



Barley Plant Growth Regulator

Trial ID: 2023-BPGR04 — R.M. of MacDonald

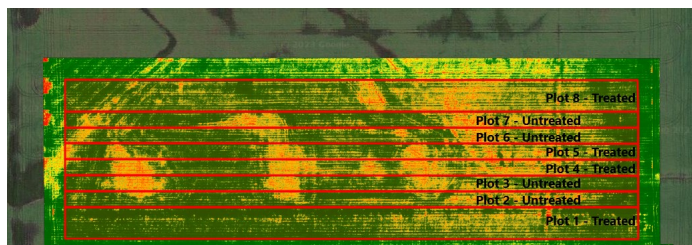
Objective: The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality on barley.

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.

Trial Information

Treatment	Moddus
Application Timing	GS32—June 13
Application Rate	30 ac/jug
Previous Crop	Canola
Tillage	Conventional Tillage
Seeding Equipment	60' Disc Drill
Seeding Date	May 17
Seeding Rate	115 lbs/ac
Variety	AAC Connect
Row Spacing	10"
Harvest Date	August 30

NDVI Imagery July 20



Precipitation[†] (mm)

	May	June	July	Aug	Cumulative
Rainfall	40	58	26	36	159
Normal	60	84	77	75	295
% Normal	66%	69%	34%	48%	54%

[†]Growing season precipitation (mm)

Barley Response

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	55 ^B	1	10.6	2
Untreated	64 ^A	1	11.2	1



Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac
Treated	73.5	\$19.50/ac	-\$19.50/ac
Untreated	68.8		\$0/ac
P-Value	0.5169	Economics: Since yield was not significantly different, there is no increased income to offset the cost of the plant growth regulator.	
CV	12.89%		
Significance	No		

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



MCA would like to thank Tone Ag Consulting Ltd. for the research support and SGS Canada Inc. for quality analysis for this trial.



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