



Nebraska On-Farm Research Network

Fall Applied NH₃ Fertilizer Rates on Corn

Study ID: 039155201408

County: Saunders

Soil Type: Yutan silty clay loam, Tomek silt loam, Filbert silt loam

Planting Date: 4/25/2014

Harvest Date: 10/31/2014

Population: 31,000 seeds/acre

Row Spacing: 30"

Hybrid: GH 12H71

Reps: 18

Soil Test Values: not available

Previous Crop: Soybeans

Tillage: No-Till

Herbicides:

Pre: 2 qt/ac Lexar on 5/3/14

22 oz/ac Roundup ProMax on 5/3/14

Post: 0.6 oz/ac Armezon on 6/6/14

Touchdown Total on 6/6/14

Insecticides/Fungicides: Avicta Complete Corn Seed Treatment

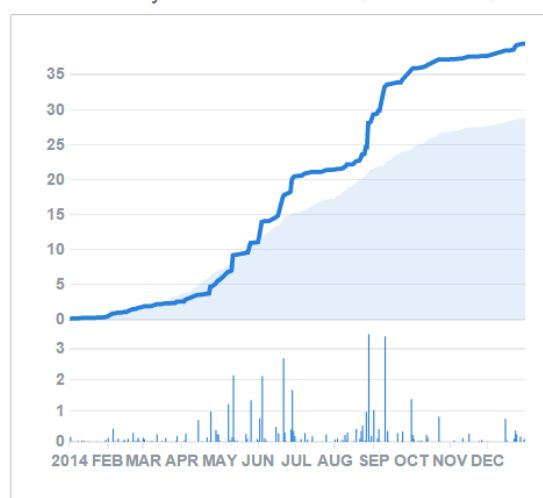
Baythroid XL on 6/26/14

4 oz/ac Priaxor on 6/26/14

10 oz/ac Headline AMP on 8/19/14

Irrigation: Not Irrigated

Rainfall history



Introduction: The purpose of this study was to determine the most profitable nitrogen rate in the production of rainfed corn. This study is a continuation of a similar study, however in 2013 the rates were slightly different. 160# N/acre and 190# N/acre were applied as anhydrous ammonia in fall 2013.

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Results:

	Yield† (bu/acre)	Moisture (%)	Net Return ‡
160#/acre	231 A*	17.4 A	\$747.70
190#/acre	226 B	17.3 A	\$718.80
<i>P-Value</i>	0.0004	0.2688	--

†Bushels per acre corrected to 15.5% moisture.

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

‡Net return based on \$3.50/bu corn, \$60.80/acre for 160 lb N/ac, and \$72.20/acre for 190 lb N/ac.

Summary: The 160# N/acre treatment was significantly higher yielding than the 190# N/acre treatment.

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