

Wheat Plant Growth Regulator Trial

Trial ID: 2018-WPGR05 - R.M. of Hanover

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	Hanover	
Previous Crop	Canola	
Soil Texture	Clay	
Tillage	Direct Seed into Winter Wheat	
Seeding Date	May 16, 2018	
Variety	Rowyn	
Row Spacing	10"	
Seeding Rate	2.6 bu/ac	
Residual N		
Fertilizer (N-P-K-S)	110-37-3.4-0	
Application Date	June 9, 2018	
Application Timing	5-6 leaf stage	
Application Rate	0.7 L/ac	
Harvest Date	August 17, 2018	
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PRECIPITATION [†]					
	May	June	July	Aug	
Rainfall	42	81	36	30	
Normal	58	91	80	66	

+ Growing seas	on precipitation (mm)

WHEAT RESPONSE			
	Plant Height (inch)	Lodging	Protein
Manipulator	32.8	No	11.3
Untreated	34.2	Yes	11.8

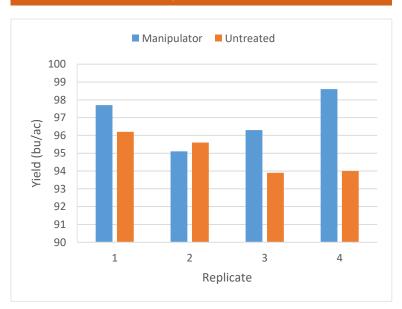
OVERALL YIELD

	Mean (bu/ac)	
Manipulator	96.9	
Untreated	94.9	
Yield Difference	2.0	
P-Value	0.0855	
CV	1.7%	
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 stirps. Rainfall was near normal for the month of June but below normal for the remainder of the growing season. There was lodging observed within the untreated control strip at this location. Manipulator reduced plant height by 1.4 inches and there was no significant difference in seed protein content between the two treatments.