

# Technical Bulletin

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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

### 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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## 2020 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	62	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 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
<b>AAC Grainland</b>	<b>2</b>	<b>66</b>	<b>14.1</b>	<b>+1</b>	<b>+1</b>	<b>Y</b>	<b>G</b>	<b>---</b>	<b>R</b>	<b>R</b>	<b>MS</b>	<b>MR</b>	<b>R</b>	<b>R</b>	<b>MS</b>

Lodging Ratings: F=Fair; G=Good; VG=Very Good

Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

## 2020 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	43.0	79.7	89
AAC Cabri	105	104	103	-0.3	P	F	MR	R	R	MR	R	I	MS	+1	Y	-0.8	+0.8	+3
AAC Raymore	95	99	93	+0.2	P	F	R	R	MR	MS	MR	I	S	-1	Y	+1.8	-0.1	0
AAC Spitfire	108	110	111	-0.4	G	F	R	R	R	MS	R	MS	S	0	Y	+0.3	-0.3	-1
AAC Stronghold	102	102	112	-0.2	VG	G	R	R	MR	R	I	I	MS	+2	Y	+0.4	+0.8	-2
Transcend	102	105	93	-0.3	F	G	R	R	R	S	R	I	MS*	+2	Y	-1.4	0.0	+8
<b>AAC Grainland</b>	<b>105</b>	<b>112</b>	<b>---</b>	<b>-0.1</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>+1</b>	<b>Y</b>	<b>0.0</b>	<b>-0.5</b>	<b>+1</b>

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

## 2020 Alberta Seed Guide - Canada Western Amber Durum

Variety	Overall Yield		Test Yield Category			Maturity Rating (days +/- Strongfield)	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	107	14.3	63	45	84	F	F	S	I	MR	MS	S
AAC Raymore	97	34	99	98	94	-1	0.8	62	47	82	F	F	MS	MR	MR	I	S
AAC Spitfire	97	25	100	96	XX	0	-0.4	61	46	82	G	P	MS	R	R	MS	S
AAC Stronghold	101	17	XX	XX	102	+2	-0.6	62	47	81	VG	G	R	I	MR	I	MS
Transcend	100	54	100	102	98	+2	0.5	63	44	88	F	F	S	R	R	I	MS
<b>AAC Grainland</b>	<b>100</b>	<b>11</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>	<b>+1</b>	<b>-0.2</b>	<b>62</b>	<b>43</b>	<b>82</b>	<b>F</b>	<b>G</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>MS</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

For more information, call 1-800-665-7333 or visit [www.secan.com](http://www.secan.com)