

Agronomy 212 – Crop Growth, Productivity, and Management

Corn - Row Width

Goals and Considerations

Common Row Widths for Crops

Corn Row Widths

Percent distribution by average row width - 2007

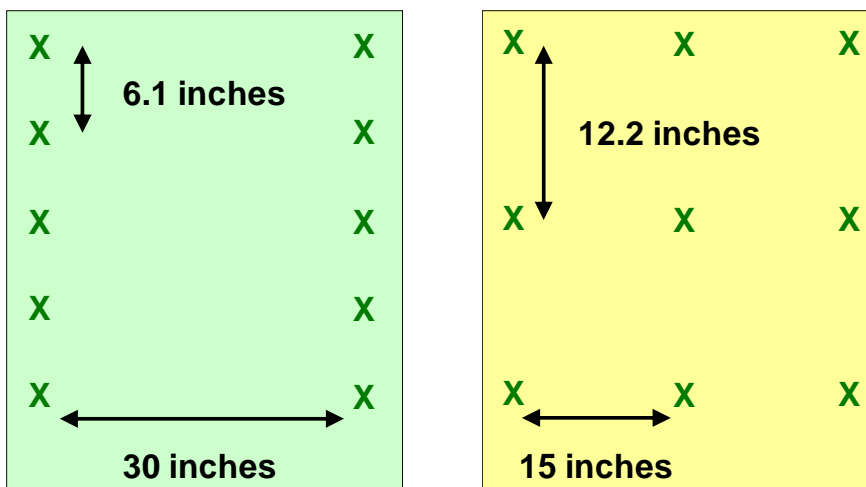
State	Row Width (inches)				Avg.
	20.5 or less	20.6 to 30.5	30.6 to 36.5	36.6 or greater	
Iowa	2	73	22	3	
Illinois	1	78	19	2	
Indiana	4	73	21	2	
Minnesota	7	71	20	2	
Nebraska	0	56	32	11	
Ohio	1	74	34	1	
Wisconsin	2	57	31	10	

USDA National Agriculture Statistics Service

Theoretical Benefits of Narrower Row Widths

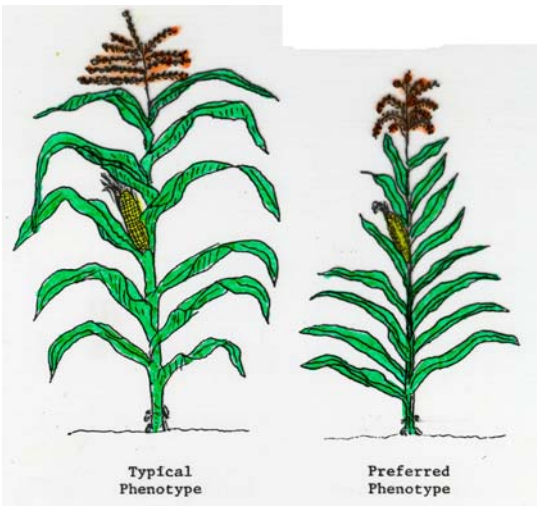
Equidistant Plant Spacing

Corn Plant Spacing at 34,000 PPA



Cropping System

Yield Response



Typical
Phenotype

Preferred
Phenotype

Relative yield differences of corn grown in 15- and 38-inch row spacings when compared with 30-inch row spacings.

Year	15-inch	38-inch
1995		
1996		
1997		
1998		
1999		
2000		
Average		

Source: ISU Extension

Corn Silage

Other Benefits of Narrow Rows

Weed Management

Equipment and Other Inputs

Switching to Narrow Rows