

Nebraska On-Farm Research Network

Years: 2012
Title: Population
Crop: Corn
Study ID: 004053201201
County: Dodge
Objective: Study effect of various seed populations on corn production and profitability.
Treatments: Population 32k, 36k & 40k

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Information: 2012

Corn

Population 32k, 36k & 40k

Hybrid Pioneer 1625 - Irrigated

Planted: 4/23/12

Harvested: 10/5/12

Fertilizer

NH3 @120lb

32% @ 30 gal

10-34-0 @ 5 gal

Sulfur @ 3 gal

11-52-0 Fall @ 100lb

Herbicide

Keystone LA @ 1.75qt

Roundup @ 22 oz

Impact @ 0.5 oz

Atrazine @ 0.5 lb

Fungicide/Insecticide

Stratego @ YLD 2.5oz

Quilt XL @ 10.5oz

Capture LFR @ 6oz

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Results: 2012

Treatment	32k	Corn Population	
		36k	40k
Yield, bu/ac @15.5%	233.1	237.6	243.4
Cost/Acre	---	\$11.36	\$22.72
Prob>/T/ 0.0164**	B	AB	A
Moisture, %	15.9	16.0	16.1
Prob>/T/ 0.3626 ns	A	A	A

Summary: (2012) There was no statistical yield difference between seeding rates of 36,000 seeds/acre and 40,000 seeds/acre for this hybrid at this location but a seeding rate of 32,000 seeds/ac did statistically yield less than a seeding rate of 40,000 seeds/acre. The additional 4000 seeds which resulted in 5.8 bu/ac additional yield at 40,000 seeds/acre was economically justified in this study.

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