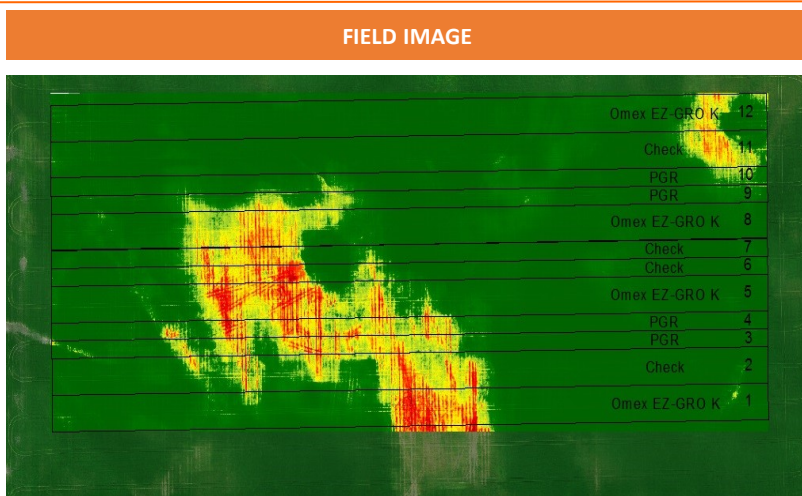


## Wheat Plant Growth Regulator

Trial ID: 2020-WPGR05 — R.M. of Woodlands

**Objective:** The purpose of this project is to quantify the impact of the plant growth regulator Manipulator™ 620 (chlormequat chloride) and Omex on plant height, lodging, yield and quality of spring wheat

TRIAL INFORMATION	
Treatment	Manipulator™ 620 vs. Omex EZ-GRO K vs. Untreated
Location	Marquette
Previous Crop	Canola
Soil Texture	Clay Loam
Tillage	Minimal Tillage
Planting Date	May 21, 2020
Variety	Faller
Row Spacing	10"
Seeding Rate	130 lbs/ac
Residual N	—
Fertilizer (N-P-K-S)	140N
Application Date	June 13 & 18, 2020
Application Timing	3L (Omex), 5L Manipulator
Application Rate	0.7 L/ac , 40 ac/jug (Omex)
Harvest Date	September 05, 2020

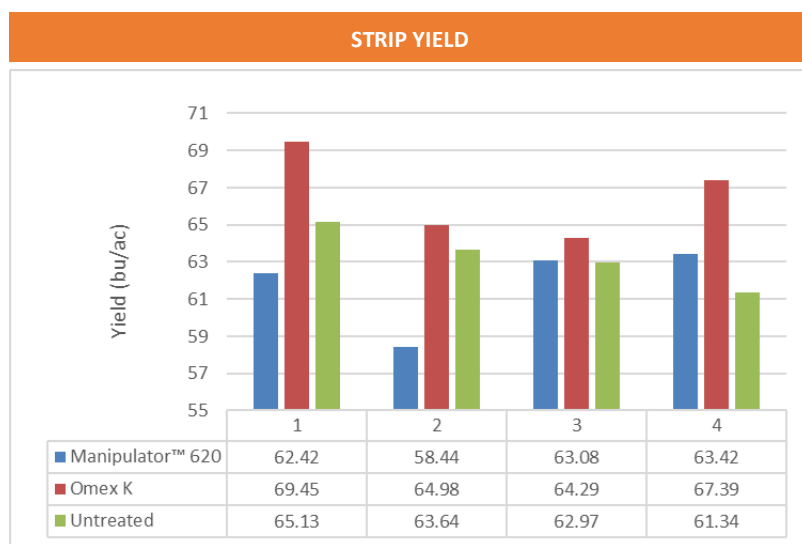


PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	75	43	54	92	264
Normal	58	83	60	72	274

†Growing season precipitation (mm)

WHEAT RESPONSE				
	Plant Height (cm)	Lodging Incidence (%)	Lodging Severity (1-10)	Protein %
Manipulator™ 620	82	0	1	12.6
Omex	85	0	1	12.0
Untreated	86	0	1	12.8

OVERALL YIELD	
	Mean (bu/ac)
Manipulator™ 620	61.8 <sup>B</sup>
Omex	66.5 <sup>A</sup>
Untreated	63.3 <sup>B</sup>
P-Value	0.0361
CV	4.38%
Significance	Yes



**Summary:** There was a significant yield difference between the Omex plant growth regulator application and the Manipulator™ 620 and untreated check. There was no significant reduction in plant height due to the plant growth regulator applications. There was no lodging observed within the trial. Rainfall was above normal in May and August and below normal in June and July.