Wheat Plant Growth Regulator

Trial ID: 2019-WPGR07 — R.M. of St. Andrews

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	St. Andrews
Previous Crop	Soybeans
Soil Texture	Clay
Tillage	Conventional
Planting Date	May 02, 2019
Variety	AAC Brandon
Row Spacing	10”
Seeding Rate	110 lbs/ac
Residual N	———
Fertilizer (N-P-K-S)	105N 28P 10S
Application Date	June 12, 2019
Application Timing	5L
Application Rate	0.7 L/ac
Harvest Date	August 21, 2019

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	20	24	61	7	**113**
Normal	59	85	71	52	**268**

†Growing season precipitation (mm)

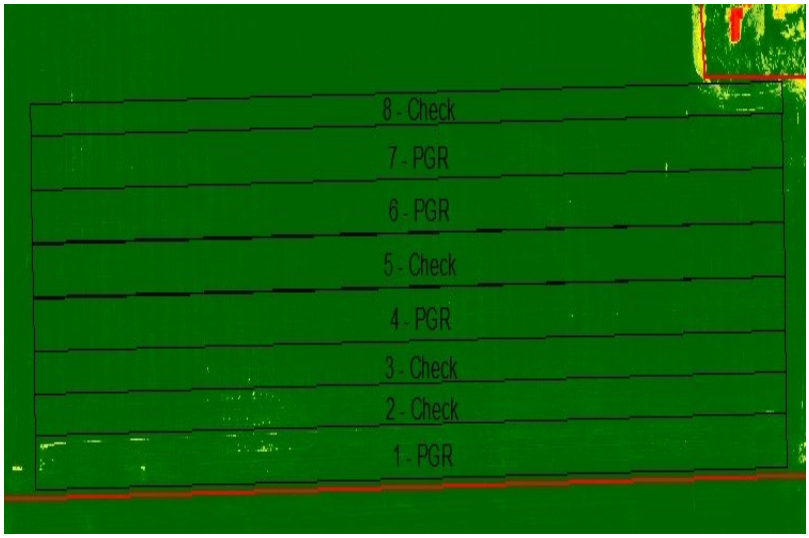
WHEAT RESPONSE

	Plant Height (inches)	Lodging		Protein
		Incidence	Severity	
Manipulator™ 620	27	0	1	13.7
Untreated	29	0	1	13.4

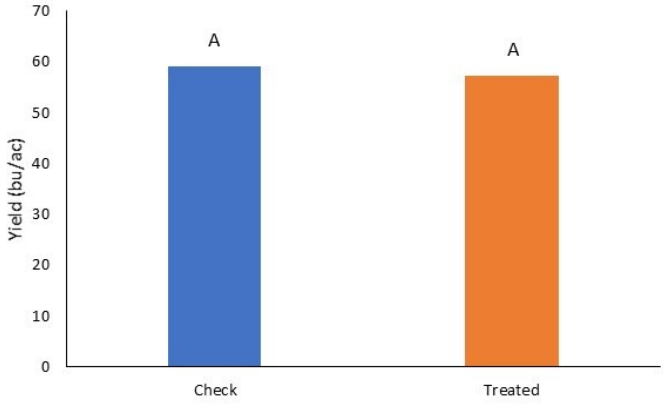
OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	57.3
Untreated	59.2
Yield Difference	-1.9
P-Value	0.0548
CV	3.7%
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 through May, June and August; July was near normal.

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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