

## **Barley Plant Growth Regulator**

## Trial ID: 2023-BPGR05 — R.M. of Alexander

**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 and lodging between the treatments. There was no significant 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.

That information			
Treatment	Moddus		
Application Timing	GS37—June 19		
Application Rate	30 ac/jug		
Previous Crop	Canola		
Tillage	Conventional Tillage		
Seeding Equipment	60' Air Drill		
Seeding Date	May 19		
Seeding Rate	145 lbs/ac		
Variety	AAC Synergy		
Row Spacing	10"		
Harvest Date	August 28		

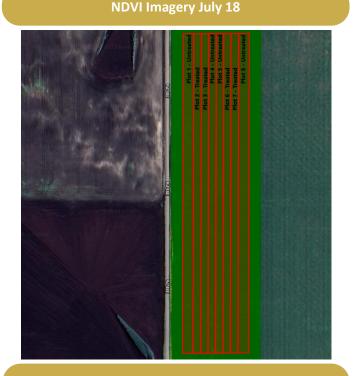
rial Information

## Precipitation<sup>+</sup> (mm)

	May	June	July	Aug	Cumulative
Rainfall	11	73	31	27	142
Normal	58	88	87	76	309
% Normal	19%	83%	35%	36%	46%

+Growing season precipitation (mm)





## **Barley Response**

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	87	1	12.9	1
Untreated	88	6	13.5	2

**Overall Yield & Economics** 

Mean (bu/ac)	Cost⁺	Change in Profit/ac	
136.1	\$19.50/ac	-\$19.50/ac	
130.3		\$0/ac	
0.0595		vas not significantly different, there is no increased	
2.06%	income to offset the cost	income to offset the cost of the plant growth regulator.	
No			
	136.1   130.3   0.0595   2.06%	136.1 \$19.50/ac   130.3 Economics: Since yield wincome to offset the cost   2.06% Economics: Since yield wincome to offset the cost	

\*Based on Nov 2023 MSRP of \$833.68/case; represents product only, does not include application cost.





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