



Wheat Plant Growth Regulator

Trial ID: 2021-WPGR12 — R.M. of Brokenhead

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	Beausejour
Previous Crop	Soybeans
Soil Texture	Clay Loams
Tillage	Conventional Tillage
Planting Date	April 30, 2021
Variety	AAC Starbuck VB
Row Spacing	10"
Seeding Rate	120 lbs/ac
Residual N	---
Fertilizer (N-P-K-S)	143N 41P
Application Date	June 14, 2021
Application Timing	GS30 (5L)
Application Rate	30 ac/jug
Harvest Date	August 16, 2021

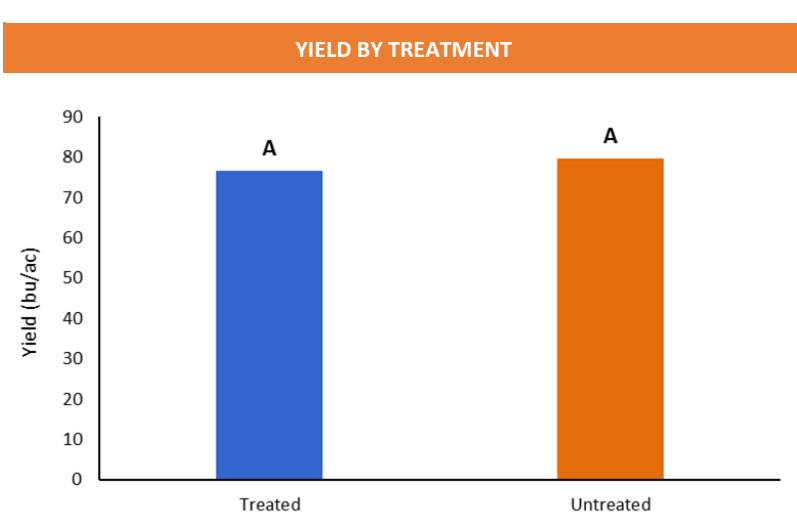


PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	52	26	24	33	134
Normal	51	85	71	38	244

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

WHEAT RESPONSE				
	Plant Height (cm)	Lodging Incidence (%)	Lodging Severity (1-10)	Protein %
Moddus®	80 ^A	0	1	14.9
Untreated	84 ^B	0	1	14.9

OVERALL YIELD	
	Mean (bu/ac)
Moddus®	76.6 ^A
Untreated	79.6 ^A
Yield Difference	-3.0
P-Value	0.1612
CV	2.97%
Significance	No



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.



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**MANITOBA
CROP
ALLIANCE**

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