

# 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)

## 2025 Varieties of Grain Crops for Saskatchewan - Canada Western Amber Durum

Variety	Years Tested	Yield % AAC Schrader			Protein	Resistance to:										Head Awns	Stem Solidness	Rel. Maturity (days)	Seed Weight (mg)	Volume Weight (Kg/hl)	Height (cm)
		Area 1&2	Area 3&4	Irrigation		Lodging	Sprouting	Stem Rust	Leaf Rust	Stripe Rust	Loose Smut	Bunt	Leaf Spot	FHB							
AAC Schrader	4	100	100	100	14.0	F	F	R	R	R	---	MR	---	I	Y	H	102	41.6	80.2	93	
AAC Spitfire	5	101	102	103	-0.1	G	F	R	R	R	MS	R	MS	S	Y	H	-1	+1.0	-0.6	-6	
AAC Stronghold	5	97	93	104	0.0	VG	G	R	R	MR	R	I	I	MS	Y	S	+1	+1.9	+0.2	-8	
AC® Strongfield	6	93	93	92	+0.3	P	F	R	R	MR	R	MR	I	S	Y	H	-1	+1.0	-0.5	-5	
CDC Defy	5	103	104	102	-0.6	G	F	MR	R	I	---	R	---	MS <sup>6</sup>	Y	H	-1	-2.1	+0.8	-1	
CDC Vantta	4	101	92	99	-0.4	VG	G	I	R	R	---	R	---	MS	Y	H	+2	+0.1	+0.5	-14	
CDC Wiseton	2	97	98	---	+0.3	F	---	R	MR	I	---	R	---	I	Y	H	0	+0.5	-0.7	-2	
Transcend	5	95	98	86	+0.1	F	G	R	R	R	S	R	I	MS <sup>6</sup>	Y	H	0	-0.1	-0.4	+2	
<b>AAC Grainland</b>	<b>5</b>	<b>99</b>	<b>100</b>	<b>93</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>Y</b>	<b>S</b>	<b>0</b>	<b>+0.5</b>	<b>-1.1</b>	<b>-5</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

## 2025 Alberta Seed Guide - Canada Western Amber Durum

Variety	Most Recent Year of Testing	Overall Station years of testing	Overall Yield	Yield as % of AAC Schrader		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>AAC Schrader</b>			<b>77</b>	<b>58</b>	<b>111</b>										
AAC Schrader	2024	131	100	100	100	100	14.5	65	40	88	F	F	MR	R	I
AAC Stronghold	2024	32	94	92	97	-1	-0.5	65	43	81	VG	G	I	MR	MS
AC® Strongfield	2024	124	91	91	91	-1	0.0	64	42	83	P	F	MR	MR	S
CDC Defy	2021	18	95	95	93	0	-1.0	66	40	87	G	F	R	I	MS
CDC Vantta	2023	12	89	XX	88	+2	-0.5	65	40	73	VG	G	R	R	MS
CDC Wiseton	2024	30	94	95	90	0	+0.3	64	42	86	F	XX	R	I	I
Transcend	2022	55	91	92	90	0	+0.3	65	40	90	F	G	R	R	MS
<b>AAC Grainland</b>	<b>2020</b>	<b>11</b>	<b>88</b>	<b>88</b>	<b>XX</b>	<b>0</b>	<b>-0.3</b>	<b>64</b>	<b>39</b>	<b>83</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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