



Nebraska On-Farm Research Network

PRE- AND POST-EMERGENCE WEED CONTROL VERSUS PREPLANT- INCORPORATED WEED CONTROL UNDER IRRIGATION

Study ID: 044155199101
Saunders County
1991

Objective: To determine and document the effect on profitability of a pre- and post-emergence weed control program versus a preplant-incorporated weed control program under irrigation.

PRE- AND POST-EMERGENCE WEED CONTROL

Treatment:

Discing

Discing

Planting: banded application of 6 pints
Freedom (broadcast rate)

Rotary hoeing

Post-emergence banded application of
1 pint Galaxy and 1 gallon 28 %
UAN (broadcast rates)

Cultivation

Irrigation

Costs:

Herbicide \$ 8.28

Operations 56.48

Comparative cost \$ 64.76

PREPLANT-INCORPORATED WEED CONTROL

Treatment:

Discing: incorporation of 1 pint
Command, 0.33 pint Scepter
and 1.5 pints Treflan

Discing

Planting

Cultivation

Irrigation

Costs:

Herbicide \$ 20.44

Operations 48.47

Comparative cost \$ 68.91

Nebraska Soybean & Feed Grains Profitability Project



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RESULTS:

Early population	
Pre-/post-emergence	138000
Preplant-incorporated	139000

Final population	
Pre-/post-emergence	111000
Preplant-incorporated	109000

Population loss	
Pre-/post-emergence	18.6%
Preplant-incorporated	21.3%

Plant height	
Pre-/post-emergence	33.2"
Preplant-incorporated	32.9"

Pod height	
Pre-/post-emergence	5.8"
Preplant-incorporated	5.9"

Moisture	
Pre-/post-emergence	10.6%
Preplant-incorporated	10.6%

Sample weight	
Pre-/post-emergence	57.2
Preplant-incorporated	57.1

Yield(13%)	
Pre-/post-emergence	55.6
Preplant-incorporated	57.5

* - significantly different at 95% confidence level

** - significantly different at 99% confidence level

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