



# Nebraska On-Farm Research Network

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

Study ID: 113155199001

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

Fall disking

Disking

Field cultivation

Planting: Jaques 357

Irrigation

Application of .25 ounces Classic, .25 ounces Pinnacle, 9 ounces Assure, .5 gallon 28% UAN, and 2.9 ounces Induce(surfactant)

Cultivation

Irrigation: 3 times

#### PREPLANT-INCORPORATED WEED CONTROL

Fall disking

Disking: incorporation of 1.25 pints Command and 2 pints Prowl

Field cultivation

Planting: Jaques 357

Irrigation

Cultivation

Irrigation: 3 times

**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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## COMPARATIVE COST BUDGET

### Chemicals:

.25 ounces Classic	\$ 4.04
.25 ounces Pinnacle	5.80
9 ounces Assure	7.19
.5 gallon 28% UAN	0.47
2.9 ounces Induce	0.44

### Field operations:

Spraying	\$ 3.67
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### Equipment costs:

Sprayer (\$2800)

Comparative cost -----  
\$21.61

### Chemicals:

1.25 pints Command	\$ 9.61
2 pints Prowl	5.68
Roundup through bean bar	1.00

### Field operations:

Preplant incorporate	\$0.30
Bean bar application	1.50

### Equipment costs:

Preplant-incorporate equipment  
(\$1000)

Comparative cost -----  
\$18.09

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## RESULTS:

Early population		
Pre-/post-emergence	152000	*
Preplant-incorporated	142000	
Final population		
Pre-/post-emergence	134000	
Preplant-incorporated	124000	
Population loss		
Pre-/post-emergence	9.5%	
Preplant-incorporated	12.6%	
Plant height		
Pre-/post-emergence	32.2"	*
Preplant-incorporated	33.9"	
Pod height		
Pre-/post-emergence	3.8"	*
Preplant-incorporated	3.3"	
Moisture		
Pre-/post-emergence	9.8%	
Preplant-incorporated	9.4%	
Sample weight		
Pre-/post-emergence	57.2	
Preplant-incorporated	57.1	
Yield(13%)		
Pre-/post-emergence	47.8	
Preplant-incorporated	46.2	

\* - significantly different at 95% confidence level

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

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