

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## Amisk

### Semi-Dwarf 6-Row Feed Barley



Progress Through Research  
Le progrès grâce à la recherche

#### Description:

Amisk is a 6-row, semi-dwarf, semi-smooth awned, feed barley, well adapted to the barley growing regions of western Canada. Amisk is unique in that it has much improved grain plumpness, +14% of Vivar and even +5% of AC Metcalfe (2-row). Amisk has excellent grain and silage yield potential plus a better than average combination of disease resistance to stem rust, septoria and spot form net blotch.

#### Strengths:

- Better lodging tolerance than Vivar and AC Ranger
- Plumps 14% higher than Vivar and 5% higher than the 2-row check AC Metcalfe
- Semi-smooth awn
- 7% higher silage yield than Vivar
- Quality traits equal to or exceeding that of Vivar

#### Neutral Traits:

- Grain yield similar to Vivar and AC Ranger
- Heading and maturity similar to the checks
- Crude protein similar to Vivar
- 1000 kernel weight and test weight equal to the checks

#### Weaknesses:

- Susceptible to barley yellow dwarf virus
- Susceptible to loose and covered smut

#### Breeder:

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Alberta Agriculture and Rural Development  
Lacombe, Alberta

#### PBR 91 Protected

#### 2011-12 Western Cooperative Six-Row Barley Registration Trials

Variety	Yield (% mean of the checks all sites)	Heading (days)	Maturity (days)	Height (cm)	Lodging 1 = erect 9 = flat	1000 Kernel Weight (gm)	Test Weight (kg/hl)	% Plump
AC Ranger	103	55.9	98.2	79.5	5.0	40.6	61.0	72.5
Vivar	102	55.8	97.0	75.5	3.2	40.5	60.9	74.9
CDC Mayfair	97	54.0	95.5	82.1	3.6	38.4	61.4	84.6
Celebration	96	54.3	95.0	81.0	3.6	36.7	63.1	83.4
<b>Amisk</b>	<b>101</b>	<b>55</b>	<b>97</b>	<b>75.1</b>	<b>2.1</b>	<b>40.8</b>	<b>60.4</b>	<b>87.0</b>

#### 2011-2012 Mean silage yield and quality characteristics in FCDC silage trials

Variety	Dry Silage Yield (kg/ha)	% of Vivar	Protein (%)	ADF (%)	NDF (%)	Starch (%)	Lignin (%)	NDF30 (%)
AC Ranger	15362	104	10.6	29.5	46.9	17.2	4.0	49.5
Chigwell	14711	100	11.9	31.3	49.8	16.5	4.3	47.9
Vivar	14705	100	10.9	29.6	48.5	17.7	4.3	47.0
<b>Amisk</b>	<b>15700</b>	<b>107</b>	<b>11.4</b>	<b>29.6</b>	<b>46.0</b>	<b>17.3</b>	<b>3.9</b>	<b>48.9</b>

## Seed Manitoba 2017 - Barley Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Relative Maturity +/- 88 days	Height Inches 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
AC Metcalfe	153	94	12.8	0	0	0	R	F	R	I	I	S	I	I	MR	I
Chigwell	41	99	12.3	0	0	-1.6	S	G	MS	R	S	I	MR	MR	S	S
Muskwa	31	102	12.6	0	-13	1.3	S	G	MS	R	MS	MS	MR	I	MR	S
<b>Amisk</b>	<b>30</b>	<b>111</b>	<b>12.6</b>	<b>1</b>	<b>0</b>	<b>-2.3</b>	<b>SS</b>	<b>VG</b>	<b>S</b>	<b>MS</b>	<b>MS</b>	<b>I</b>	<b>MR</b>	<b>MR</b>	<b>MR</b>	<b>S</b>

Lodging Ratings: F=Fair; G=Good; VG=Very Good Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

## 2017 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	Tolerance To FHB
			Area 1&2	Area 3&4											
AC Metcalfe	2	R	100	100	M	G	S	I	I	MS	R	I	I	MR	I
Chigwell	6	S	107	111	M	G	I	MR	MR	MR	MS	R	S	S	S
AC Rosser	6	S	115	115	M	G	I	MR	MR	S	MS	MR	MR	MR	S
<b>Amisk</b>	<b>6</b>	<b>SS</b>	<b>113</b>	<b>116</b>	<b>M</b>	<b>G</b>	<b>I</b>	<b>MR</b>	<b>MR</b>	<b>I</b>	<b>S</b>	<b>MS</b>	<b>MS</b>	<b>MR</b>	<b>S</b>

M=Medium; L=Late; F=Fair; G=Good; VG=Very Good; P=Poor; VP=Very Poor

## 2017 Alberta Seed Guide - Barley Comparison

Variety	Overall Yield % AC Metcalfe	Yield by Test Category % AC Metcalfe				# of Rows	Awn Type	Maturity Rating	Agronomic Characteristics			Disease Resistance							
		Low <60 bu/ac	Med. 60-90 bu/ac	High 90-120 bu/ac	Very High >120 bu/ac				Test Weight (lb/bu)	Kernel Weight (mg)	Height (cm)	Ldg	Loose Smut	Other Smut	Root Rot	Scald	Spot Form Net Blotch	Net Form Net Blotch	FHB
AC Metcalfe	100	100	100	100	100	2	R	M	51	46	79	F	R	I	I	S	I	S	I
Chigwell	104	XX	98	106	111+	6	S	M	49	41	76	G	MS	MR	MS	MR	MR	I	S
Trochu	107+	101	102	109+	112+	6	S	M	49	41	78	G	MS	MR	MR	I	MR	S	I
Vivar	109+	97	105+	109+	115+	6	R	M	49	44	73	VG	I	R	MR	I	MR	R	S
<b>Amisk</b>	<b>105+</b>	<b>XX</b>	<b>105</b>	<b>104</b>	<b>108+</b>	<b>6</b>	<b>SS</b>	<b>M</b>	<b>49</b>	<b>46</b>	<b>69</b>	<b>VG</b>	<b>S</b>	<b>MS</b>	<b>MS</b>	<b>I</b>	<b>MR</b>	<b>I</b>	<b>S</b>

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

For more information, call 1-800-665-7333 or visit [www.secan.com](http://www.secan.com)