

Impact of Commence® Seed Treatment on Corn

Study ID: 0085141201801

County: Platte

Soil Type: Boel fine sandy loam occasionally

flooded

Planting Date: 4/27/18 Harvest Date: 10/4/18 Population: 35,000 Row Spacing (in): 30 Hybrid: Dekalb® DKC 60-87

Reps: 29 (only 4 reps for stand counts)

Previous Crop: Corn **Tillage:** Ridge-Tilled Twice

Herbicides: *Pre*: 2 qt/ac Degree Extra®, 40 oz/ac Roundup®, and 6 oz/ac Sterling Blue® on 5/16/18 *Post*: 56 oz/ac Halex®, 1 pt/ac Atrazine, and 16

oz/ac Roundup® on 6/12/18

Seed Treatment: Acceleron® Basic 500

Foliar Insecticides: None

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.

Foliar Fungicides: Trivapro® on 7/16/18

Fertilizer: 100 lb/ac Urea, 50 lb/ac K-Mag® and 25 lb/ac Potash on 4/10/18; 5 gal/ac Kugler 6-24-6-1S with 1 pt/ac Micro Max® in-furrow and 5 gal/ac ATS and 5 gal/ac 32% UAN on 4/27/18; 160 lb/ac N

from NH3 sidedress on 6/4/18 **Irrigation:** Gravity, Total: 4"

Rainfall (in):



GUARANTEED	ANALYSIS
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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:

	Early Season Stand Count	Moisture	Yield†	Marginal Net Return‡
	(plants/ac)	(%)	(bu/ac)	(\$/ac)
Check	33,125 A*	17.5 A	257 A	831.29 A
Commence	32,875 A	17.3 B	258 A	825.26 B
P-Value	0.432	0.021	0.307	0.043

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

Summary:

- There was no difference in stand counts or yield between the Commence® treated seed and the nontreated check.
- The Commence® treated seed was drier than the non-treated check.
- The Commence® treatment resulted in lower marginal net return.

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[†]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 Commence seed treatment, and \$2/ac seed treating.