

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[®] Carberry
- Semi-dwarf with height similar to AC[®] Carberry
- Excellent lodging tolerance, better than AC[®] 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[®] Carberry
- Maturity similar to AC[®] 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

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 [®] Carberry	100	100.2	1.8	82	80.3	34.6	14.6	MR
AC [®] 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
AAC Wheatland VB*	112	100.6	1.7	81	80.8	34.6	14.5	I

*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

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
AC® Carberry	137	68	14.5	+2	0	Y	VG	F	MR	R	MS	MR	R	MR	MR
AAC Alida VB	33	71	14.6	2	6	Y	VG	VG	R	I	MS	R	R	MR	MR
AAC Brandon	74	71	14.3	2	0	Y	VG	P	MR	S	I	R	R	MR	MR
AAC Starbuck VB	33	75	14.6	1	1	Y	G	F	MR	S	S	I	MR	MR	MR
AAC Tisdale	32	68	15.2	1	8	Y	G	F	MR	MR	MS	R	R	S	MR
AAC Warman VB	33	70	14.5	0	12	Y	G	F	MR	S	I	R	R	MS	MR
Ellerslie	20	65	14.7	0	5	N	VG	G	---	S	---	R	MR	MR	I
Parata	33	68	14.8	-2	13	Y	G	F	MR	S	I	R	MR	MR	I
AAC Wheatland VB	33	75	14.4	1	0	Y	VG	G	R	MR	S	R	R	I	I

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 Awedness	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 Alida VB	3	106	107	---	-0.2	VG	VG	R	R	MR	R	I	MS	MR	-1	Y	+1.6	+0.3	+6
AAC Brandon	5	107	106	---	-0.3	G	P	R	R	MR	MR	S	I	MR	0	Y	+0.4	+0.1	-1
AAC Starbuck VB	3	113	118	---	-0.5	F	F	I	MR	MR	MR	S	S	MR	0	Y	+0.3	+0.5	+2
AAC Tisdale	5	102	105	---	+0.6	F	F	R	R	S	MR	MR	MS	MR	-2	Y	+0.7	-0.4	+8
AAC Warman VB	3	102	108	---	-0.2	P	F	R	R	MS	MR	S	I	MR	-2	Y	-1.4	+0.2	+13
Ellerslie	2	104	105	---	-0.1	VG	G	R	MR	R	---	S	---	I	-3	N	-1.9	-2.0	+7
Parata	4	98	103	---	+0.2	F	F	R	MR	MR	MR	S	I	I	-3	Y	-2.1	-0.1	+9
AAC Wheatland VB	3	112	114	---	-0.5	VG	G	R	R	I	R	MR	S	I	-1	Y	-0.2	0.0	+2

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

2021 Alberta Seed Guide - CWRS Wheat Comparison

Variety	Overall Yield		Test Yield Category			Maturity Rating (Days +/- Carberry)	Protein %	Test Weight (lb/bu)	Kernel Weight g/1000	Height (cm)	Awns (Y/N)	Resistance to:			Disease Resistance:		
	Station years of testing	Overall yield	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		68	44	65	94												
AC® Carberry	131	100	100	100	100	104	14.0	63	39	85	Y	VG	F	R	MR	MR	
AAC Alida VB	45	101	98	103	99	0	-0.2	63	41	91	Y	G	VG	I	MR	MR	
AAC Brandon	40	105	XX	103	107	0	-0.3	63	41	85	Y	G	P	S	MR	MR	
AAC Starbuck VB	36	110	108	108	111	0	-0.2	63	39	87	Y	G	F	S	MR	MR	
AAC Tisdale	45	101	100	101	102	-1	+0.6	63	42	93	Y	F	F	MR	S	MR	
AAC Warman VB	36	101	104	97	102	-1	-0.4	63	38	99	Y	G	F	S	MS	MR	
Ellerslie	24	104	XX	108	108	0	-0.3	62	36	94	N	VG	G	S	R	I	
Parata	45	94	90	94	96	-4	+0.2	63	39	94	Y	F	F	S	MR	I	
AAC Wheatland VB	36	111	110	109	113	0	-0.5	63	40	86	Y	VG	G	MR	I	I	

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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