

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 – 98 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:

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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
CDC Copeland	116	88.5	87	2.8	45.1	86.7	Susceptible	Intermediate	Intermediate	Intermediate

Seed Manitoba 2006 - Malting Barley Comparison

Variety (Rows)	Long Term Average Yield (% of Robust)	Days to Maturity (+/- Robust)	Height (Inches)	Test Weight	Awn Type	Resistance to:						
						Lodging	Stem Rust	Loose Smut	Surface -Borne Smut	Root Rot	Net Blotch	Fusarium
Robust (6)	100	0	0	0	S	G	G	F	F	F	P	P
Harrington (2)	82	-3	-4	-0.1	R	P	P	P	P	P	VP	G
AC Metcalfe (2)	103	-1	-4	0.7	R	F	G	VG	F	F	F	F
CDC Kendall (2)	99	1	-4	0.9	R	F	P	P	P	F	F	F
CDC Stratus (2)	98	-2	-5	0	R	F	G	P	F	F	F	F
CDC Copeland (2)	105	-1	-2	0.2	R	F	G	P	F	F	F	F

VG=Very Good; G=Good; F+=Fair Plus; F=Fair; P=Poor; VP=Very Poor

2006 Saskatchewan Varieties of Grain - Malting Barley Comparison

Variety (Rows)	Awn Type	Yield as % of AC Metcalfe				Relative Maturity	Resistance to:							
		Area 1	Area 2	Area 3	Area 4		Lodging	Net Blotch	Scald	Loose Smut	Other Smuts	Root Rot	Stem Rust	FHB
Harrington (2)	R	99	92	89	88	M	F	VP	P	P	P	F	P	G
AC Metcalfe (2)	R	100	100	100	100	M	G	F	P	VG	F	F	G	F
CDC Kendall (2)	R	99	103	102	102	M	G	F	P	P	P	F	F	F
CDC Stratus (2)	R	100	104	105	104	M	G	F	P	F	F	F	G	F
CDC Copeland (2)	R	109	107	107	107	M	G	F	P	P	F	F	F	F

M=Medium; VG=Very Good; G=Good; F=Fair; F+=Fair Plus; P=Poor; VP=Very Poor

FHB=Fusarium Head Blight

2006 Alberta Seed Guide - Malting Barley Comparison

Variety (Rows)	Yield as % of Harrington						Awn Type	Comp. Maturity (Days)	Test Wt.	Kn. Wt.	Ht. (cm)	Resistance to:						Tol. FHB
	Irr	Area 1	Area 2	Area 3	Area 4	Area 5 & 6						Ldg.	Loose Smut	FL+Cov. Smut	Comm Root Rot	Scald	Net Blotch	
Harrington (2)	100	100	100	100	100	100	R	98	50	44	78	F	S	S	I	S	S	G
AC Metcalfe (2)	102	100	107	114	110	109	R	1	52	46	82	F	R	I	I	S	I	F
CDC Kendall (2)	101	97	102	113	109	105	R	-1	52	45	78	F	S	S	I	S	I	F
CDC Stratus (2)	104	99	101	111	109	105	R	0	52	46	78	G	I	I	I	S	I	F
CDC Copeland (2)	114	101	110	120	113	116	R	1	50	48	83	F	S	I	I	S	I	F

Test Wt.=Test Weight (lb/bu); Kn. Wt.=Kernel weight (grams/1000 kernels); G=Good; F=Fair; R=Resistant; I=Intermediate; S=Susceptible

Irr=Irrigation Ldg.=Lodging

Ht.=Height FL+Cov. Smut=False loose & covered smuts Tol. FHB=Fusarium Head Blight Tolerance