

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
- 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 exceed 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:

Dr. Joseph Nyachiro and Dr. Jim Helm
Field Crop Development Centre
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/ha)	% 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
Amisk	101	55	97	75.1	2.1	40.8	60.4	87.0

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
Amisk	15700	107	11.4	29.6	46.0	17.3	3.9	48.9

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 Advantage (6R)	30	107	13.2	1	+15	0	S	VG	MR	I	---	MS	I	I	I	S
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
CDC Austenson (2R)	44	114	12.2	1	0	+0.5	R	G	S	R	I	MS	R	MR	I	I
Amisk (6R)	30	116	12.6	1	0	-2.3	SS	VG	S	MS	MS	I	MR	MR	MR	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	Tolerance To 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 Advantage	6	S	104	99	VL	VG	MS	I	I	I	MR	I	---	I	S
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
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
Amisk	6	SS	97	98	M	G	I	MR	MR	I	S	MS	MS	MR	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	I
AB Advantage	6	S	114	XX	115	108	119	+2	51	49	106	G	MR	I	I	I	MS	I	S
AB Tofield	6	S	115	XX	109	112	118	+2	51	45	95	G	XX	MR	I	I	MS	I	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	115	-1	49	44	73	VG	I	R	I	MR	R	MR	S
Amisk	6	SS	105	XX	105	104	108	+1	49	46	69	VG	S	MS	I	MR	I	MR	S

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