

AC Metcalfe

2 – Row Malting Barley



- “Recommended” status from the Canadian Malting Barley Technical Centre
- #1 malting barley variety in acres and selection

Malting Features:

- Excellent malting quality
- Large, plump kernels
- Higher malt extract than Harrington
- Better hull adherence than Harrington
- Established domestic and export market demand

Agronomic Features:

- Broadly adapted
- Higher yield than Harrington
- Height and lodging resistance similar to Manley
- 3 days earlier maturing than Manley
- 1 day later maturing than Harrington
- Improved smut and net blotch resistance
- Moderate fusarium resistance



Recommended Malting Barley Varieties 2006-07

These recommendations are based on the varieties expected to be selected by grain and malting companies for both domestic and export markets from the 2006 harvest. Seeding decisions should be based on agronomic considerations and feedback from your grain company representative, local elevator operators and malting companies. This list is published on behalf of the members of the CMBTC, and other companies that have provided their input. Varieties not listed are not recommended. The varieties are listed in descending order to the amount selected in 2005-06

Recommended Two-Row Barley Varieties

VARIETY	DOMESTIC	EXPORT	MARKET DEMAND
AC Metcalfe ₄	Established	Established	Stable, High Demand
CDC Kendall _{1,5}	Established	Growing	Increasing Demand
CDC Copeland ₄	Established	Growing	Increasing Demand
Harrington ₄	Established	Established	Stable, Demand
Stein ₁	Limited	Limited	Low Demand
Merit _{1,2,3,5}	Established	Limited	Low Demand

Newdale (TR258), Calder (TR262), and CDC Select (TR153) are not yet being grown for the commercial market. Production is limited to quantities required for testing and market development.

“Domestic” as used in this publication, means barley selected for domestic processing into malt to supply domestic brewers as well as for malt destined for export. “Export” is that malting barley designated for markets outside of Canada including the US, shipped as unmalted grain.

The CMBTC recommends the use of Certified seed to ensure varietal purity and to increase opportunity for selection.

The following companies have Pedigreed seed distribution rights for those varieties that are footnoted:
 1- (Agricore United); 2- (BARI-Canada); 3 - (FPS); 4 - (SeCan); 5 - (SWP).

2006 Saskatchewan Varieties 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
CDC Kendall	2	R	99	103	102	102	M	G	F	P	P	P	F	F	F
CDC Copeland	2	R	109	107	107	107	M	G	F	P	P	F	F	F	F
AC Metcalfe	2	R	100	100	100	100	M	G	F	P	VG	F	F	G	F

Awy type: R=Rough; Relative Maturity: M=Medium; Resistance to: VG=Very good; G=Good; P=Poor; VP=Very Poor; F=Fair
FHB: Fusarium Head Blight

2006 Alberta Seed Guide Malting Barley Comparison

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

Test Weight (lb/bu) pounds per bushel, Kn.Wt. = Kernel weight (grams/1000 kernels); F=Fair; S=Susceptible; R=Resistant; I=Intermediate; G=Good
Awn type: R=Rough Ht.=Height FL+Cov. Smut=False loose & covered smuts

Seed Manitoba 2006 Malting Barley Comparison

Variety	Site Years	2 or 6 Row	Long Term Average Yield (% of Robust)	Days to Maturity (+/- Robust)	Height (inches)	Test Weight (lb/bu)	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	20	2	82	-3	-4	-0.1	R	P	P	P	P	P	VP	G
CDC Kendall	31	2	99	1	-4	0.9	R	F	P	P	P	F	F	F
CDC Copeland	45	2	105	-1	-2	0.2	R	F	G	P	F	F	F	F
AC Metcalfe	63	2	103	-1	-4	0.7	R	F	G	VG	F	F	F	F

Awn Type: S=Smooth; R=Rough; Resistance to: VG=Very good; G=Good; P=Poor; VP=Very Poor; F=Fair