

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

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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 Cattlelac (6R)	31	110	12.8	1	+11	+1.3	SS	VG	I	R	---	MS	MR	MR	I	S
AB Tofield (6R)	18	111	12.1	1	+5	+1	S	VG	---	Mr	---	Ms	I	I	R	S
Amisk (6R)	30	116	12.6	1	0	-2.3	SS	VG	S	MS	MS	I	MR	MR	MR	S
CDC Austenson (2R)	44	114	12.2	1	0	+0.5	R	G	S	R	I	MS	R	MR	I	I
AB Advantage (6R)	30	107	13.2	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

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 Cattlelac	6	SS	99	97	L	VG	MS	MR	MR	I	I	R	---	I	S
AB Tofield	6	S	104	105	L	G	MS	I	I	I	---	MR	--	R	S
Amisk	6	SS	97	98	M	G	I	MR	MR	I	S	MS	MS	MR	S
CDC Austenson	2	R	102	103	M	G	MS	R	MR	S	S	R	I	I	I
AC Rosser	6	S	101	99	M	G	I	MR	MR	S	MS	MR	MR	MR	S
AB Advantage	6	S	104	99	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

2021 Alberta Seed Guide - Barley Comparison

Variety	# of Rows	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	
AB Tofield	6	S	115	XX	109	112	118	+2	51	45	95	G	XX	MR	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
Chigwell	6	S	104	XX	98	106	111	+1	49	41	76	G	MS	MR	MR	MR	I	MR	S
Trochu	6	S	107	101	102	109	112	-1	49	41	78	G	MS	MR	I	MR	S	MR	I
Vivar	6	R	109	97	105	109	111	-1	49	44	73	VG	I	R	I	MR	R	MR	S
AB Advantage	6	S	114	XX	115	108	119	+2	51	49	106	G	MR	I	I	I	MS	I	S

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

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