Wheat Plant Growth Regulator

Trial ID: 2019-WPGR03 — R.M. of Roland

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	Roland
Previous Crop	Corn
Soil Texture	Clay
Tillage	Conventional
Planting Date	April 27, 2019
Variety	AAC Brandon
Row Spacing	9”
Seeding Rate	124 lbs/ac
Residual N	———
Fertilizer (N-P-K-S)	100N 50P 10S
Application Date	June 06, 2019
Application Timing	5L
Application Rate	0.7 L/ac
Harvest Date	August 10, 2019

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	45	37	57	0	**141**
Normal	66	78	76	21	**243**

†Growing season precipitation (mm)

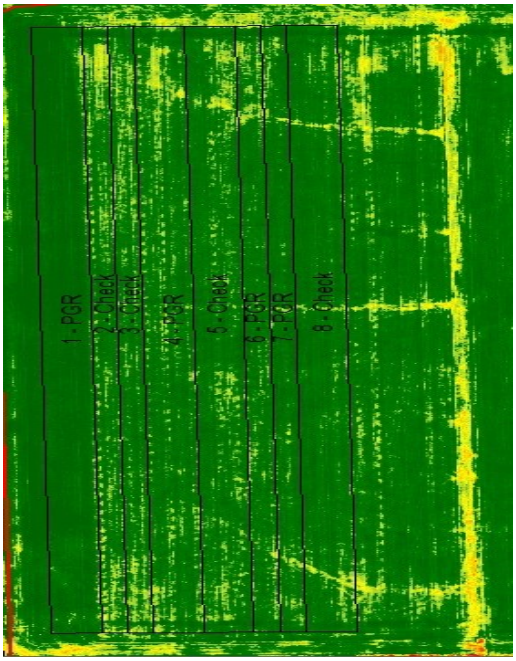
WHEAT RESPONSE

	Plant Height (inches)	Lodging		Protein
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	27	0	1	11.0
Untreated	29	0	1	11.0

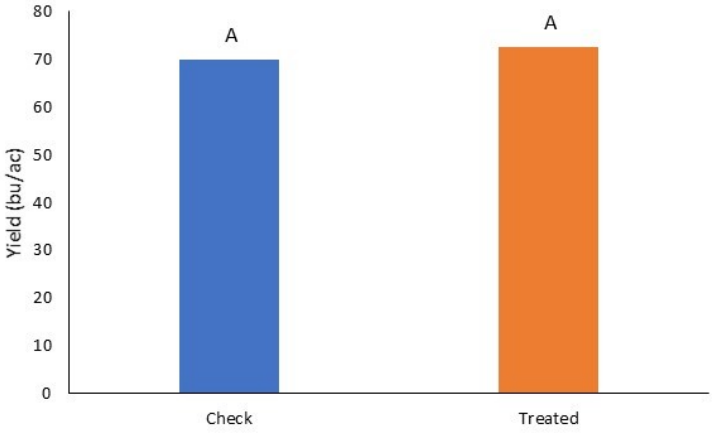
OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	52.3
Untreated	48.4
Yield Difference	2.6
P-Value	0.2768
CV	7.3%
Significance	No

FIELD IMAGE



STRIP YIELD



Summary: There was no significant yield difference between the Manipulator™ 620 plant growth regulator application and the untreated check. There was a significant reduction in plant height of 2” with plant growth regulator application. There was no lodging observed within the trial. Rainfall was below normal for the entire 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.

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