

WINTER WHEAT

CANADA WESTERN RED WINTER

Variety	Yield Category (% Radiant)					Agronomic Characteristics:					Disease Tolerance:								
	Overall Station	Overall Yield (bu/ac)	Low <45 (bu/ac)	Medium 45 - 75 (bu/ac)	High 75 - 105 (bu/ac)	V. High > 105 (bu/ac)	Winter Survival	Maturity Rating	Protein %	Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to Lodging		Stripe Rust	Leaf Rust	Stem Rust	Bunt	Fusarium Head Blight
													Yield and agronomic data only directly comparable to Radiant)	Yield and agronomic data only directly comparable to Radiant)					
Radiant (bu/ac)	76	37	63	87	113														
Radiant	100	100	100	100	100	100	VG	L	12.0	63	36	90	VG	S	S	S	S	S	S
AAC Elevate	77	107	106	107	102	102	G	M	+0.3	63	39	84	VG	MS	I	MR	MR	I	I
AAC Gateway	80	100	XX	103	XX	XX	F	M	+0.9	63	33	77	VG	MR	I	MR	S	I	I
AAC Goldrush	34	102	XX	99	105	XX	VG	M	+0.5	63	34	86	G	I	R	MR	S	I	I
AAC Wildfire	48	114	XX	116	114	XX	VG	VL	+0.3	64	38	86	G	R	I	S	MR	MR	MR
AC Tempest †	117	97	96	97	96	99	P	VL	+1.5	63	37	91	VG	MR	S	S	MS	I	I
CDC Buteo †	203	96	94	97	95	101	VG	M	+0.3	65	34	91	F	S	I	I	S	MR	MR
Emerson	79	98	96	95	100	XX	G	M	+0.7	64	30	86	G	MR	I	R	S	R	R
Flourish †	119	100	99	98	102	104	F	E	+0.6	63	35	80	VG	I	I	I	MR	S	S
Moats	90	104	91	102	107	108	G	M	+0.7	64	33	91	F	MR	MR	R	MS	S	S

CANADA WESTERN EXPERIMENTAL

Varieties tested in 2018 (Yield and agronomic data only directly comparable to Radiant)	
AAC Icefield	44 104 XX 97 111 XX F M -0.6 63 32 82 VG MR MR R S I

CANADA WESTERN SPECIAL PURPOSE

Varieties tested in 2018 (Yield and agronomic data only directly comparable to Radiant)	
Pintail	79 108 XX 109 109 XX VG L -1.4 61 29 88 F MR MS S S

REMARKS: Winter wheat can be grown successfully in all areas of Alberta if seeded into standing stubble within the optimal seeding date period (generally before September 15) and if there is adequate snowfall. Varieties with poor (P) winter survival are generally not suitable outside of southern Alberta. The long term average maturity for **Radiant** is August 10 and is rated as late (L). Fusarium head blight infection may be reduced if varieties with Intermediate (I) resistance or better are used and when recommended seeding dates are followed. **Radiant** and **AAC Elevate** have tolerance to the wheat curl mite, the vector for Wheat Streak Mosaic Virus. To preserve the effectiveness of the wheat curl mite tolerance gene, agronomic practices that eliminate the "green bridge" of plant material that serves as a reservoir for mites should be followed whenever possible. Fields in southern Alberta should be inspected in the fall for infestation by Russian wheat aphid, as it may reduce winter survival. **AAC Wildfire** expresses tolerance to some biotypes of Russian wheat aphid. **AC Tempest, Radiant** and **AAC Wildfire** have bronze chaff at maturity. **AAC Icefield**, a hard white winter wheat now fully registered, is eligible for experimental grades to facilitate market research under an Identity Preserved system. **AAC Icefield** expresses high milling yield of very white flour and good gluten strength at lower protein concentrations that may be of interest in some niche markets. For more information contact FP Genetics. **Pintail** has an awnless head which may improve palatability when harvested for forage or silage. **AAC Goldrush** and **AAC Icefield** will be available in 2019. † Flagged for possible removal in 2020.