Nebraska On-Farm Research Network

NARROW ROWS VERSUS WIDE ROWS UNDER IRRIGATION

Study ID: 116155199101
Saunders County
1991

Objective: To determine and document the effect on profitability of the use of narrow rows {18") versus the use of wide rows (36") under irrigation.

NARROW ROWS		WIDE ROWS	
Treatment:		Treatment:	
Liming		Liming	
Disc-chiseling		Disc-chiseling	
Discing: incorporation of 2.7 pints Commence		Discing: incorporation of 2.7 pints Commence	
Field cultivation		Field cultivation	
Planting: planting rate of 70 pounds per acre		Planting: planting rate of 61 pounds per acre	
Irrigation		Cultivation	
		Irrigation	
Costs:		Costs:	
Seed	$ 9.10	Seed	$ 7.93
Operations	54.46	Operations	58.40
Comparative cost	$ 63.56	Comparative cost	$ 66.33

Nebraska Soybean & Feed Grains Profitability Project

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RESULTS:

Early population		
	Narrow row	152000 **
	Wide row	122000
Final population		
	Narrow row	143000 **
	Wide row	97000
Population loss		
	Narrow row	3.3% **
	Wide row	17.8%
Plant height		
	Narrow row	19.1"
	Wide row	19.1"
Pod height		
	Narrow row	6.2" **
	Wide row	3.4"
Moisture		
	Narrow row	8.2% **
	Wide row	8.1%
Sample weight		
	Narrow row	57.4
	Wide row	57.1
Yield(13%)		
	Narrow row	57.3
	Wide row	55.9

** - significantly different at 99% confidence level