

## Impact of Soygreen® on Soybeans

**Study ID:** 0153101201904

**County:** Keith

**Soil Type:** Altvan-Dix complex 6-30% slopes;  
Satanta-Dix complex 3-9% slopes

**Planting Date:** 6/4/19

**Harvest Date:** 10/16/19

**Seeding Rate:** 140,000

**Row Spacing (in):** 30

**Variety:** Pioneer® P23A32X

**Reps:** 4

**Previous Crop:** Corn

**Tillage:** No-Till

**Herbicides:** *Pre:* 32 oz/ac Roundup® and 8 oz/ac 2,4-D *Post:* 32 oz/ac Roundup®, 15 oz/ac Authority®, and 32 oz/ac Select Max®

**Seed Treatment:** Gaucho® insecticide and Lumisena™ fungicide

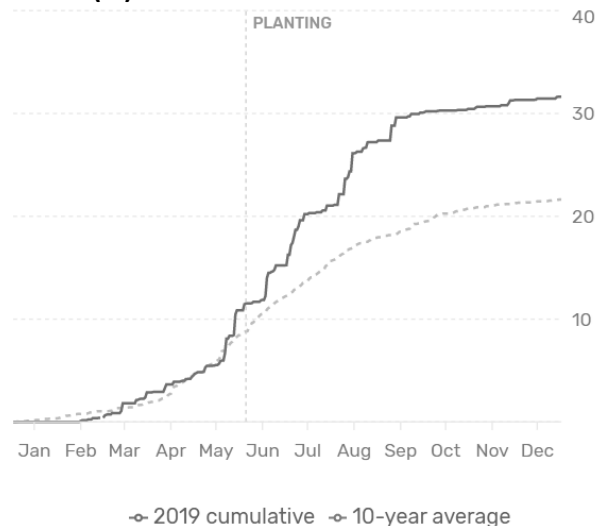
**Foliar Insecticides:** None

**Foliar Fungicides:** None

**Fertilizer:** None

**Irrigation:** Pivot, Total: 6.2"

**Rainfall (in):**



**Introduction:** Iron deficiency chlorosis (IDC) of soybeans is a common problem in fields with high pH levels (alkaline soils). Soygreen® is an iron chelate of ortho-ortho EDDHA form that can help make iron more available to plants. The field in this study has areas with high pH and is susceptible to IDC. In this study, Soygreen® was applied in a liquid formulation (1.8%) at a rate of 1 gal/ac and was compared to an untreated check.

### Results:

	Moisture (%)	Yield (bu/ac)†	Marginal Net Return‡ (\$/ac)
Check	8.3 A*	23 A	189.32 A
Soygreen®	8.4 A	24 A	165.83 B
P-Value	0.844	0.550	0.040

\*Values with the same letter are not significantly different at a 90% confidence level.

†Yield values are from cleaned yield monitor data. Bushels per acre adjusted to 13% moisture.

‡Marginal net return based on \$8.10/bu soybean and \$28/ac for Soygreen®.

### Summary:

- The use of Soygreen® did not increase soybean yield at this location.
- Yields at this site were limited due to hail.
- Marginal net return was lower where Soygreen® was used due to the additional product cost, which was not offset by increased yield.

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