

Wheat Plant Growth Regulator

Trial ID: 2021-WPGR02 — 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) at different stages 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	Zero Tillage			
Planting Date	May 05, 2021			
Variety	Faller			
Row Spacing	7.5″			
Seeding Rate	162 lbs/ac			
Fertilizer (N-P-K-S)	140N			
1st Application	June 07, 2021 @ GS29 (4L)			
2nd Application	June 16, 2021 @ GS32 (6L)			
Application Rate	0.35 L/ac (each application)			
Harvest Date	August 14, 2021			

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	5 50.1y	Aug	Total
61	12	51	160
86	63	41	242
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WHEAT RESPONSE					
	Plant	Lodg	ing		
	Height (cm)	Incidence (%)	Severity (1-10)	Protein %	
Manipulator™ 620	64.3 ^A	0	1	14.0	
Untreated	72.0 ^B	0	1	13.8	

OVERALL YIELD				
	Mean (bu/ac)			
Manipulator™ 620	66.8 ^A			
Untreated	68.5 ⁴			
Yield Difference	-1.7			
P-Value	0.4268			
cv	3.92%			
Significance	No			





YIELD BY TREATMENT

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



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MANITOBA CROP ALLIANCE

Phone: 204-745-6661 Website: mbcropalliance.ca Email: hello@mbcropalliance.ca