



Nebraska On-Farm Research Network

Irrigated Corn Population Study

Study ID: 003095201402

County: Jefferson

Soil Type: Butler silt loam

Planting Date: 4/22/2014

Harvest Date: unknown

Row Spacing: 30"

Hybrid: Channel 215-52

Reps: 10

Previous Crop: Soybean

Tillage: No-till

Herbicides: Pre: Glyphosate and 10 oz/ac

2,4-D LV6 on 4/10/14

Insecticides/Fungicides:

Acceleron 250 seed treatment

Fertilizer:

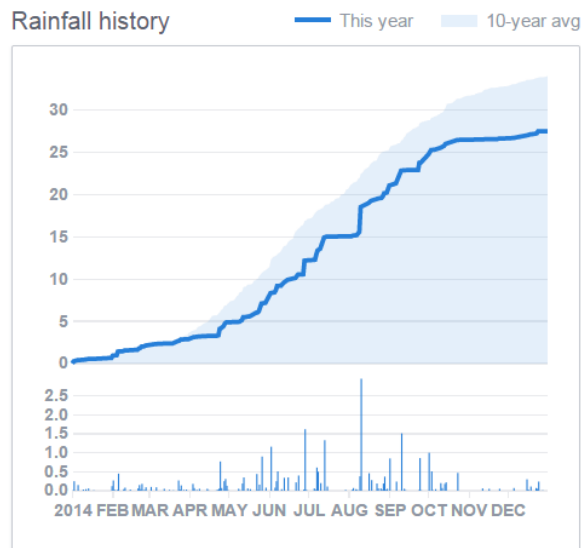
180# N/ac as anhydrous ammonia on 10/31/13

5 gal/ac 10-34-0 on 4/22/14

1 pt/ac Zinc chelate in furrow

Note: Frost in May and green snap resulted in total of 10% loss

Irrigation: pivot irrigated on 7/20, 7/24, 7/29, 8/3, and 8/6 for a total of 5".



Introduction: This on-farm research study is a continuation from the 2013 growing season. The purpose of this study was to determine the most profitable irrigated corn plant population. An additional planting rate of 44K seeds/acre was added to the 2014 test.

Results:

	Yield† (bu/acre)	Net Return ‡
32,000 seeds/ac	227 B*	\$693.26
36,000 seeds/ac	230 AB	\$691.11
40,000 seeds/ac	243 A	\$723.95
44,000 seeds/ac	244 A	\$714.80
P-Value	0.0205	--

†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 and \$253.09/bag.

Summary: Yield increased as seeding rate increased. The highest net returns were at the 40,000 seeds/acre rate.

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