Wheat Plant Growth Regulator

Trial ID: 2020-WPGR09 — 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	Rosenort
Previous Crop	Soybeans
Soil Texture	Clay
Tillage	Minimal Tillage
Planting Date	May 23, 2020
Variety	Faller
Row Spacing	7.5”
Seeding Rate	170 lbs/ac
Residual N	——
Fertilizer (N-P-K-S)	150N 210P
Application Date	June 18, 2020
Application Timing	5L
Application Rate	0.7 L/ac
Harvest Date	August 28, 2020

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	11	79	99	118	**306**
Normal	56	84	65	74	**278**

†Growing season precipitation (mm)

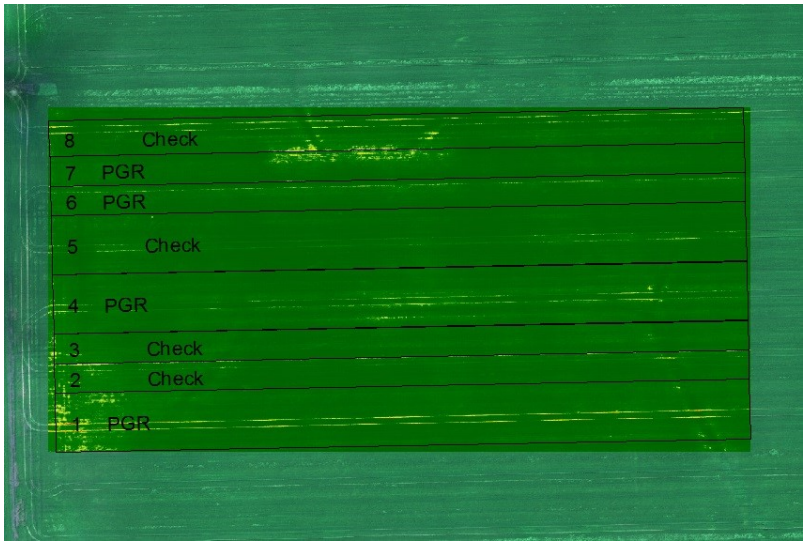
WHEAT RESPONSE

	Plant Height (mm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Manipulator™ 620	76	0	1	12.2
Untreated	83	0	1	12.6

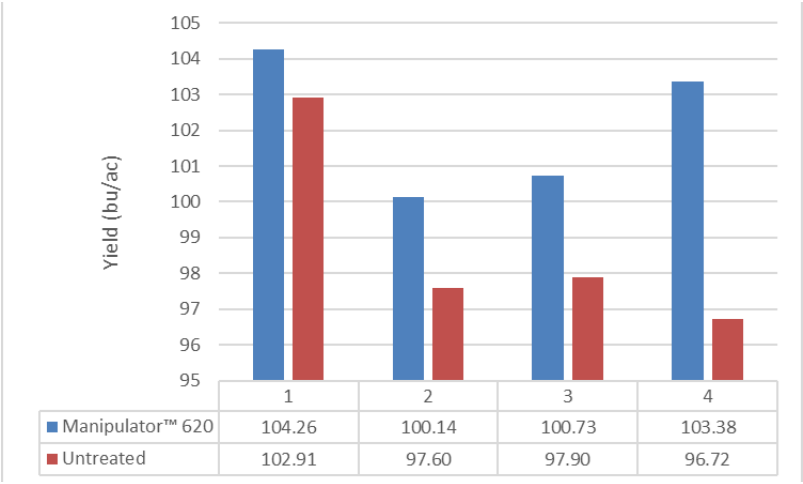
OVERALL YIELD

	Mean (bu/ac)
Manipulator™ 620	102.1
Untreated	98.8
Difference	3.3
P-Value	0.0621
CV	2.9%
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 above normal for the growing season.

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