



Wheat Seeding Rate Trial

Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding in wheat.

Summary: 2 site-years showed a significant difference in yield while 3 site-years had a significant difference in plant stands between the three seeding rates.

Table 1: Single Site Analysis

Trial ID	Rural Municipality	Variety	Seed Rate (check) lbs/ac	Plant Stand @ Mid-season			Yield			CV %	P-Value	Statistically Significant @ 95%
				Low Seed Rate	Check Seed Rate	High Seed Rate	Low Seed Rate	Check Seed Rate	High Seed Rate			
				/ft ²			bu/ac					
2021-WP01	Grey	Bolles	135	28 ^B	34 ^B	53 ^A	32.4 ^A	30.7 ^{AB}	29.7 ^B	3.31	0.0288	Yes
2021-WP02	Woodlands	AAC Brandon	120	25	25	35	68.2 ^A	64.3 ^B	60.9 ^B	3.05	0.0056	Yes
2021-WP03	Grey	AAC Starbuck VB	120	19	25	28	30.2	29.5	29.7	2.96	0.5012	No
2021-WP04	Oakland-Wawanesa	AAC Wheatland VB	120	24 ^B	32 ^{AB}	41 ^A	71.9	72.5	73.0	0.96	0.1396	No
2021-WP05	MacDonald	AAC Starbuck VB	130	26	24	24	38.5	37.4	36.4	3.74	0.1688	No
2021-WP06	Morris	AAC Starbuck VB	110	20 ^B	21 ^B	28 ^A	68.7	70.1	69.1	1.17	0.1176	No

Table 2: Economic Analysis

Trial ID	Seed Rate (check) lbs/ac	Seed Cost/Acre			Yield			Net Profit/Acre (Seed Costs)			CV %	P-Value	Statistically Significant @ 95%
		Low Seed Rate	Check Seed Rate	High Seed Rate	Low Seed Rate	Check Seed Rate	High Seed Rate	Low Seed Rate	Check Seed Rate	High Seed Rate			
		\$/ac			bu/ac			\$/ac					
2021-WP01	135	\$ 19.44	\$ 29.16	\$ 38.88	32.4	30.7	29.7	\$ 369.36	\$ 339.24	\$ 317.52	3.31	0.0288	Yes
2021-WP02	120	\$ 19.44	\$ 25.92	\$ 34.56	68.2	64.3	60.9	\$ 798.96	\$ 745.68	\$ 696.24	3.05	0.0056	Yes

Indicates Statistical Difference at 95% confidence interval

Median Seed Cost of \$0.216/lb

HRS Wheat Price (Nov 2021) - \$12/bushel



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