

Soybean Row Spacing

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Objective

To demonstrate possible effects of two seeding rates combined with two fertilizer rates on wheat yield.

Background

Crop Year:	1997	Soil Test:	pH 6.3; P 38; K 157
Cooperator:	Dennis Baker	Fertilizer Applied:	100# 0-46-0 & 100# 0-0-60 4/30/97
County/Town:	Darke/ Greenville	Herbicide:	1 qt. Roundup; 1.5 qt. Squadron; 0.75 pt. Prowl
Drainage:	Subsurface	Variety:	Sandusky
Major Soil Type:	Patton	Planting Date:	May 16, 1997
Previous Crop:	Corn	Harvest Date:	October 7, 1997
Tillage:	None		

Materials and Methods

Soybean row width treatments included 30" rows, double-back to make 15" rows, and drilled for 7" rows.

Seeding rates: 30" - 156,000 seeds/A; 15" - 160,000 seeds/A; 7" - 180,000 seeds/A. 30" and 15" plots replicated four times in field length strips; 7" replicated two times in plots twice the width of the other row-width treatments.

Results

Row Width	Yield (bu/A)
30"	37.45
15"	41.14
7"	40.62

Comparisons	LSD (0.05)	
30" vs. 15"	6.23 bu/A	No sig. difference
30" vs. 7"	7.90 bu/A	No sig. difference
15" vs. 7"	9.20 bu/A	No sig. difference

Note: Since the treatments varied in number of replications, a separate LSD is needed to compare each pairwise comparison. Coefficient of variation equaled 11.1%.

Summary and Notes

Weed control was fair and spread evenly though the experimental plots. Growing conditions were relatively dry in July and August.

For additional information, contact:

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