EXTENSION

Nebraska On-Farm Research Network

Year:	2001
Title:	Non-Irrigated Corn Plant Population
Crop:	Corn
Study ID:	067155200101
County:	Saunders

Objective: To determine and document the effect of plant population on the profitability of non-irrigated corn production.

Treatments: Plant one hybrid at three different densities (Low @18,000, Medium @ 19,200, and High @ 22,700 seeds per acre).

Nebraska Soybean & Feed Grains Profitability Project

University of Nebraska Lincoln

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Results:

	Variable	Low Pop.	Med. Pop.	High Pop.	Prob >/T/
2001	Yield, bu/ac at 15.5%	115*	120	122	0.029**
	Moisture, %	16.3	16.4	16.2*	0.208 ns
	Plant Pop., 1000 plants/ac	16.6	18.0	19.8	0.0001 ***
	Seed Cost/ac	$15.33	$16.35	$19.33	

Summary: In 2001, the medium plant density (18,000 plants/ac) resulted in maximum grain yield which was significantly higher than at the low plant density. Additional plants did not affect grain yield.

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