

# Soybean Biological Trial

#### Trial ID: 2022-SB07 – R.M. of Cartwright-Roblin

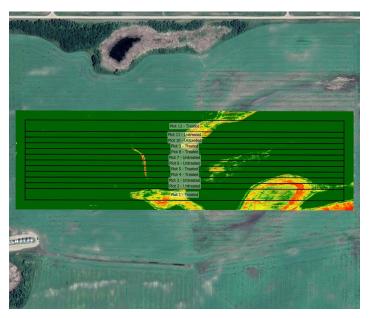
**Objective:** Quantify the agronomic and economic impacts of biological products for soybean production.

**Summary:** There was no significant yield difference between soybeans treated with Envita<sup>®</sup> and those without. Due to the lack of yield response, there was a decrease in profit/ac in the treated area of the trial, equivalent to the cost of product application.

#### **Trial Information<sup>+</sup>**

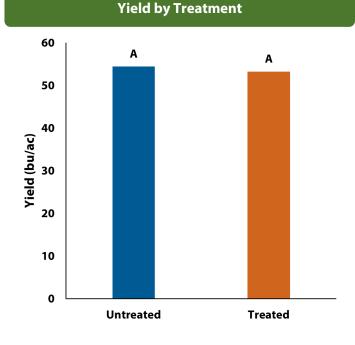
Treatment	Envita®			
<b>Application Timing</b>	V3			
Application Date	July 5			
Application Rate	40 ac/jug			
Application Method	Broadcast			
Soil Texture	Loam			
Previous Crop	Wheat			
Tillage	Zero Till			
Seeding Date	June 7			
Variety	Akras R2			
Seeding Rate	150,000 seeds/ac			
Row Spacing	12″			
Plant Stand @ R1	166,000 plants/ac			
Harvest Date	September 30			
+Envita® is a biological product intended to enable plant foliage and				
roots to fix their own nitrogen.				

#### NDVI Field Image August 13



### Precipitation (mm)

	Мау	Jun	Jul	Aug	Total
Rainfall	124.8	48	108.5	30.7	312
Normal	61.1	89.8	68.3	72.3	291.5
% Normal	204%	53%	159%	42%	107%







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Overall Yield & Economics						
	Mean (bu/ac)	Cost <sup>+</sup>	Change in Profit/ac <sup>++</sup>			
Envita®	53.3	\$14.50/ac	-\$14.50/ac			
Untreated	54.4					
Yield Difference	-1.1					
P-Value	0.5832					
CV	7.6%					
Significance	Νο	Economic	Νο			

+ Based on an estimated cost of \$14.50/ac for biological products; does not include application costs.

++ Yields were not significantly different, therefore profit/ac decreased by the cost/ac of the biological treatment.

