

Agronomy 212 – Crop Growth, Productivity, and Management

Soybean - Row Width

Goal

Soybean Row Widths

Percent distribution and average row width - 2007

State	10.0 or less	10.1 to 18.5	18.6 or greater	Avg. row width (in)
Iowa	9	41	51	
Illinois	20	54	26	
Indiana	36	52	11	
Minnesota	13	31	55	
Missouri	24	52	24	
Nebraska	9	31	60	
Ohio	52	45	4	

Source: USDA - NASS

Water Management

Soil Conservation

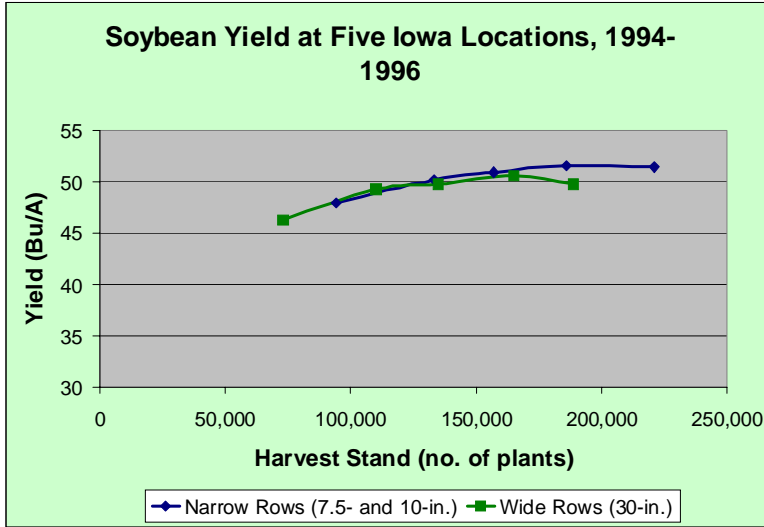
Planting Method	Row Width	Annual Soil Loss
		----T/A----
Up/Down Slope	7-inch	
	40-inch	
Contour	7-inch	
	40-inch	

Light Interception and Utilization

Benson and Shroyer, 1980

Row Width	Expected Yield Response vs. 40-inch	
	Average	Range
10-inch		
20-inch		
30-inch		

Yield Response



Source: Dr. Keith Whigham, ISU Extension

Northern Iowa - 1995-1996

Row Spacing	Yield (Bu/A)
10-inch	
30-inch	

Source: Dr. Keith Whigham, ISU Extension

Southern Iowa - 1995-1996

Row Spacing	Yield (Bu/A)
10-inch	
30-inch	

Source: Dr. Keith Whigham, ISU Extension

Average 1997-1999

Location	Row Spacing	
	15-inch	30-inch
-----Bu/A-----		
Northwest		
Northeast		
Central		
Southwest		
Southeast		

Source: Dr. Keith Whigham, ISU Extension

Weed Management

Switching to Narrow Rows

Summary