

Impact of Commence® Seed Treatment on Soybean

Study ID: 0007155201802

County: Saunders

Soil Type: Wann fine sandy loam occasionally flooded; Gibbon silt loam occasionally flooded; Boel loamy fine sand occasionally flooded; Lex loam occasionally flooded

Planting Date: 5/10/18

Harvest Date: 10/21/18

Population: 140,000

Row Spacing (in): 15

Hybrid: Stine® 26LH02

Reps: 8

Previous Crop: Corn

Tillage: No-Till

Herbicides: **Pre:** 3 oz/ac Valor® XLT, 0.5 pt/ac 2,4-D 6#, 18 oz/ac Buccaneer® 5, and 8.5 lb/100 gal dry AMS on 4/20/18 **Post:** 32 oz/ac Liberty®, 3 lb/ac dry AMS, and 5.33 oz/ac Volunteer® on 6/19/18

Seed Treatment: Insecticide and ILeVO®

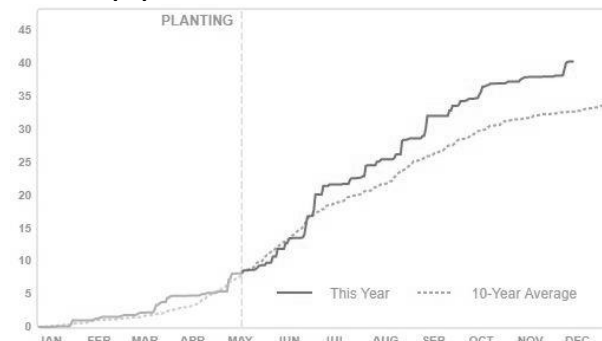
Foliar Insecticides: 3.2 oz/ac lambda-cyhalothrin on 8/9/18

Foliar Fungicides: 4 oz/ac Priaxor®

Fertilizer: 11-52-0 variable rate application and 1 gal/ac Humate

Irrigation: None

Rainfall (in):



Soil Test (Jan. 2015 – 44 samples averaged over the study area):

	pH	BpH	OM %	P	K	S	Ca	Mg	Na	Zn	CEC	%Na
Min	5.2	6.8	0.7	10	94	12	795	107	10	0.7	5	1
Max	7.7	7.1	3.7	76	481	42	4670	429	31	4.7	28	1
Avg	7.1	7.1	1.8	22	294	23	2676	309	21	1.4	17	1

Introduction: The purpose of this study was to evaluate Commence® seed treatment on soybeans. Commence® was applied at a rate of 4 oz/100 lb of seed. Product information is at right.

GUARANTEED ANALYSIS

Cobalt (Co)..... 1.43%
Copper (Cu) 0.34%
Iron (Fe)..... 0.71%
Manganese (Mn)..... 0.46%
Zinc (Zn) 0.29%

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: *Agitation*

Results:

	Moisture (%)	Yield† (bu/acre)	Marginal Net Return‡ (\$/ac)
Check	9.8 A*	59 A	438.73 A
Commence®	9.7 A	59 A	428.30 A
P-Value	0.685	0.890	0.394

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

†Bushels per acre adjusted to 13% moisture.

‡Marginal net return based on \$7.40/bu soybean, \$7/ac Commence seed treatment, and \$2/ac seed treating.

Summary:

- There were no differences in moisture, yield, and net return between the Commence® treated seed and the check.

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