



# Nebraska On-Farm Research Network

## Reduced-Tillage vs. Conventional-Tillage

Study ID: 043155199201

County: Saunders

Year: 1992

OBJECTIVE: To determine and document the effect on profitability of a reduced-till system versus a conventional-till system.

### REDUCED-TILLAGE

#### Treatment:

Fall Disking

Herbicide: 1.25 pints Basagran, 1 pint Roundup and 0.78 pounds Ammonium Sulfate, banded 1.5 quarts Freedom and 28% UAN.

Planting

Cultivation

### CONVENTIONAL-TILLAGE

#### Treatment:

Fall Disking

Herbicide: 1 pint Roundup and 0.78 pounds Ammonium Sulfate, banded 1.5 quarts of Freedom and 28% UAN.

Field Cultivation

Field Cultivation

Planting

Cultivation

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#### Comparative cost (per acre)

Herbicide	\$ 20.90
Operations	\$ 42.90
<b>Total</b>	<b>\$ 63.80</b>

#### Comparative cost (per acre)

Herbicide	\$ 14.90
Operations	\$ 54.40
<b>Total</b>	<b>\$ 69.30</b>

**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
Early population	
Reduced-till	130000
Conventional-till	132000
Final population	
Reduced-till	120000
Conventional-till	125000
Population loss	
Reduced-till	8.9%
Conventional-till	3.6%
Plant height	
Reduced-till	30.6"
Conventional-till	30.4"
Pod height	
Reduced-till	4.0"
Conventional-till	4.2"
Moisture	
Reduced-till	11.1%
Conventional-till	11.1%
Sample weight	
Reduced-till	54.8**
Conventional-till	54.4**
Yield (13%)	
Reduced-till	49.1*
Conventional-till	49.0

\* significantly different at 95% confidence  
\* \* level significantly different at 99%  
confidence level

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