

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner



AC[®] Snowstar

Canada Western Hard White Spring Wheat

Description:

AC[®] Snowstar is an awnless variety with short, strong straw, and good leaf and stem rust resistance.

Parentage:

94B46*G22 X McKenzie (94B46*G22 is a sister line of the CWHWS variety Snowbird)

Strengths:

- Grain yield 99% of Snowbird over all sites in 2003 to 2005 Co-op Registration trials
- Maturity one day earlier than Snowbird
- Height 10 cm shorter than Snowbird
- Stronger straw than Snowbird
- Better pre-harvest sprouting score than Snowbird
- Higher test weight than Snowbird

Neutral Traits:

- Smaller seed than Snowbird and AC Barrie
- Intermediate resistance to leaf spot diseases, similar to Snowbird

- Fusarium head blight resistance similar to Snowbird and better than Superb and CDC Teal
- AC[®] Snowstar has a compact (densely packed) head which resists shattering, but under some conditions may result in more difficult threshing
- In order to maintain a high quality grain sample (minimize white caps), growers may have to tighten concaves, increase cylinder speed and/or adjust sieves to more completely thresh the heads

Weakness:

- Susceptible to Loose smut and Common bunt

Breeder:

Dr. Gavin Humphreys
Cereal Research Centre
Agriculture and Agri-Food Canada
Winnipeg, MB

2003-2005 Central Bread Wheat and Hard White Wheat Cooperative Trials

Variety	Central Bread Wheat Coop 2003 Yield (% Snowbird)	Hard White Wheat Coop 2004-2005 Yield (% Snowbird)	Maturity (days) 2003-2005	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/hl)	Kernel Weight (mg/kernel)	Grain Protein 2003-2005	Pre-harvest Sprout Score 1 = best
Snowbird	100	100	103	2.9	96	78.7	32.6	13.8	5.8
Katepwa	97	---	0	---	0	-0.8	0	---	6.7
McKenzie	108	---	0	---	-3	0.0	+0.4	---	4.8
AC Barrie	98	---	0	---	-2	-0.1	+1.8	---	3.3
CDC Teal	97	101	-1	2.5	-4	-1.0	+0.3	14.6	8.9
Infinity	---	102	---	---	-2	---	-1.3	---	---
Superb	106	---	+2	---	-7	-0.2	+5.8	---	5.7
AC [®] Snowstar	103	97	-1	2.2	-10	+1.6	-3.7	13.3	3.9

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

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2010 Seed Manitoba - Wheat Comparison

Variety	Long Term Average Yield (% AC Barrie)	Site Years Tested	Protein (+/- AC Barrie)	Relative Maturity (days)	Height	Seed Size	Resistance to:							
							Lodging	Loose Smut	Bunt	Leaf Spot	Stem Rust	Leaf Rust	Stripe Rust	FHB
AC Barrie	100		0	0	M	L	G	G	F	P	G	P	P	F
AC® KANE	107	43	0.1	1	M	M	G	P	P	F	G	VG	n/a	F
Harvest	108	55	-0.1	-1	M	M	VG	G	F	P	VG	G	n/a	VP
McKenzie	110	37	---	-1	M	M	F	P	VG	F	VG	VG	P	F
Superb	106	89	-0.1	2	M	L	VG	F	VG	P	VG	VP	P	P
Snowbird	104	98	-0.7	0	M	M	G	G	P	P	G	F	G	P
AC® Snowstar	109	35	-1.1	-1	M	M	VG	P	P	P	VG	G	G	P

M=Medium; L=Large; G=Good; VG=Very Good; F=Fair; P=Poor; VP=Very Poor; n/a=Not Available

2010 Varieties of Grain Crops for Saskatchewan – Wheat Comparison

Variety	Years Tested	Yield as % of AC Barrie			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
AC Barrie	11	100	100	100	14.8	G	G	G	P	P	G	F	P	F	100	N	36.0	79.9	93
Harvest	6	101	104	---	-0.4	VG	VG	G	G	---	G	F	P	VP	-1	N	-0.4	+0.1	-6
AC® Lillian	6	103	100	---	+0.2	F	G	G	VG	G	F	G	P	VP	0	N	-0.3	-1.1	-1
McKenzie	6	107	103	109	-0.4	F	G	G	VG	P	VP	VG	P	F	-1	Y	-1.5	+0.1	+1
Superb	6	109	109	---	-0.4	G	G	G	P	P	F	G	VP	P	+3	Y	+2.6	-0.5	-7
Snowbird	5	99	102	---	-0.6	G	G	G	F	---	G	F	P	P	+2	N	-1.8	-0.4	+1
AC® Snowstar	3	105	108	---	-1.2	VG	G	VG	G	---	P	P	P	P	0	N	-3.4	-1.5	-10

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

2010 Alberta Seed Guide - CWRS Wheat Comparison

Variety	Overall Yield (1)		Test Yield Category (2)			Comp. Maturity days	Protein %	Test Weight (lb/bu)	Kernel Weight g/1000	Height (cm)	Resistance to:				Tolerance to:			
	All Sites	Station years of testing	Low < 45 bu/ac	Med 45 - 70 bu/ac	High >70 bu/ac						Lodging	Loose Smut	Bunt	Stripe Rust	Leaf Spot	Sprout	FHB	
			Yield as % of AC Barrie															
AC Barrie bu/ac	59		36	57	81													
AC Barrie	100	(356)	100	100	100	106	14.4	63	37	89	G	G	F	P	P	G	F	
Harvest	101	(94)	99	103+	101	-1	0.2	62	36	83	VG	G	F	XX	P	VG	VP	
AC® Lillian	103	(80)	107	102	100	0	-0.1	61	38	86	G	F	G	G	P	G	VP	
McKenzie	103+	(104)	107+	103	101	-1	-0.9	62	34	90	F	P	VG	P	F	VG	F	
Superb	112+	(155)	112+	113+	111+	2	-0.4	62	42	85	G	F	G	P	P	G	P	
Snowbird	101	(87)	100	102	98	1	-0.4	62	36	88	G	G	F	F	P	G	P	
AC® Snowstar	101	(52)	101	102	99	0	-0.9	64	30	83	XX	P	P	XX	F	F	P	

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