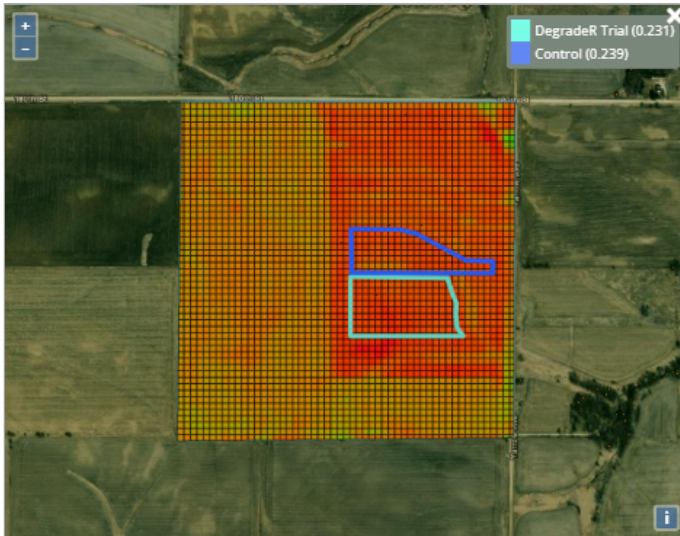
Rain



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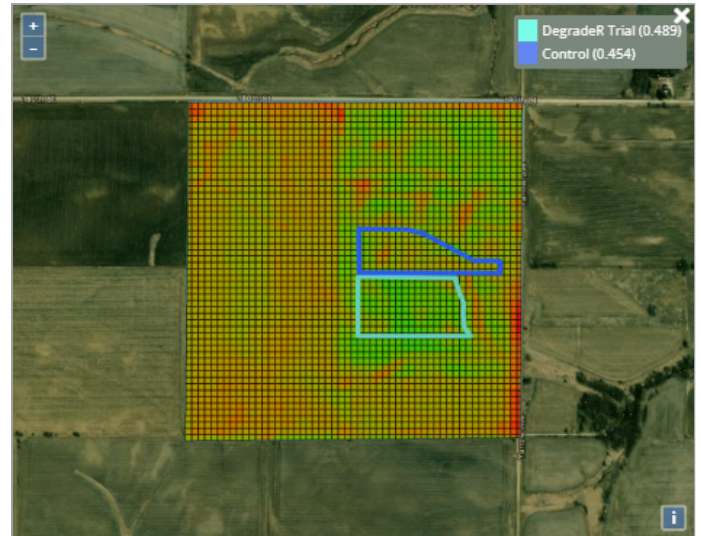
Additional References

Satellite Imagery - 06/20/2023 - Trial: SoilBiotics
DgradeR Trial - NDVI Green



This image on June 20th is to measure chlorophyll production. This image was taken 31 days after plant date (5/20/23) and 27 days after application date (5/24/23). The Trial measurement is -3.4% less than the control

Satellite Imagery - 08/29/2023 - Trial: SoilBiotics
DgradeR Trial - NDVI Green



This picture taken on August 29th, which was 70 days after the 1st satellite image. At this time, the Trial is now 7.7% better which is an outstanding 11.1% improvement from this June 20th measurement.