



## Barley Plant Growth Regulator Trials

**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality in barley.

**Summary:** One site-year showed a significant yield difference between the treatments. Six site-years showed that the treated strips had a reduction in crop height, while four site-years had less lodging.

Summary of 2022 barley plant growth regulator trial yield results by site-year

Trial ID	Rural Municipality	Plant Height			Lodging		Yield		Protein		CV	P-Value	Statistically Significant @ 95%
		Treated	Untreated	Difference	Treated	Untreated	Treated	Untreated	Treated	Untreated			
		cm			1-9 (flat)		bu/ac		%				
BPGR01	Grassland	77 <sup>B</sup>	86 <sup>A</sup>	-9	2 <sup>B</sup>	6 <sup>A</sup>	108.1	100.7	11.1	12.3	6.90	0.3359	No
BPGR02	Glenella-Lansdowne	71 <sup>B</sup>	83 <sup>A</sup>	-12	1 <sup>B</sup>	4 <sup>A</sup>	98.1	91.9	11.7	12.2	6.27	0.2360	No
BPGR03	De Salaberry	64	73	-9	1 <sup>B</sup>	2 <sup>A</sup>	101.5	96.5	11.7	12.3	3.47	0.1269	No
BPGR04	De Salaberry	67 <sup>B</sup>	76 <sup>A</sup>	-9	1	1	100.1	94.2	12.1	12.0	3.16	0.0732	No
BPGR05	Argyle	66 <sup>B</sup>	75 <sup>A</sup>	-9	1 <sup>B</sup>	4 <sup>A</sup>	87.0	80.8	13.4	13.3	5.59	0.1597	No
BPGR06	Alexander	54	62	-8	1	1	76.5	75.8	--	12.0	4.38	0.7831	No
BPGR07	Montcalm	74 <sup>B</sup>	88 <sup>A</sup>	-14	1	1	100.5	95.0	12.0	11.4	3.87	0.1310	No
BPGR08	Montcalm	67 <sup>B</sup>	85 <sup>A</sup>	-18	1	1	115.5 <sup>A</sup>	105.8 <sup>B</sup>	10.8	11.4	1.18	0.0118	Yes



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