Technical Bulletin

Genes that fit *your* farm.

SeCan
Canada's Seed Partner

AC® Lillian

Canada Western Red Spring Wheat

AC® Lillian provides resistance to the wheat stem sawfly along with improved grain yield, increased grain protein and better disease resistance compared to AC Abbey, the wheat stem sawfly check variety.

Parentage: BW621 x 3/90B07-AU2B

Strengths:

- Lower levels of cutting by the wheat stem sawfly similar to AC Abbey
- High grain yield, 107% of AC Abbey, 103% of AC Barrie
- High grain protein, 0.7% higher than AC Abbey
- Better resistance to leaf rust and leaf spotting diseases than AC Abbey

Weaknesses:

- Slightly taller, weaker straw than AC Abbey
- One day later than AC Abbey

Breeder:
Dr. Ron Depauw
Agriculture and Agri-food Canada
Swift Current, SK

2000-2002 Western Bread Wheat Cooperative Test Data

Entry	Yield (% Barrie)	Maturity (Days)	Lodging 1 = erect 9 = flat	Height (cm)	Test wt. (kg/hL)	Grain Protein (%)	Kernel Weight (mg)	% Sawfly Cutting
AC Barrie	100	101	1.8	83	80.6	14.9	34.2	33
AC Abbey	96	101	2.8	78	79.6	-0.8	32.3	6
AC® Lillian	**103**	**102**	**3.1**	**82**	**79.5**	**-0.1**	**33.9**	**8**

*Grain protein data from 2004 Saskatchewan Varieties of Grain Crops Pamphlet

2006 Saskatchewan Varieties of Grain Crops - Wheat Comparison

Variety	Yield as % of AC Barrie			Relative Maturity (Days)	Protein (%)	Lodging	Shattering	Resistance to:						
	Area 1 & 2	Area 3 & 4	Irr					Sprouting	Stem Rust	Leaf Rust	Loose Smut	Bunt	Leaf Spot	FHB
AC Barrie	100	100	100	100	14.7	G	G	G	G	P	G	G	P	F
AC Abbey	96	95	98	-1	-0.8	F	G	P	G	P	F	G	P	P
AC Eatonia	93	88	--	0	+0.2	P	G	VG	F	P	F	G	P	--
AC® Lillian	**105**	**100**	**--**	**0**	**0**	**F**	**G**	**G**	**G**	**VG**	**F**	**G**	**P**	**VP**

Irr.=Irrigation; FHB=Fusarium Head Blight; VG=Very Good; G=Good; F=Fair; P=Poor; VP=Very Poor

2006 Alberta Seed Guide - Wheat Comparison

Variety	Yield as % of AC Barrie						Comp. Mat. (Days)	Comp. Prot. (%)	Test Wt. (lb/bu)	Kernel Wt. (g/1000)	Height (cm)	Resistance To:						
	Irr.	Area 1	Area 2	Area 3	Area 4	Area 5&6						Lodging	Shattering	Loose Smut	Bunt	Leaf Spot	Sprout	FHB
AC Barrie	100	100	100	100	100	100	110	14.5	62	28	88	G	G	R	R	P	G	F
AC Abbey	96	103	100	92	105	103	-1	-1.2	62	35	79	F	G	I	R	P	P	F
AC Eatonia	89	91	93	91	93	97	1	-0.1	62	35	92	P	G	I	R	P	G	XX
AC® Lillian	**120**	**148**	**106**	**100**	**100**	**103**	**-1**	**0.0**	**60**	**38**	**86**	**G**	**G**	**R**	**I**	**P**	**G**	**VP**

Irr.=Irrigation; FHB=Fusarium Head Blight; VG=Very Good; G=Good; F=Fair; P=Poor; VP=Very Poor; XX=insufficient test data
R=Resistant; I=Intermediate; S=Susceptible
Comp. Mat=Comparative Maturity Comp. Prot.=Comparable Protein

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