



Barley Plant Growth Regulator

Trial ID: 2021-BPGR02 — R.M. of De Salaberry

Objective: The purpose of this project is to quantify the impact of the plant growth regulator Moddus® (trinexapac-ethyl) on plant height, lodging, yield and quality of barley

TRIAL INFORMATION

Treatment	Moddus® vs. Untreated
Location	Arnaud
Previous Crop	Soybeans
Soil Texture	Clay
Tillage	Zero Tillage
Planting Date	April 27, 2021
Variety	CDC Austenson
Row Spacing	10"
Seeding Rate	139 lbs/ac
Fertilizer (N-P-K-S)	105N
Application Date	June 15, 2021
Application Timing	GS30 (5L)
Application Rate	24 ac/jug
Harvest Date	August 13, 2021

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	35	61	12	51	160
Normal	52	86	63	41	242

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

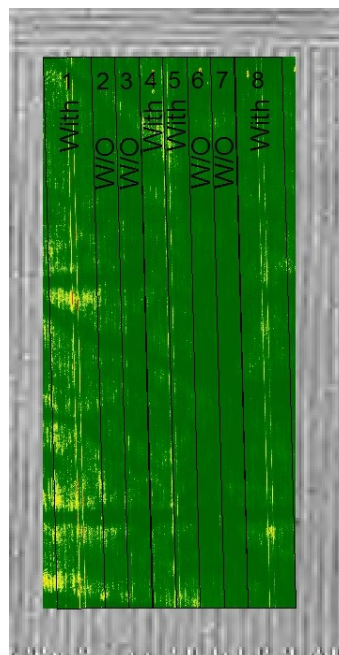
BARLEY RESPONSE

	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Moddus®	46 ^A	0	1	13.7
Untreated	64 ^B	0	1	13.0

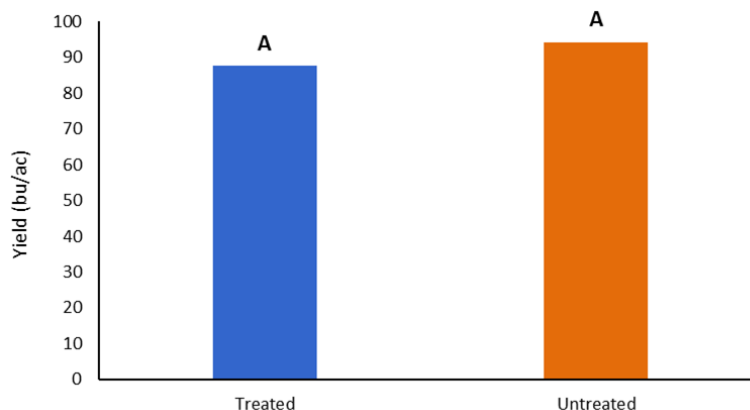
OVERALL YIELD

	Mean (bu/ac)
Moddus®	87.6 ^A
Untreated	94.3 ^A
Yield Difference	-6.7
P-Value	0.1122
CV	4.68%
Significance	No

FIELD IMAGE



YIELD BY TREATMENT



Summary: There was no significant yield difference between the Moddus® (trinexapac-ethyl) plant growth regulator application and the untreated check. There was a significant reduction in plant height due to the application of the plant growth regulator. There was no lodging observed within the trial. Rainfall was below normal for the growing season.



MCA would like to thank Tone Ag Consulting Ltd. for the research support and SGS Canada Inc. for the wheat quality analysis for this trial.



**MANITOBA
CROP
ALLIANCE**

Phone: 204-745-6661
Website: mbcropalliance.ca
Email: hello@mbcropalliance.ca