



Nebraska On-Farm Research Network

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

Study ID: 044155199001

Saunders County

1990

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

TREATMENT

POST-EMERGENCE WEED CONTROL

Chisel plowing-east half

Disking

Field cultivation

Planting: Lynks 8280

Post-emergence application of .25 ounces Classic, .24 ounces Pinnacle, 1 gallon 28% UAN, and 6 ounces surfactant

Cultivation

Ropewick application of Roundup

Irrigation

TREATMENT

PREPLANT-INCORPORATED WEED CONTROL

Chisel plowing-east half

Disking: incorporation of 1 pint Command, .33 pint Scepter, and 1.5 pints Treflan

Field cultivation

Planting: Lynks 8280

Cultivation

Irrigation

Nebraska Soybean & Feed Grains Profitability Project



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COMPARATIVE COST BUDGET

Chemicals:

.25 ounces Classic	\$ 4.11
.25 ounces Pinnacle	5.80
1 gallon 28% UAN	1.00
6 ounces surfactant	0.73
Roundup through ropewick	1.00

Field operations:

Spraying	\$ 3.67
Rope wicking	2.00

Equipment cost:

Sprayer (\$2800)	
Ropewick (\$500)	

Comparative cost \$18.31

Chemicals:

1 pint Command	\$ 8.33
.33 pint Scepter	7.45
1.5 pints Treflan	4.84

Field operations

Preplant incorporate	\$ 0.30
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Equipment cost:

Preplant-incorporate equipment (\$1000)	
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Comparative cost \$20.92

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RESULTS:

Early population	
Pre-/post-emergence	106000
Preplant-incorporated	104000
Final population	
Pre-/post-emergence	97000
Preplant-incorporated	100000
Population loss	
Pre-/post-emergence	8.4%
Preplant-incorporated	2.4%
Plant height	
Pre-/post-emergence	32.0" **
Preplant-incorporated	35.8"
Pod height	
Pre-/post-emergence	5.9" *
Preplant-incorporated	4.8"
Moisture	
Pre-/post-emergence	10.2%
Preplant-incorporated	10.0%
Sample weight	
Pre-/post-emergence	55.8
Preplant-incorporated	55.7
Yield(13%)	
Pre-/post-emergence	46.0
Preplant-incorporated	48.0

* - significantly different at 95% confidence level

** - significantly different at 99% confidence level

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