

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

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 Protected



Hollow Stem vs Solid Stem

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

AC[®] is an official mark used under license from Agriculture & Agri-Food Canada

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

2022 Varieties of Grain Crops for Saskatchewan - Canada Western Amber Durum

Variety	Years Tested	Yield % AC® Strongfield			Protein	Resistance to:										Head Awns	Stem Solid- ness	Rel. Maturity (days)	Seed Weight (mg)	Volume Weight (Kg/hl)	Height (cm)
		Area 1&2	Area 3&4	Irrig- ation		Lodging	Sprouting	Stem Rust	Leaf Rust	Stripe Rust	Loose Smut	Bunt	Leaf Spot	FHB							
AC® Strongfield	6	100	100	100	14.4	P	F	R	R	MR	R	MR	I	S	Y	H	102	43.3	79.5	89	
AAC Grainland	4	105	108	103	-0.3	F	G	MR	R	R	R	R	MS	MS	Y	S	+1	-0.5	-0.6	0	
AAC Spitfire	5	108	110	111	-0.4	G	F	R	R	R	MS	R	MS	S	Y	H	0	-0.1	-0.2	-2	
CDC Defy	3	112	110	---	-0.9	G	F	MR	R	I	---	R	---	MS*	Y	H	0	-3.6	+1.3	+4	
Transcend	5	102	105	93	-0.2	F	G	R	R	R	S	R	I	MS*	Y	H	+1	-1.2	0.0	+6	
AC Stronghold	5	101	100	112	-0.3	VG	G	R	R	MR	R	I	I	MS	Y	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

2022 Alberta Seed Guide - Canada Western Amber Durum

Variety	Overall Station years of testing	Overall Yield	Yield as % of AC® Strongfield		Maturity Rating (days +/- AC® Strongfield)	Protein %	Test Weight (lb/bu)	Kernel Weight (mg)	Height (cm)	Resistance to:		Disease Tolerance:		
			Low <77 bu/ac	High >77 bu/ac						Lodging	Sprouting	Bunt	Stripe Rust	FHB
AC® Strongfield (bu/ac)		69	55	102										
AC® Strongfield	140	100	100	100	107	14.5	62	44	86	P	F	MR	MR	S
AAC Grainland	11	97	97	XX	+1	-0.5	62	43	86	F	G	R	R	MS
AAC Spitfire	21	98	98	XX	0	-0.6	61	46	83	G	F	R	R	S
CDC Defy	11	103	104	XX	0	-0.6	63	42	90	G	F	R	I	MS
Transcend	49	100	101	98	+2	+0.6	62	42	93	F	G	R	R	MS
AC Stronghold	20	101	99	105	+2	-0.2	63	44	84	VG	G	I	MR	MS

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