



## Wheat Plant Growth Regulator

Trial ID: 2021-WPGR10 — R.M. of Springfield

**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	Hazelridge
Previous Crop	Sunflower
Soil Texture	Clay
Tillage	Conventional Tillage
Planting Date	April 28, 2021
Variety	Daybreak
Row Spacing	10"
Seeding Rate	150 lbs/ac
Fertilizer (N-P-K-S)	120N 40P 25S
Application Date	June 14, 2021
Application Timing	GS30 (5L)
Application Rate	30 ac/jug
Harvest Date	August 16, 2021

### PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	52	26	24	33	134
Normal	51	85	71	38	244

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

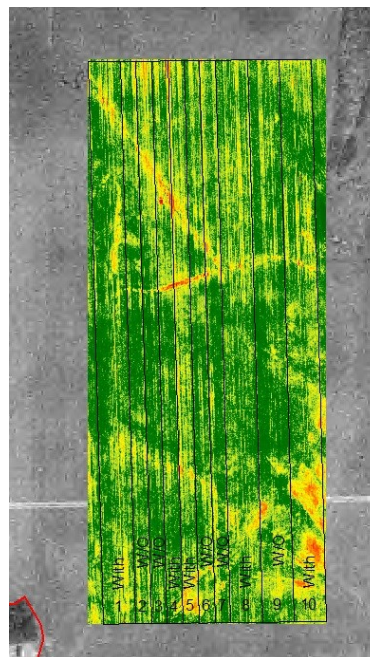
### WHEAT RESPONSE

	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Moddus®	67 <sup>A</sup>	0	1	14.6
Untreated	76 <sup>B</sup>	0	1	14.2

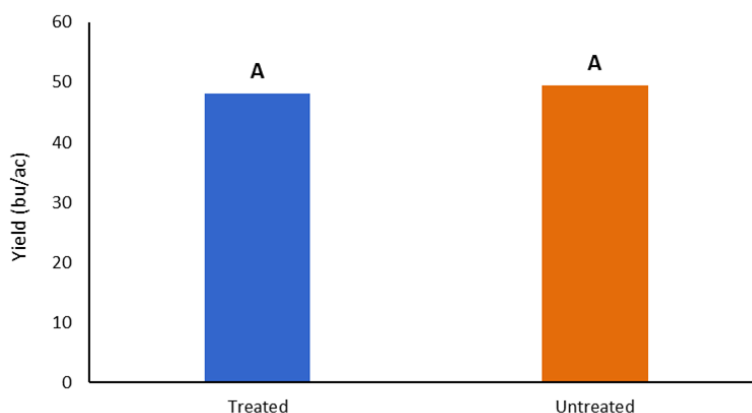
### OVERALL YIELD

	Mean (bu/ac)
Moddus®	48.1 <sup>A</sup>
Untreated	49.4 <sup>A</sup>
Yield Difference	-1.3
P-Value	0.2744
CV	3.39%
Significance	No

### FIELD IMAGE



### YIELD BY TREATMENT



**Summary:** There was no significant yield difference between the Moddus® (trinexapac-ethyl) plant growth regulator application and the untreated check. There was a significant reduction in plant height due to 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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