

Wheat Plant Growth Regulator Trial

Trial ID: 2018-WPGR03 – R.M. of Grey

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	Grey		
Previous Crop	Soybean		
Soil Texture	Clay		
Tillage	Conventional		
Seeding Date	April 30, 2018		
Variety	Brandon		
Row Spacing	7.5″		
Seeding Rate	2.2 bu/ac		
Residual N			
Fertilizer (N-P-K-S)	135-40-10-10		
Application Date	June 13, 2018		
Application Timing	5-6 leaf stage		
Application Rate	0.7 L/ac		
Harvest Date	August 10, 2018		

PRECIPITATION'MayJuneJulyAugRainfall29704122Normal54816671

+ Growing season precipitation (mm)

WHEAT RESPONSE				
	Plant Height (inch)	Lodging	Protein	
Manipulator	24.8	No	13.1	
Untreated	28.7	No	13.1	

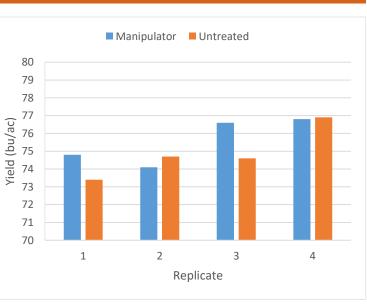
OVERALL YIELD

	Mean (bu/ac)
Manipulator	75.6
Untreated	74.9
Yield Difference	0.7
P-Value	0.3317
CV	1.8%
Significance	No

FIELD IMAGE - JULY 28, 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 below normal for the entire growing season and there was no lodging observed within the trial. Manipulator reduced plant height by 3.9 inches and there was no significant difference in seed protein content between the two treatments.



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