

## Vigeo™ Growth Promoter on Soybeans

**Study ID:** 073081201702

**County:** Hamilton

**Soil Type:** Hastings silt loam 0-1% slope; Fillmore silt loam 0-1% slope; Detroit silt loam 0-1% slope; Hastings silt loam 1-3% slope

**Planting Date:** 5/26/17

**Harvest Date:** 10/25/17

**Population:** 125,000

**Row Spacing (in):** 30

**Variety:** A2814NLL

**Reps:** 4

**Previous Crop:** Corn

**Tillage:** No-Till

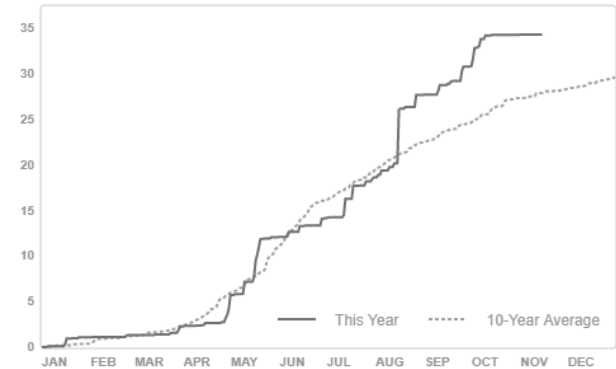
**Herbicides:** **Pre:** 3.2 oz/ac Authority® First, 2.5 fl oz/ac Blanket™, and 24 fl oz/ac Durango® on 5/27/17 **Post:** 24 oz/ac Liberty® and 5.12 oz/ac Targa™ on 6/20/17; 32 oz/ac Liberty® on 7/21/17

**Seed Treatment:** Cruiser Maxx®

**Note:** Light hail on the field

**Irrigation:** Pivot, Total: 2"

**Rainfall (in):**



**Introduction:** The objective of this study is to evaluate a plant growth regulator product, Vigeo™, applied at a rate of 6.67 oz/ac in-furrow. Product information is at right. Soybean yield was recorded using a yield monitor; yield data was cleaned prior to analysis (Table 1, Figure 1). Aerial imagery was collected in August to observe differences in plant vegetation. Aerial imagery was used to calculate the normalized difference vegetative index (NDVI). This index is indicative of overall plant biomass and greenness. True color imagery and NDVI are presented in Figure 2.

**Active Ingredients:**

Cytokinin (as kinetin) ..... 0.01%  
 Indole Butyric Acid ..... 0.005%  
 Gibberellic Acid (A<sub>3</sub>) ..... 0.004%

**Other Ingredients:** ..... 99.981%

**Total:** ..... 100.000%

<http://www.vividlifesci.com/wp-content/uploads/2017/05/Vigeo-250-gal-label-per-SAL-011317.pdf>

**Results:**

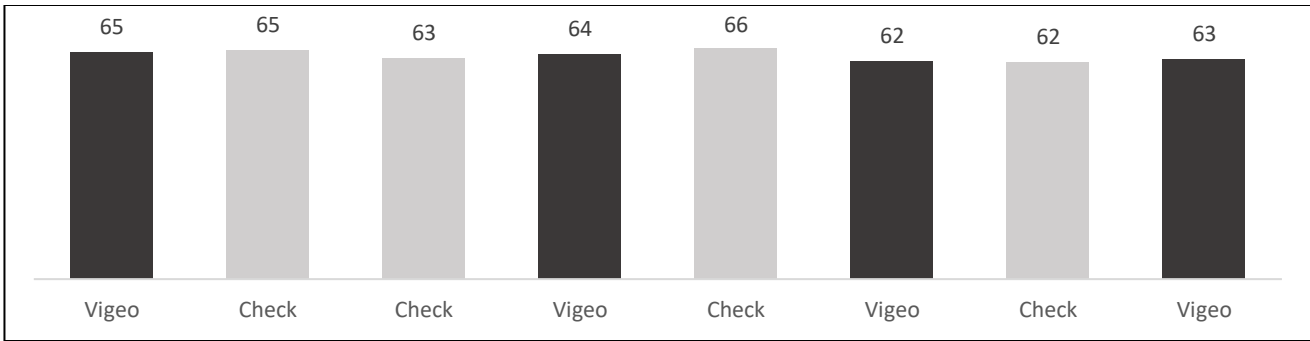
**Table 1.**

	Harvest Stand Count (plants/ac)	NDVI 8/28/17	Moisture (%)	Yield (bu/acre)†	Marginal Net Return‡ (\$/ac)
Check	98,750 A*	0.462 A	9.7 A	64 A	570.31 A
Vigeo	97,500 A	0.464 A	10.2 A	64 A	558.91 A
P-Value	0.239	0.362	0.260	0.653	0.233

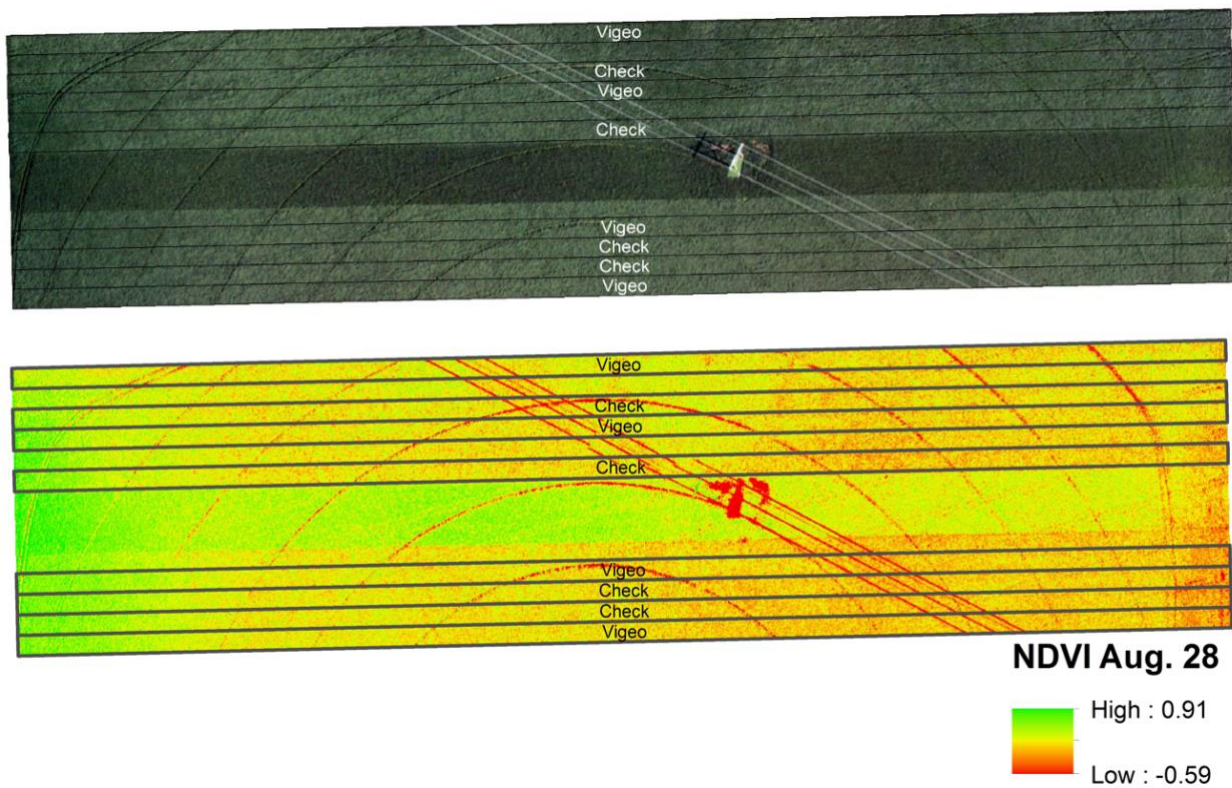
\*Values with the same letter are not significantly different at a 90% confidence level.

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

‡Marginal net return based on \$8.90/bu soybean and \$6.25/ac for Vigeo (application rate of 6.67 oz/ac and product cost of \$120/gal).



**Figure 1.** Yield average by treatment (bu/ac) across the field.



**Figure 2.** True color (red-green-blue) imagery (top) and NDVI (bottom) from August 28, 2017. For NDVI analysis, portions of the image, including the high power lines crossing the field, were excluded.

**Summary:** There were no differences in yield, moisture, stand count, or NDVI.

This study was sponsored in part by Vivid Life Sciences.

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