



# Nebraska On-Farm Research Network

Indeterminate vs. Determinate Varieties Under Irrigation  
Study ID: 068155199201  
County: Saunders

Objective: To determine and document the effect on profitability of the use of an indeterminate variety (Pioneer 9272) versus the use of a determinate variety (Hobbit 87) under irrigation.

## INDETERMINATE VARIETY

Treatment:

Discing

Discing

Field Cultivation

Planting: Pioneer 9272, planting rate of 54 pounds per acre.

Herbicide: banded 2 quarts Lasso MT and ½ pounds Sencor.

Cultivation

Cultivation

Irrigation

Costs:

Seed	\$14.00
------	---------

Comparative cost	<u>\$14.00</u>
------------------	----------------

## DETERMINATE VARIETY

Treatment:

Discing

Discing

Field Cultivation

Planting: Hobbit 87, planting rate of 72 pounds per acre.

Herbicide: banded 2 quarts Lasso MT and ½ pound Sencor.

Cultivation

Cultivation

Irrigation

Costs:

Seed	\$9.50
------	--------

Comparative cost	<u>\$9.50</u>
------------------	---------------

**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.

University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.



# Nebraska On-Farm Research Network

## ON-FARM RESEARCH COMPARISON RESULTS

VARIABLE	1992
Early population	
Indeterminate	132000**
Determinate	184000**
Final population	
Indeterminate	129000**
Determinate	172000**
Population loss	
Indeterminate	2.0%
Determinate	6.8%
Plant height	
Indeterminate	33***
Determinate	25.7***
Pod height	
Indeterminate	4.6***
Determinate	8.0***
Moisture	
Indeterminate	10.8%**
Determinate	11.4%**
Sample weight	
Indeterminate	56.6**
Determinate	55.1**
Yield (13%)	
Indeterminate	50.7*
Determinate	52.1**

\* - significantly different at 95% confidence level

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

## 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.

University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.