



Wheat Plant Growth Regulator

Trial ID: 2021-WPGR04 — R.M. of Morris

Objective: The purpose of this project is to quantify the impact of the plant growth regulator Moddus® (trinexapac-ethyl) on plant height, lodging, yield and quality of spring wheat

TRIAL INFORMATION

Treatment	Moddus® vs. Untreated
Location	Morris
Previous Crop	Canola
Soil Texture	Clay
Tillage	Conventional Tillage
Planting Date	May 05, 2021
Variety	SY Rowyn
Row Spacing	10"
Seeding Rate	110 lbs/ac
Fertilizer (N-P-K-S)	120N 30P
Application Date	June 08, 2021
Application Timing	GS30 (5L)
Application Rate	30 ac/jug
Harvest Date	September 01, 2021

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	39	49	19	25	132
Normal	51	82	65	46	244

†Growing season precipitation (mm) - May 01—Aug 15

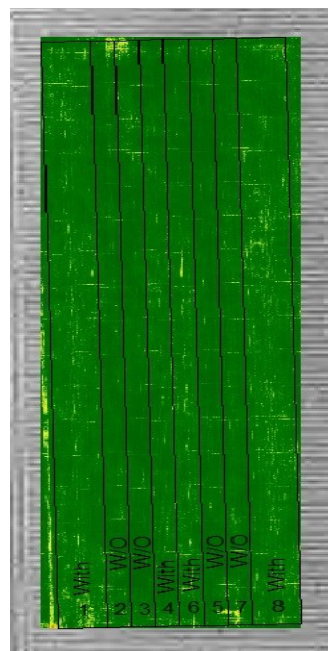
WHEAT RESPONSE

	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Moddus®	72 ^A	0	1	13.1
Untreated	77 ^B	0	1	12.9

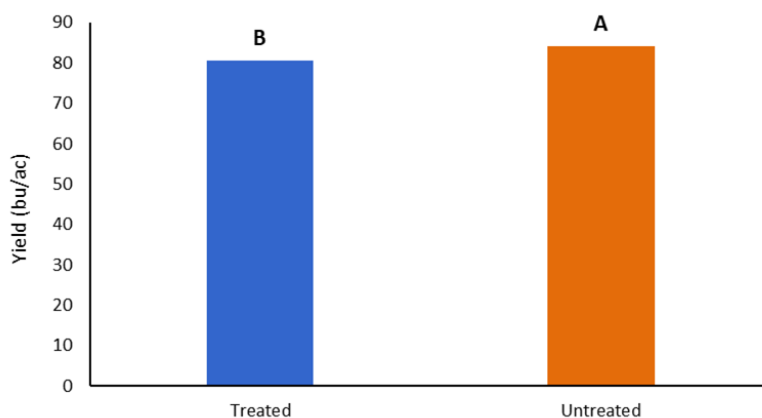
OVERALL YIELD

	Mean (bu/ac)
Moddus®	80.5 ^B
Untreated	84.1 ^A
Yield Difference	-3.6
P-Value	0.0193
CV	1.35%
Significance	Yes

FIELD IMAGE



YIELD BY TREATMENT



Summary: There was a significant yield difference between the Moddus® (trinexapac-ethyl) plant growth regulator application and the untreated check. There was a significant reduction in plant height with the application of the plant growth regulator. There was no lodging observed within the trial. Rainfall was below normal for the growing season.



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