Nebraska On-Farm Research Network

Hobbit vs. Keltgin Soybean Varieties Under Two Row Width Strategies

Study ID: 126025199401

Year: 1994

County: Cass

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:

Drill: Hobbit 87 and Keltgin, 74 pounds/acre

Herbicide: 1994 - 4 ounces Pursuit, 1 pint Roundup and .5 gallons 28% UAN

Harvest

-Comparative cost (per acre)

	Hobbit	Keltgin
Seed	$19.50	$21.00
Drilling	$8.97	$8.97
Total	$28.47	$29.97

WIDE ROWS

Treatment:

Plant: Hobbit 87 and Keltgin, 70 pounds/acre

Herbicide: 1994 - 4 ounces Pursuit 1 pint Roundup and .5 gallons 28% UAN

Harvest

Comparative cost (per acre)

	Hobbit	Keltgin
Seed	$15.86	$17.08
Planting	$9.08	$ 9.08
Total	$24.88	$26.16

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Moisture (%)	
Drilled Hobbit	14.1
Drilled Keltgin	13.4
Planted Hobbit	13.9
Planted Keltgin	13.3
Moisture (%)	
Mean for Drilled	13.7 **
Mean for Planted	13.6
Mean for Hobbit	14.0 ***/1
Mean for Keltgin	13.4
Test weight (pounds/bushel)	
Drilled Hobbit	52.9
Drilled Keltgin	54.1
Planted Hobbit	53.1
Planted Keltgin	52.1
Yield (13 %) (bushels/acre)	
Drilled Hobbit	61 ***, ***/2
Drilled Keltgin	57
Planted Hobbit	49
Planted Keltgin	51
Yield continued (13 %) (bushels/acre)	
Mean for Drilled	59 ***, ***/2
Mean for Planted	50
Mean for Hobbit	55
Mean for Keltgin	54

** Row spacing significantly different at 95% confidence level

*** Row spacing significantly different at 99% confidence level

***/1 varieties significantly different at 99% confidence level

***/2 variety and row spacing interaction significantly different at 99% confidence

Summary: The drilled soybeans yielded significantly higher than the wide row soybeans. The Hobbit variety benefitted more from drilling than did Keltgin in 1994. Moisture content was also significantly different. Seed expensees have been $4-$6/acre higher for the drilled beans each year.

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