



Barley Plant Growth Regulator

Trial ID: 2022-BPGR03 — R.M. of De Salaberry

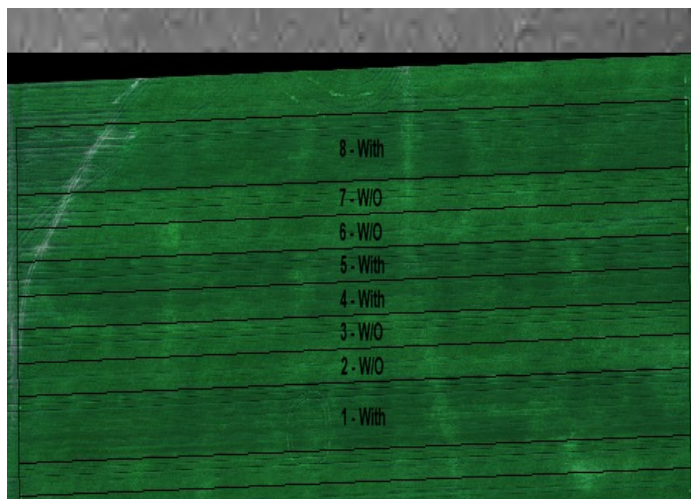
Objective: The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality on barley.

Summary: There was a significant reduction in 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 29
Application Rate	24 ac/jug
Previous Crop	Canola
Tillage	Conventional
Seeding Equipment	60' Disc Drill
Seeding Date	June 04
Seeding Rate	140 lbs/ac
Variety	Conlon
Row Spacing	10"
Harvest Date	September 02

RGB Imagery July 24



Barley Response

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	64	1 ^B	11.7	1.0
Untreated	73	2 ^A	12.3	1.0

Precipitation[†] (mm)

	May	June	July	Aug	Total
Rainfall	115	107	130	86	439
Normal	58	77	80	54	269
% Normal	199%	139%	162%	159%	163%

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

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac
Treated	101.5	\$17/ac	-\$17/ac
Untreated	96.5		\$0/ac
P-Value	0.1269	Economics: Since yield was not significantly different, there is no increased income to offset the cost of the plant growth regulator.	
CV	3.47%		
Significance	No		

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



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