



# Nebraska On-Farm Research Network

## INDETERMINATE VERSUS DETERMINATE VARIETIES UNDER IRRIGATION

Study ID: 081155199101

Saunders County

1991

Objective: To determine and document the effect on profitability of the use of an indeterminate variety (Hoegemeyer 368) versus the use of a determinate variety (Hobbit87) under irrigation.

### INDETERMINATE VARIETY

Treatment:

Discing

Field cultivation

Field cultivation

Planting: Hoegemeyer 368, planting rate of 60 pounds per acre; banded application of 6.25 pints Freedom, 1 pint Command and 0.5 pound Sencor DF (broadcast rates)

Cultivation

Cultivation

Rouging

Irrigation

Costs:

Seed \$ 14.40

Comparative cost \$ 14.40

### DETERMINATE VARIETY

Treatment:

Discing

Field cultivation

Field cultivation

Planting: Hobbit87, planting rate of 75 pounds per acre; banded application of 6.25 pints Freedom, 1 pint Command and 0.5 pound Sencor DF (broadcast rates)

Cultivation

Cultivation

Rouging

Irrigation

Costs:

Seed \$ 13.50

Comparative cost \$ 13.50

**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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## RESULTS:

Early population		
Indeterminate	138000	
Determinate	133000	
Final population		
Indeterminate	114000	*
Determinate	129000	
Population loss		
Indeterminate	7.3%	
Determinate	2.2%	
Plant height		
Indeterminate	34.9"	**
Determinate	20.6"	
Pod height		
Indeterminate	6.9"	**
Determinate	5.1"	
Moisture		
Indeterminate	8.8%	*
Determinate	8.7%	
Sample weight		
Indeterminate	57.2	
Determinate	56.9	
Yield(13%)		
Indeterminate	54.5	*
Determinate	55.8	

\* - significantly different at 95% confidence level

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

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