

# Technical Bulletin

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**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)

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## 2024 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	14.3	P	F	R	R	MR	R	MR	I	S	Y	H	101	42.9	79.7	87	
AAC Antler	2	108	104	---	0.0	F	F	R	R	R	---	R	---	MS <sup>6</sup>	Y	H	+1	-1.9	+0.9	+2	
AAC Spitfire	5	108	110	111	-0.4	G	F	R	R	R	MS	R	MS	S	Y	H	0	0.0	-0.1	-1	
AAC Stronghold	5	101	100	112	-0.3	VG	G	R	R	MR	R	I	I	MS	Y	S	+2	+0.9	+0.7	-2	
CDC Defy	5	111	111	115	-0.9	G	F	MR	R	I	---	R	---	MS <sup>6</sup>	Y	H	0	-3.0	+1.3	+4	
CDC Vantta	3	109	97	113	-0.8	G	G	I	R	R	---	R	---	MS	Y	H	+3	-0.9	+1.0	-8	
Transcend	5	102	105	93	-0.1	F	G	R	R	R	S	R	I	MS <sup>6</sup>	Y	H	+1	-1.1	+0.1	+7	
<b>AAC Grainland</b>	<b>5</b>	<b>105</b>	<b>108</b>	<b>104</b>	<b>-0.2</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>-0.4</b>	<b>-0.6</b>	<b>+1</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  
Stem Solidness: H = Hollow, SS = semi-solid, S = solid; MS<sup>6</sup> = these varieties generally express lower Fusarium Head Blight symptoms compared to other MS rated cultivars

## 2024 Alberta Seed Guide - Canada Western Amber Durum

Variety	Most Recent Year of Testing	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>68</b>	<b>54</b>	<b>100</b>									
AC® Strongfield	2023	180	100	100	100	107	14.5	62	44	86	F	F	MR	MR	S
AAC Antler	2023	33	102	104	100	+1	+0.2	63	42	87	F	F	R	R	MS
AAC Spitfire	2016	21	98	98	XX	0	-0.6	61	46	83	G	F	R	R	S
AAC Stronghold	2023	29	104	101	108	+1	-0.5	62	45	83	VG	G	I	MR	MS
CDC Defy	2021	18	105	106	102	0	-1.0	63	42	90	G	F	R	I	MS
CDC Vantta	2023	12	101	XX	99	+4	-0.7	62	42	76	VG	G	R	R	MS
Transcend	2022	55	101	102	99	+1	+0.2	62	42	93	F	G	R	R	MS
<b>AAC Grainland</b>	<b>2020</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>

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