Barley Plant Growth Regulator

Trial ID: 2023-BPGR02 — R.M. of Oakland-Wawanesa

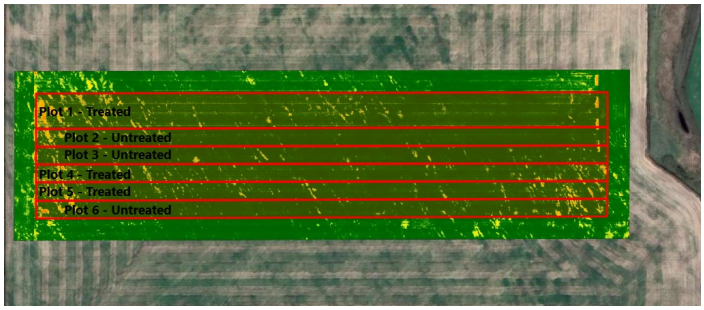
Objective: The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality on barley.

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 10
Application Rate	30 ac/jug
Previous Crop	Canola
Tillage	Minimal Tillage
Seeding Equipment	40’ Hoe Drill
Seeding Date	May 10
Seeding Rate	110 lbs/ac
Variety	AAC Connect
Row Spacing	10”
Harvest Date	August 17

NDVI Imagery July 12



Precipitation† (mm)

	May	June	July	Aug	Cumulative
Rainfall	22	104	15	39	**180**
Normal	76	97	78	69	**321**
% Normal	29%	108%	20%	56%	**56%**

†Growing season precipitation (mm)

Barley Response

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	65[B]	1	11.2	2
Untreated	80[A]	1	11.7	2

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac
Treated	89.7	$19.50/ac	-$19.50/ac
Untreated	98.1		$0/ac
P-Value	0.1102	**Economics: Since yield was not significantly different, there is no increased income to offset the cost of the plant growth regulator.**	
CV	3.99%		
Significance	**No**		

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

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