













Row	Butler	/ille, IN	Farmland, IN		Columbia City, IN	
spacing	2005	2006	2005	2006	2005	2006
			Grain yie	ld (bu a⁻¹)-		
7.5	70.2 a	44.2 a	69.3 a	48.3 a	35.8 a	48.2 a
15	70.5 a	43.8 a	66.3 a	47.4 a	36.9 a	45.6 a
30	65.6 b	36.5 b	56.8 b	41.9 b	36.8 a	48.2 a























	Germination	Recommended Seeding Rates			
State		30"	15"	7.5"	
		Seeds or plants acre <sup>-1</sup>			
Illinois		-	-	-	
lowa-seeds	90%	125 to 140	125 to 140	200*	
Kentucky-plants	80%	111 to 139	139 to 167	119 to 179	
Michigan-seeds	90%	122 to 157	139 to 174	175 to 280	
Missouri-seeds	90%	140,000	175,000	200,000	
Ohio-seeds	90*90%	129,000	160,000	196,000	
Indiana-seeds	90*90%	129,000	160,000	196,000	
Wisconsin		-	-	-	

























Planting Date Shift Ov	ver the Last Decade			
<ul> <li>How has your average soybean planting date changed from 10 years ago? (1253 respondents)</li> </ul>				
Planting date shift	Percent of growers			
One week earlier	28%			
Two weeks earlier	32%			
Three weeks earlier	7%			
Later by one week	3%			
Other	3%			
No change	27%			
<u>_</u>	Conley and Santini, 2007; CM			

What is Driving this Shift?				
<ul> <li>Rank the importance of the followin that have influenced your planting of</li> </ul>	g factors for late? (1 to 5)			
Reason for shift	Importance			
Yield increase	1.9			
Weather changes	2.0			
Improved soybean varieties	2.1			
Seed applied technology advances	2.5			
Spread out work load	2.8			
Industry re-plant programs	3.5			
Co	nley and Santini, 2007; C			









Defining Planting Date Responses in N.	Illinois*
2001-2003 University of Illinois	

	Source: E. Nafziger University of Illinois					
Seed rate <sup>†</sup>	Planting date					
000/acre	Early April	Late April	Early May	Late May		
	bushel/acre					
75	38.7	45.8	46.6	43.5		
125	41.9	48.3	47.6	46.5		
175	43.8	48.7	48.3	46.5		
225	45.3	48.9	48.9	46.6		

\*Soybean yield averaged over nine environments in Northern Illinois. \*Seeding rates are expressed as <u>viable</u> seeds per acre.

Defining Planting Date Responses in S. Illinois* 2001-2003 University of Illinois					
Source: E. Nafziger University of Illinois					
Seed rate <sup>†</sup>	Planting date				
000/acre	Mid-April	Early May	Late May	Early June	
	bushel/acre				
75	30.4	33.7	35.9	30.6	

125

175

225

29.3

32.3

32.9

\*Soybean yield averaged over four environments in Southern Illinois. \*Seeding rates are expressed as <u>viable</u> seeds per acre.

33.7

34.6

35.4

35.3

36.3

34.6

32.8

32.4

33.7



Source: E. Nafziger University of Illinois

Defining Planting Date Responses in Illinois 2001-2003 University of Illinois CMRA Project

"In Northern Illinois....Optimum planting rates for planting in the optimum window were about 150,000 to 160,000 <u>viable</u> seeds per acre, but this rose to above 200,000 per acre if planting was earlier than the optimum time."

"Still it appears that planting rate should be between 150,000 to 175,000 <u>viable</u> seeds per acre in Southern Illinois."

> Source: E. Nafziger University of Illinois













