

Wheat Plant Growth Regulator

Trial ID: 2021-WPGR01 — R.M. of De Salaberry

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

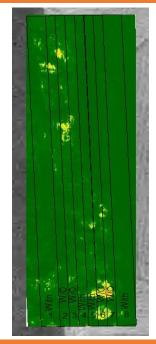
TRIAL INFORMATION				
Treatment	Manipulator™ 620 vs. Untreated			
Location	Otterburne			
Previous Crop	Corn			
Soil Texture	Clay			
Tillage	Zero Tillage			
Planting Date	April 29, 2021			
Variety	AAC Brandon			
Row Spacing	10"			
Seeding Rate	135 lbs/ac			
Fertilizer (N-P-K-S)	136N 30P			
Application Date	June 02, 2021			
Application Timing	GS29 (4L)			
Application Rate	0.7 L/ac			
Harvest Date	August 08, 2021			

PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	35	61	12	51	160
Normal	52	86	63	41	242
†Growing season precipitation (mm) - May 01—Aug 15					

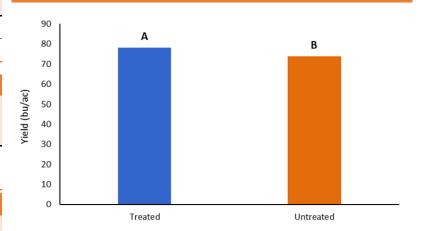
WHEAT RESPONSE						
	Plant	Lodging				
	Height (cm)	Incidence (%)	Severity (1-10)	Protein %		
Manipulator™ 620	74 ^A	0	1	15.0		
Untreated	76 ^A	1	1	15.2		

OVERALL YIELD				
	Mean (bu/ac)			
Manipulator™ 620	78.1 ^A			
Untreated	73.8 ^B			
Yield Difference	4.3			
P-Value	0.0132			
cv	1.52%			
Significance	Yes			

FIELD IMAGE



YIELD BY TREATMENT



Summary: There was a significant yield difference between the Manipulator™ 620 (chlormequat chloride) plant growth regulator application and the untreated check. There was no significant reduction in plant height with the application of the plant growth regulator. There was low amounts of lodging observed within the trial. Rainfall was below normal for the growing season.



