

Technical Bulletin

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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:

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PBR 91 Protected

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 2022 - 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	217	97	13.0	0	0	0	R	F	R	I	I	S	I	I	MR	I
AAC Synergy	55	112	12.3	0	-2	-0.4	R	G	S	I	I	MR	R	R	MR	I
CDC Austenson*	55	112	12.3	+1	0	+0.5	R	G	S	R	I	MR	R	MT	I	I
CDC Bow	50	105	12.2	+1	+3	+0.5	R	G	S	I	MS	S	MR	I	MR	MS
CDC Churchill	31	110	12.3	+1	-5	-0.2	R	G	MS	MR	---	MR	MR	I	MR	MS
CDC Copeland	51	97	12.5	0	+5	-0.5	R	F	MS	I	I	I	I	S	MR	I
CDC Fraser	38	107	12.2	+1	0	-0.7	R	G	R	MR	MS	MR	MR	MR	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 check

2022 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	6	2	R	104	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 check

2022 Alberta Seed Guide - Malting Barley Comparison

Variety	2 or 6 Row	Awn Type	Station Years	Yield % CDC Copeland			Maturity Days +/- CDC Copeland	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	
CDC Copeland (bu/ac)				108	86	138													
CDC Copeland	2	R	147	100	100	100	98	51	50	84	F	MS	I	S	I	I	S	I	
AC Metcalfe	2	R	147	99	100	96	-1	51	47	79	F	R	I	S	I	S	I	I	
CDC Austenson*	2	R	52	107	107	109	+2	53	51	79	G	XX	MR	I	I	MS	MR	I	
CDC Bow	2	R	38	101	102	100	0	51	48	77	VG	S	I	MS	MR	S	I	MS	
CDC Churchill	2	R	32	110	113	109	0	52	49	74	G	MS	MR	S	MR	MR	I	MS	
CDC Kindersley	2	R	36	100	98	102	-2	53	43	78	G	S	R	S	MR	MS	I	I	
Lowe	2	R	39	108	115	104	2	51	50	87	F	R	R	MR	MR	I	I	MR	
CDC Fraser	2	R	37	106	107	105	0	51	49	76	G	R	MR	MS	MR	MR	MR	MR	I

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

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

*Feed barley check

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