

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

AC[®] Carberry

Canada Western Red Spring Wheat



Description:

AC[®] Carberry is an awned, semi-dwarf CWRS variety that when compared to Superb has similar grain yield, higher grain protein potential, shorter, stronger straw and much better fusarium head blight resistance. AC[®] Carberry is equal in maturity to Superb and has good sprouting resistance indicated by a high falling number. AC[®] Carberry also provides resistance to leaf rust, stem rust, common bunt and loose smut. This variety is well adapted across western Canada but will be especially attractive to wheat producers in the high yielding areas of the Prairies who desire a short, strong strawed variety with good FHB resistance.

Parentage: Alsen/Superb

Strengths:

- Grain yield 111% of AC Barrie, 100% of Superb over all sites in 2006 to 2008 Coop Registration trials
- Grain protein potential equal to AC Barrie, 0.5% higher than Superb
- Height 12 cm shorter than AC Barrie, 5 cm shorter than Superb

- Lodging resistance better than AC Barrie and Superb
- Good preharvest sprouting resistance (high falling number)
- Good leaf and stem rust resistance
- Good resistance to common bunt
- “Good” rating for fusarium head blight resistance

Neutral Traits:

- Higher test weight than AC Barrie and Superb
- Fair resistance to loose smut
- Seed is held tightly to stem but glumes fall easily as crop matures

Weaknesses:

- Maturity two days later than AC Barrie, equal to Superb

Breeder:

Dr. Ron DePauw
Semiarid Prairie Agricultural Research Centre
Agriculture and Agri-Food Canada
Swift Current, SK

2006-2008 Western Bread Wheat Cooperative Trials - Registration Data

Variety	Yield (% of AC Barrie)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/kl)	Kernel Weight (mg/kernel)	Grain Protein (%)	Falling Number	FHB Resistance Rating
AC Barrie	100	99	2.1	97	79.6	33.8	15.2	398	F
Katepwa	97	98	3.1	101	78.4	32.0	14.9	388	F
Superb	110	101	2.1	90	79.5	38.2	14.7	385	P
Laura	101	100	3.8	100	79.0	31.9	15.0	375	---
AC [®] Lillian	96	99	3.1	97	78.1	35.0	16.3	398	VP
AC[®] Carberry	111	101	1.7	85	80.8	35.0	15.2	377	G

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

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2016 Seed Manitoba - Wheat Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Maturity +/- 99 days	Height +/- 32"	Spike Awned	Resistance to:								
							Lodging	Sprouting	Loose Smut	Bunt	Leaf Spot	Stem Rust	Leaf Rust	Stripe Rust	FHB
AC Barrie	165	58	14.5	0	+5	N	G	G	MR	I	MS	MR	MS	S	I
5603HR	41	63	14.4	+2	+5	Y	G	VG	MS	I	MR	MR	R	MS	I
AC® KANE	92	61	14.5	+1	+3	Y	G	VG	MS	I	I	R	R	MR	I
Harvest	61	60	14.3	-1	+3	N	VG	VG	MR	S	MS	R	MR	MR	S
AAC Brandon	42	65	14.2	+2	0	Y	VG	P	MR	S	I	R	R	MR	MR
AAC Elie	42	64	14.4	+2	-1	Y	VG	F	I	I	I	R	R	MR	I
AAC Redwater	42	60	14.6	-2	3	Y	G	VG	MS	I	MS	R	R	MR	I
AC® Cardale	28	63	14.5	+2	+1	Y	VG	G	I	MR	MS	R	R	S	MR
AC® Carberry	70	62	14.5	+2	0	Y	VG	F	MR	R	MS	MR	R	MR	MR

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

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

2016 Varieties of Grain Crops for Saskatchewan – Wheat Comparison

Variety	Years Tested	Yield as % of Carberry			Protein	Resistance to:									Relative Maturity (days)	Head Awedness	Seed Weight (mg)	Test Weight (kg/hl)	Height (cm)
		Area 1 & 2	Area 3 & 4	Irrigation		Lodging	Sprouting	Stem Rust	Leaf Rust	Stripe Rust	Loose Smut	Bunt	Leaf Spot	FHB					
Harvest	6	94	103	---	-0.3	VG	VG	R	MR	MR	MR	S	MS	S	-3	N	-2.8	-1.6	+10
AAC Brandon	4	107	105	---	-0.5	G	P	R	R	MR	MR	S	I	MR	0	Y	-0.1	-0.2	-1
AAC Redwater	4	102	101	---	+0.1	F	VG	R	R	MR	MS	I	MS	I	-5	Y	-2.8	-1.7	+7
AC® Lillian	6	93	96	---	+1.1	F	G	MR	R	R	I	MR	MR	S	-2	N	0.0	-2.7	+12
AC® Cardale	5	99	102	---	-0.2	G	G	R	R	S	I	MR	MS	MR	-1	Y	-2.8	-1.2	+3
AC® Stettler	6	105	107	100	+0.2	G	G	MR	MS	MR	R	MR	MS	MS	-1	Y	-1.4	-1.1	+7
AC® Carberry	6	100	100	---	14.7	VG	F	MR	R	MR	MR	R	MS	MR	105	Y	36	80.3	84

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

2016 Alberta Seed Guide - CWRS Wheat Comparison

Variety	Overall Yield (1)		Test Yield Category (2)			Maturity Rating	Protein %	Test Weight (lb/bu)	Kernel Weight g/1000	Height (cm)	Resistance to:		Disease Resistance:						
	All Sites	Station years of testing	Low < 45 bu/ac	Med 45 - 70 bu/ac	High >70 bu/ac						Ldg.	Sprout	Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB		
			Yield as % of AC Barrie																
AC Barrie bu/ac	59		34	55	78														
AC Barrie	100		100	100	100	M	14.1	64	37	89	G	G	MR	I	S	MS	I		
Harvest	102	118	98	103	104	M	-0.1	62	36	84	VG	VG	MR	S	MR	MS	S		
AAC Brandon	114+	41	106	117+	113+	M	-0.2	64	38	81	G	P	MR	S	MR	I	MR		
AAC Redwater	103	41	96	106	104	E	0.0	64	35	87	G	VG	MS	I	MR	MS	I		
AC® Cardale	105+	41	100	106+	105	M	-0.3	63	37	84	G	G	I	S	MR	MS	MR		
AC® Stettler	112+	69	119+	109+	111+	M	-0.3	63	37	84	G	G	R	I	I	S	MS		
AC® Carberry	107+	91	116+	105	106+	L	-0.1	64	39	77	VG	F	MR	R	MR	MS	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

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