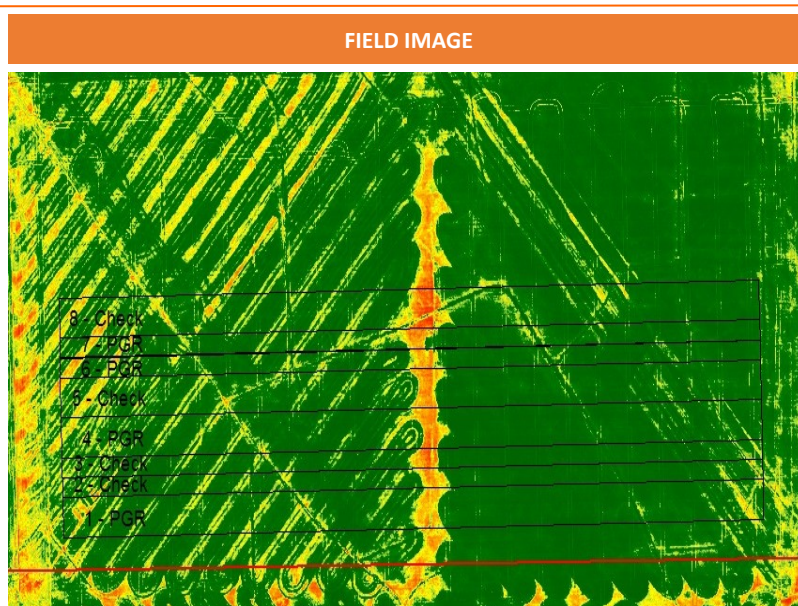


Wheat Plant Growth Regulator

Trial ID: 2019-WPGR05 — R.M. of St. Pierre

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	April 28, 2019
Variety	AAC Brandon
Row Spacing	10"
Seeding Rate	126 lbs/ac
Residual N	25 lbs N/ac
Fertilizer (N-P-K-S)	135N 20P
Application Date	June 10, 2019
Application Timing	3L
Application Rate	0.7 L/ac
Harvest Date	August 18, 2019

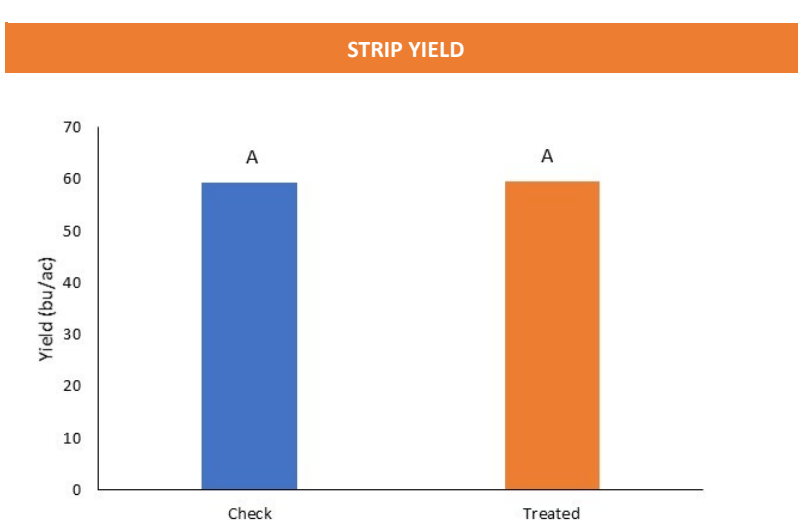


PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	44	34	144	7	230
Normal	68	88	72	36	265

†Growing season precipitation (mm)

WHEAT RESPONSE				
	Plant Height (inches)	Lodging Incidence (%)	Lodging Severity (1-10)	Protein
Manipulator™ 620	29	0	1	14.8
Untreated	32	0	1	14.8

OVERALL YIELD	
	Mean (bu/ac)
Manipulator™ 620	59.6
Untreated	59.3
Yield Difference	0.3
P-Value	0.8271
CV	3.9%
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 through May, June and August; July was 200% above normal.