

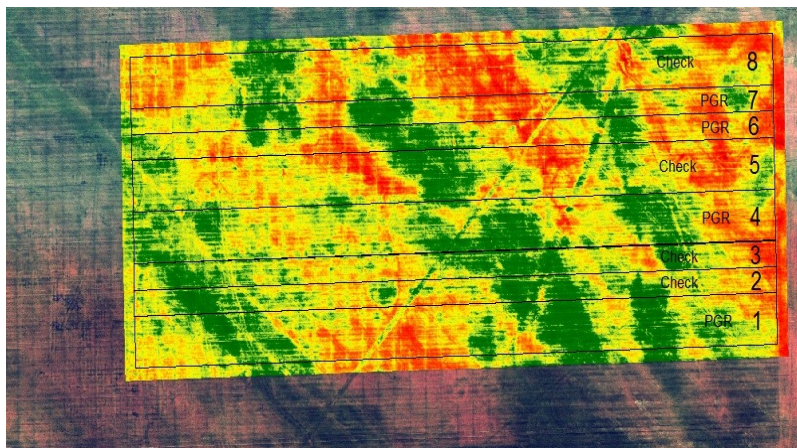
Barley Plant Growth Regulator

Trial ID: 2020-BPGR01 — R.M. of Westlake-Gladstone

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	Westbourne
Previous Crop	Canola
Soil Texture	Clay
Tillage	Minimal Tillage
Planting Date	May 08, 2020
Variety	CDC Austenson
Row Spacing	7.5"
Seeding Rate	130 lbs/ac
Residual N	—
Fertilizer (N-P-K-S)	109N 40P
Application Date	June 05, 2020
Application Timing	4-5L
Application Rate	0.7 L/ac
Harvest Date	August 05, 2020

FIELD IMAGE



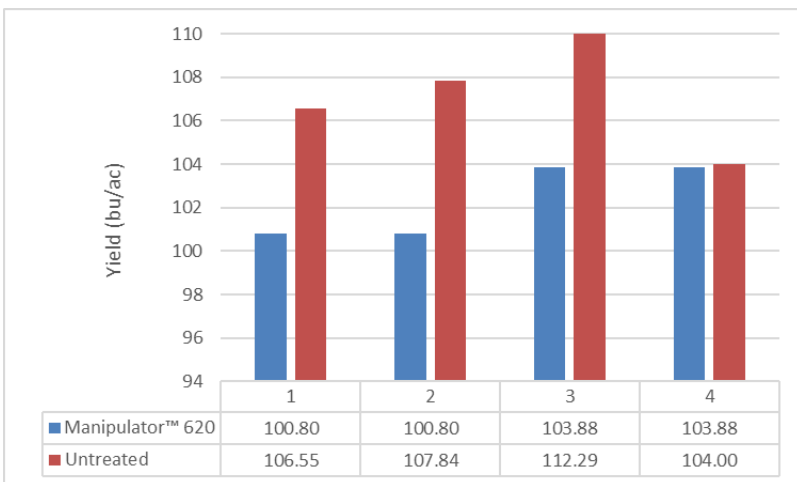
PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	5	49	73	81	208
Normal	52	68	67	76	263

†Growing season precipitation (mm)

WHEAT RESPONSE				
	Plant Height (cm)	Lodging Incidence (%)	Lodging Severity (1-10)	Protein %
Manipulator™ 620	59	0	1	12.9
Untreated	62	0	1	12.9

OVERALL YIELD	
	Mean (bu/ac)
Manipulator™ 620	102.4
Untreated	107.7
Difference	-5.3
P-Value	0.0611
CV	3.6%
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 due to the plant growth regulator application. There was no lodging observed within the trial. Rainfall was below normal for the growing season.