

Technical Bulletin

Genes that fit *your* farm.



AAC Stronghold (Solid Stem) Canada Western Amber Durum



Progress Through Research
Le progrès grâce à la recherche

Description:

AAC Stronghold is solid stem Canada Western Amber Durum with excellent yield potential and short strong straw. The solid stem of AAC Stronghold provides excellent wheat stem sawfly tolerance. AAC Stronghold has a good overall disease package, high test weight, good gluten strength, good pasta colour and low grain Cadmium. AAC Stronghold should be a good fit in all durum growing areas of Western Canada.

Parentage: DT805/DT795

Strengths:

- Very good straw strength, better than all the checks
- 2cm shorter than AC[®] Strongfield
- 5% higher grain yield than AC[®] Strongfield
- Solid stem for excellent wheat stem sawfly tolerance
- Resistant to leaf and stem rust and loose smut rust
- Low grain cadmium
- Good rating to sprouting tolerance

Neutral Traits:

- -0.4% Protein compared to AC[®] Strongfield
- Moderately resistant to stripe rust
- Moderately susceptible to FHB

Weaknesses:

- Approximately 2 day later maturing than AC[®] Strongfield

Breeder:

Dr. Y. Ruan
Semiarid Prairie Agricultural Research Centre
Agriculture and Agri-Food Canada
Swift Current, SK

PBR 91 Granted

2013-2015 Western Canadian Durum Cooperative Trials - Registration Data

Variety	Yield (% of AC [®] Strongfield)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Grain Protein (%)	TKW (g)	Gluten Strength Index %
AC [®] Strongfield	100	101	3.1	89.5	13.9	41.5	80.5
AAC Cabri	104	103	3.0	93.0	13.6	40.7	79.5
AC Navigator	92	102	2.2	77.2	13.4	44.3	88.5
AAC Stronghold	105	103	1.4	87.4	13.5	44.0	68.5

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

2019 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	62	14.4	0	0	Y	G	F	S	MR	I	R	R	MR	S
AAC Cabri	9	65	14.1	+1	+3	Y	G	F	MR	R	I	MR	R	R	MS
AAC Marchwell VB	14	63	14.4	0	0	Y	G	P	MR	R	MS	R	R	R	MS
AAC Raymore	14	62	14.4	0	0	Y	G	F	MS	MR	I	R	R	MR	S
AAC Spitfire	11	65	14.3	0	-2	Y	VG	P	MS	R	MS	R	R	R	S
AC® Eurostar	23	67	13.9	+2	+4	Y	F	F	S	R	I	R	R	R	MS
AAC Stronghold	4	64	14.0	+1	-2	Y	VG	G	R	I	I	R	R	MR	MS

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

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

2019 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	R	MR	I	S	102	Y	43.3	79.7	89
AAC Cabri	105	104	103	-0.3	P	F	MR	R	R	MR	R	I	MS	+1	Y	-0.8	+0.8	+3
AAC Marchwell VB	99	104	93	-0.1	P	P	R	R	R	MR	R	MS	MS	0	Y	-2.7	-0.6	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	108	110	111	-0.4	G	F	R	R	R	MS	R	MS	S	0	Y	+0.3	-0.4	-1
AC® Eurostar	100	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 Stronghold	102	102	114	-0.2	VG	G	R	R	MR	R	I	I	MS	+1	Y	+1.7	+0.8	-2

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

2019 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 45-70 bu/ac	High >70 bu/ac								Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
Yield as % of AC® Strongfield																		
AC® Strongfield	100		100	100	100	M	14.3	63	45	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 Marchwell VB	99	32	107	96	98	M	-0.1	63	46	83	F	F	MR	R	R	MS	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	
Transcend	100	50	100	102	99	M	0.8	63	45	87	F	F	S	R	R	I	MS	
AAC Stronghold	99	13	XX	XX	102	L	-0.3	62	47	79	VG	G	R	I	MR	I	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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