

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

AB Advantage 6-Row Feed & Forage Barley



Progress Through Research
Le progrès grâce à la recherche

Description:

AB Advantage is a dual purpose smooth awned 6-row barley with excellent grain and forage yield potential. AB Advantage is a full height 6-row that stands very well and has large plump kernels. With a smooth awn, and high biomass AB Advantage is well suited to forage/silage/ feed for western Canada.

Parentage: H97098003/Sundre

Strengths:

- Grain yield 105% of Vivar and 102% of CDC Austenson in registration cooperative trials
- Forage yield 102% of Vivar and CDC Austenson in forage barely registration trials
- **Smooth awned**
- High % plump and heavy TKW and bushel weight compared to Vivar and AC Ranger
- Better lodging tolerance than AC Ranger and slightly weaker than Vivar in registration trials

Neutral Traits:

- Full height - +18cm compared to Vivar
- Intermediate resistance to surface-borne smuts, loose smut, stem rust, scald, spot blotch and spotted form net blotch
- Medium-Late maturity, +2 days later than Vivar
- Forage quality similar to the checks Vivar and AC Ranger

Weaknesses:

- Moderately susceptible to netted net blotch
- Susceptible to FHB

Breeder:

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Field Crop Development Centre
Alberta Agriculture and Rural Development
Lacombe, Alberta

PBR 91 Protected

2016 and 2017 Western Cooperative Six-Row Barley Registration Trials

Variety	Grain Yield % AC Ranger	Heading (days)	Maturity (days)	Height (cm)	Lodging 1 = erect 9 = flat	1000 Kernel Weight (gm)	Test Weight (g/hl)	% Plump
AC Ranger	100	56.3	91.8	85.5	5.2	40.3	61.0	79.7
Vivar	101	56.9	90.5	79.8	3.4	40.8	61.1	83.3
CDC Mayfair	94	54.9	89.6	84.8	4.3	38.5	61.1	89.9
Celebration	97	54.6	88.2	86.0	4.1	36.7	62.9	88.0
AB Advantage	106	57.4	92.4	97.8	3.6	45.0	62.5	89.8

2016 and 2017 Western Cooperative Forage Barley Registration Trials

Variety	Forage Yield % AC Ranger	Height (cm)	Lodging 1 = erect 9 = flat	Crude Protein %	NDF %	ADF %	IVTD %	Starch %	CC (cow d/ha)	ADG (kg/d)	NDF 30-NDF
AC Ranger	100	83.6	2.3	9.3	44.5	28.5	75.5	25.0	695	0.90	44.7
CDC Austenson	104	81.9	1.6	8.8	44.3	27.9	75.6	24.2	724	0.93	44.6
CDC Cowboy	107	103.7	2.2	8.4	46.4	30.0	73.4	23.2	753	0.75	42.3
Vivar	104	79.6	1.5	8.6	44.2	29.0	75.6	27.1	724	0.90	44.8
AB Advantage	107	96.3	1.9	8.9	45.3	28.7	73.7	23.3	747	0.86	41.6

NDF = neutral detergent fibre, ADF = acid detergent fibre, IVTD = in-vitro true digestibility, CC = carrying capacity, ADG = average daily gain

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

Seed Manitoba 2023 - Barley Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Relative Maturity +/- 88 days	Height +/- 89cm	Test Weight +/- 48.71b/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 Tofield (6R)	29	108	12.2	+1	+5	+1	S	VG	MR	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)*	35	110	12.3	+1	-5	-0.2	R	G	MS	MR	---	MR	MR	I	MR	MS
CDC Durango (2R)	10	111	12.7	+2	-3	+0.1	R	G	S	R	---	MR	MS	I	I	I
CDC Renegade (2R)	28	104	12.7	+1	7	-0.3	S	F	I	MR	---	MS	MR	MS	MR	MR
Eσμα (2R) VUA	29	112	12.2	+1	-10	-0.4	---	G	NT	NT	NT	NT	NT	NT	NT	NT
AB Advantage (6R)	30	106	13.3	+1	+15	0	S	VG	MR	I	---	MS	I	I	I	S

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

2023 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 Tofield	5	6	S	109	107	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	4	2	R	109	108	M	VG	MR	MS	I	MS	S	MR	---	I	I
CDC Renegade	3	2	S	109	104	M	F	I	MR	MS	S	MS	MR	---	MR	MR
Eσμα VUA	3	2	R	110	102	M	G	---	---	---	---	---	---	---	---	---
KWS Kellie VUA	3	2	R	113	102	L	G	---	---	---	---	---	---	---	---	---
AB Advantage	7	6	S	103	100	VL	VG	MS	I	I	I	MR	I	---	I	S

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

2023 Alberta Seed Guide – Feed and Food Barley Comparison

Variety	2 or 6 Row	Awn Type	Most Recent Year of Testing	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
CDC Copeland (bu/ac)					110	83	135												
CDC Copeland	2	R	2022	182	100	100	100	98	51	50	84	F	MS	I	S	I	I	S	I
AB Tofield	6	S	2021	24	108	106	109	0	50	45	82	G	MR	MR	I	I	MS	I	S
CDC Austenson	2	R	2022	87	107	106	108	2	52	51	80	G	S	R	S	R	MS	MR	I
CDC Churchill*	2	R	2020	32	110	113	111	0	52	49	74	G	MS	MR	S	MR	MR	I	MS
CDC Durango	2	R	2022	31	112	108	113	+3	52	51	79	G	S	R	MS	MS	MR	I	I
CDC Renegade	2	S	2022	26	106	114	101	+2	51	53	89	F	I	MR	S	MR	I	MS	MR
Eσμα VUA	2	R	2022	26	115	119	112	1	51	53	68	VG	NT	NT	NT	NT	NT	NT	NT
KWS Kellie VUA	2	R	2022	26	119	126	115	+3	50	52	65	VG	NT	NT	NT	NT	NT	NT	NT
AB Advantage	6	S	2020	32	108	104	110	1	50	50	95	G	MR	I	I	I	MS	I	S

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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