

Wheat Plant Growth Regulator

Trial ID: 2020-WPGR07 — R.M. of Montcalm

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

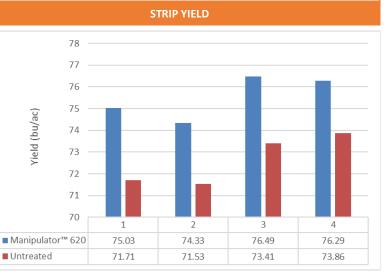
TRIAL INFORMATION				
Treatment	Manipulator™ 620 vs. Untreated			
Location	Morris			
Previous Crop	Soybeans			
Soil Texture	Clay			
Tillage	Conventional Tillage			
Planting Date	May 05, 2020			
Variety	AAC Brandon			
Row Spacing	10"			
Seeding Rate	123 lbs/ac			
Residual N				
Fertilizer (N-P-K-S)	139N 42P 10K			
Application Date	June 12, 2020			
Application Timing	5L			
Application Rate	0.7 L/ac			
Harvest Date	August 26, 2020			
PRECIPITATION [†]				

	May	June	July	Aug	Total	
Rainfall	11	79	99	118	306	
Normal	56	84	65	74	278	
[†] Growing season precipitation (mm)						

WHEAT RESPONSE					
	Plant	Lodging			
	Height (cm)	Incidence (%)	Severity (1-10)	Protein %	
Manipulator™ 620	68	0	1	14.4	
Untreated	76	0	1	14.9	

OVERALL YIELD				
	Mean (bu/ac)			
Manipulator™ 620	75.5			
Untreated	72.6			
Yield Difference	2.9			
P-Value	0.00063			
CV	2.5%			
Significance	Yes			





Summary: There was a significant yield difference between the Manipulator[™] 620 plant growth regulator application and the untreated check. There was a significant reduction in plant height due to the plant growth regulator application. There was no lodging observed within the trial. Rainfall was above normal for the growing season.



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