Nebraska On-Farm Research Network

Indeterminate vs Determinate Varieties Under Irrigation Study ID: 068155199101
County: Saunders
Year: 1991

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		DETERMINATE VARIETY	
Treatment:		Treatment:	
Discing		Discing	
Discing		Discing	
Field cultivation		Field cultivation	
Planting: Pioneer 9272, planting rate of 54 pounds per acre; banded application of 4 pints Lasso MT ad 0.5 pound Lexone OF (broadcast rates)		Planting: Hobbit87, planting rate of 72 pounds per acre; banded application of 4 pints Lasso MT and 0.5 pound Lexone OF (broadcast rates)	
Cultivation		Cultivation	
Cultivation		Cultivation	
Irrigation		Irrigation	
Costs:		Costs:	
Seed	$ 14.58	Seed	$ 11.52
Comparative cost	$ 14.58	Comparative cost	$ 11.52

Nebraska Soybean & Feed Grains Profitability Project

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ON-FARM RESEARCH COMPARISION RESULTS

VARIABLE	1991
Early population	
Indeterminate	118000**
Determinate	166000
Final population	
Indeterminate	115000**
Determinate	152000
Population loss	
Indeterminate	1.5%
Determinate	6.6%
Plant height	
Indeterminate	30.1”**
Determinate	21.8”
Pod height	
Indeterminate	3.8”
Determinate	4.4”
Moisture	
Indeterminate	10.2%**
Determinate	9.4%
Sample weight	
Indeterminate	57.2**
Determinate	56.5
Yield (13%)	
Indeterminate	53.6**
Determinate	55.1

* - significantly different at 95% confidence level
** - significantly different at 99% confidence level

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