



Nebraska On-Farm Research Network

Phosphorus Fertilizer vs. No Fertilizer-Soybeans

Study ID: 101025199201

Year: 1992

County: Cass

Objective: To determine and document the effect on profitability of Phosphorus fertilizer versus no fertilizer on soybean production.

FERTILIZER

Treatment:

Discing

Discing

Fertilize: 18-46-0, 100lbs/ac

Herbicide: 1 quart Treflan, 1/2 pint
Command and 1/2 pint Scepter

Planting

Cultivation

Rouging

Costs:

Fertilizer \$9.40

Comparative cost \$9.40

NO FERTILIZER

Treatment:

Discing

Discing

Herbicide: 1 quart Treflan, 1/2 pint
Command and 1/2 pint Scepter

Planting

Cultivation

Rouging

Costs:

Comparative cost \$0.00

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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VARIABLE

Final population (seeds/acre)	
Fertilizer	305,000
No Fertilizer	307,000
Plant height	
Fertilizer	33.0"
No Fertilizer	31.3"
Pod height	
Fertilizer	5.9"
No Fertilizer	5.4"
Moisture (%)	
Fertilizer	11.6
No Fertilizer	11.6
Test weight (pounds/bushel)	
Fertilizer	56.2
No Fertilizer	56.2
Yield (13%) (bushels/acre)	
Fertilizer	46 ***
No Fertilizer	42

*** significantly different at 99% confidence level

Soil Test

4 ppm, Bray P1

Summary: The yield for the phosphorous fertilizer treatment was significantly higher in 1992

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