

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 Disking: incorporation of 2.25 pints

Commence 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

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 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

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^{* -} significantly different at 95% confidence level

^{** -} significantly different at 99% confidence level