

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## CDC Austenson 2-Row Feed Barley



### Description:

**CDC Austenson is a 2-row hulled feed barley with top grain yield and short, strong straw.** CDC Austenson produces grain yields higher than Xena, along with high test weight and large, plump kernels. CDC Austenson is well-adapted across western Canada, and compared to Xena, has shown improved resistance to prevalent races of net form net blotch, spot form net blotch and spot blotch. This variety is particularly well-suited to producers seeking a top-yielding, 2-row feed barley with improved performance over Xena.

### Strengths:

- Higher grain yield than Xena
- Large, plump kernels with high test weight (87% plump kernels)
- Stronger straw than Xena
- 2 cm shorter in height than Xena
- Improved leaf disease resistance compared to Xena
- Resistant to stem rust
- Resistant to covered and false loose smut

### Neutral Traits:

- Medium maturity, similar to Xena
- Test weight similar to Xena

### Weakness:

- Susceptible to scald and true loose smut (similar to Xena)

### Breeder:

Dr. Brian Rosnagel  
Crop Development Centre  
University of Saskatchewan  
Saskatoon, SK

### 2006-2007 Two-Row Barley Registration Trials

Variety	Grain Yield (% of AC Metcalfe)	Maturity (days)	Height (cm)	Lodging 1 =erect 9 = flat	Test Weight (kg/hl)	1000 Kernel Weight (gm)	% Plump	Scald	Net Form Net Blotch	Spot Form Net Blotch	Spot Blotch	Loose Smut
AC Metcalfe	100	88	85	4.9	65.7	43.7	89	P	VP	F	F	VG
Xena	114	89	85	4.3	66.6	48.6	91	P	VP	F	VP	P
<b>CDC Austenson</b>	<b>116</b>	<b>90</b>	<b>83</b>	<b>4.0</b>	<b>66.7</b>	<b>46.5</b>	<b>87</b>	<b>VP</b>	<b>P</b>	<b>VG</b>	<b>G</b>	<b>VP</b>

### Seed Manitoba 2013 - 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	118	89	12.8	0	0	0	R	F	R	I	I	S	I	I	MR	I
CDC Cowboy	50	87	13.0	1	6	+1.3	R	G	MS	MR	I	I	MR	I	MR	MR
Conlon	84	84	12.7	-1	-1	+0.8	S	G	I	I	I	I	MR	MS	MR	MR
Xena	19	93	---	0	0	+0.3	R	G	MS	MS	MR	S	I	S	MR	MR
<b>CDC Austenson</b>	<b>37</b>	<b>104</b>	<b>12.2</b>	<b>1</b>	<b>0</b>	<b>+0.5</b>	<b>R</b>	<b>G</b>	<b>S</b>	<b>R</b>	<b>I</b>	<b>MS</b>	<b>R</b>	<b>MR</b>	<b>I</b>	<b>I</b>

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

### 2013 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 Cowboy	2	R	99	105	L	F	F	G	F	P	P	G	F	G	G
CDC Helgason	2	R	105	106	M	G	G	G	F	P	VG	G	F	F	P
Xena	2	R	112	115	M	G	VP	F	VP	P	P	P	G	G	G
<b>CDC Austenson</b>	<b>2</b>	<b>R</b>	<b>118</b>	<b>121</b>	<b>M</b>	<b>G</b>	<b>P</b>	<b>VG</b>	<b>G</b>	<b>VP</b>	<b>VP</b>	<b>VG</b>	<b>F</b>	<b>F</b>	<b>F</b>

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

### 2013 Alberta Seed Guide - Barley Comparison

Variety	Overall Yield % AC Metcalfe	Yield by Test Category % AC Metcalfe				# of Rows	Awn Type	Relative Maturity	Test Weight (lb/bu)	Kernel Weight (mg)	Height (cm)	Ldg.	Loose Smut	FL + Cov. Smut	Root Rot	Scald	Spot Form Net Blotch	Net Form Net Blotch	Tol. FHB
		Low <60 bu/ac	Med. 60-90 bu/ac	High 90-120 bu/ac	Very High >120 bu/ac														
AC Metcalfe	100	100	100	100	100	2	R	M	50	46	80	F	VG	F	F	VP	F	VP	F
CDC Cowboy	95-	107	94-	93-	95-	2	R	L	52	48	103	F	P	G	F	P	G	F	G
Gadsby	112+	XX	114+	114+	108+	2	R	M	53	51	83	F	VG	VG	F	VG	G	P	F
Ponoka	110+	98	107+	112+	112+	2	R	L	51	46	80	G	VG	VG	F	G	G	P	F
Xena	112+	107	109+	114+	115+	2	R	M	52	49	78	G	P	P	G	VP	F	VP	G
<b>CDC Austenson</b>	<b>112+</b>	<b>108</b>	<b>113+</b>	<b>111+</b>	<b>112+</b>	<b>2</b>	<b>R</b>	<b>L</b>	<b>53</b>	<b>46</b>	<b>78</b>	<b>G</b>	<b>VP</b>	<b>VG</b>	<b>F</b>	<b>VP</b>	<b>VG</b>	<b>P</b>	<b>F</b>

Ldg.=Lodging; FL + Cov.=False Loose Y Covered Smuts; Tol.=Tolerance R=Rough; S=Smooth; F=Fair; G=Good; VG=Very Good; P=Poor; VP=Very Poor

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