



Nebraska On-Farm Research Network

Years: 2012
Title: Population
Crop: Corn
Study ID: 006159201201
County: Seward
Objective: Study effect of population on corn production and profitability.
Treatments: Population 28k, 32k, 36k, 40k - Beaver Crossing

Information: 2012

Corn
Population

Hybrid - Channel 211- 82R
Irrigated
Planted: 4/20/12
Hobss Silty Clay Loam

Harvested: 9/15/12

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Results: 2012

	Corn Population			
Treatment	28k	32k	36k	40k
Yield, bu/ac @15.5%Cost/ Acre	212.5	227.7	233.6	235.2
Prob>/T/ 0.0191**	---	\$9.50	\$19.00	\$28.5
	B	AB	A	A
Moisture, %	15.3	15.3	15.1	14.8
Prob>/T/ 0.2097 ns	A	A	A	A
Harvest Population	26.7k	30.4k	33.6k	37.5k
Prob>/T/ <0.0001***	D	C	B	A

Summary: For this study with Hybrid Channel 211-82R, the 28,000 seeds/acre rate yielded significantly less than 36,000 and 40,000 seeds/acre. With a \$9.50 per 4000 seed cost and assuming a \$7/bu corn price, the increase to 40,000 seeds/acre was not economically justified. A seeding rate of 36,000 seeds/acre maximized returns and yield in this study.

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