

# Technical Bulletin

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## 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

### Weaknesses:

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

### Breeder:

Dr. Brian Rossnagel  
Crop Development Centre  
University of Saskatchewan  
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### 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
CDC Austenson	116	90	83	4.0	66.7	46.5	87	VP	P	VG	G	VP

### Seed Manitoba 2019 - Barley Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Relative Maturity +/- 88 days	Height +/- 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 Cowboy	50	95	13.3	+1	+15	+1.3	R	F	MS	MR	I	I	MR	I	MR	MR
CDC Maverick	29	95	13.5	+1	+10	+5.4	S	F	S	R	I	I	MR	I	MR	MR
<b>CDC Austenson</b>	<b>43</b>	<b>113</b>	<b>12.3</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>

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 Cowboy	2	R	99	105	L	F	I	MR	I	MS	MS	MR	I	MR	MR
CDC Maverick	2	S	98	98	M	F	I	MR	I	MS	S	R	I	MR	MR
<b>CDC Austenson</b>	<b>2</b>	<b>R</b>	<b>118</b>	<b>121</b>	<b>M</b>	<b>G</b>	<b>MS</b>	<b>R</b>	<b>MR</b>	<b>S</b>	<b>S</b>	<b>R</b>	<b>I</b>	<b>I</b>	<b>I</b>

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

### 2019 Alberta Seed Guide - Barley Comparison

Variety	Overall Yield % AC Metcalfe	Yield by Test Category % AC Metcalfe				Relative Maturity	Test Weight (lb/bu)	Kernel Weight (mg)	Height (cm)	Ldg.	Resistance to:						
		All Sites	Low <75 bu/ac	Med. 75-100 bu/ac	High 100-125 bu/ac						Very High >125 bu/ac	Loose Smut	Other Smut	Root Rot	Scald	Spot Form Net Blotch	Net Form Net Blotch
<b>AC Metcalfe (bu/ac)</b>	<b>59</b>	<b>88</b>	<b>110</b>	<b>137</b>													
AC Metcalfe	100	100	100	100	100	M	52	46	79	F	R	I	I	S	I	S	I
CDC Cowboy	95	107	94	93	96	L	52	55	103	F	MS	MR	I	MS	MR	I	MR
CDC Maverick	95	XX	90	97	96	M	54	55	98	F	S	R	I	MS	MR	I	MR
Gadsby	112	XX	114	114	108	M	53	51	83	F	R	R	I	R	MR	MS	I
Ponoka	108	101	107	110	109	L	51	46	80	G	R	R	I	R	MR	MS	I
<b>CDC Austenson</b>	<b>113</b>	<b>110</b>	<b>113</b>	<b>111</b>	<b>115</b>	<b>L</b>	<b>54</b>	<b>47</b>	<b>79</b>	<b>G</b>	<b>S</b>	<b>R</b>	<b>I</b>	<b>S</b>	<b>R</b>	<b>MS</b>	<b>I</b>

Lodging Ratings: F=Fair; G=Good; VG=Very Good

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](http://www.secan.com)