



Nebraska On-Farm Research Network

Hobbit vs. Keltgin Soybean Varieties Under Two Row Width Strategies

Study ID: 126025199301

County: Cass

Year: 1993

OBJECTIVE: To determine and document the profitability of Hobbit versus Keltgin soybean varieties using a wide (30 inches) versus narrow (7 inches) row planting strategy.

NARROW ROWS

Treatment:

Drilling: Hobbit87 and Keltgin, planting rate of 70 pounds/acre

Herbicide: 4 ounces Pursuit, .128 gallon Roundup and 28% UAN and 8 ounces Non-ionic surfactant

Harvest

WIDE ROWS

Treatment:

Planting: Hobbit87 and Keltgin, planting rate of 74 pounds/acre

Herbicide: 4 ounces Pursuit, .125 gallon Roundup and 28% UAN and 8 ounces Non-ionic surfactant

Harvest

-Comparative cost (per acre)

Seed	\$18.20
Drilling	\$8.97
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Total	\$27.17

Comparative cost (per acre)

Seed	\$13.30
Planting	\$9.08
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Total	\$22.38

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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VARIABLE

Final Population

Drilled Hobbit	204,600 **
Drilled Keltgin	201,000 **
Row Hobbit	126,400 **
Row Keltgin	127,800 **

Plant height

Drilled Hobbit	18.6" #
Drilled Keltgin	28.6" #
Row Hobbit	20.0" #
Row Keltgin	28.8" #

Pod height

Drilled Hobbit	5.73"
Drilled Keltgin	6.23"
Row Hobbit	5.70"
Row Keltgin	6.47"

Test weight

Drilled Hobbit	56.8 **
Drilled Keltgin	57.3 **
Row Hobbit	56.6 **
Row Keltgin	56.9 **

Moisture

Drilled Hobbit	11.4%
Drilled Keltgin	11.0%
Row Hobbit	11.3%
Row Keltgin	11.1%

Yield (13%)

Drilled Hobbit	28.6 ##
Drilled Keltgin	33.0 ##
Row Hobbit	27.4 ##
Row Keltgin	30.8 ##

- * significantly different at 95% confidence level
- ** row spacing significantly different at 99% confidence level
- # varieties significantly different at 99% confidence level
- ## row spacing significantly different at 90% confidence level

Summary: There were yield differences between the row and drilled treatments in 1993. In 1993, the yield difference between Keltgin 5327 and Hobbit was statistically significant at the 90% confidence level. Seed expenses has been \$5-\$6/acre higher for the drilled beans.

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