Barley Plant Growth Regulator

Trial ID: 2021-BPGR01 — R.M. of Woodlands

Objective: The purpose of this project is to quantify the impact of two different plant growth regulators on plant height, lodging, yield and quality of barley

TRIAL INFORMATION	
Treatment	Product A vs Product B vs Untreated
Location	Marquette
Previous Crop	Soybeans
Soil Texture	Clay
Tillage	Conventional Tillage
Planting Date	April 27, 2021
Variety	Claymore
Row Spacing	10”
Seeding Rate	140 lbs/ac
Fertilizer (N-P-K-S)	100N 40P
Application Date	June 07 & 10, 2021
Application Timing	Product B—GS30 (5L), Product A—GS32 (6L)
Application Rate	Product B—40 ac/jug, Product A—24 ac/jug
Harvest Date	August 16, 2021

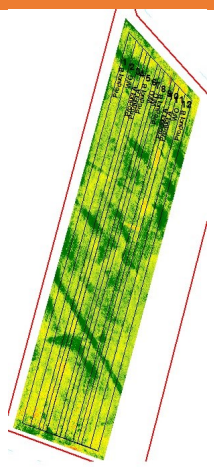
BARLEY RESPONSE

	Plant Height (cm)	Lodging		Protein %
		Incidence (%)	Severity (1-10)	
Product A	49^{B}	0	1	14.4
Product B	59^{A}	0	1	14.0
Untreated	59^{A}	0	1	14.4

OVERALL YIELD

	Mean (bu/ac)
Product A	61.0^{B}
Product B	72.4^{A}
Untreated	71.3^{A}
P-Value	0.0023
CV	4.11%
Significance	Yes

FIELD IMAGE

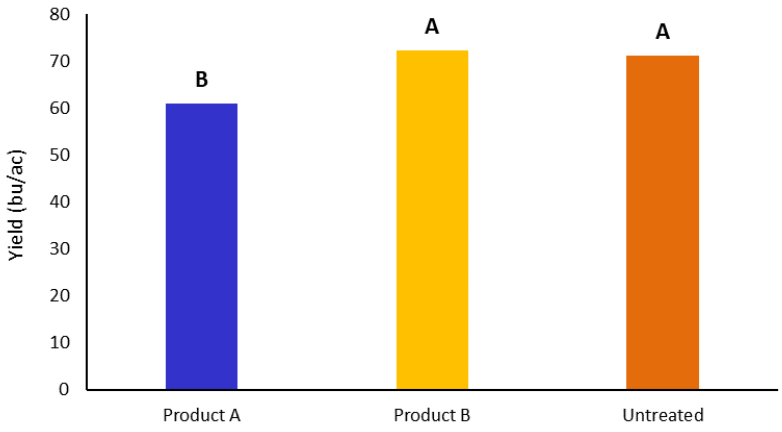


PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	36	32	12	14	**95**
Normal	51	65	55	40	**211**

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

YIELD BY TREATMENT



Summary: There was a significant yield difference between Product A vs. Product B plant growth regulator application and the untreated check. There was a significant reduction in plant height with the application of Product A plant growth regulator. There was no lodging observed within the trial. Rainfall was well below normal for the growing season.

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