

CDC BOW

2-ROW MALTING BARLEY



Characteristics

Yield	High
Straw Strength	Strong
Maturity	Medium
Height	Short

CDC BOW

CDC Bow is a high yielding strong strawed two-row malting barley with large plump kernels and low grain protein. CDC Bow has grain protein similar to CDC Copeland, malt enzyme activity between AC Metcalfe and CDC Copeland extract greater than both checks, malt B-glucan lower than both checks and friability and FAN greater than both checks. CDC Bow is widely adapted across the Canadian Prairies and is presently undergoing market development trials with maltsters and brewers. **PBR 91 Protected**

Strengths

- 9% higher yield than AC Metcalfe (2011 & 2012 Coop Trials)
 - Straw strength greater than the checks including Xena
 - Grain protein 8/10% lower than AC Metcalfe, similar to CDC Copeland
 - Low malt B-glucan
 - Test weight and kernel weight greater than the checks
 - Higher% plump kernels than the checks
 - Resistant to covered smut and stem rust
- Weakness: Susceptible to moderately susceptible to true loose smut, false smut, scald, septoria and FHB

NEUTRAL TRAITS

- 1cm taller than AC Metcalfe
- 1 day later maturing than AC Metcalfe
- Intermediate resistance to spot blotch
- Malt enzyme activity between AC Metcalfe and CDC Copeland



Breeder

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2006-2007 Two-Row Barley Registration Trials

VARIETY	GRAIN YIELD (% OF AC METFALFE)	MATURITY (DAYS)	GRAIN PROTEIN (%)	HEIGHT (CM)	LODGING 1 = ERECT 9 = FLAT	1000 KERNEL WEIGHT (MG/KERNEL)	% PLUMP	TEST WEIGHT (KH HL)
CDC Copeland	106	92.7	11.3	85.9	3.5	44.2	87.6	63.4
Xena	112	92.9	—	81.5	3.2	47.6	88.8	65.6
AC Metcalfe	100	92.4	12.2	81.5	3.6	43.1	86.8	64.7
CDC Bow	109	93.4	11.4	83.0	2.2	47.2	92.5	65.5

Seed Manitoba 2020 - malting Barley Comparison

VARIETY	SITE YEARS TESTED	YIELD BU/AC	PROTEIN +/- CHECK	MATURITY +/- 88 DAYS	HEIGHT +/- 89CM	TEST WEIGHT +/- 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	FHB
AC Metcalfe	205	97	12.9	0	0	0	R	F	R	I	I	S	I	I	MR	I
AAC Synergy	32	112	12.2	0	-3	-0.4	R	G	S	MR	I	MR	R	R	MR	I
CDC Copeland	51	97	12.5	0	+5	-0.5	R	F	MS	I	I	I	I	S	MR	I
CDC Fraser	32	108	12.1	+1	0	-0.7	R	G	R	MR	MS	MR	MR	MR	MR	I
CDC Kindersley	34	103	12.7	-1	-3	0	R	G	S	R	I	MS	MR	I	MR	I
Lowe	35	102	12.3	+2	+5	-0.4	R	G	R	R	I	I	MR	I	S	MR
CDC Bow	44	105	12.1	+1	+3	+0.5	R	GRS	I	MS	S	MR	I	MR	MR	MS

Lodging Rates: F = Fair, G = Good, VG = Very Good Disease Ratings: R = Resistant, MR = Moderately Resistant, I = Intermediate, MS = Moderately Susceptible, S = Susceptible

2020 Saskatchewan Varieties of Grain - Malting Barley Comparison

VARIETY	# ROWS	AWN TYPE	YIELD AS % OF AAC SYNERGY		RELATIVE MATURITY	LODGING	RESISTANCE TO:									
			AREA 1&2	AREA 3&4			NET FORM NET BLOTCH	SPOT FORM NET BLOTCH	SPOT BLOTCH	SCALD	LOOSE SMUT	OTHER SMUTS	ROOT ROT	STEM RUST	FHB	
AAC Synergy	2	R	100	100	M	F	MR	R	R	S	S	I	I	MR	I	
AC Metcalfe	2	R	87	86	M	F	S	I	I	MS	R	I	I	MR	I	
CDC Copeland	2	S	92	93	M	F	I	I	S	MS	MS	I	I	MR	I	
CDC Fraser	2	R	100	98	M	G	MR	R	MR	MS	R	R	MS	I	I	
CDC Kindersley	2	r	91	93	E	G	MS	MR	I	S	S	R	I	MR	I	
Lowe	2	R	98	95	L	F	I	MR	I	MR	R	R	—	S	MR	
CDC Bow	2	R	94	93	M	VG	S	MR	I	MS	S	I	MS	MR	MS	

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

2019 Alberta Seed Guide - Malting Barley Comparison

VARIETY	2 OR 6 ROW	AWN	ALL SITES	STATION YEARS	YIELD					MATURITY DAYS +/- AC METCALFE	TEST WEIGHT LB/BU	KERNEL WEIGHT G/1000G	HEIGHT (CM)	LDG.	DISEASE TOLERANCE					NET FORM NET BLOTCH	TOL. FNB
					LOW <75 BU/AC	MEDIUM 75-100 BU/AC	HIGH 100-125 BU/AC	VERY HIGH >125 BU/AC	LOOSE SMUT						OTHER SMUTS	ROOT ROT	SCALD	SPOT FORM NET BLOTCH			
AC Metcalfe (BU/AC)					60	88	109														
AC Metcalfe	2	100	R100	552	100	100	100	100	97	52	46	79	F	R	I	I	S	I	S	I	
CDC Copeland	2	R	103	151	98	104	104	105	1	51	48	81	F	MS	I	I	S	I	I	I	
CDC Fraser	2	R	109	39	XX	114	110	108	1	51	49	76	G	R	MR	MS	MS	MR	MR	I	
CDC Kindersley	2	R	104	47	XX	102	104	104	-1	53	43	78	G	S	R	I	S	MR	MS	I	
Lowe	2	R	11	42	XX	113	117	105	3	51	50	87	F	R	R	XX	MR	MR	I	I	
CDC BOW	2	R	104	42	XX	106	105	104	1	51	48	77	VG	S	I	MS	MS	MR	S	MS	

Fl. & Cov. Smut - Flase Loose & Covered Smuts, R- Rough, 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

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