



Nebraska On-Farm Research Network

Foliar Micronutrient Application to Corn

Study ID: 017003201402

County: Antelope

Soil Type: Thurman and Doger Loamy Sand

Planting Date: 5/15/2014

Harvest Date: 11/19/2014

Population: 32,000 seeds/acre

Row Spacing: 30"

Hybrid: 209-53 STX RIB

Reps: 4

Soil Test Values: Not available

Previous Crop: Corn

Tillage: Disked

Herbicides: Post: (5/28/14): 1 pt/acre Atrazine

3.65 pt/acre Halex GT

12 oz/acre Roundup PowerMAX

Insecticides/Fungicides: None

Fertilizer: 24 gpa 17-15-0-7 starter at planting

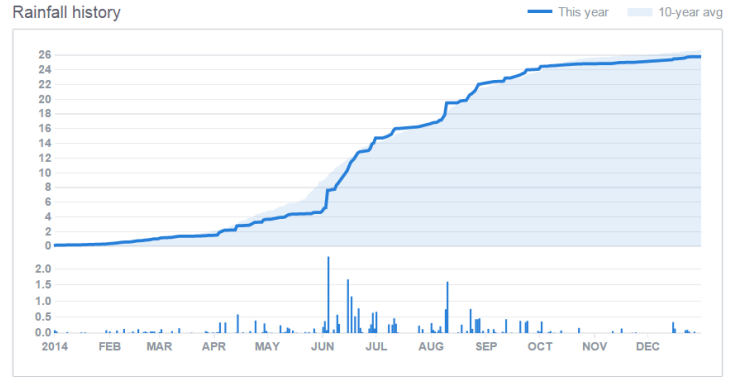
24-0-0-10 through pivot: 14 gpa on 6/9/14

UAN 32% through pivot: 14 gpa on 6/19/14

12 gpa on 7/2/14

14 gpa on 7/19/14

Irrigation: Pivot – Amounts unknown



Introduction: This study is looking at the effects of foliar fertilizer on corn yield and concentrations of nutrients in leaf tissue samples. The foliar fertilizer used in this study supplied S, B, Mn, and Zn and was applied at a rate of 1qt/ac and was applied aerially on July 10th. Leaf samples were collected from treated and untreated strips approximately 1 month after application and analyzed for nutrient concentrations. Yields were harvested from treated and untreated strips and collected from yield monitor data.

Guaranteed Analysis

Sulfur (S)	3.6%
Boron (B)	0.1%
Manganese (Mn).....	3.0%
Zinc (Zn)	4.0%

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Results:

	Yield† (bu/acre)	Net Return ‡
Check	213 A*	\$745.50
Foliar Micronutrient Fertilizer	217 A	\$744.05
<i>P-Value</i>	0.6154	--

†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, \$23.79/gal foliar micronutrient, and \$9.50/ac aerial application cost.

Summary: At this location, foliar micronutrient treatments did not have significantly different yields than non-treated areas. At this site, no soil or foliar samples were taken.

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