

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## CDC Defy Canada Western Amber Durum



Progress Through Research  
Le progrès grâce à la recherche

### Description:

CDC Defy is a conventional Canada Western Amber Durum with excellent grain yield potential, very good lodging tolerance and best in class FHB resistance. CDC Defy should be a good fit in all dryland durum growing areas of Western Canada.

**Parentage:** CDC Verona/DT563

### Strengths:

- 10% higher grain yield than AC<sup>®</sup> Strongfield
- Low DON accumulation compared to the check cultivars
- Rated MS\* in Saskatchewan to FHB resistance which is improved over most other durum cultivars
- Good lodging tolerance, better than all the check cultivars
- Maturity similar to AC<sup>®</sup> Strongfield
- Rated resistant to common bunt and leaf rust
- Moderately resistant to stem rust

### Neutral Traits:

- Conventional height, +4cm compared to AC<sup>®</sup> Strongfield
- Intermediate resistance to stripe rust

### Weaknesses:

- -0.8% protein compared to AC<sup>®</sup> Strongfield
- Not solid stem for sawfly tolerance

### Breeder:

Dr. C. J. Pozniak  
Crop Development Centre  
University of Saskatchewan  
Saskatoon, SK

### PBR 91 Applied for

### 2016-2018 Western Canadian Durum Cooperative Trials - Registration Data

Variety	Yield (% of AC <sup>®</sup> Strongfield)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Grain Protein (%)	TKW (g)	Gluten Strength Index %
AC <sup>®</sup> Strongfield	100	98	3.1	86	14.4	41.5	69
AC Navigator	97	99	2.8	75	13.8	43.3	73
Brigade	107	100	2.4	93	13.8	42.8	88
AAC Cabri	101	99	3.4	88	14.2	40.6	66
<b>CDC Defy</b>	<b>110</b>	<b>98</b>	<b>2.0</b>	<b>90</b>	<b>13.6</b>	<b>41.7</b>	<b>56</b>

\*AC' is an official mark used under license from Agriculture & Agri-Food Canada

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

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## 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/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	14.4	P	F	R	R	MR	R	MR	I	S	Y	H	102	43.3	79.5	89	
AAC Grainland	4	105	108	103	-0.3	F	G	MR	R	R	R	R	MS	MS	Y	S	+1	-0.5	-0.6	0	
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	
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>CDC Defy</b>	<b>3</b>	<b>112</b>	<b>110</b>	<b>---</b>	<b>-0.9</b>	<b>G</b>	<b>F</b>	<b>MR</b>	<b>R</b>	<b>I</b>	<b>---</b>	<b>R</b>	<b>---</b>	<b>MS*</b>	<b>Y</b>	<b>H</b>	<b>0</b>	<b>-3.6</b>	<b>+1.3</b>	<b>+4</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</b>	<b>(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 Grainland	11	97	97	XX	+1	-0.5	62	43	86	F	G	R	R	MS
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
Transcend	49	100	101	98	+2	+0.6	62	42	93	F	G	R	R	MS
<b>CDC Defy</b>	<b>11</b>	<b>103</b>	<b>104</b>	<b>XX</b>	<b>0</b>	<b>-0.6</b>	<b>63</b>	<b>42</b>	<b>90</b>	<b>G</b>	<b>F</b>	<b>R</b>	<b>I</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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