Barley Plant Growth Regulator

Trial ID: 2022-BPGR04 — R.M. of De Salaberry

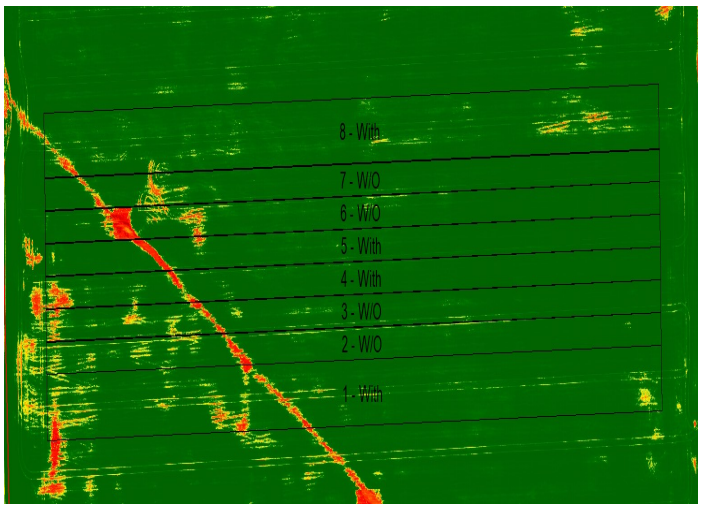
Objective: The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality on barley.

Summary: There was a significant reduction in plant height between the treatments. There was no significant yield, lodging 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 29
Application Rate	24 ac/jug
Previous Crop	Canola
Tillage	Conventional
Seeding Equipment	60’ Disc Drill
Seeding Date	June 07
Seeding Rate	110 lbs/ac
Variety	AAC Connect
Row Spacing	10”
Harvest Date	September 10

NDVI Imagery July 24



Barley Response

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	67[B]	1	12.1	1.0
Untreated	76[A]	1	12.0	1.0

Precipitation† (mm)

	May	June	July	Aug	Total
Rainfall	137	72	80	48	**336**
Normal	58	74	81	92	**305**
% Normal	235%	96%	99%	52%	**110%**

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

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac
Treated	100.1	$17/ac	-$17/ac
Untreated	94.2		$0/ac
P-Value	0.0732	**Economics: Since yield was not significantly different, there is no increased income to offset the cost of the plant growth regulator.**	
CV	3.16%		
Significance	**No**		

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

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