



Wheat and Barley Plant Growth Regulator Trial

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

Summary: 4 site-years showed a significant difference in yield and a significant reduction in plant stand using a plant growth regulator versus untreated.

Single Site Analysis

Trial ID	Rural Municipality	Variety	Height			Yield			CV	P-Value	Statistically Significant @ 95%	Protein		
			Product A	Product B	Untreated	Product A	Product B	Untreated				Product A	Product B	Untreated
2021-BPGR01	Woodlands	Claymore	49 ^B	59 ^A	59 ^A	61.0 ^B	72.4 ^A	71.3 ^A	4.11	0.0023	Yes	14.4	14.0	14.4
2021-WPGR08	Dufferin	CDC SKRush	31	37	38	16.2 ^B	21.0 ^A	17.1 ^B	4.16	0.0002	Yes	15.9	15.2	16.7

Trial ID	Rural Municipality	Variety	Height		Height Difference	Yield		Yield Difference	CV	P-Value	Statistically Significant @ 95%	Protein	
			Treated	Untreated		Treated	Untreated					Treated	Untreated
2021-BPGR02	De Salaberry	CDC Austenson	46 ^A	65 ^B	-19	87.6	94.3	-6.7	4.68	0.1122	No	13.0	13.7
2021-WPGR01	De Salaberry	AAC Brandon	74	76	-2	78.1 ^A	73.8 ^B	4.3	1.52	0.0132	Yes	15.0	15.2
2021-WPGR02	De Salaberry	Faller	64.3 ^A	68.5 ^B	-4	66.8	68.5	-1.7	3.92	0.4268	No	14.0	13.8
2021-WPGR03	Ritchot	AAC Starbuck VB	73	75	-2	61.2	58.9	2.3	8.31	0.5698	No	14.0	13.8
2021-WPGR04	Morris	SY Rowyn	72 ^A	77 ^B	5	80.5 ^B	84.1 ^A	-3.6	1.35	0.0193	Yes	13.1	12.9
2021-WPGR05	Ste. Anne	AAC Brandon	71	75	-4	67.5	66.4	1.1	5.58	0.7073	No	15.1	15.1
2021-WPGR06	Lac du Bonnet	AC Carberry	80 ^A	84 ^B	-4	69.0	69.6	-0.6	2.09	0.6693	No	13.7	13.9
2021-WPGR07	Rockwood	AAC Starbuck VB	59 ^A	62 ^B	-3	32.5	31.1	1.4	6.25	0.6719	No	16.6	16.6
2021-WPGR09	Woodlands	AAC Starbuck VB	72	72	0	30.0	29.7	0.3	2.64	0.6166	No	15.7	15.9
2021-WPGR10	Springfield	Daybreak	67 ^A	76 ^B	-9	48.1	49.4	-1.3	3.39	0.2744	No	14.6	14.2
2021-WPGR11	Westlake-Gladstone	Bolles	72 ^A	74 ^B	-2	42.6	41.6	1.0	2.22	0.2107	No	15.7	15.9
2021-WPGR12	Brokenhead	AAC Starbuck VB	80 ^A	84 ^B	-4	76.6	79.6	-3.0	2.97	0.1612	No	14.9	14.9

Indicates Statistical Difference at 95% confidence interval



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