

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## KWS<sup>®</sup> Alderon Canada Western Special Purpose Wheat

### Description:

**KWS<sup>®</sup> Alderon is a very short, strong-stawed special purpose wheat with exceptionally high grain yield and late maturity. KWS<sup>®</sup> Alderon will be ideally suited to intensive management in the long season growing regions of western Canada.**

**Parentage: (W110 x Belvoir) x Tybalt**

### Strengths:

- Exceptionally high yielding, +128% of AC<sup>®</sup> Carberry
- Excellent lodging resistance
- Very short straw, 77cm
- Large kernels
- Resistant to leaf rust and moderately resistant to stripe rust and stem rust

### Weaknesses:

- 6 days later maturing than AC<sup>®</sup> Carberry
- Lower test weight than check varieties

### Breeder:

KWS, United Kingdom

### 2013-2015 ICMS Private Registration Trials

Variety	Mean (kg/ha)	Yield as % AC Andrew	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/hl)	Kernel Weight (mg/kernel)	Protein %
AC Andrew	5574	100	98	1.3	84	72	34.0	11.4
5700PR	4982	89	94	1.9	82	74	37.2	13.3
Pasteur	5397	97	100	1.2	87	76	36.4	12.2
AC <sup>®</sup> Sadash VB	5405	97	98	1.5	86	74	32.5	11.0
<b>KWS<sup>®</sup> Alderon</b>	<b>5501</b>	<b>99</b>	<b>101</b>	<b>1.0</b>	<b>77</b>	<b>66</b>	<b>34.1</b>	<b>11.9</b>

## 2021 Seed Manitoba - Wheat Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Maturity +/- 99 days	Height +/- 81cm	Spike Awned	Resistance to:									
							Lodging	Sprouting	Loose Smut	Bunt	Leaf Spot	Stem Rust	Leaf Rust	Stripe Rust	FHB	
AAC Awesome VB	33	89	11.4	+4	+10	Y	G	P	I	I	I	R	MR	R	I	
AAC Brandon	74	71	14.3	+2	0	Y	VG	P	MR	S	I	R	R	MR	MR	
AAC Penhold	44	76	13.9	+1	-10	Y	VG	VG	I	R	I	MR	R	MR	MR	
AAC Starbuck VB	33	75	14.6	+1	+1	Y	G	F	MR	S	S	I	MR	MR	MR	
KWS® Sparrow VB	33	81	12.5	+8	0	N	VG	G	---	I	I	MR	R	MR	---	
Pasteur	39	80	12.9	+7	+5	N	VG	G	MS	S	I	MR	R	MR	I	
WPB Whistler	20	81	11.8	+7	+1	---	VG	---	---	I	---	R	R	R	I	
<b>KWS® Alderon</b>	<b>33</b>	<b>79</b>	<b>11.9</b>	<b>+9</b>	<b>-5</b>	<b>---</b>	<b>VG</b>	<b>F</b>	<b>---</b>	<b>MS</b>	<b>I</b>	<b>MR</b>	<b>R</b>	<b>MR</b>	<b>---</b>	

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

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

## 2021 Varieties of Grain Crops for Saskatchewan – Wheat Comparison

Variety	Years Tested	Yield as % of Carberry			Protein	Resistance to:										Relative Maturity (days)	Head Awnedness	Seed Weight (mg)	Test 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						
AC® Carberry	6	100	100	100	14.5	VG	F	MR	R	MR	MR	R	MS	MR	102	Y	35.8	80.3	83	
AAC Awesome VB	5	134	136	---	-3.2	F	P	R	MR	R	I	I	I	I	+1	Y	+5.0	-1.4	+7	
AAC Brandon	6	107	106	---	-0.3	G	P	R	R	MR	MR	S	I	MR	0	Y	+0.4	+0.1	-1	
KWS® Sparrow VB	5	133	135	---	-2.8	VG	G	MR	R	MR	---	I	I	---	+4	N	+0.6	-4.1	0	
Pasteur	5	127	133	---	-2.2	VG	G	MR	R	MR	MS	S	I	I	+2	N	+1.5	-0.9	+5	
WPB Whistler	1	115	133	---	-3.2	VG	---	R	R	R	---	I	---	MS	+3	---	+3.0	-4.4	-4	
<b>KWS® Alderon</b>	<b>5</b>	<b>134</b>	<b>131</b>	<b>---</b>	<b>-3.2</b>	<b>VG</b>	<b>F</b>	<b>MR</b>	<b>R</b>	<b>MR</b>	<b>---</b>	<b>MS</b>	<b>I</b>	<b>MS</b>	<b>+4</b>	<b>N</b>	<b>+0.9</b>	<b>-7.3</b>	<b>-5</b>	

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

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

## 2021 Alberta Seed Guide – Canada Western Special Purpose Wheat

Variety	Station years of testing	Overall Yield	Test Yield Category			Relative Maturity (Days +/- Carberry)	Protein %	Test Weight (lb/bu)	TSW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Disease Tolerance		
			Low < 55 bu/ac	Med 55 - 80 bu/ac	High >80 bu/ac							Lodging	Sprouting	Bunt	Stripe Rust	FHB
			Yield as % of AC® Carberry													
AC® Carberry (bu/ac)		<b>73</b>	<b>40</b>	<b>62</b>	<b>90</b>											
AC® Carberry	82	100	100	100	100	104	14.0	63	40	85	Y	VG	F	R	MR	MR
AAC Awesome VB	41	135	XX	134	139	0	-2.5	62	44	92	Y	G	P	I	R	I
KWS® Sparrow VB	41	135	XX	122	143	+4	-2.6	60	41	85	N	VG	G	I	MR	XX
Pasteur	58	131	115	128	134	+3	-2.0	63	40	87	N	VG	G	S	MR	I
WPB Whistler	28	130	XX	XX	130	+3	-2.6	59	41	79	N	VG	XX	I	R	MS
<b>KWS® Alderon</b>	<b>41</b>	<b>135</b>	<b>XX</b>	<b>122</b>	<b>141</b>	<b>+4</b>	<b>-2.8</b>	<b>58</b>	<b>41</b>	<b>81</b>	<b>N</b>	<b>VG</b>	<b>F</b>	<b>MS</b>	<b>MR</b>	<b>XX</b>

Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

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)