



AMISK

Six-row general purpose barley

- More plump seed than both the two-row and six-row checks
- Semi-dwarf with decreased lodging
- High forage yields with semi-smooth awns

Strengths of Amisk

- Grain plumps are 16% higher than AC Ranger and 14% higher than Vivar.
- Semi-dwarf, with lodging resistance exceeding Vivar and AC Ranger.
- Resistant to stem rust and Septoria; moderately resistant to spot-form net blotch, intermediate resistance to net-form net blotch, scald, spot blotch, and common root rot.
- Forage yields are 107% higher than Vivar.
- Quality traits are equal to or exceed that of Vivar.
- Semi-smooth awns.

Amisk was developed by Western Crop Innovations and is available through [SeCan](#).

Table 1. Average grain yield (kg/ha) of Amisk by soil zone in the 2011 and 2012 Western Cooperative Six-Row Barley Registration Trials.

Entry	Eastern Black	Brown	Western Black	Grey Wooded	Overall	% AC Ranger	% CDC Mayfair
Amisk	5354	5385	7545	5050	5696	98	104
AC Ranger	5124	5921	7128	5707	5815	100	106
Vivar	5075	5428	7632	5645	5757	99	105
CDC Mayfair	5155	4924	7088	5132	5477	94	100
Celebration	5058	5052	6961	5232	5460	94	100
Mean	5173	5184	7352	6153	5666		
Station Years	12	8	6	4	30		

Table 2. Agronomic traits of Amisk averaged over the 2011 and 2012 Western Cooperative Six-Row Barley Registration Trials.

Entry	Heading days	Maturity days	Height cm	Lodging 1-9	Test Wt kg/hL	Kernel Wt mg	Plump >6/64 %
Amisk	55.0	97.0	75.1	2.1	60.4	40.8	87.0
AC Ranger	55.9	98.2	79.5	5.0	61.0	40.6	72.5
Vivar	55.8	97.0	75.5	3.2	60.9	40.5	74.9
CDC Mayfair	54.0	95.5	82.1	3.6	61.4	38.4	84.6
Celebration	54.3	95.0	81.0	3.6	63.1	36.7	83.4
Mean	54.5	96.4	80.0	3.5	61.0	39.3	79.9
LSD _{0.05}	2.6	0.9	1.6	1.2	0.8	1.0	3.1
Station Years	30	23	33	9	28	27	23

Lodging score 1-9, 9 being up to 100% lodged. LSD - least significant difference, the value by which means must differ in order to be considered significant.

Table 3. Forage data for Amisk averaged over the 2011 and 2012 FCDC silage trials.

Entry	DM Yield kg/ha	Vivar %	Crude Protein %	NDF %	NDF 30 %	ADF %	Starch %	Lignin %
Amisk	15700	107	11.4	46.0	48.9	29.6	17.3	3.9
AC Ranger	15362	104	10.6	46.9	49.5	29.5	17.2	4.0
Chigwell	14711	100	11.9	49.8	47.9	31.3	16.5	4.3
Vivar	14705	100	10.9	48.5	47.0	29.6	17.7	4.3
Mean	15006		11.5	47.2	48.2	29.7	17.0	4.1
Standard Error	235		0.2	0.7	0.3	0.5	0.5	0.1

NDF - neutral detergent fiber; NDF 30 – digestible NDF after 30 hours of incubation in rumen fluid; ADF - acid detergent fiber.

Table 4. Overall disease ratings of Amisk averaged over the 2011 and 2012 Western Cooperative Six-row Barley Registration Trials.

Entry	Net Blotch		Scald	Smut		FHB	Root Rot
	Net Form	Spot Form		Loose	Surface		
Amisk	F	G	F	VP	P	VP	P
AC Ranger	F	G	P	P	F	VP	G
Vivar	F	G	F	F	VG	VP	G
CDC Mayfair	P	G	VP	VP	G	P	F

VG-very good, G-good, F-fair, P-poor and VP-very poor. FHB – fusarium head blight.