

Wheat Plant Growth Regulator

Trial ID: 2019-WPGR11 — R.M. of MacDonald

Objective: The purpose of this project is to quantify the impact of the plant growth regulator Manipulator $^{\text{TM}}$ 620 (chlormequat chloride) on plant height, lodging, yield and quality of spring wheat

TRIAL INFORMATION				
Treatment	Manipulator™ 620 vs. Untreated			
Location	Starbuck			
Previous Crop	Soybeans			
Soil Texture	Clay			
Tillage	Conventional			
Planting Date	May 07, 2019			
Variety	AAC Brandon			
Row Spacing	7.5"			
Seeding Rate	110 lbs/ac			
Residual N				
Fertilizer (N-P-K-S)	101N 31P			
Application Date	June 14, 2019			
Application Timing	5L			
Application Rate	0.7 L/ac			
Harvest Date	September 06, 2019			

PRECIPITATION†						
	May	June	July	Aug	Total	
Rainfall	24	40	71	63	199	
Normal	50	85	71	74	281	

†Growing season precipitation (mm)

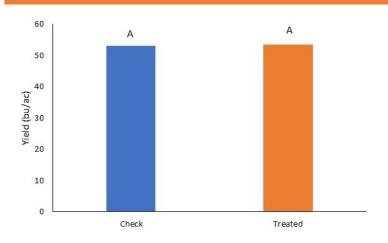
WHEAT RESPONSE					
	Plant Height	Lodging			
	(inches)	Incidence	Severity	Protein	
Manipulator™ 620	27	0	1	15.1	
Untreated	28	0	1	15.1	

OVERALL YIELD				
	Mean (bu/ac)			
Manipulator™ 620	53.4			
Untreated	53.0			
Yield Difference	0.4			
P-Value	0.8025			
cv	3.5%			
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 of 1″ with plant growth regulator application. There was no lodging observed within the trial. Rainfall was below normal in May and June and normal through the remainder of the growing season.



