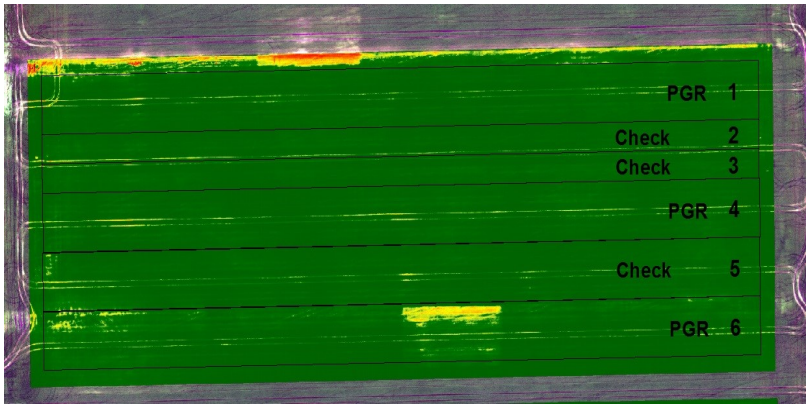
Wheat Plant Growth Regulator

Trial ID: 2020-WPGR06 — R.M. of Morris

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	Sperling
Previous Crop	Canola
Soil Texture	Clay
Tillage	Conventional Tillage
Planting Date	May 11, 2020
Variety	AAC Brandon
Row Spacing	7.5”
Seeding Rate	140 lbs/ac
Residual N	——
Fertilizer (N-P-K-S)	142N 60P
Application Date	June 12, 2020
Application Timing	6L
Application Rate	0.7 L/ac
Harvest Date	August 24, 2020

FIELD IMAGE



PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	71	83	102	43	**298**
Normal	55	83	66	74	**279**

†Growing season precipitation (mm)

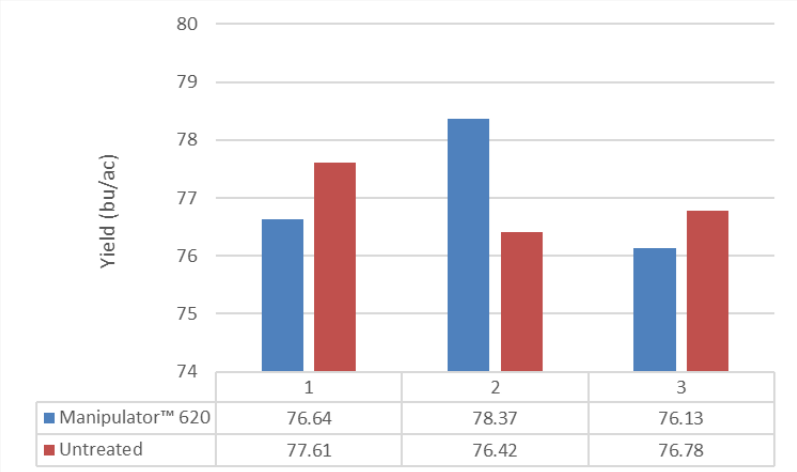
WHEAT RESPONSE

	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	77	0	1	15.3
Untreated	82	0	1	14.6

OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	77.0
Untreated	76.9
Yield Difference	0.1
P-Value	0.0915
CV	1.09%
Significance	No

STRIP YIELD



Summary: There was no 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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