

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner



AC[®] Kane

Canada Western Red Spring Wheat

Description:

AC[®] Kane is an awned variety which provides an excellent agronomic package of short strong straw, improved leaf rust resistance, high grain yield and protein, along with very good sprouting resistance.

Parentage:

AC Domain X McKenzie

Strengths:

- Grain yield 107% of AC Barrie, 99% of Superb over all sites in 2003 to 2005 Co-op Registration trials
- Grain yield 104% of Superb in Manitoba sites of 2003 to 2005 Co-op Registration trials
- One day earlier maturity than Superb
- 5 cm shorter than AC Barrie
- Improved lodging resistance over AC Barrie
- Very good sprouting resistance
- Fair rating for FHB resistance
- Very good leaf rust resistance along with good stem rust resistance
- Grain protein potential higher than Superb and similar to AC Barrie

Neutral Traits:

- One day later maturity than AC Barrie
- Fair resistance to leaf spot diseases

Weakness:

- Moderately susceptible to loose smut, similar to McKenzie
- Intermediate resistance to common bunt

Breeder:

Dr. Stephen Fox
Cereal Research Centre
Agriculture and Agri-Food Canada
Winnipeg, MB

2003-2005 Central Bread Wheat Cooperative Trials - Registration Data

Variety	Yield (% Barrie)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/hL)	Kernel Weight (mg/kernel)	Grain Protein (%)	Sprout Score 1 = best	FHB Resistance Rating
AC Barrie	100	100	2.0	93	78.2	33.9	14.1	4.2	F
Katepwa	98	98	2.6	96	76.8	32.1	13.9	5.2	F
McKenzie	110	99	2.7	94	78.3	32.4	14.2	4.0	F
CDC Teal	102	99	2.0	91	77.1	33.2	14.5	6.5	VP
Superb	108	102	1.6	86	77.7	36.5	13.7	3.2	P
AC[®] Kane	107	101	1.9	88	79.6	33.4	14.0	2.4	F

F=Fair; P=Poor; VP=Very Poor

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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
5602HR	112	77	0.3	1	M	M	F	VG	VG	F	VG	VG	n/a	G
AC Domain	97	60	0.8	-2	M	M	VG	VG	F	VP	VG	F	G	P
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
AC® KANE	107	43	0.1	1	M	M	G	P	P	F	G	VG	n/a	F

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
AC Intrepid	5	101	104	102	-0.3	G	P	G	G	G	F	G	P	P	-3	N	-0.2	-0.4	+2
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
AC® KANE	5	104	104	---	-0.2	G	VG	G	VG	---	P	F	F	F	1	Y	-0.5	+1.4	-5

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	
AC Intrepid	102	(107)	103	104	99	-1	-0.5	62	39	90	G	F	G	G	F	P	P	
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	
AC® KANE	99	(51)	96-	100	100	0	0.2	64	36	85	G	P	F	XX	F	XX	F	

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