

## Wheat Plant Growth Regulator

Trial ID: 2020-WPGR02 — 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	Warren
Previous Crop	Canola
Soil Texture	Clay
Tillage	Conventional
Planting Date	May 12, 2020
Variety	AAC Starbuck VB
Row Spacing	10"
Seeding Rate	100 lbs/ac
Residual N	—
Fertilizer (N-P-K-S)	120N 50P 10S
Application Date	June 11, 2020
Application Timing	4-5L
Application Rate	0.7 L/ac
Harvest Date	August 21, 2020

### FIELD IMAGE



### PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	36	43	54	92	225
Normal	58	83	60	72	274

†Growing season precipitation (mm)

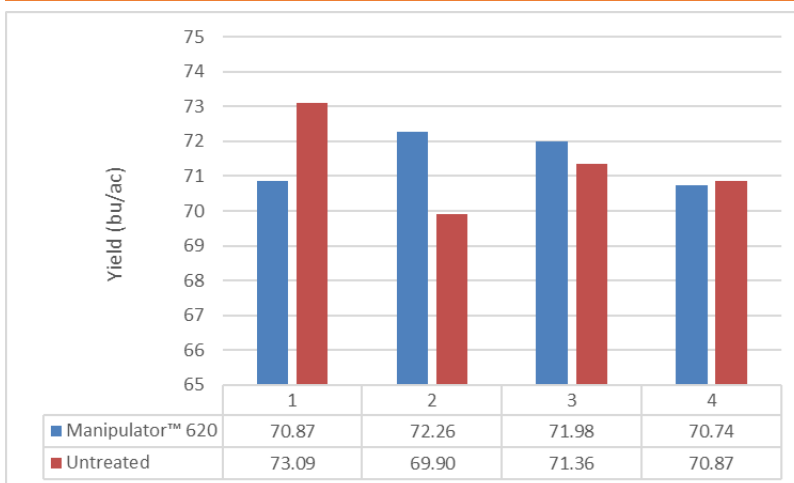
### WHEAT RESPONSE

	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	73	0	1	15.1
Untreated	72	0	1	14.9

### OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	71.5
Untreated	71.3
Yield Difference	0.2
P-Value	0.88
CV	1.4%
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 no significant reduction in plant height due to the plant growth regulator application. There was no lodging observed within the trial. Rainfall was below normal for the growing season.