

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## CDC Churchill 2-Row Malting Barley



Progress Through Research  
Le progrès grâce à la recherche

CDC Churchill is a very high yielding strong strawed 2-row malting barley with lower grain protein than AC Metcalfe, CDC Copeland and AAC Synergy and overall excellent agronomic package. CDC Churchill will compete head-to-head with the best 2-row malt and feed barleys for yield and agronomics so will be an excellent choice as a feed or malting barley. CDC Churchill has low enzyme activity making it ideally suited to 100% malt brewing. CDC Churchill is widely adapted across the Canadian Prairies and is presently undergoing market development trials with maltsters and brewers.

**Parentage:** TR08116 x TR07299

### Strengths:

- Yield 117% of AC Metcalfe and 103% of AAC Synergy (2015 & 2016 Registration Trials)
- Straw strength greater than the malt checks AC Metcalfe, AAC Synergy and CDC Copeland
- 4cm shorter than AC Metcalfe
- Low grain protein and malt  $\beta$ -glucan (similar to AAC Synergy)
- Moderately resistant to stem rust, netted net blotch and spotted net blotch

### Neutral Traits:

- Test weight, kernel weight, plumps/thins similar to AC Metcalfe and CDC Copeland
- 1 day later maturing than AC Metcalfe, similar to CDC Copeland and AAC Synergy
- Intermediate resistance to spot blotch

### Weaknesses:

- moderately susceptible FHB and loose smut
- susceptible to scald

### Breeder:

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

**PBR 91 Protected**  
**PVP Granted**

**CMBTC Recommended List for 2025**

### Averaged Characteristics from 2015 & 2016 Western Cooperative Two-Row Barley Registration Trials

Variety	Yield (% of CDC Copeland)	Maturity (days)	Grain Protein (%)	Height (cm)	Lodging 1 = best 9 = flat	Kernel Weight (g/1000k)	% Plump	Test Weight (kg hl)
CDC Copeland	100	93.4	11.7	84.6	3.8	46.8	92.7	63.2
AC Metcalfe	96	92.9	12.3	79.4	5.3	45.1	92.6	64.4
AAC Synergy	109	93.4	11.7	79.3	4.2	47.9	94.7	64.4
CDC Austenson	111	94.6	---	79.1	3.3	47.6	92.1	66.4
<b>CDC Churchill</b>	<b>112</b>	<b>93.8</b>	<b>11.3</b>	<b>74.8</b>	<b>3.4</b>	<b>46.0</b>	<b>92.2</b>	<b>64.5</b>

For more information, call 1-800-665-7333 or visit [www.secan.com](http://www.secan.com)

## Seed Manitoba 2025 - 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	201	99	13.0	0	0	0	R	F	R	I	I	S	I	I	MR	I
AAC Synergy	91	114	12.2	0	-2	-0.4	R	G	S	I	I	MR	R	R	MR	I
CDC Austenson*	91	116	12.2	+1	0	+0.5	R	G	S	R	I	MS	R	MR	I	I
CDC Bow	55	107	12.1	+1	+3	+0.5	R	G	S	I	MS	S	MR	I	MR	I
CDC Copeland	41	102	12.3	0	+5	-0.5	R	G	MS	I	I	I	I	S	MR	I
CDC Fraser	43	109	12.1	+1	0	-0.7	R	G	R	MR	MS	MR	MR	R	MR	I
<b>CDC Churchill</b>	<b>46</b>	<b>113</b>	<b>12.3</b>	<b>+1</b>	<b>-5</b>	<b>-0.2</b>	<b>R</b>	<b>G</b>	<b>MS</b>	<b>MR</b>	<b>---</b>	<b>MR</b>	<b>MR</b>	<b>I</b>	<b>MR</b>	<b>MS</b>

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

## 2025 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 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
<b>CDC Churchill</b>	<b>7</b>	<b>2</b>	<b>R</b>	<b>105</b>	<b>104</b>	<b>M</b>	<b>G</b>	<b>MR</b>	<b>MR</b>	<b>I</b>	<b>S</b>	<b>MS</b>	<b>MR</b>	<b>---</b>	<b>MR</b>	<b>MS</b>

M=Medium; L=Late; G=Good; VG=Very Good; F=Fair; P=Poor; VP=Very Poor  
\*Feed barley comparison

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

## 2025 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
<b>AAC Synergy (bu/ac)</b>					<b>122</b>	<b>85</b>	<b>147</b>	<b>93</b>											
AAC Synergy	2	R	2024	164	100	100	100	0	53	49	81	F	S	I	S	R	MR	R	I
AC Metcalfe	2	R	2024	122	91	89	92	0	53	46	81	F	R	I	S	I	S	I	I
CDC Austenson*	2	R	2024	134	101	98	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 Copeland	2	R	2024	121	95	93	96	0	52	48	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	R	I
<b>CDC Churchill</b>	<b>2</b>	<b>R</b>	<b>2024</b>	<b>57</b>	<b>104</b>	<b>102</b>	<b>104</b>	<b>+2</b>	<b>53</b>	<b>46</b>	<b>77</b>	<b>G</b>	<b>MS</b>	<b>MR</b>	<b>S</b>	<b>MR</b>	<b>MR</b>	<b>I</b>	<b>MS</b>

R=Rough; VG=Very Good, G=Good, F=Fair; P=Poor; VP=Very Poor  
\*Feed barley comparison

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

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