



Nebraska On-Farm Research Network

TWO PLANT POPULATIONS UNDER IRRIGATION

Study ID: 053155199201

Saunders County

1992

Objective: To determine and document the effect on profitability of a reduced plant population versus a conventional plant population for the Hobbit87 soybean variety under irrigation.

LOW POPULATION

Treatment:

Discing

Discing

Field Cultivate

Planting: Hobbit87, planting rate of 50 pounds per acre.

Herbicide: 2oz. Pursuit and 3oz. Sencor OF.

Cultivation

Rouging

Irrigation

Costs:

Seed \$9.00

Comparative cost \$9.00

HIGH POPULATION

Treatment:

Discing

Discing

Field Cultivate

Planting: Hobbit87, planting rate of 66 pounds per acre.

Herbicide: 2oz Pursuit and 3oz Sencor OF.

Cultivation

Rouging

Irrigation

Costs:

Seed \$12.00

Comparative cost \$12.00

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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ON-FARM RESEARCH COMPARISON RESULTS - DAVE DEERSON

VARIABLE

Early population	
Low population	109000 * *
High population	169000 * *
Final population	
Low population	100000 * *
High population	140000 * *
Population loss	
Low population	17.1%
High population	8.1 %
Plant height	
Low population	27.4" * *
High population	25.2" * *
Pod height	
Low population	7.0" *
High population	5.8" * *
Moisture	
Low population	11.9%
High population	11.9%
Sample weight	
Low population	57.2
High population	57.0
Yield(13%)	
Low population	50.0 *
High population	51.4

* - significantly different at 95 % confidence level

* * - significantly different at 99% confidence level

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