

Technical Bulletin

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Canada's Seed Partner

AAC Coldfront Canada Western Red Winter Wheat



Progress Through Research
Le progrès grâce à la recherche

Description:

AAC Coldfront is a very high yielding winter wheat variety with short strong straw, medium-late maturity and excellent disease resistance. AAC Coldfront should be well-suited to all winter wheat growing regions of western Canada.

Parentage:

Norstar/CDC Falcon//LF1318

Strengths:

- Excellent grain yield potential, 107% of AAC Elevate and 101% of AAC Wildfire
- VG rating to lodging resistance
- Medium height, similar to AAC Elevate and -3cm compared to AAC Wildfire
- Medium-late maturity, 1 day earlier than AAC Elevate and 2 days earlier than AAC Wildfire
- VG rating for winter survival
- Resistant to leaf rust, stem rust and stripe rust

Neutral Traits:

- Intermediate resistant to FHB
- Test weight within the range of the checks
- Grain protein within the range of the checks

Weakness:

- Susceptible to common bunt

Breeder:

Dr. Robert J. Graf
Agriculture and Agri-Food Canada
Lethbridge, AB

PBR 91 Protected

2018-2020 Western Winter Wheat Cooperative Registration Trial Data

Variety	Yield (% Check Mean)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/hl)	Seed Mass (mg)	Grain Protein (%)	Winter Survival (%)	Stem Rust	Stripe Rust	FHB
AAC Elevate	103	216.0	2.0	76	80.2	37.4	11.9	87	MR	S	I
CDC Buteo	98	215.9	4.0	81	82.6	33.2	12.4	89	I	S	MR
Emerson	97	217.4	1.8	79	81.4	29.4	13.3	88	R	MR	R
Moats	102	216.3	3.0	81	81.1	32.3	12.4	88	S	MR	S
AAC Coldfront	111	217.8	1.7	76	81.9	32.8	12.4	89	R	R	I

For more information, call 1-800-665-7333 or visit secan.com

2024 Seed Manitoba - Winter Wheat Comparison

Variety	Site Years Tested	Yield Bu/ac	Protein %	Height +/- 75cm	Relative Maturity	Relative Winter Hardiness	Resistance to:					
							Lodging	Common Bunt	Stem Rust	Leaf Rust	Stripe Rust	FHB
AAC Overdrive	5	82	11.7	+4	E	VG	VG	R	R	MR	R	MR
AAC Wildfire	33	89	11.7	+10	L	VG	G	MR	S	I	R	MR
AC®Emerson	69	83	12.7	+11	M	G	VG	S	R	I	MR	R
CDC Buteo	86	80	11.6	+16	M	VG	F	S	I	I	S	MR
CDC Falcon *	103	79	11.8	0	E	F	VG	S	MR	MR	S	S
Moats	35	83	12.1	+16	E	G	F	MS	R	R	MR	S
AAC Coldfront	14	92	11.8	+7	M	VG	VG	S	R	R	R	I

F=Fair; G=Good; VG=Very Good; R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

*CDC Falcon has moved to the Canada Western General Purpose class in August 2014

2024 Varieties of Grain Crops for Saskatchewan - Winter Wheat Comparison

Variety	Site Years Tested	Yield as % of CDC Buteo		Protein Content (%)	Winter Survival	Resistance to:						Relative Maturity	Seed Weight (mg)	Volume Weight (kg/hL)	Height (cm)
		Area 1 & 2	Area 3 & 4			Lodging	Stem Rust	Leaf Rust	Stripe Rust	Bunt	FHB				
CDC Buteo	25	100	100	12.0	VG	F	I	I	S	S	MR	M	33.7	81.1	90
AAC Wildfire	12	111	115	-0.1	VG	G	S	I	MR	MR	MR	VL	+1.2	-2.3	-5
Radiant	23	102	102	0.0	VG	VG	S	S	S	S	S	L	+1.8	-2.2	-1
Moats	16	103	101	+0.3	G	F	R	MR	MR	MS	S	M	-1.1	-0.6	+1
AAC Coldfront	5	113	117	+0.3	VG	VG	R	R	R	S	I	L	-1.7	+0.3	-7

F=Fair; G=Good; VG=Very Good; R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

2024 Alberta Seed Guide - CWRW Wheat Comparison

Variety	Overall Station Years of Testing	Overall Yield as % of Radiant	Yield Test Category		Agronomic Characteristics:							Disease Resistance				
			Low < 80 bu/ac	High >80 bu/ac	Winter Survival	Maturity (d)	Protein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to Lodging	Stripe Rust	Leaf Rust	Stem Rust	Bunt	FHB
Radiant (bu/ac)		76	61	95												
Radiant			100	100	VG	219	12.0	63	35	89	VG	S	S	S	S	S
AAC Overdrive	21	108	106	111	VG	-3	+0.6	62	31	80	VG	R	MR	R	R	MR
AAC Wildfire	79	113	115	109	VG	+2	+0.2	63	38	85	G	MR	I	S	MR	MR
AAC Coldfront	31	111	111	110	VG	0	+0.4	64	34	83	VG	R	R	R	S	I

VG=Very Good; G=Good; F=Fair; P=Poor; VP=Very Poor; R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

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