

Technical Bulletin

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AAC Marchwell VB Canada's first midge tolerant durum wheat

Description:

AAC Marchwell VB is Canada's first durum variety with the SM1 gene for tolerance to the orange wheat blossom midge. AAC Raymore will be the refuge variety providing additional wheat stem sawfly resistance to the blend. Agronomically, AAC Marchwell VB is very similar to AC[®] Strongfield with similar height, lodging, yield, disease tolerance and quality characteristics.

Parentage: A0039&DB764D18/ AC[®] Strongfield

Strengths:

- SM1 gene for tolerance to the orange wheat blossom midge
- 1.0% higher grain yield than AC[®] Strongfield
- Low grain cadmium content
- Protein content similar to AC[®] Strongfield
- High desirable yellow pigment
- Good test weight
- Resistant to loose smut

- Leaf, Stem and Stripe Rust resistant

Neutral Traits:

- Height = AC[®] Strongfield
- Lodging slightly weaker than AC[®] Strongfield
- Maturity is 0.5 day later than AC[®] Strongfield

Weaknesses:

- Susceptible to FHB

Breeder:

Dr. A.K. Singh
Semiarid Prairie Agricultural Research Centre
Agriculture and Agri-Food Canada
Swift Current, SK

PBR 91 Protected

2009-2012 Western Canadian Durum Cooperative Trials - Registration Data

Variety	Yield (% of AC [®] Strongfield)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Grain Protein (%)	Kernel Weight (mg)	Gluten Strength Index %
AC [®] Strongfield	100	108	2.8	88	14.1	42.1	59
AC Avonlea	96	108	2.5	90	14.1	41.3	6
AC Navigator	92	109	2.2	79	13.4	44.0	58
Commander	100	108	2.0	76	13.4	44.2	90
AAC Marchwell VB	101	108	3.1	88	13.9	39.4	48

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For more information, call 1-800-665-7333 or visit www.secan.com

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2017 Seed Manitoba – Durum Wheat Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Maturity +/- 101 days	Height +/- 89cm	Spike Awned	Resistance to:								
							Lodging	Sprouting	Loose Smut	Bunt	Leaf Spot	Stem Rust	Leaf Rust	Stripe Rust	FHB
AC® Strongfield	26	60	14.7	0	0	Y	G	F	S	MR	I	R	R	MR	S
AAC Cabri	5	61	14.8	1	+3	Y	G	P	MR	R	I	MR	R	R	MS
AAC Durafield	8	65	14.5	0	0	Y	G	F	S	R	I	R	R	MR	S
AAC Raymore	10	60	14.7	0	0	Y	G	F	MS	MR	I	R	R	MR	S
AAC Spitfire	7	61	14.8	0	-2	Y	VG	P	MS	R	MS	R	R	R	S
AC® Eurostar	23	64	14.2	2	+4	Y	F	F	S	R	I	R	R	R	MS
AAC Marchwell VB	10	61	14.6	0	0	Y	G	P	MR	R	MS	R	R	R	MS

Lodging Ratings: F=Fair; G=Good; VG=Very Good

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

2017 Varieties of Grain Crops for Saskatchewan - Canada Western Amber Durum

Variety	Area 1&2	Area 3&4	Irrigation	Protein	Resistance to:									Maturity (days)	Awns	Seed Weight (mg)	Volume Weight (Kg/hl)	Height (cm)
					Lodging	Sprouting	Stem Rust	Leaf Rust	Stripe Rust	Loose Smut	Bunt	Leaf Spot	FHB					
AC® Strongfield	100	100	100	14.4	P	F	R	R	MR	S	MR	I	S	105	Y	42.1	79.2	89
AAC Cabri	107	102	104	-0.3	P	F	MR	R	R	MR	R	I	MS	+1	Y	-0.1	+0.8	+3
AAC Durafield	102	105	112	-0.2	P	F	R	R	MR	S	R	I	S	0	Y	-0.5	+0.2	0
AAC Raymore	95	99	93	+0.2	P	F	R	R	MR	MS	MR	I	S	-1	Y	+1.8	-0.1	0
AAC Spitfire	109	112	111	-0.6	G	P	R	R	R	MS	R	MS	S	0	Y	+0.8	-0.4	-2
AC® Eurostar	99	104	102	-0.5	P	F	R	R	R	S	R	I	MS	+2	Y	+0.6	+0.8	+4
Transcend	102	105	93	-0.3	F	G	R	R	R	S	R	I	MS	+2	Y	-1.4	0.0	+8
AAC Marchwell VB	99	104	90	-0.1	P	P	R	R	R	MR	R	MS	MS	0	Y	-2.7	-0.6	0

F=Fair; G=Good; VG=Very Good; P=Poor; VP=Very Poor;

2017 Alberta Seed Guide - Canada Western Amber Durum

Variety	Overall Yield		Test Yield Category			Maturity Rating	Protein %	Test Weight (lb/bu)	Kernel Weight (mg)	Height (cm)	Lodging	Sprouting	Disease Tolerance				
	All Sites	Station years of testing	Low <45 bu/ac	Medium 45-75 bu/ac	High >75 bu/ac								Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
Yield as % of AC® Strongfield																	
AC® Strongfield	100	128	100	100	100	M	14.1	62	46	84	F	F	S	I	MR	MS	S
AAC Cabri	94-	25	98	93-	XX	M	0.1	62	45	86	G	P	MR	R	R	I	MS
AAC Durafield	99	22	XX	99	XX	M	-1	64	46	76	F	F	S	R	MR	I	MS
AAC Raymore	97	34	99	98	94	M	0.8	62	47	82	F	F	MS	MR	MR	I	S
AAC Spitfire	97	25	100	96	XX	M	-0.4	61	46	82	G	P	MS	R	R	MS	S
AC® Eurostar	102	47	100	105+	99	L	XX	64	47	88	G	F	MS	MR	R	I	MS
Transcend	102	35	102	103	100	M	XX	62	47	89	F	F	S	R	R	I	MS
AAC Marchwell VB	99	32	107	96	98	M	-0.1	63	46	83	F	F	MR	R	R	MS	MS

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

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