Wheat Plant Growth Regulator

Trial ID: 2020-WPGR03 — R.M. of Tache

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	Landmark
Previous Crop	Soybeans
Soil Texture	Clay
Tillage	Conventional
Planting Date	April 30, 2020
Variety	AAC Brandon
Row Spacing	10”
Seeding Rate	153 lbs/ac
Residual N	——
Fertilizer (N-P-K-S)	128N 33P 15S
Application Date	June 11, 2020
Application Timing	4L
Application Rate	0.7 L/ac
Harvest Date	August 18, 2020

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	15	59	93	82	**248**
Normal	61	87	74	73	**296**

†Growing season precipitation (mm)

WHEAT RESPONSE

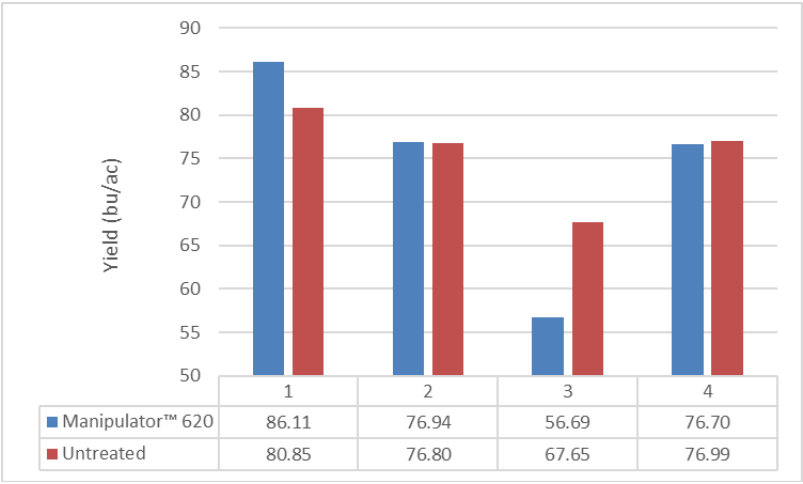
	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	71	0	1	14.1
Untreated	76	0	1	13.8

OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	74.1
Untreated	75.6
Yield Difference	-1.5
P-Value	0.697
CV	12%
Significance	No

FIELD IMAGE

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 below normal for the growing season.

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