



Nebraska On-Farm Research Network

Years: 2012
Title: Plant Population
Crop: Corn
Study ID: 029053201201
County: Dodge
Objective: To determine & document the effect on plant population on the profitability of corn production.
Treatments: 28k vs 32k

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Information: 2012

Corn Population

Planted: 4/22/12

Harvested: 9/4/12

Hybrid - DKC 6383 - Rainfed

Gal/A 32% UAN 28

Gal/A 10-34-0 5.7

Preplant Herbicides

Balance Flexx 4.7oz/A

Aatrex 4L .3 gal/A

2,4-D LVE (6) .67 pt/A

Post Herbicides

Laudis 3 oz/A

Cornerstone .25 gallon/A

Ammonium sulfate 2.6 lb/A

Aug. 17 image of the lodging in population plot. The lightest areas were flat on the ground. The bluish areas were standing, but had essentially zero leaf area. The red areas still had some leaf area. (see next slide)

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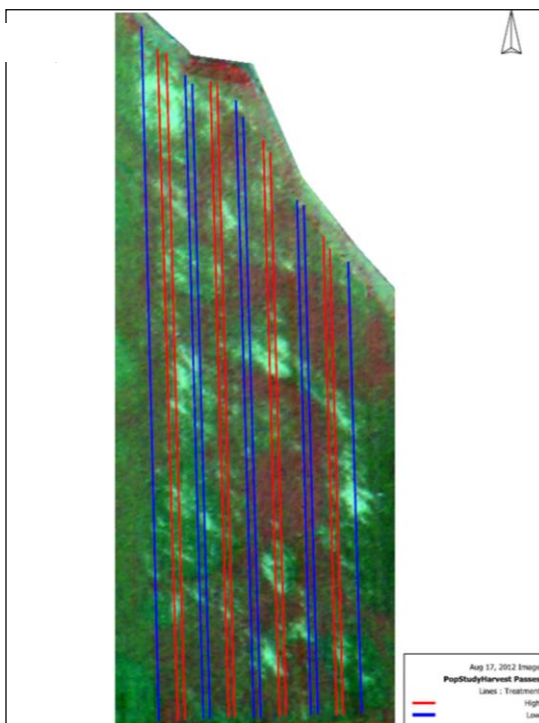


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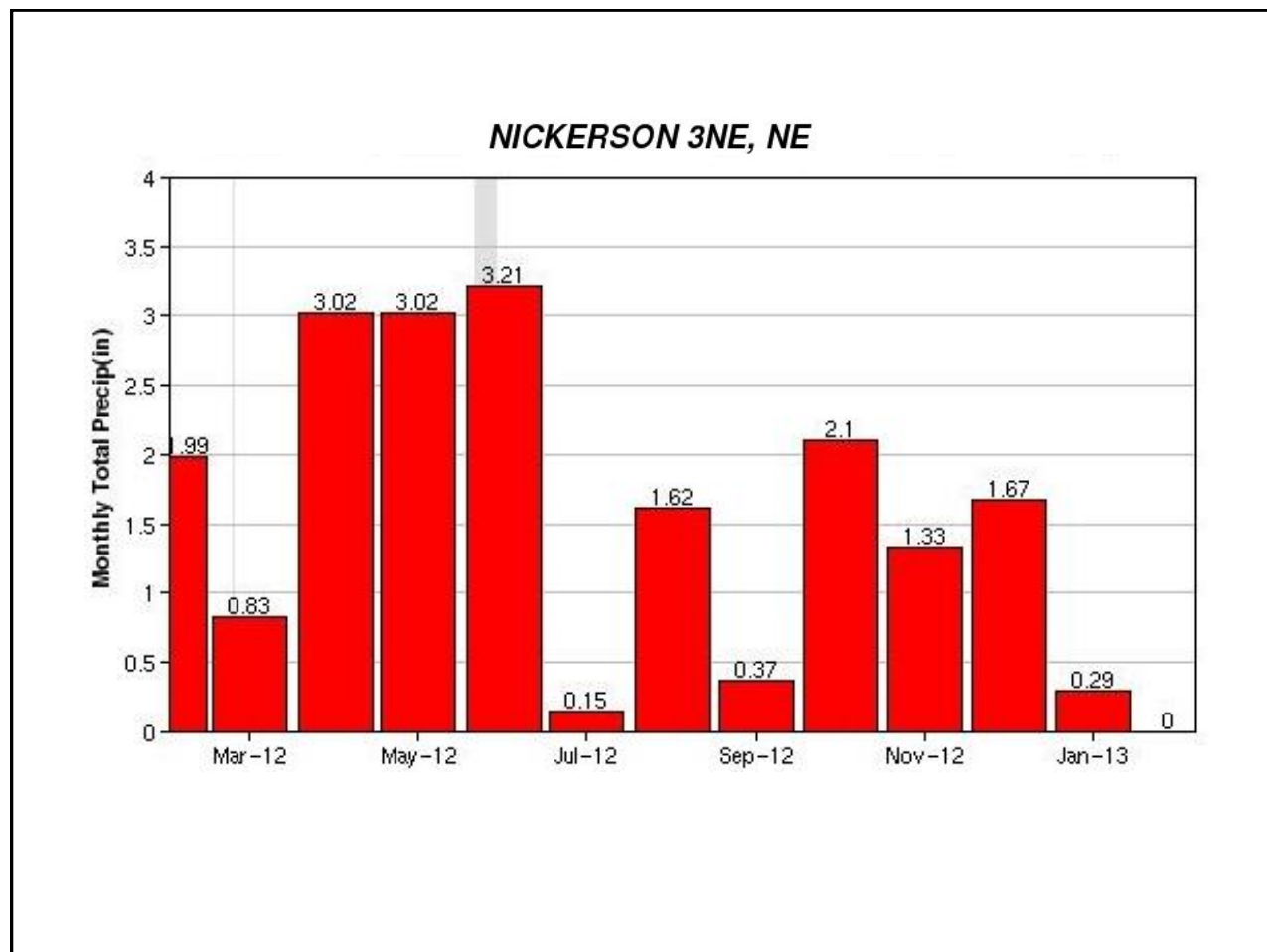
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Results: 2012

	Corn Population	
Treatment	28k	32k
Yield, bu/ac @15.5%	109.3	99.9
Cost/Acre	---	\$13.70
Prob>/T/ 0.0325**	A	B
Moisture, %	11.7	11.5
Prob>/T/ 0.5852 ns	A	A
Harvest Population	26.8k	29.6k
Prob>/T/ 0.0031***	B	A

Note: Final stand counts were negatively impacted by the Aug. 17th windstorm. Actual seeds dropped at planting was on target with the treatment targets.

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Summary: (2012) In this study Hybrid DKC 63-83 was planted no-till into soybean stubble and received about 14.4" of rain (according to NE Rain) in 2012. The seeding rate of 28,000 seeds/acre yielded statistically more than the 32,000 seeds/acre rate and resulted in the highest economic return in 2012. The 28,000 seeds/acre rate maximized economic return in both 2011 and 2012 (assuming \$7/bu corn price).

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