Wheat Plant Growth Regulator

Trial ID: 2019-WPGR09 — 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	Marquette
Previous Crop	Soybeans
Soil Texture	Clay
Tillage	Conventional
Planting Date	May 01, 2019
Variety	Faller
Row Spacing	10”
Seeding Rate	120 lbs/ac
Residual N	———
Fertilizer (N-P-K-S)	100N 30P
Application Date	June 14, 2019
Application Timing	6L
Application Rate	0.7 L/ac
Harvest Date	September 07, 2019

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	18	66	64	32	**182**
Normal	58	85	71	74	**291**

†Growing season precipitation (mm)

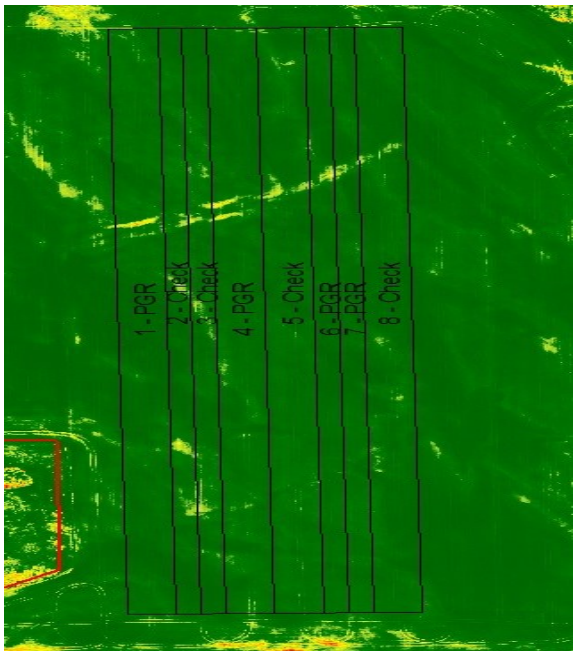
WHEAT RESPONSE

	Plant Height (inches)	Lodging		Protein
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	31	1	2	12.4
Untreated	33	7	2	11.8

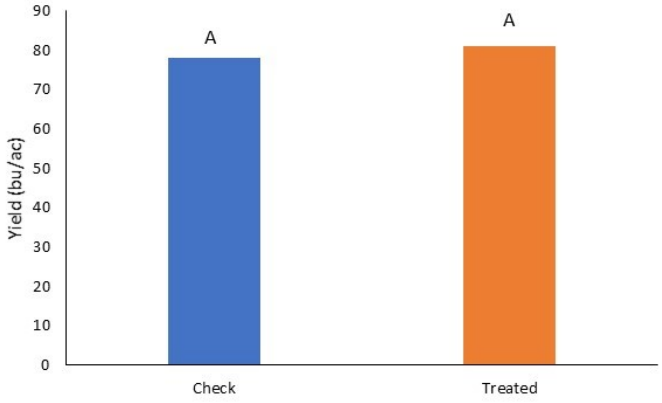
OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	81.1
Untreated	78.0
Yield Difference	3.1
P-Value	0.2331
CV	5.4%
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 a significant reduction 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.

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