

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## CDC Clear 2 Row Hulless Malt Barley



**CDC Clear is a high yielding 2 row hulless malt barley with improved % plump, test weight and kernel weight compared to CDC McGwire. CDC Clear also has higher malt extract compared to AC Metcalfe and an impressive disease package.**

### Strengths:

- Improved grain yield over CDC McGwire and equal yield to AC Metcalfe
- High malt extract
- Good threshability
- Significantly higher % plump, test weight and kernel weight compared to CDC McGwire
- Resistant to surface and true loose smut
- Resistant to spot-form net blotch and stem rust
- Moderate resistance to FHB

### Neutral Traits:

- Medium maturity similar to CDC McGwire and a day later than AC Metcalfe
- Moderate straw strength equal to CDC McGwire but weaker than AC Metcalfe

### Weaknesses:

- Susceptible to scald and BYDV
- +5cm taller than CDC McGwire and AC Metcalfe

### Breeder:

Dr. Aaron Beattie and Dr. Brian Rossnagel  
Crop Development Center  
University of Saskatchewan  
Saskatoon, SK

Currently being evaluated for malt acceptance

### 2008 and 2009 Western Hulless Barley Co-operative Registration Trials

Entry	Yield (%CDC McGwire)	Maturity (days)	Height (cm)	Lodging 1=best 9=flat	Kernel Weight (mg)	% Plump
AC Metcalfe	104	101.0	82.3	1.9	46.9	95.4
CDC McGwire	100	102.2	83.4	2.7	40.0	89.1
CDC Rattan	91	101.0	76.2	3.0	37.0	89.5
<b>CDC Clear</b>	<b>104</b>	<b>102.9</b>	<b>88.7</b>	<b>2.7</b>	<b>48.9</b>	<b>95.4</b>

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

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## Seed Manitoba 2019 - Barley Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Relative Maturity +/- 88 days	Height Inches 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	192	96	13.0	0	0	0	R	F	R	I	I	S	I	I	MR	I
CDC Carter	35	91	13.3	1	0	8	R	F	R	R	S	I	MR	I	I	I
<b>CDC Clear</b>	<b>29</b>	<b>96</b>	<b>12.7</b>	<b>2</b>	<b>5</b>	<b>9</b>	<b>R</b>	<b>F</b>	<b>R</b>	<b>R</b>	<b>I</b>	<b>MS</b>	<b>R</b>	<b>I</b>	<b>MR</b>	<b>MR</b>

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

## 2019 Saskatchewan Varieties of Grain - Barley Comparison

Variety	# Rows	Awn Type	Yield (% of AC Metcalfe)		Relative Maturity	Lodging	Net Form Net Blotch	Spot-Form Net Blotch	Spot Blotch	Scald	Loose Smut	Other Smuts	Root Rot	Stem Rust	Tolerance To FHB
			Area 1&2	Area 3&4											
AC Metcalfe	2	R	100	100	M	F	S	I	I	MS	R	I	I	MR	I
CDC Carter	2	R	94	99	M	G	I	MR	I	MS	R	R	S	I	MR
CDC McGwire	2	R	98	99	M	G	I	MR	I	I	MS	MR	MR	I	MR
<b>CDC Clear</b>	<b>2</b>	<b>R</b>	<b>96</b>	<b>103</b>	<b>L</b>	<b>G</b>	<b>MS</b>	<b>R</b>	<b>I</b>	<b>MS</b>	<b>R</b>	<b>R</b>	<b>I</b>	<b>MR</b>	<b>MR</b>

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

## 2019 Alberta Seed Guide – Hulless Barley Comparison

Variety	2 or 6 Row	Awn	All sites	Station Years	Low <75 bu/ac	Medium 75-100 bu/ac	High 100-125 bu/ac	Very High >125 bu/ac	Maturity Days +/- AC Metcalfe	Test Weight lb/bu	Kernel Weight g/1000k	Height (cm)	Lodging	Disease Tolerance						
														Loose Smut	Other Smuts	Root Rot	Scald	Spot Form Net blotch	Net Form Blotch	FHB
<b>AC Metcalfe (bu/ac)</b>					<b>46</b>	<b>79</b>	<b>103</b>	<b>133</b>												
AC Metcalfe	2	R	100	510	100	100	100	100	M	52	46	79	F	R	I	I	S	I	S	I
CDC Carter	2	R	97-	45	97	99	94-	XX	M	62	39	77	VG	R	R	S	MS	MR	I	I
CDC McGwire	2	R	93-	107	88-	93-	99	XX	M	61	39	80	VG	MS	MR	MR	I	MR	I	MR
<b>CDC Clear</b>	<b>2</b>	<b>R</b>	<b>95-</b>	<b>43</b>	<b>XX</b>	<b>92-</b>	<b>100</b>	<b>XX</b>	<b>L</b>	<b>62</b>	<b>47</b>	<b>85</b>	<b>G</b>	<b>R</b>	<b>R</b>	<b>I</b>	<b>S</b>	<b>R</b>	<b>MS</b>	<b>MR</b>

Fl. & Cov. Smut=False Loose & Covered Smuts; R=Rough; G=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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