



Nebraska On-Farm Research Network

High vs. Low Soybean Populations

Study ID: 059025199201

County: Cass

Year: 1992

Objective: To determine and document the effect on profitability of high versus low beginning populations.

HIGH POPULATION

Treatment:

Herbicide: 3oz Pursuit Plus and spot spray of Roundup

Drill: planting rate of 86 pounds per acre

Rouging

LOW POPULATION

Treatment:

Herbicide: 3oz Pursuit Plus and spot spray of Roundup

Drill: planting rate of 57 pounds per acre

Rouging

Costs:

Seed \$15.50

Comparative cost \$15.50

Costs:

Seed \$10.30

Comparative cost \$10.30

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	1992 SOYBEANS
Final population (seeds/acre)	
High Population	237,000 ***
Low Population	171,000
Plant height	
High Population	29.4" ***
Low Population	25.8"
Pod height	
High Population	8.2" **
Low Population	7.3"
Moisture (%)	
High Population	12.4
Low Population	12.3
Test weight (pounds/bushel)	
High Population	56.5
Low Population	56.6
Yield (13 %) (bushels/acre)	
High Population	49
Low Population	48

** significantly different at 95% confidence level

*** significantly different at 99% confidence level

Summary: The high population yield was not significantly higher than the low population yield. Seed expenses have been approximately \$5.00/acre higher for the high population treatment. Planting the lower population results in higher net return.

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