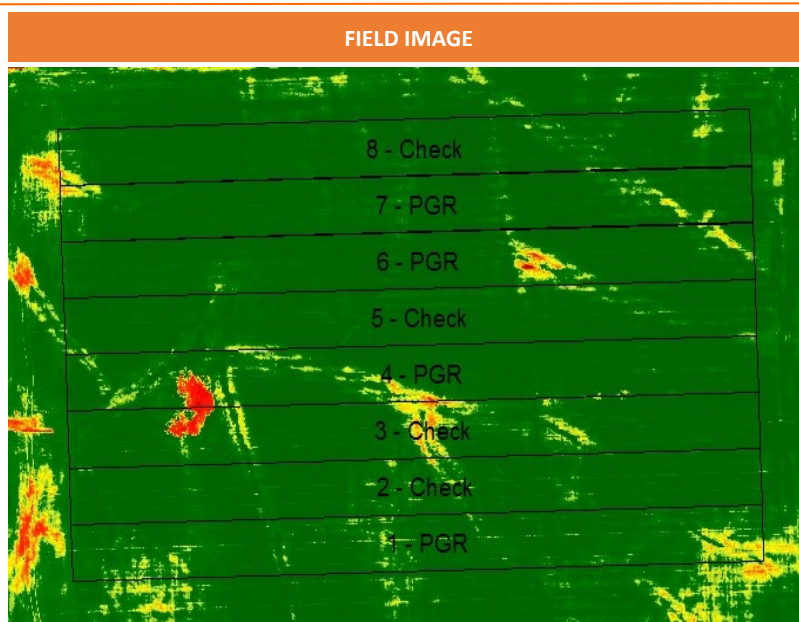


## Wheat Plant Growth Regulator

Trial ID: 2019-WPGR04 — R.M. of Hanover

**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	Tourond
Previous Crop	Canola
Soil Texture	Clay
Tillage	Conventional
Planting Date	May 02, 2019
Variety	AAC Brandon
Row Spacing	7.5"
Seeding Rate	156 lbs/ac
Residual N	125 lbs N/ac
Fertilizer (N-P-K-S)	
Application Date	June 07, 2019
Application Timing	5L
Application Rate	0.7 L/ac
Harvest Date	August 15, 2019



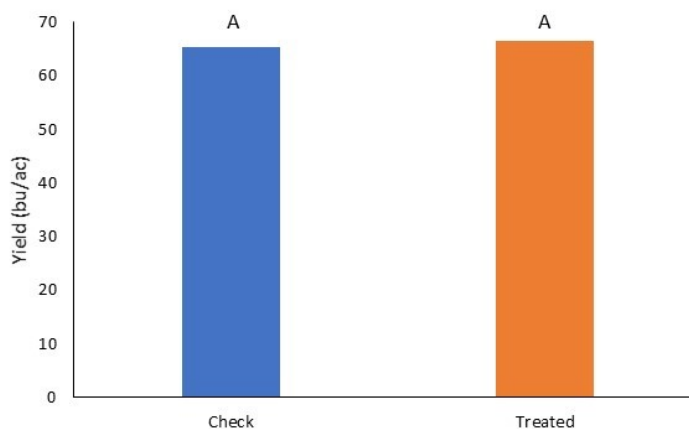
PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	42	34	144	7	228
Normal	64	88	72	28	253

†Growing season precipitation (mm)

WHEAT RESPONSE				
	Plant Height (inches)	Lodging Incidence (%)	Lodging Severity (1-10)	Protein
Manipulator™ 620	27	0	1	14.6
Untreated	30	0	1	14.7

OVERALL YIELD	
	Mean (bu/ac)
Manipulator™ 620	66.5
Untreated	65.3
Yield Difference	1.3
P-Value	0.2420
CV	3.1%
Significance	No

### 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 3" with plant growth regulator application. There was no lodging observed within the trial. Rainfall was below normal through May, June and August; July was 200% above normal.