

Technical Bulletin

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Canada's Seed Partner

AAC Elevate Canada Western Red Winter Wheat



Description:

AAC Elevate is a CWRW variety with short strong straw, high grain yield potential, medium maturity, and improved protein content. AAC Elevate is also resistant to the wheat curl mite which is the vector for wheat streak mosaic virus. AAC Elevate is especially well-suited to Alberta and Saskatchewan and would be a potential replacement for Radiant and CDC Buteo.

Parentage:

Radiant//AC Bellatrix/N95L1226

Strengths:

- Excellent grain yield potential
- Short strong straw
- Improved protein potential compared to Radiant
- Intermediate resistance to stem and leaf rust
- Intermediate resistance to FHB and lower DON accumulation than checks
- Resistant to the wheat curl mite

Neutral Traits:

- Winter survival within range of the checks
- Stem, leaf, and stripe rust resistance slightly inferior to Moats
- Medium maturity
- Test weight within the range of the checks

Weakness:

- Moderately susceptible to stripe rust

Breeder:

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

2011-2013 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
CDC Osprey	100	218	2.8	100	77.9	29.5	11.5	83	S	S	I
AC Bellatrix	95	220	3.6	98	79.0	32.2	12.2	78	S	S	I
Radiant	105	221	2.0	96	78.7	33.1	11.3	80	S	S	S
CDC Buteo	100	219	3.0	97	80.6	31.4	11.6	78	I	S	MR
AAC Elevate	109	220	2.1	89	78.2	36.3	11.6	79	MR	MS	I

F=Fair; P=Poor; VP=Very Poor

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

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2018 Seed Manitoba- Winter Wheat Comparison

Variety	Long Term Average Yield bu/ac	Site Years Tested	Protein %	Height +/- 75cm	Relative Maturity	Relative Winter Hardiness	Resistance to:					
							Lodging	Common Bunt	Stem Rust	Leaf Rust	Stripe Rust	FHB
AAC Wildfire	88	7	11.0	10	L	VG	G	MR	S	I	R	MR
AC® Emerson	84	28	12.2	11	M	G	VG	S	R	I	MR	R
AC® Flourish	83	35	11.6	5	E	F	VG	MR	I	I	I	S
CDC Buteo	80	86	11.3	16	M	VG	G	S	I	I	S	MR
CDC Falcon *	79	103	11.4	0	E	F	VG	S	MR	MR	S	S
Moats	84	35	11.7	16	E	G	G	MS	R	R	MR	S
AAC Elevate	80	25	11.4	8	M	G	VG	MR	MR	I	MS	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

2018 Varieties of Grain Crops for Saskatchewan - Winter Wheat Comparison

Variety	Site Years Tested	Yield as % of CDC Buteo		Protein Content (%)	Resistance to:							Relative Maturity	Height (cm)
		Area 1 & 2	Area 3 & 4		Lodging	Winter Survival	Stem Rust	Leaf Rust	Stripe Rust	Bunt	FHB		
CDC Buteo (bu/ac)	17	100	100	12.3	F	VG	I	I	S	S	MR	M	91
AAC Wildfire	6	114	118	0.0	G	VG	S	I	R	MR	MR	VL	86
Radiant	17	103	102	-0.3	VG	VG	S	S	MS	S	S	L	91
AC® Flourish	9	101	101	+0.3	VG	F	I	I	I	MR	S	E	80
Moats	10	108	103	+0.4	F	G	R	R	MR	MS	S	M	92
AAC Elevate	7	110	103	-0.1	VG	G	MR	I	MS	MR	I	M	84

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2018 Alberta Seed Guide - CWRW Wheat Comparison

Variety	Overall Yield (% Radiant)		Yield Test Category (% Radiant)				Winter Survival	Relative Maturity	Protein	Height (cm)	Lodging Resistance	Disease Resistance				
	All Sites	Station years of testing	Low < 45 bu/ac	Med 45-75 bu/ac	High 75-105 bu/ac	Very High >105 bu/ac						Bunt	Stripe Rust	Leaf Rust	Stem Rust	FHB
Radiant (bu/ac)	76		37	63	87	114										
Radiant	100		100	100	100	100	VG	L	12.0	90	VG	S	S	S	S	S
AAC Wildfire	114+	43	XX	117+	114+	XX	VG	VL	+0.3	86	G	MR	R	I	S	MR
AC® Flourish	100	119	99	98	102	104	F	E	+0.6	80	VG	MR	I	I	I	S
CDC Buteo	97-	198	94-	98	95-	101	VG	M	+0.3	91	F	S	S	I	I	MR
Moats	104+	90	91	102	107+	108+	G	M	+0.7	91	F	MS	MR	R	R	S
AAC Elevate	106+	72	106	107+	107+	XX	G	M	+0.3	84	VG	MR	MS	I	MR	I

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