



Nebraska On-Farm Research Network

Reduced-Tillage vs. Conventional-Tillage

Study ID: 043155199101

Year: 1991

County: Saunders

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

REDUCED-TILLAGE

Treatment:

Fall discing

Early preplant application of 0.4 pound Sencor DF, 0.67 pint 2,4-D ester and 2 pints Prowl

Planting

Cultivation

Rouging

Costs:

Herbicide \$ 15.60

Operations 52.14

Comparative cost \$ 67.74

CONVENTIONAL-TILLAGE

Treatment:

Fall discing

Early preplant application of 0.4 pound Sencor DF, 0.67 pint 2,4-D ester and 2 pints Prowl

Field cultivation

Field cultivation

Planting

Cultivation

Rouging

Costs:

Herbicide \$ 15.60

Operations 59.95

Comparative cost \$ 75.55

Nebraska Soybean & Feed Grains Profitability Project

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VARIABLE

Early population	
Reduced-till	138000 **
Conventional-till	123000
Final population	
Reduced-till	102000
Conventional-till	98000
Population loss	
Reduced-till	23.1%
Conventional-till	15.1%
Plant height	
Reduced-till	19.5"
Conventional-till	20.0"
Pod height	
Reduced-till	4.0"
Conventional-till	4.5"
Moisture	
Reduced-till	7.8%
Conventional-till	7.8%
Sample weight	
Reduced-till	56.6
Conventional-till	57.2
Yield (13%)	
Reduced-till	47.1
Conventional-till	46.3

* significantly different at 95% confidence level

** significantly different at 99% confidence level

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