



# Barley Plant Growth Regulator

**Trial ID: 2022-BPGR05 — R.M. of Argyle**

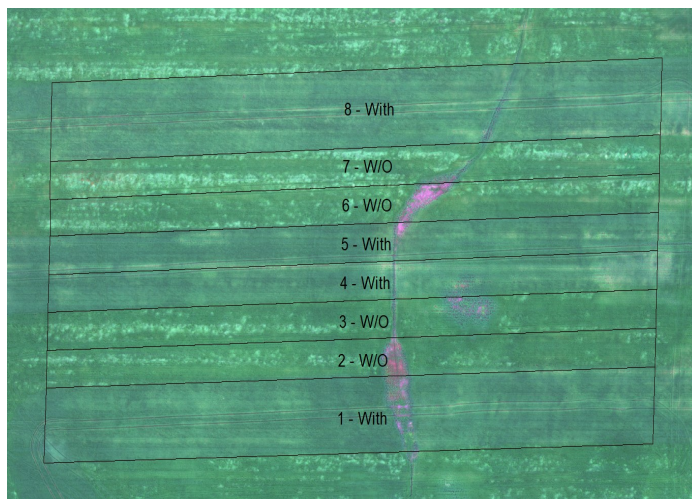
**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality on barley.

**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—July 06
Application Rate	24 ac/jug
Previous Crop	Canola
Tillage	Conventional
Seeding Equipment	60' Air Drill
Seeding Date	May 28
Seeding Rate	144 lbs/ac
Variety	CDC Bow
Row Spacing	7.5"
Harvest Date	September 02

## RGB Imagery July 24



## Barley Response

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	66 <sup>B</sup>	1 <sup>B</sup>	13.4	2.0
Untreated	75 <sup>A</sup>	4 <sup>A</sup>	13.3	2.0

## Precipitation<sup>†</sup> (mm)

	May	June	July	Aug	Total
Rainfall	146	53	92	27	318
Normal	61	78	70	65	274
% Normal	238%	68%	131%	42%	116%

<sup>†</sup>Growing season precipitation (mm) - May 01—Aug 15

## Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac
Treated	87.0	\$17/ac	-\$17/ac
Untreated	80.8		\$0/ac
P-Value	0.1597	<b>Economics: Since yield was not significantly different, there is no increased income to offset the cost of the plant growth regulator.</b>	
CV	5.59%		
Significance	No		

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



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