

# Soybean Biological Trial

**Trial ID:** 2021-SB05 – R.M. of De Salaberry

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

**Summary:** There was no significant yield difference between soybeans treated with OHM® 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

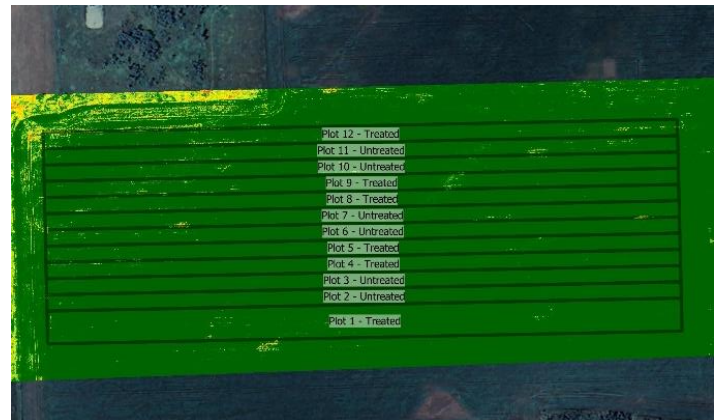
<b>Treatment†</b>	OHM®
<b>Application Timing</b>	R1
<b>Application Date</b>	July 7
<b>Application Rate</b>	200 ml/ac
<b>Application Method</b>	Foliar Spray
<b>Soil Texture</b>	Loamy Fine Sand
<b>Previous Crop</b>	Corn
<b>Tillage</b>	Conventional
<b>Seeding Date</b>	May 31
<b>Variety</b>	P00A49X
<b>Seeding Rate</b>	175 000 seeds/ac
<b>Row Spacing</b>	15"
<b>Plant Stand @ R4</b>	115 000 plants/ac
<b>Harvest Date</b>	September 28

† OHM® is a biological product intended to optimize nutrient use efficiency

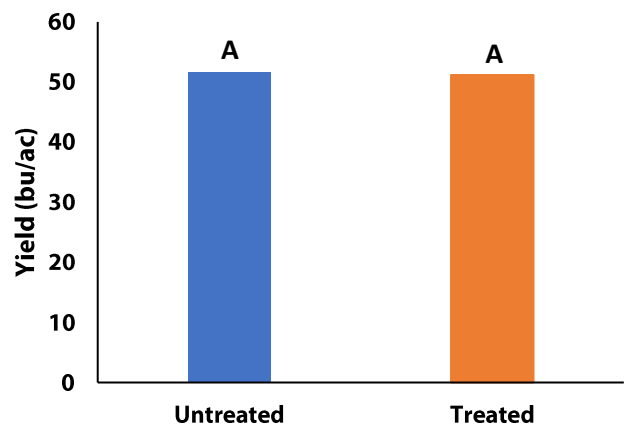
## Precipitation (mm)

	May	Jun	Jul	Aug	Total
<b>Rainfall</b>	54.5	62	44.7	105	265.9
<b>Normal</b>	57.8	89.5	80.6	71.8	299.7
<b>% Normal</b>	94%	69%	55%	146%	89%

## NDVI Field Image August 14



## Yield by Treatment



## Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
<b>Treated</b>	51.2	\$7/ac	-\$7/ac
<b>Untreated</b>	51.7		
<b>Yield Difference</b>	-0.5		
<b>P-Value</b>	0.5156		
<b>CV</b>	8.3%		
<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