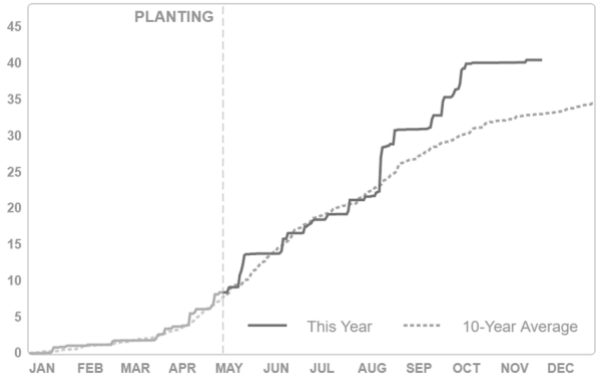
Impact of Commence® Seed Treatment at Planting on Corn Yield

Study ID: 007155201702
County: Saunders
Soil Type: Yutan, eroded-Aksarben silty clay loam 2-6% slopes; Judson silt loam 2-6% slopes; Yutan, eroded-Judson complex 6-11% slopes
Planting Date: 5/6/17
Harvest Date: 11/6/17
Population: 32,000
Row Spacing (in): 15
Hybrid: Channel 207-27VT2
Reps: 7
Previous Crop: Soybean
Tillage: No-Till
Herbicides: ***Pre:*** 32 oz/ac Buccaneer® Plus, 4.5 oz/ac Corvus®, 1 lb/ac Atrazine, and 1.5 gal/100 gal Liquid AMS on 4/11/17 ***Post:*** 24 oz/ac Buccaneer® 5, 3 oz/ac Laudis™, and 8.5 lb/100 gal dry AMS on 6/16/17
Seed Treatment: Acceleron® Basic
Foliar Insecticides: None
Foliar Fungicides: None
Fertilizer: 140 lb/ac N as 32% UAN on 5/7/17; Variable rate application of 11-52-0 in spring; 8 gal/ac 6-24-6 and 1 pt/ac chelated zinc with planting
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. Corn was planted into standing rye that was sprayed just prior to planting.

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: *Agnition*

Results:

	Stand Count	Moisture (%)	Yield (bu/acre)†	Marginal Net Return‡ ($/ac)
Check	29,600	15.3 A*	182 B	571.70 A
Commence Seed Treatment	31,600	15.4 A	187 A	581.96 A
P-Value	-	0.172	0.040	0.150

*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 for Commence seed treatment and application cost.

Summary:

- Stand counts were taken mid-season. They were not taken for each replication, so no statistics were conducted.
- There was no difference in grain moisture for Commence® treated seed versus the check.
- The corn treated with Commence® seed treatment yielded 5 bu/ac higher than the untreated check.

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