

Nebraska On-Farm Research Network

No-Tillage vs. Conventional-Tillage in Soybeans Study ID: 120155199101 County: Saunders

Year: 1991

Objective: To determine and document the effect on profitability of a no-till system versus a conventional till system.

NO-TILLAGE

Herbicide

Operations

Comparative cost

CONVENTIONAL-TI LLAGE

Treatment: Treatment: Early preplant application of 1.5 pints Discing Prowl, 0.33 pound Sencor DF, 1 pint 2,4-D ester and crop oil Field cultivation: incorporation of 2 pints Prowl, 0.33 pint Scepter Planting: application of 1 pint Prowl and 0.6 pint Command and 0.26 pound Sencor DF Field cultivation Rouging **Planting** Cultivation Rouging Costs: Costs:

Herbicide

Operations

Comparative cost

Nebraska Soybean & Feed Grains Profitability Project

\$ 22.08

42.90

\$ 64.98



\$ 18.40

\$ 74.61

56.21

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ON-FARM RESEARCH COMPARISON RESULTS

VARIABLE	1991
Early population No- till Conventional-till	164000 ¹ 155000
Final population No-till Conventional-till	141000 141000
Population loss No-till Conventional-till	12.3% 8.2%
Plant height No-till Conventional-till	35.3" 34.6"
Pod height No-till Conventional-till	5.2" 5.0"
Moisture No-till Conventional-till	18.6% 18.9%
Sample weight No-till Conventional-till	55.3 54.7
Yield (13%) No-till Conventional-till	40.2 40.1

^{*} significantly different at 95% confidence level

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