



# Barley Plant Growth Regulator

**Trial ID: 2022-BPGR07 — R.M. of Montcalm**

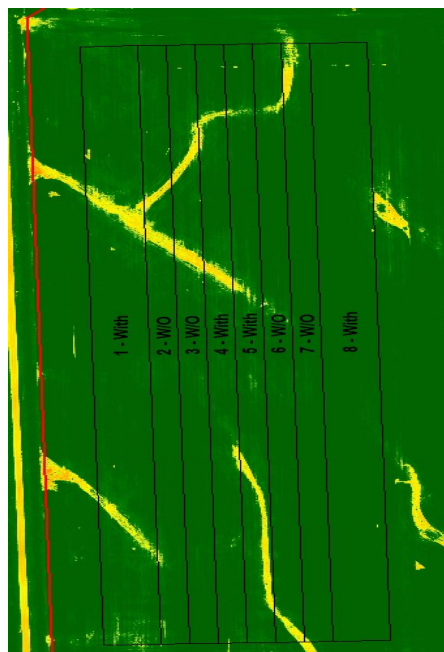
**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality on barley.

**Summary:** There was a significant reduction in plant height between the treatments. There was no significant lodging, yield or quality differences between the treatments. As a result, there was a decrease in profit equivalent to the increase in cost for the plant growth regulator.

## Trial Information

Treatment	Moddus
Application Timing	Z32—July 13
Application Rate	30 ac/jug
Previous Crop	Barley
Tillage	Conventional
Seeding Equipment	42' Disc Drill
Seeding Date	June 20
Seeding Rate	140 lbs/ac
Variety	AAC Synergy
Row Spacing	7.5"
Harvest Date	October 09

## NDVI Imagery August 03



## Barley Response

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	74 <sup>B</sup>	1	12.0	2.0
Untreated	88 <sup>A</sup>	1	11.4	2.0

## Precipitation<sup>†</sup> (mm)

	May	June	July	Aug	Total
Rainfall	113	58	66	30	267
Normal	56	73	77	43	249
% Normal	201%	79%	86%	69%	107%

<sup>†</sup>Growing season precipitation (mm) - May 01—Aug 15

## Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac
Treated	100.5	\$14/ac	-\$14/ac
Untreated	95.0		\$0/ac
P-Value	0.1310	<b>Economics: Since yield was not significantly different, there is no increased income to offset the cost of the plant growth regulator.</b>	
CV	3.87%		
Significance	No		

<sup>†</sup>Based on Nov 2022 MSRP of \$833.68/case; represents product only, does not include application cost.



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