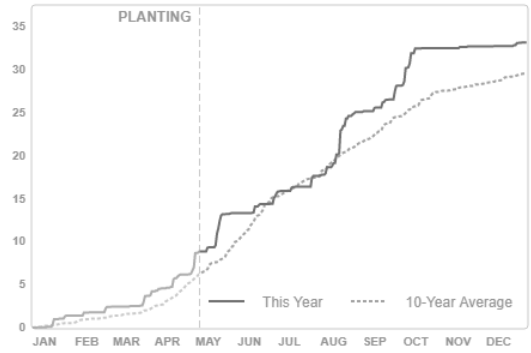
Impact of Commence® Seed Treatment at Planting on Corn Yield

Study ID: 726037201701
County: Colfax
Soil Type: Shell silt loam; Alcester silty clay loam; Moody silty clay loam
Planting Date: 5/4/17
Row Spacing (in): 30 (planted in twin rows)
Hybrid: Seitec 6433
Reps: 7
Previous Crop: Soybean
Tillage: No-Till
Herbicides: Trizar®, Roundup®, Instinct®, and Laudis®
Fertilizer: 150 lb N/ac from 32-0-0. 5 gal/ac 10-54-0 starter on 5/4/17.

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. See product information at right.

GUARANTEED ANALYSIS

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

Product information from: *Agniton*

Results:

	Early Season Stand Count	Moisture (%)	Yield (bu/acre)†	Marginal Net Return‡ ($/ac)
Check	28,191 A*	19.2 A	212 A	667.94 A
Commence Seed Treatment	25,119 B	19.1 A	211 A	659.83 A
P-Value	0.018	0.31	0.736	0.224

*Values with the same letter are not significantly different at a 90% confidence level.
†Bushels per acre corrected to 15.5% moisture.
‡Marginal net return based on $3.15/bu corn and $6/ac Commence Seed Treatment product and application cost.

Summary:

- Stand counts were taken early in the season. The grower treated the seed with Commence® the morning of the day he planted and had issues with seed not metering properly for the Commence® seed despite adding talc. This likely resulted in the lower early season stand counts and may have contributed to lack of yield response for the Commence® seed treatment.
- There was no difference in grain moisture or net return for Commence® treated seed versus the check.

This study sponsored in part by: Agnition

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