

Impact of Kickoff® Fertilizer and Optify®/Stretch on Quality and Yield of Soybeans

Study ID: 218023201701

County: Butler

Soil Type: Hastings silty clay loam 3-7% slopes;

Crofton silt loam

Planting Date: 5/30/17

Harvest Date: 10/19/17

Population: 140,000

Row Spacing (in): 30

Variety: Asgrow 3432 Gen RR2Y

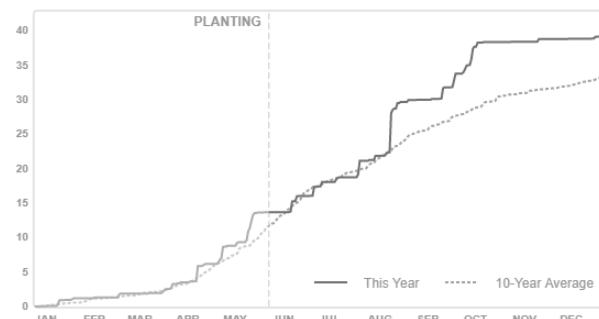
Reps: 4

Previous Crop: Corn

Seed Treatment: Batch #5 Acceleron®

Irrigation: None

Rainfall (in):



Introduction: The purpose of this study is to evaluate Kickoff® fertilizer and Optify®/Stretch applied in-furrow at planting. Kickoff was applied at a rate of 6 gal/ac and is comprised of 9-15-4, 3S, 0.5Zn, and 0.05 Mn. Actual nutrients supplied by this application are 5.8 lb N/ac, 9.7 lb P/ac, 2.6 lb K/ac, 1.9 lb S/ac, 0.32 lb Zn/ac, and 0.03 lb Mn/ac. Optify®/Stretch was applied at a rate of 8 oz/ac. Product ingredients for Optify®/Stretch are below.

Optify®/Stretch

INGREDIENTS

0.11% Complex Polymeric Polyhydroxy Acids (CPPA)
0.01% Cytokinin (as kinetin)

Product information from:
<https://www.winfieldunited.com/Product/Optify%C2%AE-Stretch/278>

Results:

	Yield (bu/acre)†	Protein (%)	Oil (%)	Weight (grams/100 seeds)
Check	64 A*	40.5 A	17.5 B	18 A
Kickoff Fertilizer	64 A	39.8 B	17.9 A	18 A
Kickoff Fertilizer + Optify/Stretch	68 A	40.3 AB	17.6 AB	18 A
P-Value	0.317	0.098	0.098	0.848

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

†Bushels per acre corrected to 13% moisture.

Summary:

- There was no yield or weight increase for using Kickoff® and Optify®/Stretch.
- The Kickoff® treatment had significantly lower protein and significantly higher oil than the check.
- Product prices were not available; therefore, no net return calculations could be completed.

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