



## AB DRAM

### Two-row malting barley

- Good malting quality with moderate enzymes and good modification
- Non-glycosidic nitrile (non-GN) suitable for all malt distillation
- Combines earliness with CDC Copeland level yield

### Strengths of AB Dram

- Grain yield similar to the malt check CDC Copeland.
- Maturity 1.3 days less than CDC Copeland, with heading date similar to the checks.
- Slightly shorter than the malting checks, with lodging scores less than AC Metcalfe and CDC Copeland, and in 2015 equal to AAC Synergy.
- Percent plumps are greater than the checks, and percent thins are less than the checks.
- Resistant to the surface-borne smuts, and moderately resistant to the spot-form of net blotch. Intermediate resistance to scald and FHB with DON levels similar or lower than the best check, AC Metcalfe.
- Good malting traits with fine extract greater than or equal to checks, percent plump greater than AC Metcalfe and CDC Copeland and equal to AAC Synergy, peeling less than checks, malt peeled & broken less than checks, friability greater than or equal to checks, viscosity equal to checks, and FAN equal to checks. Kolbach Index is less than checks, which is desirable for some end-uses.
- Identified as a non-glycoside nitrile (Non-GN) producing line. GN can produce carcinogenic compound during fermentation, which can increase during distillation to undesirable levels.

AB Dram was developed by Western Crop Innovations and is available through [SeedNet Inc.](#)

**Table 1.** Mean grain yield of AB Dram by soil zone in the 2014 and 2015 Western Cooperative Two-Row Barley Registration Trials.

Entry	Black <sup>1</sup>		Black & Grey <sup>2</sup>		Brown <sup>3</sup>		Overall	
	kg/ha	% AC Metcalfe	kg/ha	% AC Metcalfe	kg/ha	% AC Metcalfe	kg/ha	% AC Metcalfe
CDC Copeland	5980	103	6458	105	5204	101	5829	103
Xena	6292	109	6832	111	5863	114	6306	112
AC Metcalfe	5798	100	6163	100	5132	100	5652	100
AB Dram	6124	106	6170	100	5394	105	5840	103
Station Years	8		12		14		34	

<sup>1</sup>Manitoba and Saskatchewan <sup>2</sup>Alberta and BC <sup>3</sup>Alberta and Saskatchewan

**Table 2.** Agronomic traits of AB Dram averaged over the 2014 and 2015 Western Cooperative Two-Row Barley Registration Trials.

Entry	Heading days	Maturity days	Height cm	Lodging 1-9	Test Wt kg/hL	Kernel Wt mg	Plump >6/64 %	Thins <5/64 %
CDC Copeland	56.9	90.5	80.9	5.7	63.8	46.6	90.8	4.9
Xena	55.0	90.4	76.7	5.1	66.3	49.2	91.5	5.2
AC Metcalfe	55.2	90.6	78.8	5.6	65.6	46.2	90.9	4.2
AB Dram	56.5	89.2	77.6	5.1	65.6	46.8	91.7	4.2
Station Years	27	27	32	10	33	31	27	11

Lodging score 1-9, 9 being up to 100% lodged

**Table 3.** Malting quality of AB Dram averaged over the 2015 and 2016 Barley Collaborative Trials.

Entry	Malt					Wort				
	Friability %	P & B %	Protein %	DP °L	$\alpha$ -Amyl. D.U.	F. Ext. %	Sol. P. %	$\beta$ -Glu. ppm	Visc. cP	FAN mg/L
AC Metcalfe	81.5	5.1	11.4	168	87.8	81.7	5.3	105	1.44	228
CDC Copeland	85.9	2.6	11.1	150	72.0	81.6	5.3	97	1.43	208
AAC Synergy	88.9	2.9	10.9	144	76.1	82.3	5.4	86	1.42	226
AB Dram	84.6	2.7	11.9	158	80.2	81.5	5.2	118	1.44	216

P & B - peeled and broken; DP - diastatic power; Amyl. - Amylase; F. Ext. - fine extract; Sol. P. - soluble protein; Glu. - glucan; Visc. - Viscosity; FAN - free amino nitrogen.

**Table 4.** Overall disease ratings of AB Dram from the 2015 Western Cooperative Two-Row Barley Registration Trials.

Entry	Net Blotch		Scald	Spot Blotch	Smut		Stem Rust	FHB
	Net Form	Spot Form			Loose	Surface		
CDC Copeland	I	I	S	S	MR	MR	MR	I
Xena	MS	I	S	S	S	I	I	MR
AC Metcalfe	MS	I	S	I	R	I	I	I
AAC Synergy	MR	MR	S	MR-I	S	MR-I	I	I
CDC Austenson	I	MR-I	I	MR-I	MR	MR	MS	MS
AB Dram	MS	MR	I	MS	MR	R	S	I

R - resistant, MR - Moderately resistant, I - intermediate resistance, MS - moderately susceptible, S - susceptible. FHB - fusarium head blight.