



Nebraska On-Farm Research Network

High vs. Low Soybean Populations

Study ID: 059025199301

County: Cass

Year: 1993

OBJECTIVE: To determine and document the profitability of high versus low beginning soybean populations.

HIGH POPULATION

Treatment:

Herbicide: 4 ounces Pursuit Plus,
3.2 ounces Roundup and
.5 pint 2,4-D

Drill: 88 pounds/acre

Rogue

Harvest

Comparative cost (per acre)

Seed \$15.84

Total \$15.84

LOW POPULATION

Treatment:

Herbicide: 4 ounces Pursuit Plus,
3.2 ounces Roundup and
.5 pint 2,4-D

Drill: 58 pounds/acre

Rogue

Harvest

Comparative cost (per acre)

Seed \$10.44

Total \$10.44

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	SOYBEANS
Final population (seeds/acre)	
High Population	178,700 **
Low Population	126,800
Plant height	
High Population	26.3"
Low Population	24.4"
Pod height	
High Population	6.3"
Low Population	6.0"
Moisture (%)	
High Population	11.6
Low Population	11.4
Test weight (pounds/bushel)	
High Population	58.1
Low Population	58.2
Yield (13 %) (bushels/acre)	
High Population	45 **
Low Population	44

** significantly different at 95% confidence level

summary: The high population had a significantly higher yield in 1993. However, seed expenses were approximately \$5.00/acre higher for the high population treatment.

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