

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

Esma 2-Row Barley



Progress Through Research
Le progrès grâce à la recherche

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 and FHB

Weaknesses:

- Susceptible disease resistance rating stem rust

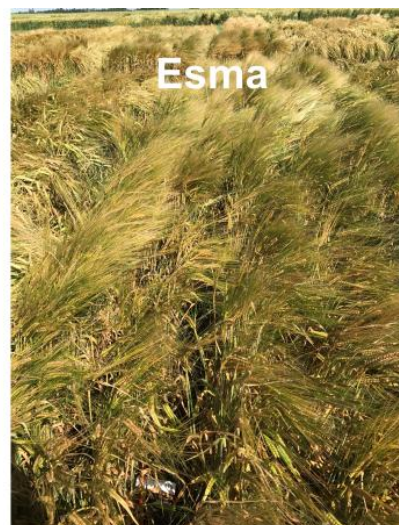
Breeder:

Ackermann Saatzucht GmbH & Co. KG,
Irlbach, Germany

**PBR 91 Protected
PVP Granted**

VUA™

Pictures taken in August 2017 at Bon Accord, AB



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

Seed Manitoba 2025 - 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
AAC Stockton (2R)	17	117	12.4	+1	-2	0	R	G	R	R	---	I	I	I	R	MR
AB Advantage (6R)	30	108	13.2	+1	+15	0	S	VG	MR	I	---	MS	I	I	I	S
CDC Austenson (2R)	91	116	12.2	+1	0	+0.5	R	G	S	R	I	MS	R	MR	I	I
CDC Churchill (2R)*	46	113	12.3	+1	-5	-0.2	R	G	MS	MR	---	MR	MR	I	MR	MS
CDC Durango (2R)	29	113	12.4	+2	-3	+0.1	R	G	S	R	---	MR	MS	I	I	I
CDC Renegade (2R)	29	107	12.6	+1	+7	-0.3	S	F	I	MR	---	MS	MR	MS	MR	MR
KWS Kellie (2R) VUA	29	106	12.0	1	-11	-1.5	---	P	R	NT	---	MS	MS	MS	NT	I
Esma (2R) VUA	30	114	12.1	+1	-10	-0.4	---	G	R	NT	---	MS	MS	MS	NT	I

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

2025 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
AAC Stockton	4	2	R	99	103	M	F	I	I	I	S	R	R	---	R	MR
AB Advantage	7	6	S	103	100	VL	VG	MS	I	I	I	MR	I	---	I	S
CDC Austenson	7	2	R	102	103	M	G	MS	R	MR	S	S	R	I	I	I
CDC Churchill*	7	2	R	105	104	M	G	MR	MR	I	S	MS	MR	---	MR	MS
CDC Durango	6	2	R	106	107	M	VG	MR	MS	I	MS	S	MR	---	I	I
CDC Renegade	5	2	S	103	96	M	F	I	MR	MS	S	MS	MR	---	MR	MR
KWS Kellie VUA	5	2	R	102	96	L	G	MS	MS	MS	I	R	---	---	---	I
Esma VUA	5	2	R	103	98	M	G	MS	MS	MS	S	R	---	---	---	I

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

2025 Alberta Seed Guide – Feed and Food Barley Comparison

Variety	2 or 6 Row	Awn Type	Most Recent Year of Testing	Station Years	Yield % AAC Synergy			Maturity Days +/- AAC Synergy	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
AAC Synergy (bu/ac)					122	85	147	93											
AAC Synergy	2	R	2024	164	100	100	100	0	53	49	81	F	S	I	S	R	MR	R	I
AAC Stockton	2	R	2024	31	102	102	104	0	53	50	80	F	R	R	S	I	I	I	MR
AB Advantage	6	S	2020	32	104	100	106	+2	52	48	102	G	MR	I	I	I	MS	I	S
AB Tofield	6	S	2021	24	104	102	105	+1	52	43	84	G	MR	MR	I	I	MS	I	S
CDC Austenson	2	R	2024	101	100	98	103	+2	54	49	81	G	S	R	S	R	MS	MR	I
CDC Churchill*	2	R	2024	57	104	102	104	+2	53	46	77	G	MS	MR	S	MR	MR	I	MS
CDC Durango	2	R	2023	45	107	101	110	+2	54	50	79	VG	S	R	MS	MS	MR	I	I
CDC Renegade	2	S	2022	26	102	109	97	+4	52	52	90	F	I	MR	S	MR	I	MS	MR
KWS Kellie VUA	2	R	2022	26	114	121	110	+5	52	50	66	VG	R	XX	I	MS	MS	MS	I
Esma VUA	2	R	2022	26	110	114	107	+3	52	51	69	VG	R	XX	S	MS	MS	MS	I

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

*Malting barley for comparison

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