

Technical Bulletin

Genes that fit *your* farm.



AAC Spike Canada Western Red Spring Wheat



Progress Through Research
Le progrès grâce à la recherche

Description:

AAC Spike is a VERY short, strong straw CWRS with an impressive disease resistance package that should make it ideally suited to high input wheat production on the prairies.

Parentage: AAC Viewfield / AAC Magnet

Strengths:

- 7 cm shorter than AAC Brandon
- Very good lodging tolerance
- 2 days earlier maturity than AAC Brandon
- Resistant rating to stripe rust, stem rust and leaf rust
- Moderately resistant to FHB and common bunt
- High falling # would indicate better sprouting tolerance than AAC Brandon

Neutral Traits:

- 99% yield of AAC Brandon, 105% of AC[®] Carberry
- Smaller kernel than AAC Brandon, 35.6g vs 38.2g

Weaknesses:

- 0.7% lower protein than AAC Brandon

Breeder:

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PBR 91 pending

2020-2022 Parkland Wheat Cooperative Trials - Registration Data

Variety	Yield (% of Carberry)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/kl)	Kernel Weight (mg/kernel)	Grain Protein (%)	Falling Number
AAC Brandon	106.2	96	2.4	78.2	81.8	38.2	14.6	366
AC [®] Carberry	100	96.5	1.6	78.9	81.7	37.5	14.5	384
Glenn	98.3	95.7	1.7	85.1	83.3	36.3	14.7	356
Parata	97.8	93.1	2.1	85.8	81.1	35.2	14.9	390
AAC Spike (PT4002)	105.3	94.5	1.4	71.1	81.8	35.6	13.9	409
site years of data	34	31	11	34	36	34	33	

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2025 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	122	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	37	77	14.7	1	1	Y	G	F	MR	S	S	I	MR	MR	MR
AAC Stoughton VB	18	76	13.2	3	2	Y	G	---	---	MR	---	R	R	I	MR
AAC Westking	18	76	14.3	2	-3	Y	VG	F	---	R	---	MR	R	I	MR
AAC Wheatland VB	33	77	14.5	1	0	Y	VG	G	R	MR	S	R	R	I	I
CDC SKRush	31	75	14.6	2	4	Y	VG	P	---	I	---	MR	R	MR	MR
AAC Spike	18	71	13.8	0	-6	Y	VG	G	---	MR	---	R	R	R	MR

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

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

2025 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	F	P	R	R	MR	MR	S	I	MR	Y	H	101	35.9	80.7	81
AAC Alida VB	5	97	98	+0.1	VG	VG	R	R	MR	R	I	MS	MR	Y	H	0	+1.0	+0.2	+6
AAC Redstar	5	95	99	-0.1	F	G	R	MR	MR	---	MR	---	MR	Y	H	-2	-0.5	-1.3	+8
AAC Oakman VB	1	95	98	-0.2	G	F	R	R	R	---	R	---	I	Y	S	0	-2	-2.6	-1
AAC Starbuck VB	5	104	108	-0.2	F	F	I	MR	MR	MR	S	S	MR	Y	H	0	-0.2	+0.4	+2
AAC Stoughton VB	2	105	106	-0.5	G	F	R	R	I	R	R	---	MR	Y	H	0	+0.7	+0.4	+4
AAC Wheatland VB	5	104	106	-0.2	G	G	R	R	I	R	MR	S	I	Y	H	0	-0.7	+0.1	+1
AAC Westking	2	103	104	-0.1	VG	G	MR	R	I	MR	R	---	MR	Y	H	-1	+1.6	+0.1	+0.2
CDC SKRush	5	99	103	-0.1	F	P	MR	R	MR	---	I	---	MR	Y	H	-1	-3.8	-0.9	+7
AAC Spike	2	99	96	-0.1	VG	F	R	R	R	---	MR	---	MR	Y	H	-1	-1.8	+0.4	-6

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

2025 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
AAC Brandon (bu/ac)			76	58	96											
AAC Brandon - check	2024	159	100	100	100	104	14.0	63	39	84	Y	F	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	G	F	S	MR	MR
AAC Stoughton VB	2024	38	104	99	109	0	-0.8	64	40	87	Y	G	F	MR	I	MR
AAC Tisdale	2017	37	94	94	94	-1	+0.6	63	42	93	Y	F	F	MR	S	MR
AAC Westking	2024	38	102	99	104	0	-0.1	63	41	85	Y	VG	VG	R	I	MR
AAC Wheatland VB	2020	36	104	104	104	0	-0.5	63	40	86	Y	VG	VG	MR	I	I
CDC SKRush	2022	31	100	97	104	-1	-0.1	63	33	93	Y	F	P	I	MR	MR
Eilerslie	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
AAC Spike	2024	35	97	96	98	-2	-0.4	63	36	76	Y	VG	G	MR	R	MR

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