



Wheat Plant Growth Regulator

Trial ID: 2021-WPGR06 — R.M. of Lac du Bonnet

Objective: The purpose of this project is to quantify the impact of the plant growth regulator Manipulator™ 620 (chlormequat chloride) on plant height, lodging, yield and quality of spring wheat

TRIAL INFORMATION

Treatment	Manipulator™ 620 vs. Untreated
Location	Molsen
Previous Crop	Wheat
Soil Texture	Clay
Tillage	Conventional Tillage
Planting Date	May 09, 2021
Variety	AC Carberry
Row Spacing	9"
Seeding Rate	150 lbs/ac
Fertilizer (N-P-K-S)	126N 52P 60K 27S
Application Date	June 08, 2021
Application Timing	GS30 (5L)
Application Rate	0.7 L/ac
Harvest Date	August 18, 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

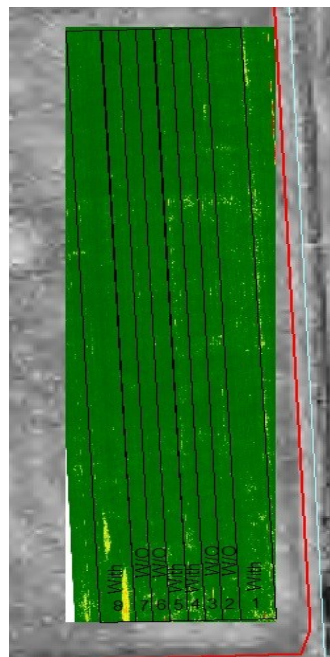
WHEAT RESPONSE

	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	80 ^A	0	1	13.7
Untreated	84 ^B	1	1	13.9

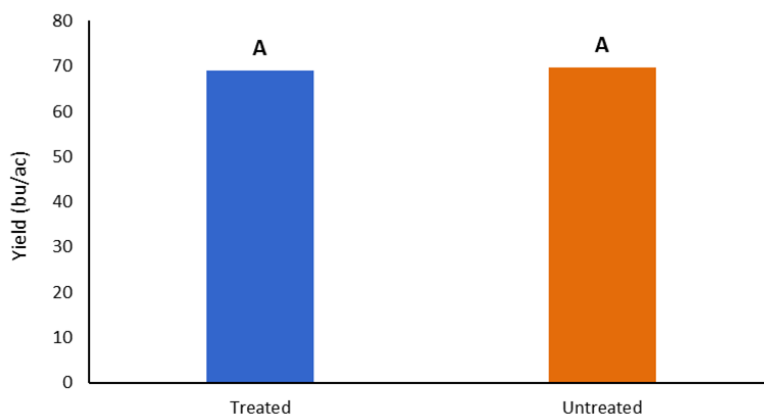
OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	69.0 ^A
Untreated	69.6 ^A
Yield Difference	-0.6
P-Value	0.6693
CV	2.09%
Significance	No

FIELD IMAGE



YIELD BY TREATMENT



Summary: There was no significant yield difference between the Manipulator™ 620 (chlormequat chloride) 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 very low amounts of lodging observed within the trial. Rainfall was below normal for the growing season.



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