

Soybean Rolling Trial

Trial ID: 2020-SR02 – R.M. of Springfield

Objective: Quantify the agronomic and economic impacts of late rolling in soybeans

Summary: Late rolling caused extensive plant damage. Yield significantly decreased with late rolling, by 6.8 bu/ac. As a result, late rolling was not economic.

Trial Information⁺

Treatment	t Late Rolling (R1)		
Soil Texture	Clay		
Previous Crop	Ryegrass		
Tillage	Zero Till		
Seeding Equipment	60 ft Planter		
Seeding Date	May 22		
Variety	NSC Sperling RR2Y		
Row Spacing	15″		
Plant Stand @ R1	129 000 plants/ac		
Harvest Date	September 22		
+ Rolling after V2 is not recommended; this trial was designed to test late rolling			

Precipitation (mm)

	Мау	June	July	August
Normal	54.4	90.7	81.1	73.7
Rainfall	19.6	58.1	30.5	85

Post-Rolling Breakage

	Breakage (R1, after rolling)		
Rolled	47 000 plants/ac		
Unrolled	0 plants/ac		

NDVI Field Image August 19







Additional On-Farm Network Research Reports



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Overall Yield & Economics					
	Mean (bu/ac)	Cost ⁺	Change in Profit/ac (@ soybean price \$10-\$12/bu)**		
Rolled	36.6	\$5/ac	-\$73 to -\$87/ac		
Unrolled	43.4				
Yield Difference	-6.8				
P-Value	0.0154				
CV	13.1%				
Significance	Yes	Economic	Νο		

++ Change in profit is calculated using the change in income/ac due to the significant yield difference and the cost/ac of rolling

