

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

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

2021 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	12	65	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 Grainland	2	62	14.1	+1	+1	Y	G	---	R	R	MS	MR	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	F	MS	R	MS	R	R	R	S
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

2021 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	14.3	P	F	R	R	MR	R	MR	I	S	102	Y	43.3	79.5	89
AAC Cabri	105	103	103	-0.4	P	F	MR	R	R	MR	R	I	MS	+1	Y	-0.6	+0.7	+4
AAC Grainland	105	110	---	-0.3	F	G	MR	R	R	R	R	MS	MS	+1	Y	-0.4	-0.6	+1
AAC Spitfire	108	110	111	-0.4	G	F	R	R	R	MS	R	MS	S	0	Y	-0.1	-0.2	-2
Transcend	102	105	93	-0.3	F	G	R	R	R	S	R	I	MS*	+2	Y	-1.2	0.0	+6
AAC Stronghold	101	100	112	-0.3	VG	G	R	R	MR	R	I	I	MS	+2	Y	+0.8	+0.6	-3

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

2021 Alberta Seed Guide - Canada Western Amber Durum

Variety	Overall Station years of testing	Overall Yield	Yield as % of AC® Strongfield			Maturity Rating (days +/- Strongfield)	Protein %	Test Weight (lb/bu)	Kernel Weight (mg)	Height (cm)	Lodging	Sprouting	Disease Tolerance		
			Low <45 bu/ac	Medium 45-70 bu/ac	High >70 bu/ac								Bunt	Stripe Rust	FHB
AC® Strongfield bu/ac		63	34	59	95										
AC® Strongfield	170	100	100	100	100	107	14.3	63	45	84	F	F	MR	MR	S
AAC Grainland	19	101	104	XX	98	+1	-0.4	62	43	84	F	G	R	R	MS
AAC Raymore	34	97	99	98	94	-1	0.8	62	47	82	F	F	MR	MR	S
AAC Spitfire	25	97	100	96	XX	0	-0.4	61	46	82	G	P	R	R	S
Transcend	62	100	100	102	98	+2	0.5	63	44	88	F	F	R	R	MS
AAC Stronghold	25	100	101	97	102	+2	-0.4	62	46	81	VG	G	I	MR	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