



Barley Plant Growth Regulator

Trial ID: 2023-BPGR01 — R.M. of Morris

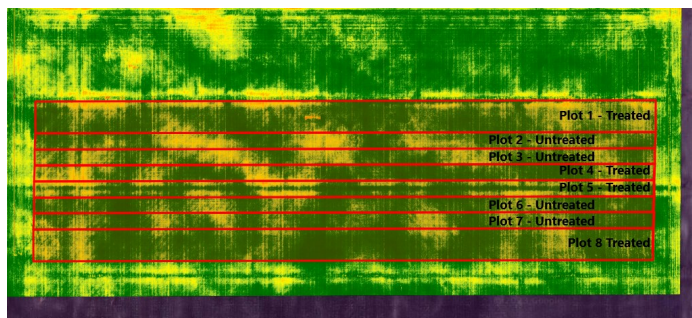
Objective: The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality on barley.

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 07
Application Rate	30 ac/jug
Previous Crop	Canola
Tillage	Conventional Tillage
Seeding Equipment	60' Disc Drill
Seeding Date	May 13
Seeding Rate	105 lbs/ac
Variety	AAC Synergy
Row Spacing	10"
Harvest Date	August 18

NDVI Imagery July 17



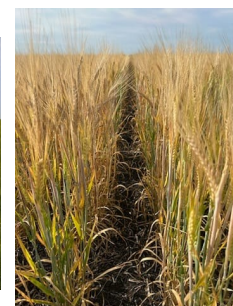
Precipitation[†] (mm)

	May	June	July	Aug	Cumulative
Rainfall	10	22	60	22	114
Normal	56	98	82	70	305
% Normal	18%	23%	73%	31%	37%

[†]Growing season precipitation (mm)

Barley Response

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	57 ^A	1	12.9	1
Untreated	53 ^B	1	12.5	1



Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac
Treated	60.5	\$19.50/ac	-\$19.50/ac
Untreated	58.1		\$0/ac
P-Value	0.5638	Economics: Since yield was not significantly different, there is no increased income to offset the cost of the plant growth regulator.	
CV	8.91%		
Significance	No		

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



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