

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## CDC Copeland 2-Row Malting Barley

### Strengths:

- “Recommended” status from the Canadian Malting Barley Technical Centre
- 16% higher yield than Harrington, 2% higher yield than Manley (1996 – 1998 Coop Trials)
- 3 days earlier maturing than Manley (1 day later than Harrington)
- Moderate resistance to net blotch (similar to Manley)
- Better stem rust resistance than Manley and Harrington
- Much stronger straw than Harrington, slightly stronger straw than Manley
- Higher test weight and plumper kernels than Manley, kernel plumpness similar to Harrington
- Much lower beta-glucan than Harrington and Manley
- Excellent malting quality

### Neutral Traits:

- 7 cm taller than Harrington, 5 cm taller than Manley
- Susceptible to Scald and Septoria as are Manley and Harrington

### Weaknesses:

- Susceptible to loose smut
- More susceptible to common root rot than Manley

### Breeder:

Dr. Bryan Harvey  
Crop Development Centre  
University of Saskatchewan  
Saskatoon, Saskatchewan

### 1996-98 Western Cooperative Two Row Barley Registration Trials

Entry	Yield (% Harrington)	Maturity (days)	Height (cm)	Lodging 1 = best 9 = flat	Kernel Weight (mg)	% Plump	Scald Rating	Net Blotch rating	Loose Smut	Other Smuts
Harrington	100	87.3	80	4.2	41.0	86.7	Susceptible	Susceptible	Susceptible	Susceptible
Manley	113	91.4	82	3.1	44.4	83.1	Susceptible	Intermediate	Intermediate	Intermediate
<b>CDC Copeland</b>	<b>116</b>	<b>88.5</b>	<b>87</b>	<b>2.8</b>	<b>45.1</b>	<b>86.7</b>	<b>Susceptible</b>	<b>Intermediate</b>	<b>Intermediate</b>	<b>Intermediate</b>

## 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 Fraser	38	107	12.2	+1	0	-0.7	R	G	R	MR	MS	MR	MR	MR	MR	I
<b>CDC Copeland</b>	<b>51</b>	<b>97</b>	<b>12.5</b>	<b>0</b>	<b>+5</b>	<b>-0.5</b>	<b>R</b>	<b>F</b>	<b>MS</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>S</b>	<b>MR</b>	<b>I</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 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 Fraser	7	2	R	100	98	M	G	MR	R	R	MS	R	R	MS	MR	I
<b>CDC Copeland</b>	<b>7</b>	<b>2</b>	<b>R</b>	<b>92</b>	<b>93</b>	<b>M</b>	<b>F</b>	<b>I</b>	<b>I</b>	<b>S</b>	<b>MS</b>	<b>MS</b>	<b>I</b>	<b>I</b>	<b>MR</b>	<b>I</b>

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

\*Feed barley check

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

## 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 Blotch	Spot Blotch	FHB
<b>CDC Copeland (bu/ac)</b>				<b>108</b>	<b>86</b>	<b>138</b>												
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 Fraser	2	R	37	106	107	105	0	51	49	76	G	R	MR	MS	MR	MR	MR	I
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
<b>CDC Copeland</b>	<b>2</b>	<b>R</b>	<b>147</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>98</b>	<b>51</b>	<b>50</b>	<b>84</b>	<b>F</b>	<b>MS</b>	<b>I</b>	<b>S</b>	<b>I</b>	<b>I</b>	<b>S</b>	<b>I</b>

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

\*Feed barley check

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

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