

# Impact of Commence® Seed Treatment on Soybean

Study ID: 0718185201804

County: York

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

Planting Date: 5/7/18 Harvest Date: 9/23/18 Population: 140,000 Row Spacing (in): 30

Variety: Pioneer® P31A22X

Reps: 5

Previous Crop: Seed Corn

Tillage: Ridge-Till

Herbicides: *Pre:* 1 qt/ac Brash® on 4/19/18, 5 oz/ac Authority® First and 22 oz/ac Roundup® on 5/7/18 with planting *Post:* 24 oz/ac Durango® and 1 pt/ac

Brawl™ on 6/8/18

Seed Treatment: Lumisena™, EverGol® Energy, and

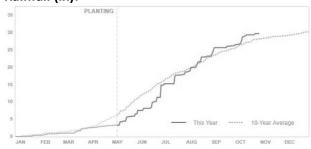
**PPST 2030** 

Foliar Insecticides: 5 oz/ac Hero® on 7/28/18 Foliar Fungicides: 5 oz/ac Preemptor™ on 7/28/18

Fertilizer: 125 lb/ac 11-52-0 in Nov. 2017

Irrigation: Pivot, Total: 1.5"

Rainfall (in):



# Soil Test (Oct. 2017) – 2 samples were taken in the study area:

Soil	Soluble	Excess	Organic	Nitrate	Nitrate	Mehlich	Ca-P	Ammonium Acetate									
pН	Salts 1:1	Lime	Matter	– N	lb N/A	P-III ppm	Sulfate	Zn	(ppm)			CEC	%	% Base Saturation			
1:1	mmho/cm	Rating	LOI %	ppm N	0-10"	P	ppm S	(ppm)	K	Ca	Mg	Na	me/100g	Н	K Ca	Mg	Na
6.8	0.15	NONE	3.5	0.5	2	24	10	1.08	359	2580	368	49	17.1	0	5 75	18	1
7.0	0.16	NONE	3.6	1.0	3	39	9	1.69	391	2544	293	42	16.3	0	6 78	15	1

**Introduction:** The purpose of this study was to evaluate the impact of Commence® seed treatment on soybeans. The product was applied at 4 oz/100 lb of seed. Product information is at right. Yield, grain moisture, stand counts, and marginal net return were determined for this study. Stand counts were collected post-harvest on 9/28/18.

#### **GUARANTEED ANALYSIS**

 Cobalt (Co)
 1.43%

 Copper (Cu)
 0.34%

 Iron (Fe)
 0.71%

 Manganese (Mn)
 0.46%

 Zinc (Zn)
 0.29%

**DERIVED FROM:** Cobalt Carbonate, Cobalt Sulfate, Copper (II) Carbonate, Iron (III) Oxide, Manganese (II) Oxide, Manganese (II) Sulfate, Zinc Carbonate, Zinc Sulfate

Product information from: Agnition®, Ralco Nutrition, Inc.

#### Results:

	Harvest Stand Count (plants/ac)	Moisture (%)	Yield† (bu/ac)	Marginal Net Return‡ (\$/ac)	
Check	99,400 A*	12.0 A	76.5 A	566.18 A	_
Commence	99,300 A	12.0 A	77.1 A	561.77 A	

Commence 99,300 A 12.0 A 77.1 A
P-Value 0.975 <0.0001 0.583

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

**Summary:** There were no differences in grain moisture, harvest stand counts, yield, or marginal net return between the Commence® treated seed and the check.

## Sponsored by:



†Bushels per acre adjusted to 13% moisture.

## In Partnership with:







0.592



<sup>‡</sup>Marginal net return based on \$7.40/bu soybean, \$7/ac Commence seed treatment, and \$2/ac seed treating.