Wheat Plant Growth Regulator

Trial ID: 2020-WPGR04 — R.M. of Alexander

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	Stead
Previous Crop	Soybeans
Soil Texture	Clay
Tillage	Conventional
Planting Date	May 16, 2020
Variety	Faller
Row Spacing	10”
Seeding Rate	150 lbs/ac
Residual N	——
Fertilizer (N-P-K-S)	130N 40P 40K
Application Date	June 11, 2020
Application Timing	5L
Application Rate	0.7 L/ac
Harvest Date	August 25, 2020

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	11	75	44	116	**246**
Normal	57	85	68	80	**290**

†Growing season precipitation (mm)

WHEAT RESPONSE

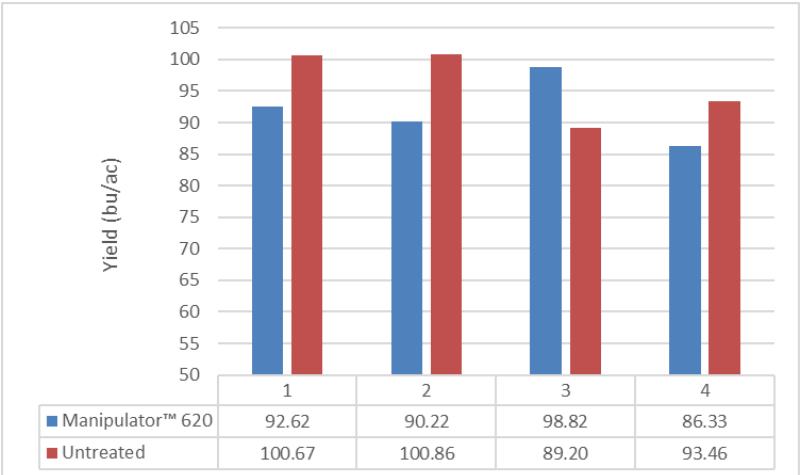
	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	88	0	1	13.9
Untreated	89	0	1	

OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	92.0
Untreated	96.1
Yield Difference	-4.1
P-Value	0.445
CV	5.7%
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 no 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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