Wheat Plant Growth Regulator

Trial ID: 2019-WPGR10 — R.M. of Woodlands

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	Warren
Previous Crop	
Soil Texture	Clay
Tillage	
Planting Date	May 03, 2019
Variety	
Row Spacing	10”
Seeding Rate	
Residual N	———
Fertilizer (N-P-K-S)	
Application Date	June 14, 2019
Application Timing	5L
Application Rate	0.7 L/ac
Harvest Date	August 19, 2019

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	18	66	64	4	**153**
Normal	58	85	71	49	**264**

†Growing season precipitation (mm)

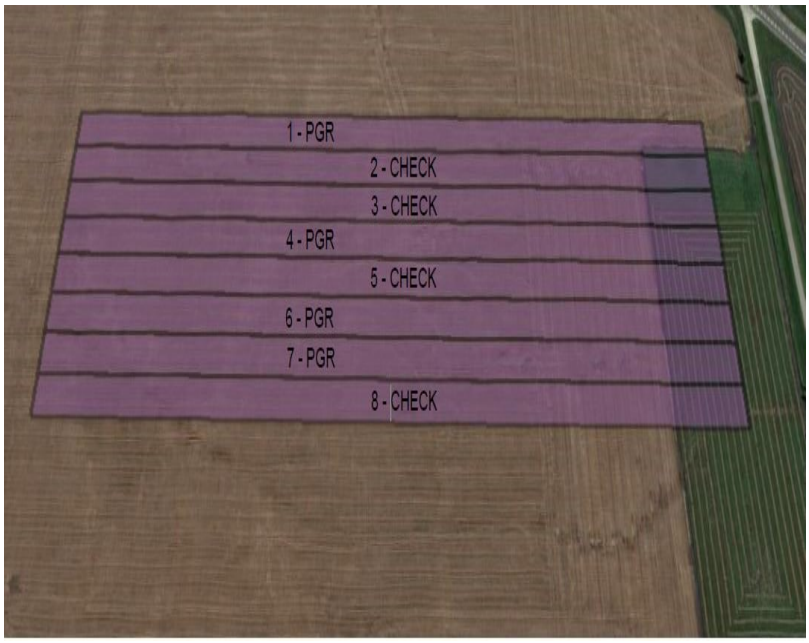
WHEAT RESPONSE

	Plant Height (inches)	Lodging		Protein
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	29	0	1	14.4
Untreated	32	0	1	14.5

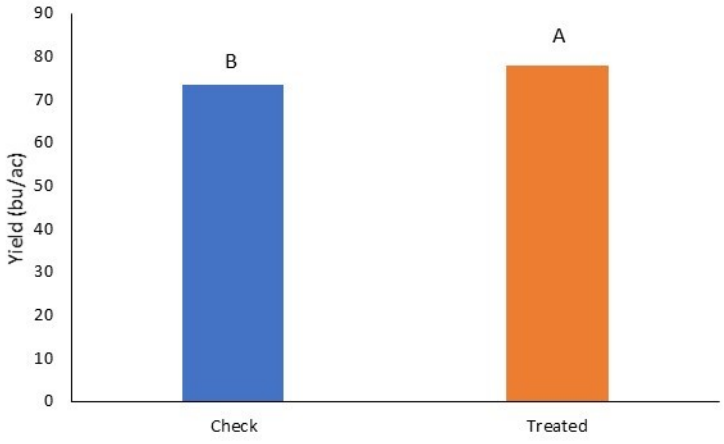
OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	77.9
Untreated	73.3
Yield Difference	4.6
P-Value	0.049
CV	4.1%
Significance	Yes

FIELD IMAGE



STRIP YIELD



Summary: There was a significant yield increase of 4.6 bu/ac with the Manipulator™ 620 plant growth regulator application compared to the untreated check. There was a significant reduction in plant height of 3” with plant growth regulator application. There was no lodging observed within the trial. Rainfall was near normal in July and below normal for the remainder of the growing season.

MWBGA would like to thank Belchim Crop Protection Canada for providing the product and Tone Ag Consulting Ltd. for the research support for this trial.

Phone: 204-745-6661
Website: mbwheatandbarley.ca
Email: info@mbwheatandbarley.ca