

## Impact of Commence® Seed Treatment on Corn

**Study ID:** 0007155201803

**County:** Saunders

**Soil Type:** Yutan, eroded-Aksarben silty clay loam 2-6% slopes; Yutan, eroded-Judson complex 6-11% slopes; Aksarben silty clay loam 0-2% slope

**Planting Date:** 5/5/18

**Harvest Date:** 11/2/18

**Population:** 30,000

**Row Spacing (in):** 15

**Hybrid:** Channel® 209-53STX

**Reps:** 11

**Previous Crop:** Soybean

**Tillage:** No-Till

**Herbicides: Pre:** 36 oz/ac Buccaneer® 5 and 8.5 lb/100 lb dry AMS on 5/1/18 to terminate rye cover crop; 4.5 oz/ac Corvus® and 1 lb/ac Atrazine on 5/9/18 **Post:** 24 oz/ac Buccaneer® 5, 8.5 lb/100 gal dry AMS, 3 oz/ac Mesotrione, and 5 gal/1,200 gal crop oil concentrate on 6/6/18

**Soil Test (Oct. 2018) average of 17 sample points in field:**

Soil pH	Buffer pH	OM	Bray 1 P	K	Mg	Ca	Na	S	Zn	CEC	H	K	Mg	Ca	Na
		%			ppm								%		
6.4	6.7	2.9	25.4	254.5	373.5	2506.9	11.2	4.9	1.4	19.3	15.9	6.8	29.7	47.4	0.2

**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.

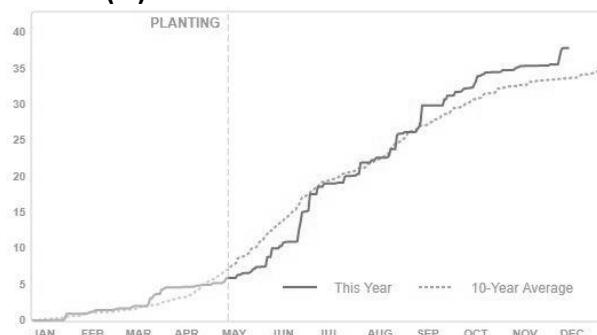
**Seed Treatment:** Acceleron® Basic 500

**Foliar Fungicides:** 13.7 oz/ac Trivapro® fungicide with 2 oz/ac WETCIT®

**Fertilizer:** 170 lb/ac N as 32% UAN and 1 gal/ac Humate on 5/9/18; 7 gal/ac 6-24-6 and zinc in furrow at planting

**Irrigation:** None

**Rainfall (in):**



### 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 (III) Sulfate, Zinc Carbonate, Zinc Sulfate

### Results:

	Early Season Stand Count (plants/ac)	Moisture (%)	Yield† (bu/ac)	Marginal Net Return‡ (\$/ac)
Check	31,456 A*	14.7 A	260 A	838.03 A
Commence	30,928 A	14.8 A	253 B	808.95 B
P-Value	0.541	0.422	<0.0001	<0.0001

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

†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 treating.

Product information from: *Agnition*

**Summary:**

- There were no differences in stand counts or grain moisture between the Commence® treated seed and the untreated check.
- The Commence® seed treatment was significantly lower yielding and lower in net return than the untreated check.

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