Wheat Plant Growth Regulator

Trial ID: 2019-WPGR01 — R.M. of St. Clements

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	Dencross
Previous Crop	Canola
Soil Texture	Clay
Tillage	Conventional
Planting Date	April 30, 2019
Variety	AAC Brandon
Row Spacing	10”
Seeding Rate	150 lbs/ac
Residual N	69 lbs N/ac
Fertilizer (N-P-K-S)	78N 25P 25S
Application Date	June 04, 2019
Application Timing	5L
Application Rate	0.7 L/ac
Harvest Date	August 12, 2019

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	19	43	68	10	**140**
Normal	58	88	87	26	**259**

†Growing season precipitation (mm)

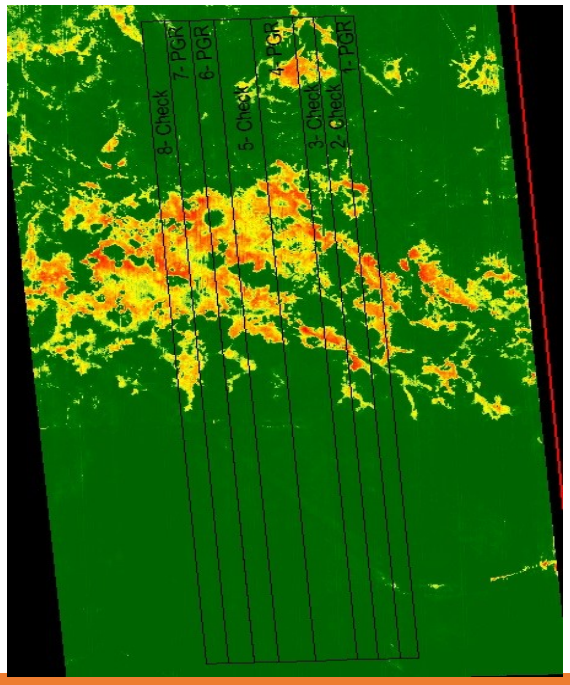
WHEAT RESPONSE

	Plant Height (inches)	Lodging		Protein
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	31	0	1	13.5
Untreated	34	0	1	13.8

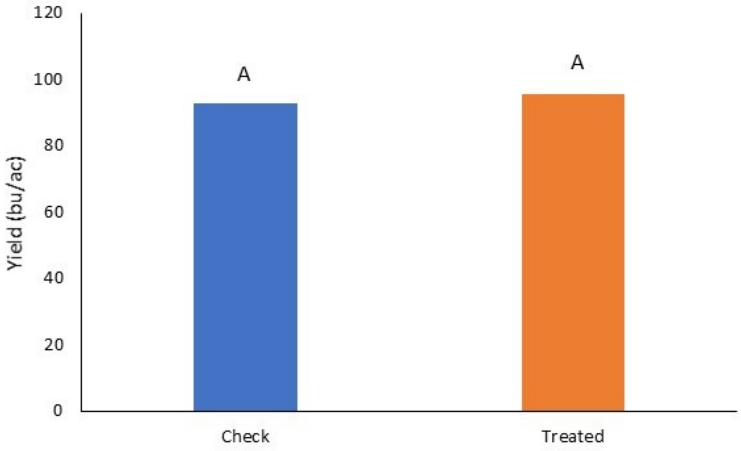
OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	95.6
Untreated	92.9
Yield Difference	2.7
P-Value	0.5127
CV	5.8%
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 4” 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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