Wheat Plant Growth Regulator Trial

Trial ID: 2018-WPGR06 – R.M. of Oakland-Wawanesa

Objective: Quantify the impact of the plant growth regulator Manipulator 620 (chlormequat chloride) on plant height, yield and quality of spring wheat.

TRIAL INFORMATION	
Treatment	Manipulator vs. Untreated
Rural Municipality	Oakland-Wawanesa
Previous Crop	Soybean
Soil Texture	Clay Loam
Tillage	Reduced
Seeding Date	May 2, 2018
Variety	Cardale
Row Spacing	10”
Seeding Rate	1.5 bu/ac
Residual N	---
Fertilizer (N-P-K-S)	80-30-0-0
Application Date	June 13, 2018
Application Timing	5-6 leaf stage
Application Rate	0.7 L/ac
Harvest Date	August 20, 2018

PRECIPITATIONǂ

	May	June	July	Aug
Rainfall	29	61	57	27
Normal	51	73	74	68

ǂ Growing season precipitation (mm)

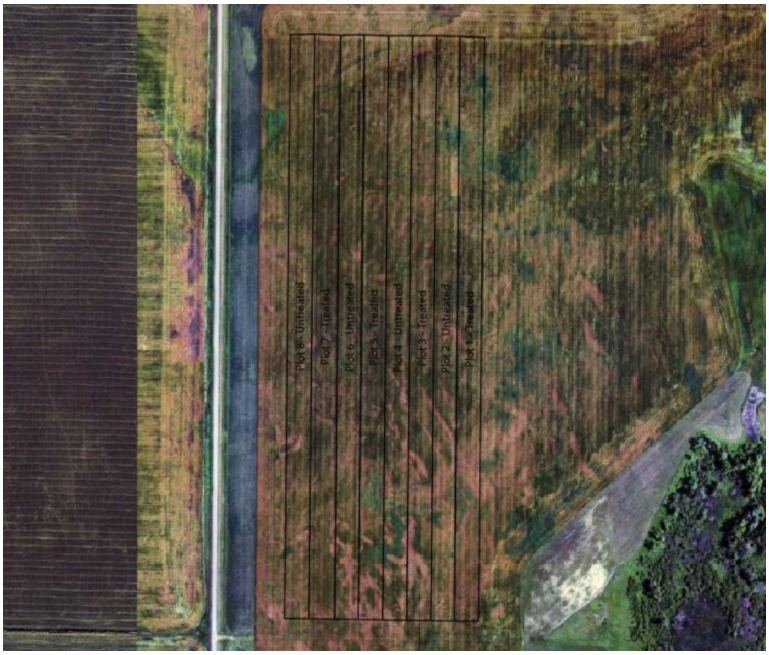
WHEAT RESPONSE

	Plant Height (inch)	Lodging	Protein
Manipulator	30.9	No	13.6
Untreated	35.3	No	13.7

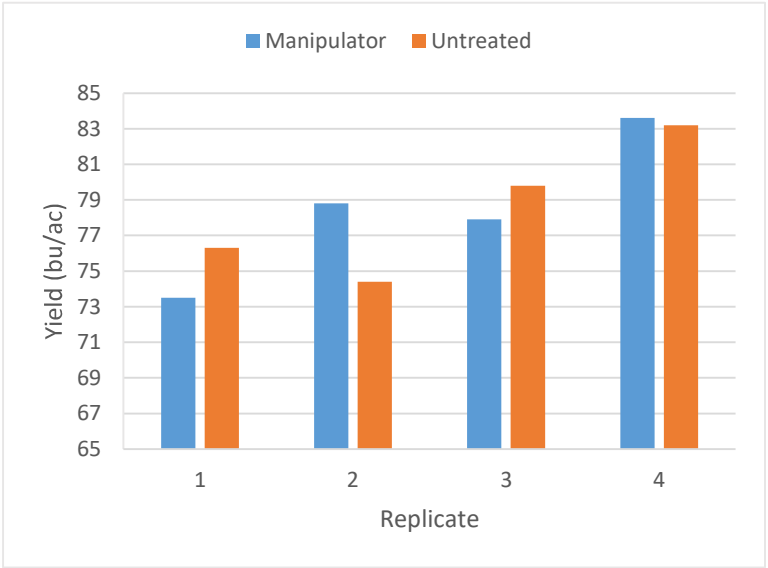
OVERALL YIELD

	Mean (bu/ac)
Manipulator	78.4
Untreated	78.4
Yield Difference	0.0
P-Value	0.9905
CV	4.7%
Significance	**No**

FIELD IMAGE – JULY 24, 2018



STRIP YIELD



Summary: There was no significant yield difference between Manipulator applied at the 5-6 leaf growth stage and untreated check strips. Rainfall was below normal for the entire growing season and there was no lodging observed within the trial. Manipulator reduced plant height by 4.4 inches and there was no significant difference in seed protein content between the two treatments.

MWBGA would like to thank Engage Agro for providing the product for this trial.

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