

Technical Bulletin

Genes that fit *your* farm.



KWS Kellie 2-Row Barley



KWS Kellie is an exciting new 2-row barley with exceptionally short strong straw and high grain yield potential. KWS Kellie is ideally suited to high moisture and high fertility growing conditions of Western Canada. KWS Kellie 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:

- 109% of CDC Austenson in SeCan western Canadian EuroBarley trials 2019-2021
- Yield 120% of AC Metcalfe and equal to AAC Synergy (2018 & 2019 Ontario Orthogonal Registration Trials)
- Approximately 10cm shorter than CDC Austenson in SeCan western Canadian EuroBarley trials 2019-2021
- Expected very good lodging rating, in SeCan western EuroBarley trials KWS Kellie rated 1.8 vs 2.6 for CDC Austenson on a 1 to 9 scale where 1 = no lodging and 9 = flat

Neutral Traits:

- Slightly lower test weight compared to Canadian check varieties
- Late maturity, +1-2 days compared to CDC Austenson

Weaknesses:

- Disease rating still under review but early results show poorer disease resistance than traditional Canadian cultivars

Breeder:

KWS SAAT SE & Co. Einbeck, Germany

PBR 91 Pending

VUA™

Pictures taken in August 2020 at Bon Accord, AB



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

Seed Manitoba 2024 - 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	109	13.3	+1	+15	0	S	VG	MR	I	---	MS	I	I	I	S
AB Tofield (6R)	29	111	12.2	+1	+5	+1	S	VG	MR	MR	---	MS	I	I	R	S
CDC Austenson (2R)	79	116	12.3	+1	0	+0.5	R	G	S	R	I	MS	R	MR	I	I
CDC Churchill (2R)*	41	114	12.3	+1	-5	-0.2	R	G	MS	MR	---	MR	MR	I	MR	MS
CDC Durango (2R)	29	114	12.5	+2	-3	+0.1	R	G	S	R	---	MR	MS	I	I	I
CDC Renegade (2R)	29	107	12.7	+1	+7	-0.3	S	F	I	MR	---	MS	MR	MS	MR	MR
Esma (2R) VUA	30	115	12.2	+1	-10	-0.4	---	G	NT	NT	NT	NT	NT	NT	NT	NT
KWS Kellie (2R) VUA	29	106	12.1	1	-11	-1.5	---	P	NT	NT	NT	NT	NT	NT	NT	NT

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

2024 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	7	6	S	103	100	VL	VG	MS	I	I	I	MR	I	---	I	S
AB Tofield	6	6	S	106	105	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*	7	2	R	105	104	M	G	MR	MR	I	S	MS	MR	---	MR	MS
CDC Durango	5	2	R	107	107	M	VG	MR	MS	I	MS	S	MR	---	I	I
CDC Renegade	4	2	S	107	97	M	F	I	MR	MS	S	MS	MR	---	MR	MR
Esma VUA	4	2	R	106	100	M	G	---	---	---	---	---	---	---	---	---
KWS Kellie VUA	4	2	R	107	98	L	G	---	---	---	---	---	---	---	---	---

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

2024 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)					124	86	146	93											
AAC Synergy	2	R	2023	131	100	100	100	0	53	49	81	F	S	I	S	R	MR	R	I
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	2023	101	100	94	103	+2	54	49	81	G	S	R	S	R	MS	MR	I
CDC Churchill*	2	R	2023	42	103	101	104	+2	53	46	77	G	MS	MR	S	MR	MR	I	MS
CDC Durango	2	R	2023	41	106	98	109	+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
Esma VUA	2	R	2022	26	110	114	107	+3	52	51	69	VG	NT	NT	NT	NT	NT	NT	NT
KWS Kellie VUA	2	R	2022	26	114	121	110	+5	52	50	66	VG	NT	NT	NT	NT	NT	NT	NT

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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