



Malt Barley—Variety Trials

Objective: The purpose of this project is to quantify the agricultural characteristics of malting quality of barley varieties across Manitoba.

Summary: Four site-years showed a significant yield difference between the varieties.

Summary of 2022 malt barley variety trial yield results by site-year

Trial ID	Rural Municipality	Variety	Plant Stand	Lodging Severity	Yield	Germination	Protein	CV	P-Value	Statistically Significant @ 95%
			/ft ²	(1-9)	bu/ac	%	%	%		
BV01	Victoria	AAC Synergy	17 ^A	1	105.4	94.0	12.5	2.03	0.0615	No
		AAC Connect	21 ^B	1	109.9	96.5	12.1			
BV02	Oakland-Wawanesa	AAC Synergy	32	1.25 ^A	85.1 ^B	95.0	11.4	1.44	0.0016	Yes
		AAC Connect	32	2.25 ^B	90.1 ^A	96.0	11.6			
		AAC Prairie	35	2.75 ^B	84.8 ^B	72.5	12.0			
BV03	Westlake-Gladstone	AAC Synergy	14 ^A	7	124.4 ^A	90.5	13.0	1.58	0.0003	Yes
		CDC Copper	19 ^B	7	114.1 ^B	95.5	13.1			
		CDC Churchill	19 ^B	7	125.0 ^A	97.5	13.3			



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Malt Barley—Variety Trials cont'd

Trial ID	Rural Municipality	Variety	Plant Stand	Lodging Severity	Yield	Germination	Protein	CV	P-Value	Statistically Significant @ 95%
			/ft ²	(1-9)	bu/ac	%	%	%		
BV04	Argyle	AAC Synergy	18	1	99.3 ^A	98.5	12.2	7.42	0.0178	Yes
		AAC Prairie	19	1.3	76.9 ^C	95.5	12.3			
		CDC Copper	19	2.3	85.1 ^{BC}	98.0	12.3			
		CDC Fraser	19	1.3	92.9 ^{AB}	99.5	12.5			
		CDC Churchill	23	1.3	97.3 ^{AB}	98.0	12.0			
BV05	Alexander	AAC Synergy	23 ^A	2	83.4	97.5	15.2	5.56	0.4563	No
		CDC Copper	29 ^{AB}	2	87.2	90.5	15.1			
		CDC Churchill	32 ^B	2.8	87.4		15.7			
BV06	Glenella-Lansdowne	AAC Synergy	12	—	43.4 ^A	86.0	12.5	7.50	0.0117	Yes
		AAC Connect	14	—	42.9 ^A	90.5	12.0			
		CDC Copeland	13	—	34.8 ^B	84.0	12.1			



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