

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

AAC Spitfire Canada Western Amber Durum



Progress Through Research
Le progrès grâce à la recherche

Description:

AAC Spitfire is a conventional Canada Western Amber Durum with excellent grain yield potential, good lodging tolerance and a good disease package. AAC Spitfire is similar to AC[®] Strongfield in maturity, test weight, height and low cadmium content. AAC Spitfire should be a good fit in all durum growing areas of Western Canada.

Parentage: Sachem/AC[®] Strongfield//DT757

Strengths:

- 8% higher grain yield than AC[®] Strongfield
- Improved lodging tolerance compared to AC[®] Strongfield
- Slightly shorter than AC[®] Strongfield
- Resistant to common bunt as well as stem, leaf and stripe rust
- Maturity = AC[®] Strongfield
- Low grain cadmium

Neutral Traits:

- Moderately susceptible to leaf spot and loose smut
- -0.4% Protein compared to AC[®] Strongfield

Weaknesses:

- Susceptible to FHB

Breeder:

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

PBR 91 Protected

2010-2013 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	105.0	2.8	90.8	14.2	41.3	58
AC Avonlea	94	105.3	2.3	92.2	14.3	40.2	17
AC Navigator	90	106.1	2.3	79.6	13.5	43.6	64
AAC Spitfire	108	105.3	1.7	88.9	13.8	42.1	60

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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 Stronghold	4	64	14.0	+1	-2	Y	VG	G	R	I	I	R	R	MR	MS
AAC Spitfire	11	65	14.3	0	-2	Y	VG	F	MS	R	MS	R	R	R	S

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 Stronghold	101	100	112	-0.3	VG	G	R	R	MR	R	I	I	MS	+2	Y	+0.8	+0.6	-3
Transcend	102	105	93	-0.3	F	G	R	R	R	S	R	I	MS*	+2	Y	-1.2	0.0	+6
AAC Spitfire	108	110	111	-0.4	G	F	R	R	R	MS	R	MS	S	0	Y	-0.1	-0.2	-2

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 Stronghold	25	100	101	97	102	+2	-0.4	62	46	81	VG	G	I	MR	MS
Transcend	62	100	100	102	98	+2	0.5	63	44	88	F	F	R	R	MS
AAC Spitfire	25	97	100	96	XX	0	-0.4	61	46	82	G	P	R	R	S

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