

Wheat Plant Growth Regulator Trial

Trial ID: 2018-WPGR01 - R.M. of Morris

Objective: 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 vs. Untreated			
Rural Municipality	Morris			
Previous Crop	Canola			
Soil Texture	ture Clay			
Tillage	Conventional			
Seeding Date	April 28, 2018			
Variety	ACC Brandon			
Row Spacing	7.5"			
Seeding Rate	117 lbs/ac			
Residual N				
Fertilizer (N-P-K-S)	194–30–0–7.5			
Application Date	June 13, 2018			
Application Timing	5-6 leaf stage			
Application Rate	0.7 L/ac			
Harvest Date	August 8, 2018			

PRECIPITATION [†]								
		May		June	 	July	ı	Aug
Rainfall	I	28		85	<u> </u>	38		27
Normal	-;-	54	_	86	i –	72	7	65

† Growing season precipitation (mm)

Significance

WHEAT RESPONSE					
	Plant Height (inch)	Lodging	Protein		
Manipulator	22.5	No	16.4		
Untreated	26.1	No	16.4		

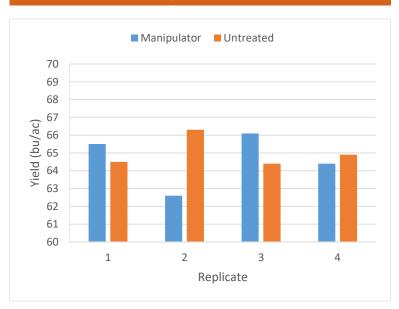
OVERALL YIELD

	Mean (bu/ac)
Manipulator	64.6
Untreated	65.0
Yield Difference	-0.4
P-Value	0.6629
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FIELD	IMAGE -	JULY 28	. 2018
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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 near 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 3.6 inches and there was no significant difference in seed protein content between the two treatments.

No