

N EXTENSION
Nebraska On-Farm Research Network

Commence® Seed Treatment on Soybeans

Study ID: 114023201501

County: Butler

Soil Type: Hastings silt loam; Butler silt loam; Hastings silty clay loam; Hobbs silt loam;

Planting Date: 6/2/15

Harvest Date: 10/24/15

Tillage: No-Till

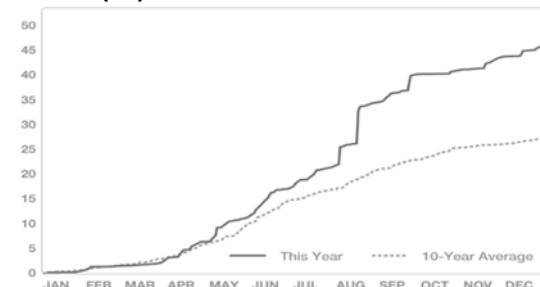
Row Spacing (in.) 36

Hybrid: Mycogen 5N284R2

Reps: 8

Irrigation: yes, Total: unknown, rainy year, only some irrigation applied

Rainfall (in.):



Introduction: This study was looking at Commence® seed treatment applied to soybeans. The product was applied at 2 oz/50 lbs of seed. Product cost was \$6/ac and application of the product was \$2/ac. This product was a stand-alone application on soybeans. Product information is at right.

GUARANTEED ANALYSIS

	PLANT NUTRIENT DERIVED FROM:
Cobalt (Co).....	Cobalt Carbonate, Cobalt Sulfate
Copper (Cu)	Copper (II) Carbonate, Iron (III) Oxide, Manganese (II) Oxide, Manganese (II) Sulfate, Zinc (Zn)
Iron (Fe)	Iron (III) Oxide, Manganese (II) Oxide, Zinc Carbonate, Zinc Sulfate
Manganese (Mn).....	
Zinc (Zn)	

PLANT NUTRIENT DERIVED FROM:

Cobalt (Co).....	Cobalt Carbonate, Cobalt Sulfate
Copper (Cu)	Copper (II) Carbonate, Iron (III) Oxide, Manganese (II) Oxide, Manganese (II) Sulfate, Zinc (Zn)
Iron (Fe)	Iron (III) Oxide, Manganese (II) Oxide, Zinc Carbonate, Zinc Sulfate
Manganese (Mn).....	
Zinc (Zn)	

Product information from:

http://www.kellysolutions.com/erenewals/documentsubmit/KellyData/ND%5CFertilizer%5CProduct%20Label%5CCommence_for_Soybeans_9_1_2015_10_52_24_AM.pdf

Results:

Note: Plots were not randomized therefore conclusions should not be extrapolated beyond this field.

	Stand Count		Height (in.)					
	June 25	June 25	July 7	July 13	July 21	July 31	Aug 12	
Check	147,696 A		3.6 A	6.4 A	8.9 A	14.9 A	21.1 A	32.7 A
Commence 8 oz/ac	148,807 A		3.5 A	6.4 A	9.2 A	15.3 A	21.4 A	33.6 A
P-Value	0.7408		0.8317	0.6504	0.1681	0.2713	0.4578	0.1463

	Trifoliate Nodes					
	June 25	July 7	July 13	July 21	July 31	Aug 12
Check	2 A	5 A	6 A	8 A	10 A	13 A
Commence 8 oz/ac	2 A*	4 A	6 A	8 A	10 A	13 A
P-Value	0.4424	0.8682	0.1094	0.6586	0.2086	0.6291

	Pods/plant	Chlorophyll	Yield	Protein	Oil (%)	Weight	Marginal
	Aug 12	Meter	(bu/ac)†	(%)	(g/100 seeds)	Net Return	(\$/ac)‡
Check	31 A	39.1 A	60 A	43.2 A	18.7 A	16 A	534.00
Commence 8 oz/ac	32 A	39.0 A	60 A	43.1 A	18.5 A	16 A	526.00
P-Value	0.5033	0.7999	0.2634	0.3807	0.6058	0.1702	N/A

†Bushels per acre corrected to 13% moisture.

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

‡Net Return based on \$8.90/bu soybeans and \$8/acre Commence seed treatment and application cost.

Summary: There was no height, trifoliate node, stand count, pods per plant, chlorophyll reading, yield, % protein, % oil, or seed weight differences between the two treatments.



In Partnership with:

