

## Nebraska On-Farm Research Network

#### Phosphorus Fertilizer vs. No Fertilizer-Soybeans Study ID: 101025199301

County: Cass

**Year: 1993** 

OBJECTIVE: To determine and document the profitability of using phosphorus fertilizer versus no fertilizer on soybeans.

**FERTILIZER Treatment:** NO. **FERTILIZER** Treatment: Disk Disk Disk Disk None Fertilize: 100 pounds/acre of 18-46-0 Herbicide: 1 quart Prowl, 0.5 pints 1 quart Prowl, 0.5 pints Command and 2 ounces Command and 2 ounces Scepter. Scepter. Plant **Plant** 

Cultivate:

Rouge

Harvest

#### 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.

Cultivate:

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Phosphorus Fertilizer vs. No Fertilizer-Soybeans Page 2

FERTILIZER	NO FERTILIZER  Comparative cost (per acre)	
Comparative cost (per acre)		
Fertilizer \$9.40	None	\$0.00
Total \$9.40	Total	\$0.00
VARIABLE	1993 Soybeans	
Final population (seeds/acre)	~ 0 <b>0 0 0 0 0</b>	
Fertilizer	117,100	
No Fertilizer	119,900	
Plant height		
Fertilizer	27.0" ***	
No Fertilizer	23.6"	Soil Test
Pod height		1993
Fertilizer	4.8"	SOYBEANS
No Fertilizer	5.1"	
Moisture (%)		5 ppm, Bray P <sub>1</sub>
Fertilizer	9.9 **	• •
No Fertilizer	9.8	Summary: The yield for the phosphorous fertilizer treatment
Test weight (pounds/bushel)		was significantly higher in 1993.
Fertilizer	57.7	was significantly inglier in 1990.
No Fertilizer	57.6	
Yield (13 %) (bushels/acre)		
Fertilizer	44 **	
No Fertilizer	3 6	
<ul><li>** significantly different at 95%</li><li>*** significantly different at 99%</li></ul>		

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