

# Technical Bulletin

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## 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:

Dr. Joseph Nyachiro  
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
<b>AB Advantage</b>	<b>106</b>	<b>57.4</b>	<b>92.4</b>	<b>97.8</b>	<b>3.6</b>	<b>45.0</b>	<b>62.5</b>	<b>89.8</b>

### 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
<b>AB Advantage</b>	<b>107</b>	<b>96.3</b>	<b>1.9</b>	<b>8.9</b>	<b>45.3</b>	<b>28.7</b>	<b>73.7</b>	<b>23.3</b>	<b>747</b>	<b>0.86</b>	<b>41.6</b>

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](http://www.secan.com)