

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## AAC Grainland (Solid Stem) Canada Western Amber Durum



Progress Through Research  
Le progrès grâce à la recherche

### Description:

AAC Grainland is a solid stem Canada Western Amber Durum with excellent grain yield potential, fair lodging tolerance and a good disease package. The solid stem of AAC Grainland provides excellent wheat stem sawfly tolerance. AAC Grainland should be a good fit in all dryland durum growing areas of Western Canada. If growing under irrigation then we would suggest the use of a plant growth regulator.

**Parentage:** A0463&AP018/Transcend

### Strengths:

- 10% higher grain yield than AC® Strongfield
- Good sprouting tolerance rating
- Similar height to AC® Strongfield, 1cm taller
- Rated resistant to common bunt, loose smut as well as leaf and stripe rust
- Moderately resistant to stem rust
- Low grain cadmium

### Neutral Traits:

- 1 day later maturity than AC® Strongfield
- -0.2% Protein compared to AC® Strongfield
- Moderately susceptible to FHB and leaf spot

### Weaknesses:

- Fair rating to lodging tolerance, improved compared to 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

### 2015-2017 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	98.6	3.9	86.5	14.2	40.3	72
AC Navigator	93	99.0	3.3	75.8	13.7	42.7	80
Brigade	108	101.4	2.6	94.2	13.4	42.2	92
AAC Cabri	102	100.4	3.9	88.9	14.0	40.1	71
<b>AAC Grainland</b>	<b>110</b>	<b>99.9</b>	<b>3.0</b>	<b>87.8</b>	<b>14.0</b>	<b>40.3</b>	<b>83</b>

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For more information, call 1-800-665-7333 or visit [www.secan.com](http://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/hi)	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 Spitfire	5	108	110	111	-0.4	G	F	R	R	R	MS	R	MS	S	Y	H	0	-0.1	-0.2	-2	
AAC Stronghold	5	101	100	112	-0.3	VG	G	R	R	MR	R	I	I	MS	Y	S	+2	+0.8	+0.6	-3	
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	
<b>AAC Grainland</b>	<b>4</b>	<b>105</b>	<b>108</b>	<b>103</b>	<b>-0.3</b>	<b>F</b>	<b>G</b>	<b>MR</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>MS</b>	<b>MS</b>	<b>Y</b>	<b>S</b>	<b>+1</b>	<b>-0.5</b>	<b>-0.6</b>	<b>0</b>	

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
<b>AC® Strongfield (bu/ac)</b>	<b>69</b>	<b>55</b>	<b>102</b>											
AC® Strongfield	140	100	100	100	107	14.5	62	44	86	P	F	MR	MR	S
AAC Spitfire	21	98	98	XX	0	-0.6	61	46	83	G	F	R	R	S
AAC Stronghold	20	101	99	105	+2	-0.2	63	44	84	VG	G	I	MR	MS
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
<b>AAC Grainland</b>	<b>11</b>	<b>97</b>	<b>97</b>	<b>XX</b>	<b>+1</b>	<b>-0.5</b>	<b>62</b>	<b>43</b>	<b>86</b>	<b>F</b>	<b>G</b>	<b>R</b>	<b>R</b>	<b>MS</b>

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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