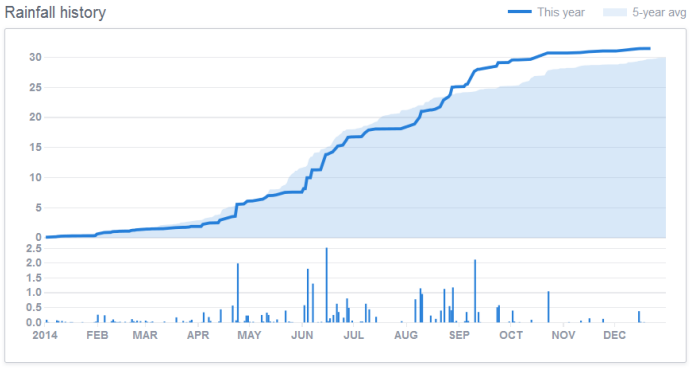
Nebraska On-Farm Research Network

Comparing Two Starter Fertilizers on Soybeans

Study ID: 019121201401
County: Merrick
Soil Type: Novina sandy loam
Planting Date: 5/14/2014
Harvest Date: unknown
Population: 162,000 seeds/ac
Row Spacing: 30”
Hybrid: ND S28-U7
Reps: 4
Previous Crop: Corn
Tillage: Strip till
Herbicides:
Pre: 2.8 oz/ac Enlite, 0.5 oz/ac, and32 oz/ac Durango on 5/23/14
Post: 32 oz/ac Durango on 7/30/14
48 oz/ac Durango on 6/25/14
0.3 oz/ac FirstRate and 6 oz/ac Targa on 6/23/14

Insecticides/Fungicides: Cruiser Max Advanced and Vibrance Inoculant Optimizer Seed Treatments.
6 oz/ac Capture LFR and 10.5 oz/ac Quilt Xcel on 7/30/14
Fertilizer: 80 lbs/ac 11-52-0, 50 lb/ac Potash, 50 lb/ac K-Mag, and 1 lb/ac Zinc sulfate broadcast on 4/14/14
10 gal 4-10-10 with strip till on 5/2/14
10 gal/ac thio-sulfate 12-0-0-26 side dress on 7/8/14
Irrigation: Pivot-amounts unknown
Note: Hailed June 3, 2014 at V2-V3 growth stage



Soil Test: Average soil test values for this field are shown in the table below.

	pH	BpH	OM	Nitrate	P	K	S	Ca	Mg	Na	Zn	Fe
			-%-	----------ppm----------								
Average	6.76	6.58	1.93	14.53	32.70	268.58	12.30	1724.80	257.78	33.05	2.15	33.67

Introduction: In this study, the grower looked at the effect of two starter products on soybean yield and economics compared to an untreated check. The first starter product was Conklin starter (8-16-11-2) applied at 1 gal/ac. The second starter product was Aurora starter applied at 1 gal/ac (proprietary product containing an ortho based iron – analysis not available). Both were applied at planting.

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Results:

	Yield† (bu/acre)	Net Return ‡
Check	76 B*	$760.00
Conklin	77 B	$763.10
Aurora	78 A	$768.50
P-Value	*0.0117*	--

†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 $10/bu soybean price, $6.90/gal Conklin Starter, $11.50/gal Aurora Starter

Summary: Results showed no statistical difference in soybean yield between the Conklin starter and the untreated check. The Aurora starter was significantly higher yielding than both the check and Conklin starter.

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