

# Technical Bulletin

Genes that fit *your* farm.



## AAC Wheatland VB Canada Western Red Spring Wheat



Progress Through Research  
Le progrès grâce à la recherche



### Description:

AAC Wheatland VB is a very high yielding semi-dwarf CWRS with excellent lodging tolerance and intermediate resistance to FHB. AAC Wheatland VB is also tolerant to the orange wheat blossom midge. AAC Wheatland VB is well-adapted to the wheat growing regions across the western Canadian Prairies.

Certified seed of AAC Wheatland VB will be sold as a varietal blend made up of 90% AAC Wheatland and 10% AAC Brandon. Blending with the midge susceptible variety AAC Brandon provides a refuge area for non-virulent midge to survive at low levels, thereby extending the useful life of the *Sm1* midge tolerance gene.

Parentage: **BD94B\*D0248/\*2 Carberry**

### Strengths:

- 112% of the grain yield of AC<sup>®</sup> Carberry
- Semi-dwarf with height similar to AC<sup>®</sup> Carberry
- Excellent lodging tolerance, better than AC<sup>®</sup> Carberry
- Good sprouting resistance
- Resistant to stem rust, leaf rust and loose smut
- Moderately resistant to bunt
- Good milling characteristics including high falling number during registration trials

### Neutral Traits:

- Grain protein potential similar to AC<sup>®</sup> Carberry
- Maturity similar to AC<sup>®</sup> Carberry
- Intermediate resistance to FHB and stripe rust

### Weakness:

- Susceptible to leaf spot

### Breeder:

Dr. Richard Cuthbert  
Swift Current Research and Development Centre  
Agriculture and Agri-Food Canada  
Swift Current, SK

**PBR 91 Protected  
PVP Granted**

### 2015-2017 Western Bread Wheat Registration Trials - Registration Data

Variety	Yield (% AC Carberry)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/hl)	Kernel Weight (mg/kernel)	Grain Protein (%)	FHB Resistance Rating
AC <sup>®</sup> Carberry	100	100.2	1.8	82	80.3	34.6	14.6	MR
AC <sup>®</sup> Unity VB	104	96.9	3.4	93	80.4	33.0	14.3	I
AAC Viewfield	109	100.4	1.7	77	81.1	32.6	14.6	I
Glenn	98	100	2.1	88	82.7	33.5	14.6	I
<b>AAC Wheatland VB*</b>	<b>112</b>	<b>100.6</b>	<b>1.7</b>	<b>81</b>	<b>80.8</b>	<b>34.6</b>	<b>14.5</b>	<b>I</b>

\*VB = varietal blend R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

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

## 2024 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	Common Bunt	Leaf Spot	Stem Rust	Leaf Rust	Stripe Rust	FHB
AAC Alida VB	33	73	14.7	2	6	Y	VG	VG	R	I	MS	R	R	MR	MR
AAC Brandon	109	74	14.4	2	0	Y	VG	P	MR	S	I	R	R	MR	MR
AAC Redstar	31	72	14.4	0	6	Y	VG	G	---	MR	---	R	MR	MR	MR
AAC Starbuck VB	36	77	14.6	1	1	Y	G	F	MR	S	S	I	MR	MR	MR
AAC Tisdale	32	72	15.3	1	8	Y	G	F	MR	MR	MS	R	R	S	MR
CDC SKRush	31	76	14.6	2	4	Y	VG	P	---	I	---	MR	R	MR	MR
<b>AAC Wheatland VB</b>	<b>33</b>	<b>77</b>	<b>14.5</b>	<b>1</b>	<b>0</b>	<b>Y</b>	<b>VG</b>	<b>G</b>	<b>R</b>	<b>MR</b>	<b>S</b>	<b>R</b>	<b>R</b>	<b>I</b>	<b>I</b>

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

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

## 2024 Varieties of Grain Crops for Saskatchewan – Wheat Comparison

Variety	Years Tested	Yield as % AAC Brandon		Protein	Resistance to:									Awns	Stem Solidness	Relative Maturity (days)	Seed Weight (mg)	Test Weight (kg/hl)	Height (cm)
		Area 1 & 2	Area 3 & 4		Lodging	Sprouting	Stem Rust	Leaf Rust	Stripe Rust	Loose Smut	Bunt	Leaf Spot	FHB						
AAC Brandon	6	100	100	14.3	G	P	R	R	MR	MR	S	I	MR	Y	H	101	35.9	80.7	81
AAC Alida VB	5	98	98	+0.1	VG	VG	R	R	MR	R	I	MS	MR	Y	H	0	+1.0	+0.2	+7
AAC Redstar	4	92	102	-0.1	F	G	R	MR	MR	---	MR	---	MR	Y	H	-2	-0.5	-1.2	+8
AAC Starbuck VB	5	104	108	-0.2	F	F	I	MR	MR	MR	S	S	MR	Y	H	0	-0.1	+0.4	+2
AAC Tisdale	5	95	98	+0.8	F	P	R	R	S	MR	MR	MS	MR	Y	H	-2	+0.1	-0.6	+8
CDC SKRush	5	99	103	-0.1	G	P	MR	R	MR	---	I	---	MR	Y	H	-1	-3.7	-1.0	+7
Ellerslie	5	93	96	-0.2	VG	F	R	MR	R	---	S	---	I	N	H	-2	-3.5	-2.7	+7
<b>AAC Wheatland VB</b>	<b>5</b>	<b>104</b>	<b>106</b>	<b>-0.2</b>	<b>VG</b>	<b>G</b>	<b>R</b>	<b>R</b>	<b>I</b>	<b>R</b>	<b>MR</b>	<b>S</b>	<b>I</b>	<b>Y</b>	<b>H</b>	<b>0</b>	<b>-0.6</b>	<b>+0.1</b>	<b>+1</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

Stem Solidness: H = Hollow, SS = semi-solid, S = solid

## 2024 Alberta Seed Guide - CWRS Wheat Comparison

Variety	Most Recent Year of Testing	Station years of testing	Overall yield	Yield Category (% AAC Brandon)		Maturity Rating (Days +/- AAC Brandon)	Protein %	Test Weight (lb/bu)	Kernel Weight g/1000	Height (cm)	Awns (Y/N)	Resistance to:		Disease Tolerance:		
				Low <77 bu/ac	High >77 bu/ac							Lodging	Sprouting	Bunt	Stripe Rust	FHB
<b>AAC Brandon (bu/ac)</b>			<b>78</b>	<b>59</b>	<b>96</b>											
AAC Brandon - check	2023	134	100	100	100	104	14.0	63	39	84	Y	G	P	S	MR	MR
AAC Redstar	2022	31	96	92	101	-2	0.0	63	36	90	Y	VG	G	MR	MR	MR
AAC Starbuck VB	2020	36	103	104	102	0	-0.2	63	39	87	Y	F	F	S	MR	MR
AAC Tisdale	2017	37	94	94	94	-1	+0.6	63	42	93	Y	F	F	MR	S	MR
CDC SKRush	2022	31	100	97	104	-1	-0.1	63	33	93	Y	F	P	I	MR	MR
Ellerslie	2021	30	99	96	103	-1	-0.2	61	35	90	N	VG	F	S	R	I
Parata	2019	37	87	86	88	-4	+0.2	63	39	94	Y	F	F	S	MR	I
<b>AAC Wheatland VB</b>	<b>2020</b>	<b>36</b>	<b>104</b>	<b>104</b>	<b>104</b>	<b>0</b>	<b>-0.5</b>	<b>63</b>	<b>40</b>	<b>86</b>	<b>Y</b>	<b>VG</b>	<b>G</b>	<b>MR</b>	<b>I</b>	<b>I</b>

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

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