



Barley Plant Growth Regulator

Trial ID: 2022-BPGR01 — R.M. of Grassland

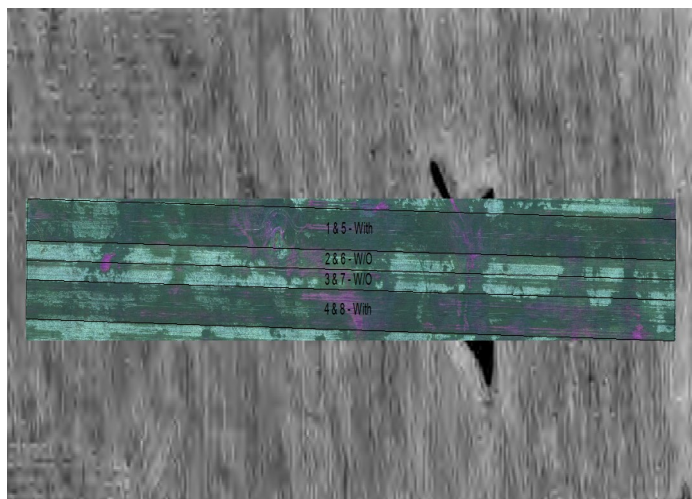
Objective: The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality on barley.

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	Z32—June 17
Application Rate	24 ac/jug
Previous Crop	Canola
Tillage	Minimal
Seeding Equipment	80' Air Drill
Seeding Date	May 22
Seeding Rate	100 lbs/ac
Variety	Conlon
Row Spacing	12"
Harvest Date	August 27

RGB Imagery July 24



Barley Response

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	77 ^B	2 ^B	11.1	2.0
Untreated	86 ^A	6 ^A	12.3	2.0

Precipitation[†] (mm)

	May	June	July	Aug	Total
Rainfall	96	77	95	28	296
Normal	47	69	69	54	239
% Normal	205%	111%	138%	52%	124%

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

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac
Treated	108.1	\$17/ac	-\$17/ac
Untreated	100.7		\$0/ac
P-Value	0.3359	Economics: Since yield was not significantly different, there is no increased income to offset the cost of the plant growth regulator.	
CV	6.90%		
Significance	No		

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



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