

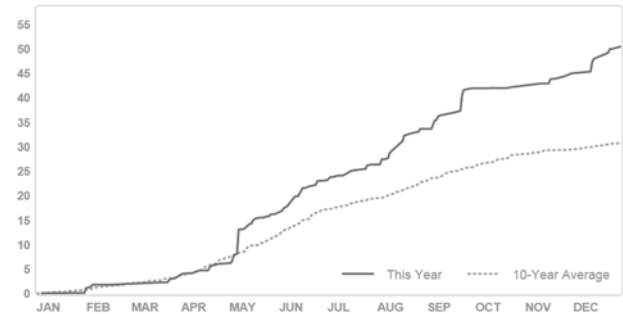


# Nebraska On-Farm Research Network

## Commence® Seed Treatment on Soybeans

**Study ID:** 221109201501  
**County:** Lancaster  
**Soil Type:** Crete silty clay loam; Kennebec silt loam; Colo silty clay loam;  
**Planting Date:** 6/9/15  
**Harvest Date:** 10/15/15  
**Row Spacing (in.)** 30  
**Hybrid:** Pioneer 31T11R  
**Reps:** 7 (Yield was only measured for 4 reps)  
**Previous Crop:** Corn  
**Tillage:** No-Till  
**Herbicides:** *Pre:* unknown *Post:* 12.8 oz/ac FlexStar 12.8, 36 oz/ac RoundUp PowerMax, 1 qt/ac TailWind, 2 qt/100 gal FinishLine, and

Navigator 3% on 6/30/15 at 15 gpa shortly after the 1st trifoliolate stage.  
 Note: part of field had areas that were underwater due to storms.  
**Irrigation:** None  
**Rainfall (in.):**



### Soil Sample:

Soil pH	Modified WDRF BpH	Soluble Salts 1:1 mmho/cm	Excess Lime Rating	OM LOI-%	FIA Nitrate ppm N	0-8" Nitrate Lbs N/A	M-P3 ppm P	Ammonium Acetate ppm				Ca-P Sulfate ppm S	DTPA ppm				Hot Water Boron ppm B	Sum of Cations me/100g	% Base Saturation				
								K	Ca	Mg	Na		Zn	Fe	Mn	Cu			H	K	Ca	Mg	Na
5.5	6.4	0.41	NONE	4.2	30.5	73	47	364	2763	654	70	13	1.63	138.7	20.3	1.53	1.05	26.1	21	4	53	21	1

**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).....	1.90%	Cobalt Carbonate,	Cobalt Sulfate,
Copper (Cu).....	0.45%	Copper (II) Carbonate,	Iron (III) Oxide,
Iron (Fe).....	0.94%	Manganese (II) Sulfate,	Zinc Carbonate,
Manganese (Mn).....	0.61%	Zinc Sulfate	
Zinc (Zn).....	0.38%		

Product information from:  
[http://www.kellysolutions.com/erenewals/documentssubmit/KellyData/ND%5CFertilizer%5CProduct%20Label%5CCommence\\_for\\_Soybeans\\_9\\_1\\_2015\\_10\\_52\\_24\\_AM.pdf](http://www.kellysolutions.com/erenewals/documentssubmit/KellyData/ND%5CFertilizer%5CProduct%20Label%5CCommence_for_Soybeans_9_1_2015_10_52_24_AM.pdf)

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

	Early Season Stand Counts		Height (in.)				
	June 22	July 1	July 1	July 13	July 23	July 30	Aug 13
Check	132,049 A*	137,401 A	3.2 A	7.1 A	14.1 A	20.0 A	28.3 A
Commence 8 oz/ac	133,729 A	135,596 A	3.3 A	7.2 A	14.4 A	20.0 A	29.2 A
<i>P-Value</i>	0.6891	0.4918	0.536	0.6572	0.3463	0.9956	0.4913

	Trifoliolate Nodes				
	July 1	July 13	July 23	July 30	Aug 13
Check	2 A	5 A	7 A	9 B	13 A
Commence 8 oz/ac	2 A	5 A	8 A	10 A	14 A
<i>P-Value</i>	0.9288	0.7046	0.831	0.0998	0.2819

	Pods/plant July 13	Chlorophyll Meter Aug 13	Yield (bu/ac)†	Oil (%)	Protein (%)	Marginal Net Return (\$/ac)‡
Check	39 A	38.6 A	80 A	20.1 A	39.7 A	712.00
Commence 8 oz/ac	39 A	38.4 A	82 A	20.0 A	40.0 A	721.80
<i>P-Value</i>	<i>0.9938</i>	<i>0.5298</i>	<i>0.3534</i>	<i>0.4586</i>	<i>0.4723</i>	<i>N/A</i>

†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 \$8.00/ac Commence treatment.

**Summary:** Untreated seed had fewer trifoliolate nodes on June 30. There were no height, stand counts, pots/plant, chlorophyll, % oil, % protein, or yield differences between the Commence® seed treatment and the untreated check.



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