

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## Esma 2-Row Barley



Esma is an exciting new 2-row barley with exceptionally short strong straw and high grain yield potential. Esma is ideally suited to high moisture and high fertility growing conditions of Western Canada. Esma was registered in Ontario as a malt variety but in Western Canada it fits best as a feed barley as it's malt profile does not match our normal western malt varieties.

### Strengths:

- Yield 129% of AC Metcalfe and 109% of AAC Synergy (2018 & 2019 Ontario Orthogonal Registration Trials)
- 105% of CDC Austenson in SeCan western Canadian EuroBarley trials in 2017 and 2019
- Approximately 14cm shorter than CDC Austenson in SeCan western Canadian EuroBarley trials
- Very good lodging rating, in SeCan western EuroBarley trials Esma rated 1.3 vs 2.7 for CDC Austenson on a 1 to 9 scale where 1 = no lodging and 9 = flat

### Neutral Traits:

- Slightly lower bushel weight compared to Canadian check varieties
- similar maturity to CDC Austenson
- Intermediate resistance to spot blotch

### Weaknesses:

- Susceptible disease resistance rating to FHB and stem rust

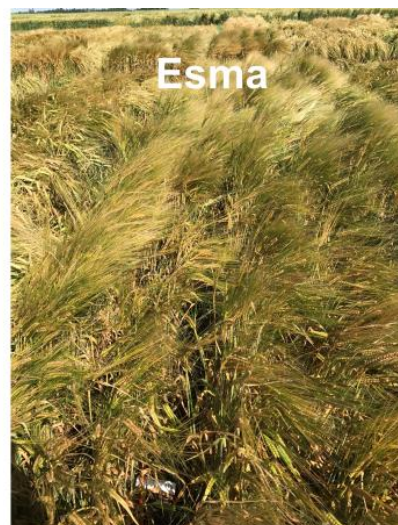
### Breeder:

Ackermann Saatzucht GmbH & Co. KG,  
Irlbach, Germany

### PBR 91 Protected

**VUA**<sup>TM</sup>

Pictures taken in August 2017 at Bon Accord, AB



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

## Seed Manitoba 2022 - 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	106	13.3	+1	+15	0	S	VG	MR	I	---	MS	I	I	I	S
AB Tofield (6R)	29	109	12.2	+1	+5	+1	S	VG	---	MR	---	MS	I	I	R	S
CDC Austenson (2R)	55	112	12.3	+1	0	+0.5	R	G	S	R	I	MS	R	MR	I	I
CDC Churchill (2R)	31	110	12.2	+1	-5	-0.2	R	G	MS	MR	---	MR	MR	I	MR	MS
KWS Kellie <b>VUA</b>	18	105	12.0	1	-11	-1.5	---	P	---	---	---	---	---	---	---	---
<b>Esma (2R) VUA</b>	<b>19</b>	<b>112</b>	<b>12.2</b>	<b>+1</b>	<b>-10</b>	<b>-0.4</b>	<b>---</b>	<b>G</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>

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

## 2022 Saskatchewan Varieties of Grain - Barley Comparison

Variety	Years Tested	# Rows	Awn Type	Yield (% of AAC Synergy)		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	7	2	R	100	100	M	F	MR	R	R	S	S	I	I	MR	I
AB Advantage	6	6	S	104	99	VL	VG	MS	I	I	I	MR	I	---	I	S
AB Tofield	4	6	S	106	106	L	G	MS	I	I	I	---	MR	---	R	S
CDC Austenson	7	2	R	102	103	M	G	MS	R	MR	S	S	R	I	I	I
CDC Churchill	6	2	R	104	104	M	G	MR	MR	I	S	MS	MR	---	MR	MS
KWS Kellie <b>VUA</b>	<b>2</b>	<b>2</b>	<b>R</b>	<b>115</b>	<b>109</b>	<b>L</b>	<b>G</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>
<b>Esma VUA</b>	<b>2</b>	<b>2</b>	<b>R</b>	<b>115</b>	<b>105</b>	<b>M</b>	<b>G</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>

M=Medium; L=Late; F=Fair; G=Good; VG=Very Good; P=Poor; VP=Very Poor; Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

## 2022 Alberta Seed Guide – Barley Comparison

Variety	2 or 6 Row	Awn Type	Station Years	Yield % CDC Copeland			Maturity Days +/- CDC Copeland	Test Weight lb/bu	TKW (g)	Height (cm)	Resistance to Lodging	Disease Tolerance						
				Overall Yield	Low <113 (bu/ac)	High >113 (bu/ac)						Loose Smut	Other Smuts	Scald	Spot Form Net blotch	Net Form Net Blotch	Spot Blotch	FHB
<b>CDC Copeland (bu/ac)</b>				<b>108</b>	<b>86</b>	<b>138</b>												
CDC Copeland	2	R	147	100	100	100	98	51	50	84	F	MS	I	S	I	I	S	I
AB Advantage	6	S	32	108	104	110	1	50	50	95	G	MR	I	I	I	MS	I	S
AB Tofield	6	S	24	108	106	109	1	50	45	82	G	XX	MR	I	I	MS	I	S
CDC Austenson	2	R	52	108	107	109	2	53	51	79	G	S	R	S	R	MS	MR	I
CDC Churchill	2	R	32	110	113	109	0	52	49	74	G	MS	MR	S	MR	MR	I	MS
KWS Kellie <b>VUA</b>	<b>2</b>	<b>R</b>	<b>15</b>	<b>120</b>	<b>126</b>	<b>114</b>	<b>2</b>	<b>50</b>	<b>52</b>	<b>66</b>	<b>VG</b>	<b>NT</b>	<b>NT</b>	<b>NT</b>	<b>NT</b>	<b>NT</b>	<b>NT</b>	<b>NT</b>
<b>Esma VUA</b>	<b>2</b>	<b>R</b>	<b>15</b>	<b>116</b>	<b>119</b>	<b>114</b>	<b>1</b>	<b>51</b>	<b>51</b>	<b>68</b>	<b>VG</b>	<b>NT</b>	<b>NT</b>	<b>NT</b>	<b>NT</b>	<b>NT</b>	<b>NT</b>	<b>NT</b>

R=Rough; VG=Very Good, G=Good, F=Fair; P=Poor; VP=Very Poor; Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible, NT= Not tested

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