

Soybean Biological Trial

Trial ID: 2022-SB05 – R.M. of Oakland-Wawanesa

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

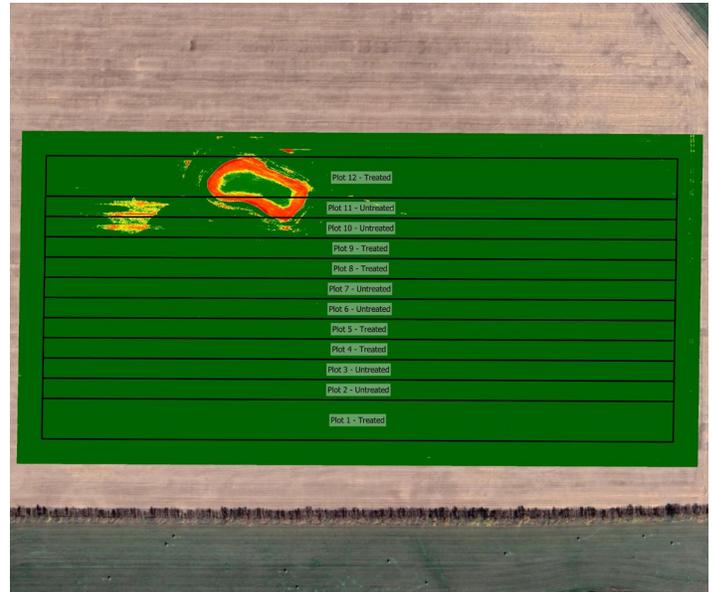
Summary: There was no significant yield difference between soybeans treated with Envita® and those without. Due to the lack of yield response, there was a decrease in profit/ac in the treated area of the trial, equivalent to the cost of product application.

Trial Information †

Treatment	Envita®
Application Timing	V4
Application Date	July 7
Application Rate	40 ac/jug
Application Method	Broadcast
Soil Texture	Clay Loam
Previous Crop	Barley
Tillage	Conventional
Seeding Date	May 25
Variety	Young R2X
Seeding Rate	160,000 seeds/ac
Row Spacing	10"
Plant Stand @ R2	136,000 plants/ac
Harvest Date	September 30

† Envita® is a biological product intended to enable plant foliage and roots to fix their own nitrogen.

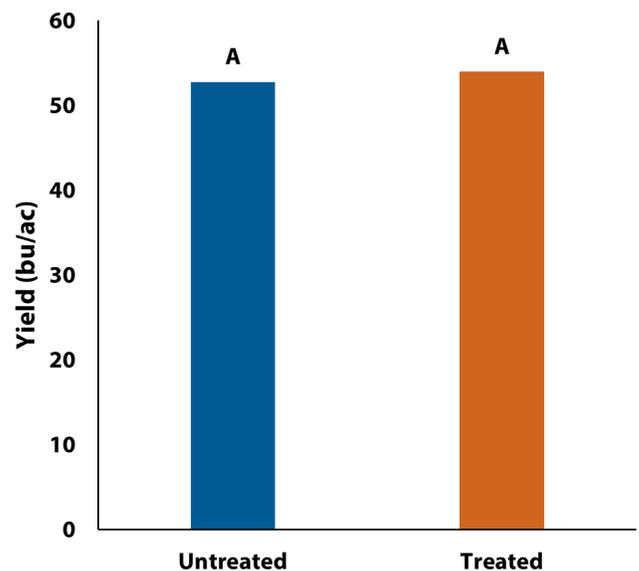
NDVI Field Image August 11



Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	95.8	96.4	108.4	77.2	377.8
Normal	51.2	72.8	74.4	67.5	265.9
% Normal	187%	132%	146%	114%	142%

Yield by Treatment





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Soybean Biological Trial

Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Envita®	54	\$14.50/ac	-\$14.50/ac
Untreated	52.8		
Yield Difference	1.2		
P-Value	0.5663		
CV	4.7%		
Significance	No	Economic	No

† 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.