

Wheat Plant Growth Regulator

Trial ID: 2019-WPGR13 — R.M. of Lorne

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	Altamont
Previous Crop	Canola
Soil Texture	Loam
Tillage	Conventional
Planting Date	May 08, 2019
Variety	AC Cardale
Row Spacing	10"
Seeding Rate	132 lbs/ac
Residual N	---
Fertilizer (N-P-K-S)	120N 35P 13S
Application Date	June 19, 2019
Application Timing	5L
Application Rate	0.7 L/ac
Harvest Date	September 08, 2019

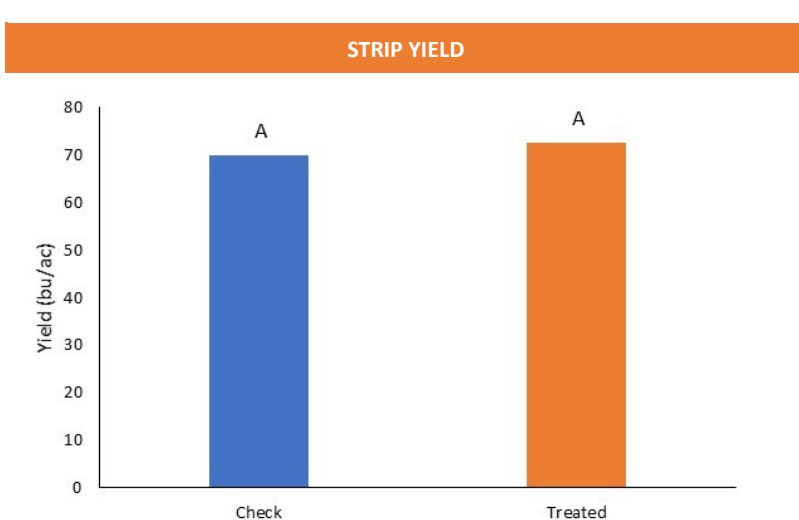


PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	28	56	91	49	225
Normal	66	91	73	64	294

†Growing season precipitation (mm)

WHEAT RESPONSE				
	Plant Height (inches)	Lodging		Protein
		Incidence	Severity	
Manipulator™ 620	32	0	1	16.7
Untreated	34	0	1	16.8

OVERALL YIELD	
	Mean (bu/ac)
Manipulator™ 620	72.5
Untreated	69.8
Yield Difference	2.6
P-Value	0.2768
CV	7.3%
Significance	No



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 2" with plant growth regulator application. There was no lodging observed within the trial. Rainfall was below normal in May, June and August; July was 125% above normal.