

Impact of Commence® Seed Treatment on Corn

Study ID: 0803015201801

County: Boyd

Soil Type: Onita silt loam 0-1% slope; Reliance silt loam 2-6% slopes

Planting Date: 5/18/18

Harvest Date: 11/21/18, 11/22/18, 11/23/18

Population: 25,197

Row Spacing (in): 30

Hybrid: Dekalb® DKC52-61RIB

Reps: 26

Previous Crop: Soybean

Tillage: No-Till

Herbicides: **Pre:** 1.5 qt/ac Harness® Xtra and 32 oz/ac Roundup® **Post:** 0.5 fl oz/ac Armezon®, 3 pt/ac Warrant®, and 26 oz/ac Roundup®

Seed Treatment: Acceleron® Standard (fungicide and insecticide)

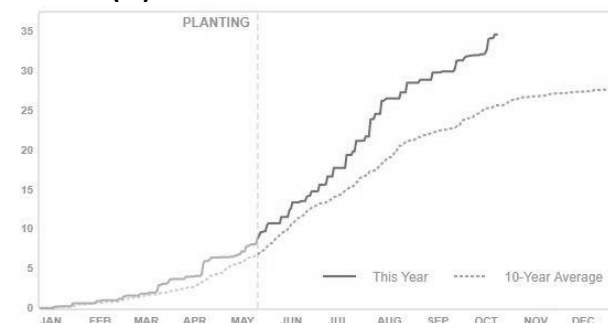
Foliar Insecticides: None

Foliar Fungicides: None

Fertilizer: 18.2 gal/ac 18-16-0-5S-0.5Zn starter (equal to 35 lb/ac N, 31 lb/ac P, 10 lb/ac S, 1 lb/ac Zn); sidedress (rescue) fertilizer of 30 gal/ac 30-0-0-3S (equal to 133 lb/ac N and 22 lb/ac S) applied due to wet conditions on 7/11/18

Irrigation: None

Rainfall (in):



Introduction: The purpose of this study was to evaluate Commence® seed treatment. Commence® was applied at a rate of 6 oz/100 lb of seed. Product information is at right.

GUARANTEED ANALYSIS

Cobalt (Co)..... 1.58%
Copper (Cu) 0.33%
Iron (Fe) 0.85%
Manganese (Mn)..... 0.49%
Zinc (Zn) 0.27%

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*

Results:

	Moisture (%)	Yield† (bu/ac)	Marginal Net Return‡ (\$/ac)
Check	14.1 A*	220 A	709.32 A
Commence Seed Treatment	14.2 A	222 A	707.61 A
P-Value	0.424	0.115	0.706

*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 15.5% moisture.

‡Marginal net return based on \$3.23/bu corn, \$7/ac for Commence seed treatment, and \$2/ac for seed treatment application.

Summary: There were no differences in moisture, yield, or net return between the Commence® seed treatment and untreated check.

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