

Technical Bulletin

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

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2018 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	61	14.5	0	0	Y	G	F	S	MR	I	R	R	MR	S
AAC Cabri	7	64	14.4	+1	+3	Y	G	F	MR	R	I	MR	R	R	MS
AAC Durafield	8	67	14.3	0	0	Y	G	F	S	R	I	R	R	MR	S
AAC Marchwell VB	12	62	14.5	0	0	Y	G	P	MR	R	MS	R	R	R	MS
AAC Raymore	12	61	14.5	0	0	Y	G	F	MS	MR	I	R	R	MR	S
AAC Stronghold	2	64	14.0	+1	-2	Y	VG	---	R	I	I	R	R	MR	MS
AC® Eurostar	23	66	14.0	+2	+4	Y	F	F	S	R	I	R	R	R	MS
AAC Spitfire	9	63	14.4	0	-2	Y	VG	P	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

2018 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	S	MR	I	S	101	Y	39.8	77.5	89
AAC Cabri	105	104	103	-0.3	P	F	MR	R	R	MR	R	I	MS	+1	Y	-0.1	+0.8	+3
AAC Durafield	102	104	110	-0.2	P	F	R	R	MR	S	R	I	S	0	Y	-0.5	+0.2	0
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 Stronghold	104	104	---	-0.4	VG	G	R	R	M	R	I	I	MS	+2	Y	+2.5	+0.9	-2
AC® Eurostar	99	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 Spitfire	109	111	111	-0.5	G	F	R	R	R	MS	R	MS	S	0	Y	+0.8	-0.4	-2

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

2018 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 Durafield	99	22	XX	99	XX	M	-1	64	46	76	F	F	S	R	MR	I	S
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
Transcend	101	43	102	103	99	M	XX	63	45	87	F	F	S	R	R	I	MS
AAC Spitfire	97	25	100	96	XX	M	-0.4	61	46	82	G	P	MS	R	R	MS	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

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