Nebraska On-Farm Research Network

Years:	2012
Title:	Plant Population
Crop:	Corn
Study ID:	027025201201
County:	Cass
Objective:	To determine & document the effect of population on the profitability of corn production.
Treatments:	24k, 28k, 32k, & 36k

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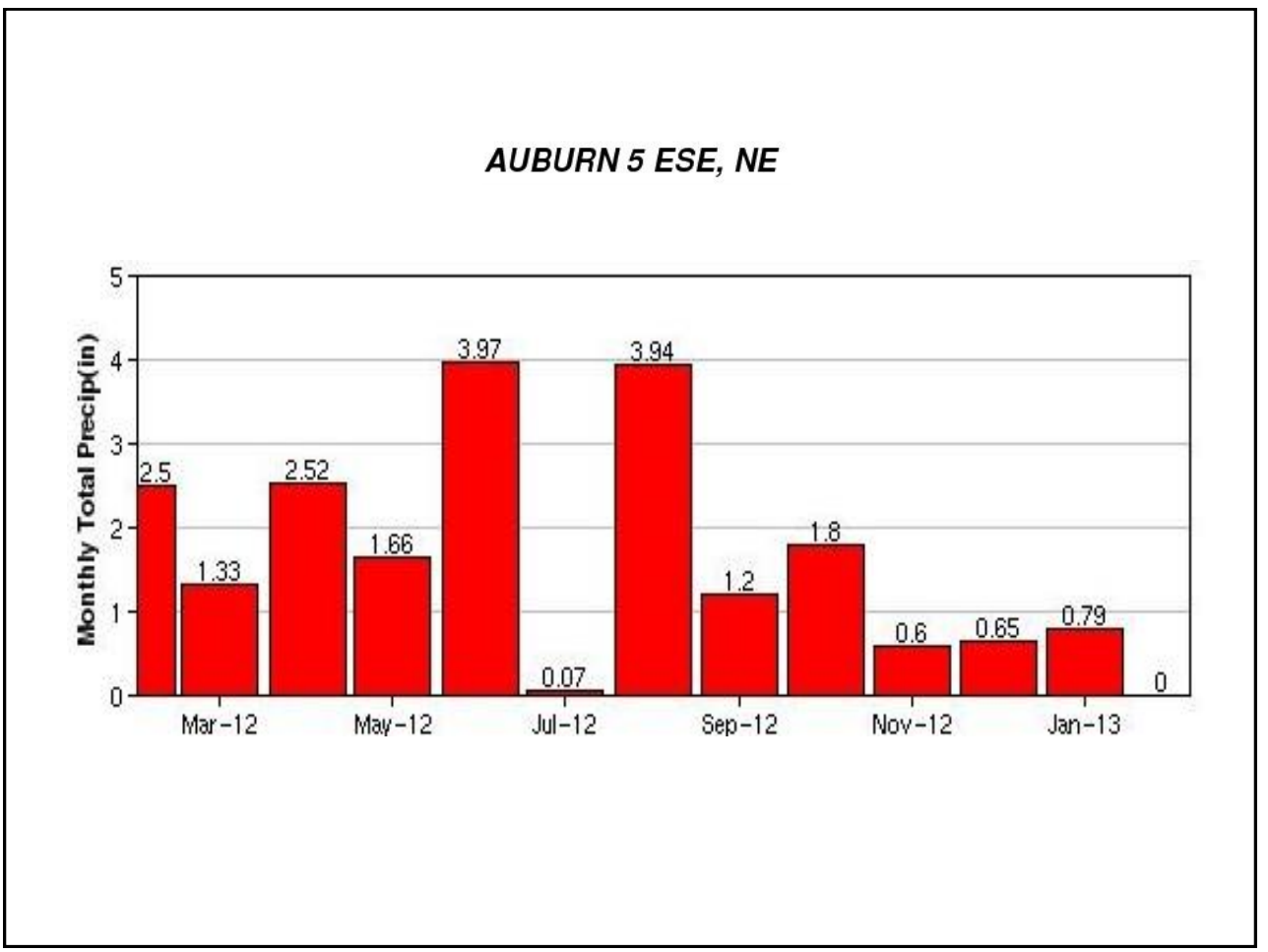

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Results: 2012

Corn-Rainfed

DKC 6757

Population

Treatment	24,000	28,000	32,000	36,000
Yield, bu/ac @15.5%	167.2	176.4	179.3	182
Cost/Acre	---	$13.75	$27.50	$41.25
Prob>/T/ 0.0129**	B	AB	A	A
Moisture, %	13.5	14.3	14.2	14.4
Prob>/T/ 0.2042 ns	A	A	A	A
Harvest Population	22.8k	27k	31.1k	35.0k
Prob>/T/ 0.1077 ns	D	C	B	A

Planted: 4/21/12 Harvested: 9/7/12

Blenco Silty Clay (Missouri River Bottom)

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Summary: (2012) Hybrid DeKalb 6757 planted no-till into soybean stubble received about 15.9" of rain (according to NE Rain) and this is also a sub-irrigated site. The 24,000 seed/acre rate yielded statistically less than 32,000 and 36,000 seeds/acre. The seeding rate of 36,000 seeds/acre had the highest yield and did pay for additional seed cost compared to an assumed 24,000 seed/acre standard rate in 2012 (assuming a $7/bu corn price). From 2010-2012, the highest plant population for each study for this cooperator resulted in the highest yield and economic return.

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