

AAC Tradition Hard Red Spring Wheat (CGC class to be determined)

Description:

AAC Tradition is an awned, medium height hard red spring wheat developed for organic production systems. AAC Tradition has shown good straw strength and excellent grain yield potential when tested on organically managed plots. AAC Tradition has a well rounded disease package being moderately resistant to leaf rust, stem rust and bunt as well as intermediate resistance to FHB. AAC Tradition is well adapted across western Canada.

Parentage: 98B25-AS6D01/ND744

Strengths:

Neutral Traits:

- Grain yield 109% AC[®] Unity VB in Bread Wheat Organic trials
- Grain yield 101% of AC[®] Unity VB in coop registration trials
- Superior lodging resistance to AC[®] Unity VB, similar to CDC Go
- Large kernels with high test weight

- Moderately resistant to stem rust, leaf rust and common bunt
- Intermediate resistance to FHB
- Maturity similar to AC[®] Carberry, 4 days later than AC[®] Unity VB
- 8cm shorter than AC[®] Unity VB

Weaknesses:

susceptible to stripe rust and loose smut

Breeders:

Dr. Gavin Humphreys AAFC Cereal Research Centre Winnipeg, MB

PBR 91 Applied for

2011-2013 Central Bread Wheat Cooperative Trials - Registration Data Yield Lodging Test Kernel

Variety	Yield (% of AC [®] Unity VB)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/kl)	Kernel Weight (mg/kernel)	FHB Resistance Rating
AC [®] Unity VB	100	95	3.6	96	79.1	33.0	Ι
5603HR	94	97	2.4	97	78.0	31.7	I
AAC Tradition	101	99	2.0	88	81.1	35.5	I

2010, 2012 and 2013 Bread Wheat Organic "B" trials

Variety	Yield (% of AC Cadillac)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/kl)	Kernel Weight (mg/kernel)	Grain Protein
AC Cadillac	100	92.2	2.8	100	79.5	33.8	14.1
AC [®] Unity VB	101	91.9	2.7	95	79.0	31.7	14.0
CDC Go	99	93.7	1.9	83	77.6	36.9	14.2
CDC Kernen	99	93.9	2.4	98	77.5	33.3	14.3
AAC Tradition	110	96.4	1.8	88	81.3	36.5	13.7

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2017 Seed Manitoba - Wheat Comparison

				Maturity	Height		Resistance to:								
Variety	Site Years Tested	Yield bu/ac	Protein %	+/- 99 days	+/- 91cm	Spike Awned	Lodging	Sprouting	Loose Smut	Bunt	Leaf Spot	Stem Rust	Leaf Rust	Stripe Rust	FHB
AC Barrie	165	58	14.5	0	+13	N	G	G	MR	1	MS	MR	MS	S	
AC [®] Carberry	84	62	14.6	+2	0	Y	VG	F	MR	R	MS	MR	R	MR	MR
AC [®] Cardale	28	63	14.5	+2	+3	Y	VG	G		MR	MS	R	R	S	MR
AAC Brandon	46	65	14.2	+2	0	Y	VG	Р	MR	S		R	R	MR	MR
AAC Elie	43	64	14.3	+2	-3	Y	VG	F				R	R	MR	
Harvest	61	60	14.3	-1	+8	Ν	VG	VG	MR	S	MS	R	MR	MR	S
AAC Redwater	43	60	14.5	-2	+8	Y	G	VG	MS	1	MS	R	R	MR	
CDC Bradwell	33	62	14.4	+3	+5	Y	VG		MR	R	MS	MR	R	MS	
AAC Tradition	33	62	14.3	+4	+5	Y	G	VG	MS	MR	I	R	MR	S	I

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

2017 Varieties of Grain Crops for Saskatchewan – Wheat Comparison

		Yield as % of Carberry					Resistance to:										Seed	Test	
	Years	Area	Area					Stem	Leaf	Stripe	Loose		Leaf		Maturity	Head	Weight	Weight	Height
Variety	Tested	1&2	3&4	Irrigation	Protein	Lodging	Sprouting	Rust	Rust	Rust	Smut	Bunt	Spot	FHB	(days)	Awnedness	(mg)	(kg/hl)	(cm)
AC [®] Carberry	6	100	100	100	14.6	VG	F	MR	R	MR	MR	R	MS	MR	100	Y	34.5	79.0	83
AC [®] Cardale	5	99	101		-0.1	F	G	R	R	S		MR	MS	MR	0	Y	-0.7	-1.1	+2
AAC Brandon	5	106	106		-0.4	G	Р	R	R	MR	MR	S	Ι	MR	0	Y	+0.5	-0.1	0
AAC Elie	5	105	105		-0.2	G	F	R	R	MR	-	I	Ι	Ι	0	Y	+0.3	0.0	-1
Harvest	6	94	103		-0.3	G	VG	R	MR	MR	MR	S	MS	S	-3	Ν	-2.8	-1.6	+10
AAC Redwater	5	102	101		+0.1	F	VG	R	R	MR	MS	I	MS	Ι	-5	Y	-3.0	-1.5	+9
AC [®] Stettler	6	105	107	100	+0.2	F	G	MR	MS	MR	R	MR	MS	MS	-1	Y	-1.4	-1.1	+7
CDC Bradwell	3	100	107		0.0	VG	F	MR	R	MS	MR	R	MS	I	-1	Y	-1.2	+0.5	+9
AAC Tradition	2	106	107		-0.5	F	VG	R	MR	S	MS	MR	I	1	+1	Y	+2.2	+1.4	+8

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

2017 Alberta Seed Guide - CWRS Wheat Comparison

	Overall Yield (1) Test Yield Category (2)									Resis	tance to:	Disease Resistance:					
Variety	All Sites	Station years of testing	Low < 45 bu/ac	Med 45 - 70 bu/ac	High >70 bu/ac	Maturity Rating	Protein %	Test Weight (Ib/bu)	Kernel Weight g/1000	Height (cm)	Ldg.	Sprout	Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
	Yield as % of AC Barrie				Barrie												
AC Barrie bu/ac	60		36	57	81												
AC Barrie	100		100	100	100	М	14.0	62	38	87	G	G	MR	I	S	MS	I
AAC Brandon	114+	41	106	117+	113+	М	-0.2	64	38	81	G	Р	MR	S	MR		MR
AAC Redwater	103	41	96	106	104	E	0.0	64	35	87	G	VG	MS		MR	MS	
AC [®] Cardale	105+	41	100	106+	105	М	-0.3	63	37	84	G	G		S	MR	MS	MR
AC [®] Carberry	107+	91	116+	105	106+	L	-0.1	64	39	77	VG	F	MR	R	MR	MS	MR
AC [®] Stettler	112+	69	119+	109+	111+	М	-0.3	63	37	84	G	G	R	I		S	MS
AAC Tradition				•	•	•		Insut	ficient Da	ta	-		-	•		-	•

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