Nebraska On-Farm Research Network

Years:	2012
Title:	Population
Crop:	Corn
Study ID:	0061059201203
County:	Seward
Objective:	Study effect of population on corn production and profitability.
Treatments:	Population 30k, 34k, 38k, 42k - Milford

Information: 2012

Corn
Population

Hybrid - BigCob 15-80 - Irrigated
Planted: 4/22/12 Harvested: 9/17/12
Hastings Silty Clay Loam
Note: As population increased, also did the lodging.

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Results: 2012

		Corn Population		
Treatment	30k	34k	38k	42k
Yield, bu/ac @15.5%	204.8	208.9	205.1	206.7
Cost/Acre	---	$8.15	$16.3	$24.45
Prob>/T/ 0.6269ns	A	A	A	A
Moisture, %	18.8	18.8	18.6	18.5
Prob>/T/ 0.1849 ns	A	A	A	A
Harvest Population	29.3k	33.3k	36k	40.5k
Prob>/T/ <0.0001***	C	B	B	A

Summary: For this study with hybrid Big Cob 15-80, there was no statistical yield difference between any of the seeding rates planted. Economically, with an $8.15 per 4000 seed cost and assuming a $7/bu corn price, the 34,000 seeds/acre maximized yield and returns.

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