

Wheat Plant Growth Regulator

Trial ID: 2018-WPGR08 – R.M. of Killarney-Turtle Mountain

Objective: Quantify the impact of the plant growth regulator Manipulator 620 (chlormequat chloride) on plant height, yield and quality of spring wheat.

TRIAL INFORMATION		
Treatment	Manipulator vs. Untreated	
Rural Municipality	Killarney-Turtle Mountain	
Previous Crop	Soybean	
Soil Texture	Loam to Clay Loam	
Tillage	Reduced	
Seeding Date	May 9, 2018	
Variety	Brandon	
Row Spacing	10"	
Seeding Rate	135 lbs/ac	
Residual N		
Fertilizer (N-P-K-S)	170 lbs N – manure	
Application Date	June 12, 2018	
Application Timing	5-6 leaf stage	
Application Rate	0.7 L/ac	
Harvest Date	August 20, 2018	

 May
 June
 July
 Aug

 Rainfall
 35
 131
 29
 23

 Normal
 61
 90
 68
 72

+ Growing season precipitation (mm)

WHEAT RESPONSE				
	Plant Height (inch)	Lodging	Protein	
Manipulator	33.8	No	14.2	
Untreated	35.3	No	14.1	

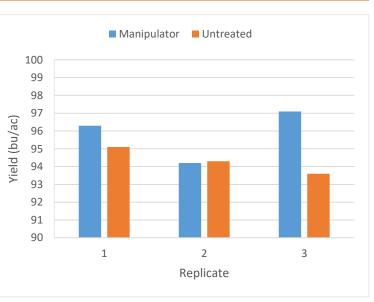
OVERALL YIELD

	Mean (bu/ac)	
Manipulator	95.9	
Untreated	94.3	
Yield Difference	1.5	
P-Value	0.1823	
CV	1.4%	
Significance	No	

FIELD IMAGE – JULY 24, 2018



STRIP YIELD



Summary: There was no significant yield difference between Manipulator applied at the 5-6 leaf growth stage and untreated check strips. Rainfall was above normal for the month of June but below normal for the remainder of the growing season. There was no lodging observed within the trial. Manipulator reduced plant height by 1.5 inches and there was no significant difference in seed protein content between the two treatments.



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