

# Soybean Biological Trial

**Trial ID:** 2021-SB01 – R.M. of Woodlands

**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

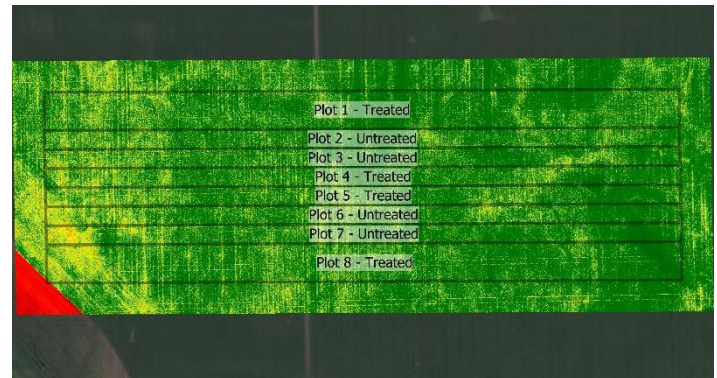
<b>Treatment†</b>	OHM®
<b>Application Timing</b>	V3
<b>Application Date</b>	June 22
<b>Application Rate</b>	200 ml/ac
<b>Application Method</b>	Foliar Spray
<b>Soil Texture</b>	Clay
<b>Previous Crop</b>	Oats
<b>Tillage</b>	Conventional
<b>Seeding Date</b>	May 17
<b>Variety</b>	Bourke R2X
<b>Seeding Rate</b>	210 000 seeds/ac
<b>Row Spacing</b>	10"
<b>Plant Stand @ R3</b>	141 000 plants/ac
<b>Harvest Date</b>	September 21

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

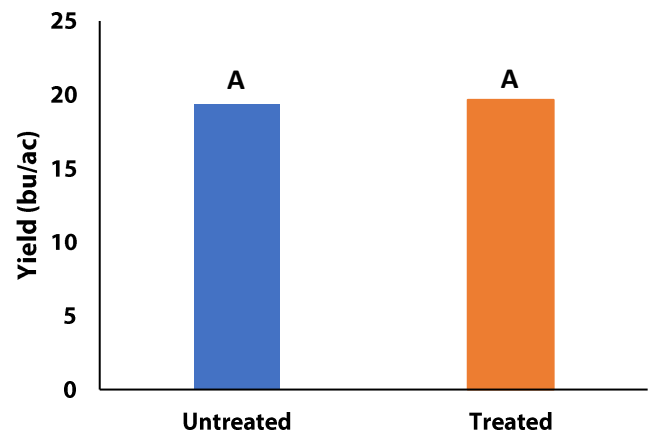
## Precipitation (mm)

	May	Jun	Jul	Aug	Total
<b>Rainfall</b>	36.4	45.7	12	79.5	173.6
<b>Normal</b>	53.8	92	66.4	63.3	275.5
<b>% Normal</b>	68%	50%	18%	126%	63%

## NDVI Field Image August 15



## Yield by Treatment



## Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
<b>Treated</b>	19.7	\$7/ac	-\$7/ac
<b>Untreated</b>	19.4		
<b>Yield Difference</b>	0.3		
<b>P-Value</b>	0.4522		
<b>CV</b>	2.1%		
<b>Significance</b>	No	Economic	No

† 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