



# Nebraska On-Farm Research Network

## High vs. Low Plant Populations in Corn

Study ID: 100025199501M2

County: Cass

OBJECTIVE: To determine and document the profitability of high versus low planting populations in corn.

### HIGH POPULATION

### LOW POPULATION

1995

Treatment:

Treatment:

Plant population (seeds/acre): 24,500

Plant population (seeds/acre): 18,200

1996

Entire area planted to soybeans. No treatments were applied. Objective was to check residual effects of 1995 corn and to evaluate a yield monitor vs. weigh wagon.

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Comparative cost (per acre)

Comparative cost (per acre)

1995

1995

Seed

\$26.57

Seed

\$18.34

**Nebraska Soybean & Feed Grains Profitability Project**



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.

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VARIABLE	1995 CORN	1996 SOYBEANS
Moisture (%)		
High Population, 1995	13.1 ***	9.7
Low Population, 1995	13.4	9.7
Test Weight (pounds/bushel)		
High Population, 1995	56.9 ***	N/A
Low Population, 1995	58.2	N/A
Yield (bushel/acre @ 15.5%)		
High Population, 1995	126	53
Low Population, 1995	133	53
<u>1996</u>	<u>Scale</u>	<u>Monitor</u>
Yield	52.7	54.1 **

\*\* significantly different at 95% confidence level

\*\*\* significantly different at 99% confidence level

Summary: In 1995, both test weight and moisture were significantly different at the 99% confidence level. The low population yield narrowly missed being significant at the 90% confidence level. In 1996, no residual effects were found. Yields measure by monitor were slightly higher than where weigh wagon was used.

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