

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:

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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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2013 Seed Manitoba - Wheat Comparison

Variety	Site Years Tested	Yield bu/ac	Protein (+/- AC Barrie)	Relative Maturity (days)	Height	Spike Awned	Resistance to:							
							Lodging	Sprouting	Loose Smut	Bunt	Leaf Spot	Stem Rust	Leaf Rust	FHB
AC Barrie	164	55	14.5	99	37"	N	G	G	MR	I	MS	MR	MS	I
5602HR	90	60	14.9	+1	0	Y	F	F	R	MR	I	R	R	MR
AC® KANE	78	58	14.6	+1	-2	Y	G	VG	MS	I	I	R	R	I
Harvest	61	58	14.3	-1	-2	N	VG	VG	MR	S	MS	R	MR	S
Superb	83	58	14.4	+2	-3	Y	VG	F	I	MR	MS	R	S	MS
AC® Unity VB*	53	62	14.2	0	0	Y	F	G	MS	R	I	MR	R	I
AC® Carberry	40	58	14.6	+2	-5	Y	VG	F	MR	R	MS	MR	R	MR

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

2013 Varieties of Grain Crops for Saskatchewan – Wheat Comparison

Variety	Years Tested	Yield as % of AC Barrie			Protein	Resistance to:									Relative Maturity (days)	Head Awnedness	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					
AC Barrie	11	100	100	100	14.9	G	G	G	P	VP	G	F	P	F	100	N	36.0	79.9	93
Harvest	6	101	104	---	-0.4	VG	VG	VG	G	G	G	F	P	VP	-1	N	-0.4	+0.1	-6
AC® Lillian	7	102	99	---	+0.3	F	G	G	VG	VG	F	G	G	VP	0	N	-0.3	-1.1	-1
McKenzie	6	107	103	109	-0.4	F	G	VG	VG	P	VP	VG	P	F	-1	Y	-1.5	+0.1	+1
AC® Stettler	5	115	110	---	+0.2	G	G	G	P	G	VG	G	P	P	+1	Y	-0.6	0.0	-6
Superb	7	109	108	---	-0.4	G	F	VG	P	VP	F	G	VP	P	+3	Y	+2.6	-0.5	-7
AC® Carberry	4	110	104	---	-0.1	VG	F	G	VG	G	G	VG	P	G	+3	Y	+1.2	+1.2	-12

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

2013 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	58		36	55	79														
AC Barrie	100	(369)	100	100	100	M	14.1	62	37	88	G	G		F	VP	P	F		
Harvest	102	(117)	98	103	104	M	-0.1	62	36	84	VG	VG	G	F	G	P	VP		
AC® Lillian	104+	(85)	111+	100	104	M	+0.2	61	37	87	G	G	F	G	VG	P	VP		
McKenzie	103+	(104)	101	104	105+	M	-0.4	62	34	90	F	VG	P	VG	P	F	F		
AC® Stettler	112+	(69)	119+	109+	111+	M	-0.3	63	37	84	G	G	G	G	G	P	P		
Superb	112+	(179)	110+	112+	115+	L	-0.3	62	42	85	G	F	F	G	VP	VP	P		
AC® Carberry	108+	(51)	117+	104	105	L	-0.9	64	38	78	VG	F	G	G	G	G	P	G	

V =Very Good, G=Good, F=Fair, P=Poor, VP=Very Poor