

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

CDC Fraser 2-Row Malting Barley



Progress Through Research
Le progrès grâce à la recherche

CDC Fraser is a high yielding strong strawed 2-row malting barley with large plump kernels and lower grain protein. CDC Fraser has grain protein similar to CDC Copeland, malt enzyme activity between AC Metcalfe and CDC Copeland, extract greater than both checks, malt β -glucan lower than both checks and friability greater than both checks. CDC Fraser is widely adapted across the Canadian Prairies and is presently undergoing market development trials with maltsters and brewers.

Parentage: TR04280 x SM04261

Strengths:

- 114% higher yield than AC Metcalfe (2012 & 2013 Coop Trials)
- Straw strength greater than the checks including Xena
- Grain protein 8/10% lower than AC Metcalfe, similar to CDC Copeland
- Low malt β -glucan,
- Kernel weight greater than the malt checks
- Higher % plump kernels than the checks
- Resistant to loose smut and stem rust

Neutral Traits:

- Test weight similar to CDC Copeland
- 1 day later maturing than AC Metcalfe
- Malt enzyme activity between AC Metcalfe and CDC Copeland
- FAN lower than AC Metcalfe

Weaknesses:

- Susceptible or moderately susceptible to covered smut, false smut, loose smut, scald, CRR and FHB

Breeders:

Dr. Aaron Beattie and B.G. Rosnagel
Crop Development Centre
University of Saskatchewan
Saskatoon, Saskatchewan

PBR 91 Protected
PVP Granted

Averaged Characteristics from 2012 & 2013 Western Cooperative Two-Row Barley Registration Trials

Variety	Yield (% of AC Metcalfe)	Maturity (days)	Grain Protein (%)	Height (cm)	Lodging 1 = best 9 = flat	Kernel Weight (mg)	% Plump	Test Weight (kg hl)
CDC Copeland	106	93.3	11.0	86.8	3.7	45.3	87.6	63.7
Xena	111	92.5	--	83.1	3.5	48.3	88.6	65.6
AC Metcalfe	100	92.6	11.6	83.9	4.1	44.3	87.7	65.2
CDC Fraser	114	93.8	10.7	82.5	2.8	46.8	91.4	64.2

For more information, call 1-800-665-7333 or visit www.secan.com

Seed Manitoba 2024 - Malting Barley Comparison

Variety	Site Years Tested	Yield bu/ac	Protein +/- check	Maturity +/- 88 days	Height +/- 89cm	Test Tw. +/- 48.7lb/bu	Rough or Smooth Awns	Lodging	Loose Smut	Surface-Borne Smut	Root Rot	Netted Net Blotch	Spotted Net Blotch	Spot Blotch	Stem Rust	Fusarium Head Blight
AC Metcalfe	196	99	13.0	0	0	0	R	F	R	I	I	S	I	I	MR	I
AAC Synergy	79	114	12.3	0	-2	-0.4	R	G	S	I	I	MR	R	R	MR	I
CDC Austenson*	79	116	12.3	+1	0	+0.5	R	G	S	R	I	MS	R	MR	I	I
CDC Bow	55	107	12.2	+1	+3	+0.5	R	G	S	I	MS	S	MR	I	MR	I
CDC Churchill	41	114	12.3	+1	-5	-0.2	R	G	MS	MR	---	MR	MR	I	MR	MS
CDC Copeland	36	102	12.4	0	+5	-0.5	R	G	MS	I	I	I	I	S	MR	I
CDC Fraser	43	110	12.2	+1	0	-0.7	R	G	R	MR	MS	MR	MR	R	MR	I

Lodging Ratings: F=Fair; G=Good; VG=Very Good Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible * Feed barley comparison

2024 Saskatchewan Varieties of Grain - Barley Comparison

Variety	Years Tested	# Rows	Awn Type	Yield (% of AAC Synergy)		Relative Maturity	Lodging	Net Form Net Blotch	Spot-Form Net Blotch	Spot Blotch	Scald	Loose Smut	Other Smuts	Root Rot	Stem Rust	FHB
				Area 1&2	Area 3&4											
AAC Synergy	7	2	R	100	100	M	F	MR	R	R	S	S	I	I	MR	I
AC Metcalfe	7	2	R	87	86	M	F	S	I	I	MS	R	I	I	MR	I
CDC Austenson*	7	2	R	102	103	M	G	MS	R	MR	S	S	R	I	I	I
CDC Bow	7	2	R	94	93	M	VG	S	MR	I	MS	S	I	MS	MR	MS
CDC Churchill	7	2	R	105	104	M	G	MR	MR	I	S	MS	MR	---	MR	MS
CDC Copeland	7	2	R	92	93	M	F	I	I	S	MS	MS	I	I	MR	I
CDC Fraser	7	2	R	100	98	M	G	MR	R	R	MS	R	R	MS	MR	I

M=Medium; L=Late; G=Good; VG=Very Good; F=Fair; P=Poor; VP=Very Poor

Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

*Feed barley comparison

2024 Alberta Seed Guide - Malting Barley Comparison

Variety	2 or 6 Row	Awn Type	Most Recent Year of Testing	Station Years	Yield % AAC Synergy			Maturity Days +/- AAC Synergy	Test Weight lb/bu	TKW (g)	Height (cm)	Resistance to Lodging	Disease Tolerance							
					Overall Yield	Low <113 (bu/ac)	High >113 (bu/ac)						Loose Smut	Other Smuts	Scald	Spot Form Net blotch	Net Form Net Blotch	Spot Blotch	FHB	
AAC Synergy (bu/ac)					124	86	146	93												
AAC Synergy	2	R	2023	131	100	100	100	0	53	49	81	F	S	I	S	R	MR	R	I	
AC Metcalfe	2	R	2023	103	91	89	92	0	53	46	81	F	R	I	S	I	S	I	I	
CDC Austenson*	2	R	2023	101	100	94	103	+2	54	49	81	G	S	R	S	R	MS	MR	I	
CDC Bow	2	R	2016	38	97	98	96	+1	52	45	79	VG	S	I	MS	MR	S	I	I	
CDC Churchill	2	R	2023	42	103	101	104	+2	53	46	77	G	MS	MR	S	MR	MR	I	MS	
CDC Copeland	2	R	2023	88	95	92	96	+1	52	47	86	F	MS	I	S	I	I	S	I	
CDC Fraser	2	R	2017	37	102	103	101	+1	52	46	78	G	R	MR	MS	MR	MR	MR	R	I

R=Rough; VG=Very Good, G=Good, F=Fair; P=Poor; VP=Very Poor

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*Feed barley comparison

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