



Wheat Plant Growth Regulator

Trial ID: 2021-WPGR07 — R.M. of Rockwood

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 spring wheat

TRIAL INFORMATION

Treatment	Moddus® vs. Untreated
Location	Balmoral
Previous Crop	Peas
Soil Texture	Coarse Loams
Tillage	Conventional Tillage
Planting Date	May 04, 2021
Variety	AAC Starbuck VB
Row Spacing	10"
Seeding Rate	105 lbs/ac
Fertilizer (N-P-K-S)	117N 55P 21K
Application Date	June 13, 2021
Application Timing	GS32 (6L)
Application Rate	30 ac/jug
Harvest Date	August 06, 2021

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	40	32	13	34	119
Normal	52	87	63	41	242

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

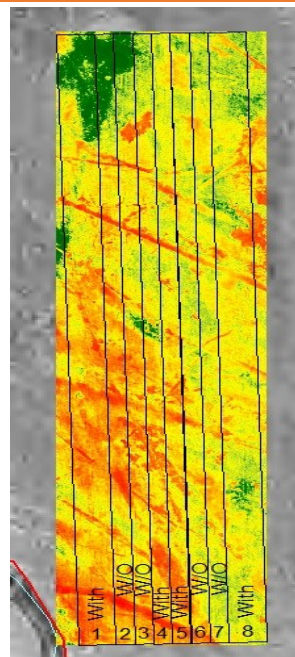
WHEAT RESPONSE

	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Moddus®	59 ^A	0	1	16.6
Untreated	62 ^B	0	1	16.6

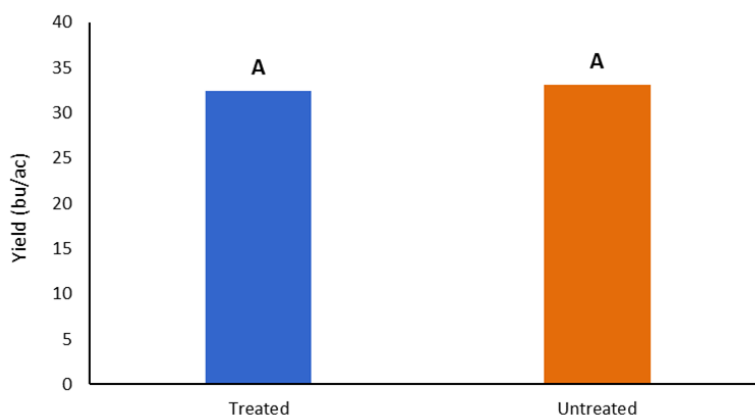
OVERALL YIELD

	Mean (bu/ac)
Moddus®	32.5 ^A
Untreated	31.1 ^A
Yield Difference	-0.6
P-Value	0.6719
CV	6.25%
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 well 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