Technical Bulletin

Genes that fit your farm.



AAC Stronghold (Solid Stem) Canada Western Amber Durum



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 Protected



Hollow Stem vs Solid Stem

2013-2015 Western Canadian Durum Cooperative Trials - Registration Data

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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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2023 Varieties of Grain Crops for Saskatchewan - Canada Western Amber Durum

	Years		ield % Strongf			Resistance to:											Rel.	Seed	Volume	
Variety	Tested		Area 3&4	_	Protein		Sprouting	Stem Rust	Leaf Rust	Stripe Rust	Loose Smut	Bunt	Leaf Spot	FHB	Head Awns	Solid- ness	Maturity (days)	Weight (mg)	Weight (Kg/hl	Height (cm)
AC® Strongfield	6	100	100	100	14.4	Р	F	R	R	MR	R	MR	Ī	S	Υ	Н	102	43	79.7	88
AAC Antler	1	109	108		-0.2	F		R	R	R		R		MS ⁶	Υ	Н	+1	-2.0	+0.8	+2
AAC Grainland	5	105	108	104	-0.3	F	G	MR	R	R	R	R	MS	MS	Υ	S	+1	-0.5	-0.6	+1
AAC Spitfire	5	108	110	111	-0.4	G	F	R	R	R	MS	R	MS	S	Υ	Н	0	0.0	-0.1	-2
CDC Defy	4	112	112	113	-0.9	G	F	MR	R	ı		R		MS ⁶	Υ	Н	0	-3.2	+1.3	+4
CDC Vantta	2	108	96		-0.8	G	G	_	R	R		R		MS	Υ	Н	+3	-1.1	+0.9	-8
Transcend	5	102	105	93	-0.2	F	G	R	R	R	S	R	_	MS ⁶	Υ	Н	+1	-1.1	+0.1	+7
AAC Stronghold	5	101	100	112	-0.3	VG	G	R	R	MR	R	ı	ı	MS	Υ	S	+2	+0.8	+0.6	-3

F=Fair; G=Good; VG=Very Good; P=Poor; VP=Very Poor; Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible Stem Solidness: H = Hollow, SS = semi-solid, S = solid; MS⁶ = these varieties generally express lower Fusarium Head Blight symptoms compared to other MS rated cultivars

2023 Alberta Seed Guide - Canada Western Amber Durum

	Most	years of		Yield as % of AC® Strongfield		BA a touritou					Resistance to:		Disease Toleran		ance:
Variety	Recent Year of Testing			Low <77 bu/ac	High >77 bu/ac	Maturity Rating (days +/- AC® Strongfield)	Protein %	Test Weight (lb/bu)	Kernel Weight (mg)	Height (cm)	Lodging	Sprouting	Bunt	Stripe Rust	FHB
AC® Strongfield (b		68	54	100	,	•									
AC® Strongfield	2022	177	100	100	100	107	14.5	62	44	86	Р	F	MR	MR	S
AAC Grainland	2020	11	97	97	XX	+1	-0.5	62	43	86	F	G	R	R	MS
AAC Spitfire	2016	21	98	98	XX	0	-0.6	61	46	83	G	F	R	R	S
CDC Defy	2021	18	105	106	102	0	-1.0	63	42	90	G	F	R	I	MS
CDC Vantta	2022	9	102	XX	XX	+4	-0.7	62	42	76	VG	G	R	R	MS
Transcend	2022	49	100	101	98	+2	+0.6	62	42	93	F	G	R	R	MS
AAC Stronghold	2022	26	104	101	108	+1	-0.4	63	44	84	VG	G	I	MR	MS

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