

Impact of Commence® Seed Treatment on Corn

Study ID: 0007155201804

County: Saunders

Soil Type: Kenridge silty clay loam occasionally flooded; Yutan, eroded-Judson complex 6-11% slopes; Judson silt loam 2-6% slopes

Planting Date: 5/5/18

Harvest Date: 11/1/18

Population: 32,000

Row Spacing (in): 15

Hybrid: Channel® 209-53STX

Reps: 9

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 5/7/18 **Post:** 24 oz/ac Buccaneer® 5, 8.5 lb/100 lb dry AMS, 3 oz/ac mesotrione, and 5 gal/1,200 gal crop oil concentrate on 6/5/18

Soil Test (Jan. 2015 40 samples, averaged over study area):

pH	BpH	OM	P	K	S	Ca	Mg	Na	Zn	CEC	%Na
		%				ppm					
6.1	6.8	2.4	31	313	31	2330	353	17	0.9	18.5	1.3

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 5/7/18; 7 gal/ac 6-24-6 and zinc in-furrow at 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.

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:

	Early Season Stand Count (plants/ac)	Moisture (%)	Yield† (bu/ac)	Marginal Net Return‡ (\$/ac)
Check	30,447 A*	13.4 A	225 B	725.44 A
Commence	30,705 A	13.4 A	227 A	725.24 A
P-Value	0.816	0.681	0.055	0.961

*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 Commence seed treatment, and \$2/ac seed treating.

Summary:

- There were no differences in stand counts or grain moisture between the Commence® treated seed and the untreated check.
- The Commence® treated seed yielded 2.7 bu/ac greater than the untreated check.
- There were no differences in marginal net return.

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