



Barley Plant Growth Regulator

Trial ID: 2022-BPGR06 — R.M. of Alexander

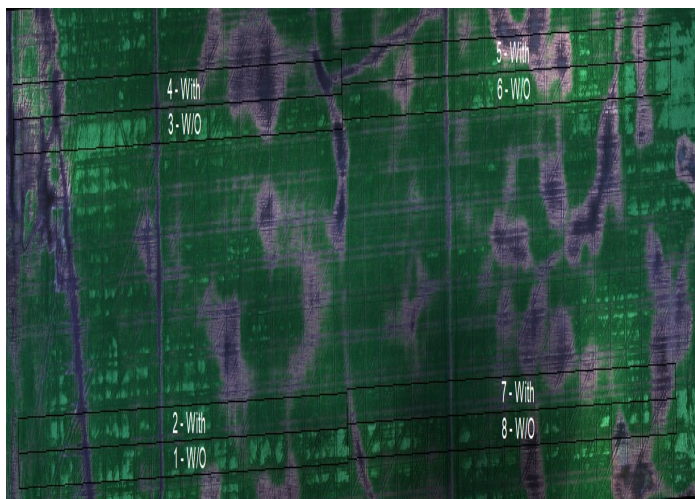
Objective: The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality on barley.

Summary: There was no significant plant height, lodging and yield 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 07
Application Rate	24 ac/jug
Previous Crop	Soybeans
Tillage	Conventional
Seeding Equipment	60' Air Drill
Seeding Date	June 10
Seeding Rate	140 lbs/ac
Variety	AAC Synergy
Row Spacing	10"
Harvest Date	September 07

RGB Imagery July 24



Barley Response

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	54	1	--	--
Untreated	62	1	12.0	2.0

Precipitation[†] (mm)

	May	June	July	Aug	Total
Rainfall	100	68	104	72	345
Normal	54	73	68	81	276
% Normal	186%	94%	153%	89%	125%

[†]Growing season precipitation (mm) - May 01—Aug 15

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
Treated	76.5	\$17/ac	-\$17/ac
Untreated	75.8		\$0/ac
P-Value	0.7831	Economics: Since yield was not significantly different, there is no increased income to offset the cost of the plant growth regulator.	
CV	4.38%		
Significance	No		

[†]Based on Nov 2022 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, Syngenta for providing the product and SGS Canada Inc. for quality analysis for this trial.



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