

Technical Bulletin

Genes that fit *your* farm.



CDC Carter 2 Row Hulless Feed Barley

CDC Carter is a high yielding 2 row hulless feed barley with improved resistance to loose and surface borne smut. CDC Carter will have a special fit with organic producers wishing to grow hulless barley as there is no seed treatment available for smut control.

Strengths:

- Resistant to true loose and the surface borne smuts
- Grain yield equal CDC McGwire
- Good threshability
- Kernel quality including % plumb, test weight and kernel weight = CDC McGwire
- Resistant to net blotch
- Moderate resistance to FHB scald resistance
- Moderate resistance to spot form net blotch

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 root rot

Breeder:

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2006 and 2007 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	106	88.5	84.7	3.7	44.3	87.7
CDC McGwire	100	89.6	85.2	4.1	37.7	76.0
CDC Rattan	93	88.3	78.7	4.3	36.1	80.0
CDC Carter	100	89.8	85.3	4.8	37.8	75.5

Seed Manitoba 2015 - Barley Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Relative Maturity +/- 88 days	Height Inches 35"	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	141	93	12.7	0	0	0	R	F	R	I	I	S	I	I	MR	I
CDC Clear	28	92	12.4	2	2	9	R	F	R	R	I	MS	R	I	MR	MR
CDC Carter	35	87	12.9	1	0	8	R	F	R	R	S	I	MR	I	I	I

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

2015 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	G	VP	F	F	P	VG	F	F	G	F
CDC Clear	2	R	97	103	L	G	P	VG	F	P	VG	VG	F	G	G
CDC McGwire	2	R	98	99	M	G	F	G	F	F	P	G	G	F	G
CDC Carter	2	R	94	99	M	G	F	G	F	P	VG	VG	VP	F	F

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

2015 Alberta Seed Guide – Hulless Barley Comparison

Variety	2 or 6 Row	Awn	All sites	Station Years	Low <60 bu/ac	Medium 60-90 bu/ac	High 90-120 bu/ac	Very High >120 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
AC Metcalfe (bu/ac)					46	79	103	133												
AC Metcalfe	2	R	100	510	100	100	100	100	M	52	46	79	F	R	I	I	S	I	S	I
CDC Clear	2	R	95-	43	XX	92-	100	XX	L	62	47	85	G	R	R	I	S	R	MS	MR
CDC McGwire	2	R	93-	107	88-	93-	99	XX	M	61	39	80	VG	MS	MR	MR	I	MR	I	MR
CDC Carter	2	R	97-	45	97	99	94-	XX	M	62	39	77	VG	R	R	S	MS	MR	I	I

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

For more information, call 1-800-665-7333 or visit www.secan.com