

## Wheat Plant Growth Regulator

Trial ID: 2020-WPGR01 — R.M. of De Salaberry

**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	St. Pierre
Previous Crop	Canola
Soil Texture	Clay
Tillage	Conventional
Planting Date	May 12, 2020
Variety	Faller
Row Spacing	10"
Seeding Rate	130 lbs/ac
Residual N	—
Fertilizer (N-P-K-S)	
Application Date	June 06, 2020
Application Timing	5L
Application Rate	0.7 L/ac
Harvest Date	August 20, 2020

### PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	15	105	102	68	290
Normal	56	90	61	61	269

†Growing season precipitation (mm)

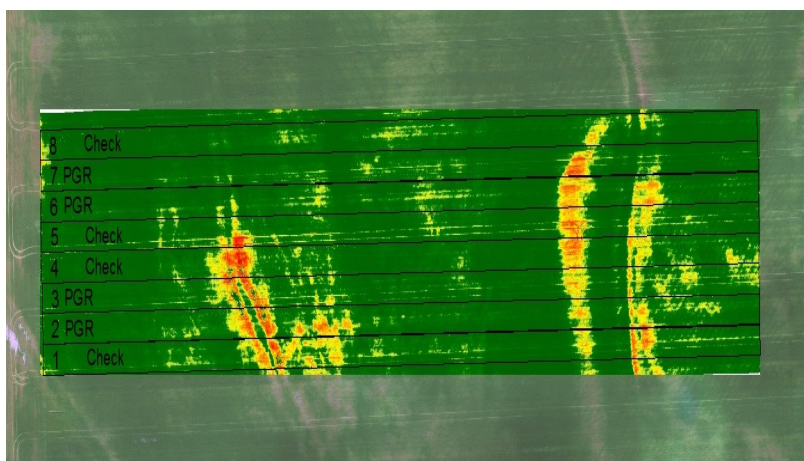
### WHEAT RESPONSE

	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	80	10	2	13.0
Untreated	81	10	2	12.5

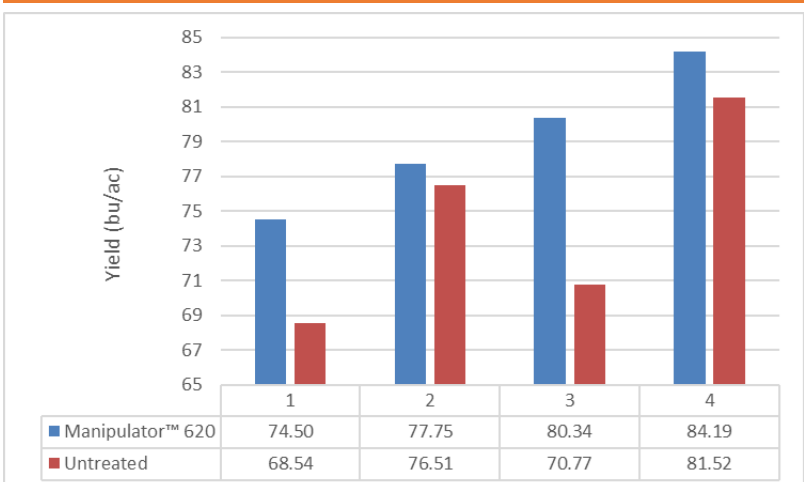
### OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	79.2
Untreated	74.3
Yield Difference	4.9
P-Value	0.079
CV	7.0%
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 no significant reduction in plant height due to the plant growth regulator application. There was minimal lodging observed within the trial. Rainfall was below normal in May and above normal in June, July and August.