EXTENSION

Nebraska On-Farm Research Network

INDETERMINATE VERSUS DETERMINATE VARIETIES UNDER IRRIGATION

Study ID: 081155199001

Saaunders County

1990

Objective: To determine and document the effect on profitability of the use of an indeterminate variety versus the use of a determinate variety.

TREATMENT

INDETERMINATE VARIETY	DETERMINATE VARIETY
Fall disking	Fall disking
Disking: incorporation of 2.25 pints Commence	Disking: incorporation of 2.25 pints Commence
Field cultivation	Field cultivation
Planting: Hoegemeyer 368	Planting: Hobbit 87
Cultivation	Cultivation
Irrigation: 2 times	Irrigation: 2 times

COMPARATIVE COST BUDGET

Soybean seed:		Soybean seed:	
70 pounds Hoegemeyer 3.68	$16.80	72 pounds Hobbit	$12.24
Comparative cost	$16.80	Comparative cost	$12.24

RESULTS:

Early population
    Indeterminate   164000 **
    Determinate   180000

Final population
    Indeterminate   152000
    Determinate   171000

Population loss
    Indeterminate   7.5%
    Determinate   4.8%

Plant height
    Indeterminate   34.7" **
    Determinate   24.0"

Pod height
    Indeterminate   7.0"
    Determinate   6.4"

Moisture
    Indeterminate   10.0% *
    Determinate   10.2%

Sample weight
    Indeterminate   56.5
    Determinate   56.5

Yield(13%)
    Indeterminate   53.2
    Determinate   53.1

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

Nebraska Soybean & Feed Grains Profitability Project

Nebraska Lincoln