

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:

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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 2021 - 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
AB Advantage (6R)	30	107	13.2	1	+15	0	S	VG	MR	I	---	MS	I	I	I	S
CDC Cowboy (2R)	50	96	13.1	1	+15	+1.3	R	F	MS	MR	I	I	MR	I	MR	MR
CDC Maverick (2R)	29	97	13.4	1	+10	+5.4	S	F	S	R	I	I	MR	I	MR	MR
CONLON (2R)	88	94	12.8	-1	-3	+0.8	S	G	I	I	I	I	MR	S	MR	MR
CDC Austenson (2R)	44	114	12.2	1	0	+0.5	R	G	S	R	I	MS	R	MR	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

2021 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	FHB
			Area 1&2	Area 3&4											
AAC Synergy	2	R	100	100	M	F	MR	R	R	S	S	I	I	MR	I
AB Advantage	6	S	104	99	VL	VG	MS	I	I	I	MR	I	---	I	S
AC Rosser	6	S	101	99	M	G	I	MR	MR	S	MS	MR	MR	MR	S
CDC Cowboy	2	R	85	89	L	F	I	MR	I	MS	MS	MR	I	MR	MR
CDC Maverick	2	S	79	83	M	F	I	MR	I	MS	S	R	I	MR	MR
CDC Austenson	2	R	102	103	M	G	MS	R	MR	S	S	R	I	I	I

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

2021 Alberta Seed Guide - Barley Comparison

Variety	# of Row	Awn Type	Overall Yield	Yield by Test Category % AC Metcalfe				Agronomic Characteristics					Disease Resistance						
				Low <75 bu/ac	Med. 75-100 bu/ac	High 90-120 bu/ac	Very High >120 bu/ac	Maturity Rating (Days +/- AC Metcalfe)	Test Weight (lb/bu)	Kernel Weight (mg)	Height (cm)	Resistance to Lodging	Loose Smut	Other Smut	Scald	Spot Form Net Blotch	Net Form Net Blotch	Spot Blotch	FHB
AC Metcalfe (bu/ac)			101	60	87	109	137												
AC Metcalfe	2	R	100	100	100	100	100	97	52	46	79	F	R	I	S	I	S	I	I
AB Advantage	6	S	114	XX	115	108	119	+2	51	49	106	G	MR	I	I	I	MS	I	S
Amisk	6	SS	105	XX	105	104	108	+1	49	46	69	VG	S	MS	I	MR	I	MR	S
CDC Cowboy	2	R	95	107	94	93	96	+2	52	55	103	F	MS	MR	MS	MR	I	I	MR
CDC Maverick	2	S	95	XX	90	97	97	+2	54	55	98	F	S	R	MS	MR	I	I	MR
Gadsby	2	R	112	XX	114	114	108	+1	53	51	83	F	R	R	R	MR	MS	MS	I
CDC Austenson	2	R	113	110	112	111	115	+3	53	48	81	G	S	R	S	R	MS	MR	I

Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible