

# Narrow vs. Wide Row

Gary Hellerich

Private Industry Cooperator: Jerry Mulliken

OBJECTIVE: To determine and document the profitability of narrow (7") versus wide rows (30").

## NARROW ROWS (7")

### Treatment:

Disk/PPI

Field Cultivate

Herbicide: .33 pints Scepter, 1 pint Prowl  
and an additional 1 pint Prowl.

Drill: 77 pounds per acre.

Rotary Hoe

## WIDE ROWS (30")

### Treatment:

Disk/PPI

Field Cultivate

Herbicide: .33 pints Scepter, 1 pint Prowl  
and an additional 1 pint Prowl.

Drill: 62 pounds per acre.

Cultivate

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### Comparative cost (per acre)

Seed \$13.90  
Operations \$42.00

**Total** \$55.90

### Comparative cost (per acre)

Seed \$11.10  
Operations \$43.70

**Total** \$54.80

## Narrow vs. Wide Row, Gary Hellerich

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VARIABLE	1990	1991	1992
Early population			
Narrow row	231,000 **	101,000	150,000 **
Wide row	123,000	78,000	92,000 **
Final population			
Narrow row	202,000 **	105,000 *	25,000 **
Wide row	117,000	63,000	45,000 **
Population loss			
Narrow row	17.1% *		83.3%
Wide row	3.0%		50.9%
Plant height			
Narrow row	35.0" *	24.5"	32.9"
Wide row	33.3"	23.4"	34.5"
Pod height			
Narrow row	6.5 " **	3.3"	2.8 " **
Wide row	4.4"	2.8"	2.0 " **
Moisture			
Narrow row	9.3%	7.3%	11.4% **
Wide row	9.3%	7.4%	11.5%
Test weight			
Narrow row	57.2 **	55.5	53.1 *
Wide row	56.7	56.6	52.3 *
Yield (13 %)			
Narrow row	25.5 **	29.4	39.7 **
Wide row	31.4	25.1	31.7

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