

# Soybean Biological Trial

**Trial ID:** 2020-SB01 – R.M. of Dauphin

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

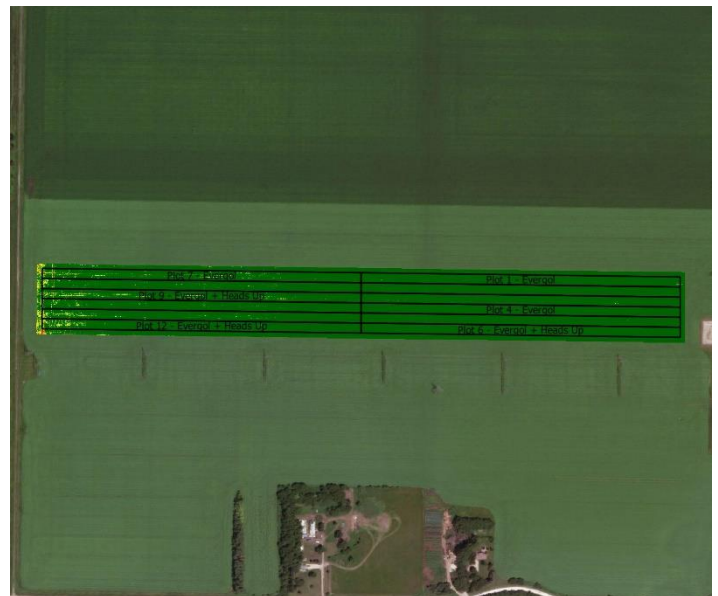
**Summary:** There was no significant yield difference between soybeans treated with HeadsUp and those without. Early season root rot severity was not significantly different between treatments. Due to the lack of yield response, there was a decrease in profit/ac equivalent to the cost of product application.

## Trial Information†

<b>Treatment</b>	HeadsUp Seed Treatment
<b>Soil Texture</b>	Clay
<b>Previous Crop</b>	Wheat
<b>Tillage</b>	Conventional
<b>Seeding Date</b>	May 18
<b>Variety</b>	Amirani R2
<b>Seeding Rate</b>	200 000 seeds/ac
<b>Row Spacing</b>	10"
<b>Plant Stand @ V2</b>	190 000 plants/ac
<b>Harvest Date</b>	September 13

† HeadsUp seed treatment is a biological product intended to reduce fungal and bacterial disease pressure

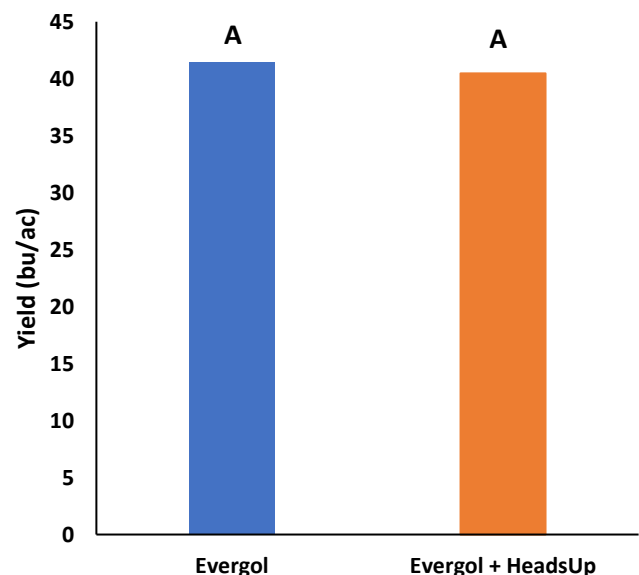
## NDVI Field Image August 14



## Precipitation (mm)

	May	June	July	August
<b>Normal</b>	54.3	86.7	73.2	63.3
<b>Rainfall</b>	31.8	101	67.9	98.4

## Yield by Treatment



## Early Season Root Rot Severity†

	Root Rot Severity	Letter Group†
<b>Evergol + HeadsUp</b>	43%	A
<b>Evergol</b>	37%	A

† No significant difference in root rot severity between treatments



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### Overall Yield & Economics

	<b>Mean (bu/ac)</b>	<b>Cost †</b>	<b>Change in Profit/ac ††</b>
<b>Evergol + HeadsUp</b>	40.5	\$5/ac	-\$5/ac
<b>Evergol</b>	41.5		
<b>Yield Difference</b>	-1.0		
<b>P-Value</b>	0.2057		
<b>CV</b>	7.3%		
<b>Significance</b>	<b>No</b>	<b>Economic</b>	<b>No</b>

† Based on an estimated cost for biological products

†† Yields were not significantly different, therefore there is no increased income to offset the cost of the biological product