

Technical Bulletin

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AC Barrie Canada Western Red Spring Wheat

AC Barrie is a red spring wheat with consistently high yield, high protein potential and good sprouting resistance.

Strengths:

- High yielding in all areas with 112% higher yield than Neepawa in Central Bread Wheat Co-op Trials (1998-1999)
- High grain protein potential with grain protein slightly higher than McKenzie and Superb
- Lodging resistance is good
- Good shattering resistance
- Maintains better grain grades
- Good resistance to sprouting, similar to Superb and better than Roblin
- FHB resistance rated as "Fair"
- Resistant to stem rust and bunt

Weaknesses:

- Poor resistance to leaf rust

Neutral Traits:

- 2 days later than Katepwa
- Intermediate resistance to common root rot
- Fair to good resistance to loose smut

Breeder:

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

1997- 99 Central Bread Wheat Cooperative Test Data

Entry	Yield (% Neepawa)	Maturity (days)	Lodging 0 = erect 9= flat	Height (cm)	Grain Protein (%)	Test Weight (kg/hl)	100 Kernel Weight (mg)	Sprout Score 1=best
Neepawa	100	92.4	3.1	101	14.1	78.8	31.8	4.5
Roblin	96	-1	1.9	94	+1.2	78.0	34.2	8.4
AC Majestic	105	+2	2.1	95	+0.2	79.3	33.1	1.6
McKenzie	122	+1	3.3	95	0	80.7	32.8	2.7
Superb	124	+4	1.9	88	0	80.5	37.2	1.7
AC Barrie*	112	+2	2.5	98	+0.1	79.6	33.9	5.1

*AC Barrie was tested in 1998 and 1999

Seed Manitoba 2008 - Canada Western Red Spring Wheat

Variety	Yield (% of AC Barrie)	Relative Maturity (days)	Seed Size	Height	Resistance to:								Protein %
					Lodging	Loose Smut	Bunt	Leaf Spot	Stem Rust	Leaf Rust	Strip Rust	FHB	
AC Domain	97	-2	M	M	VG	VG	F	VP	VG	F	G	P	0.8
CDC Teal	98	-3	M	M	G	G	F	P	G	G	G	VP	-0.1
AC Intrepid	105	-4	L	M	G	F	VG	F	G	G	G	P	-
AC Cadillac	105	-1	L	M	F	VG	VG	F	VG	G	F	F	-
McKenzie	110	-1	M	M	F	P	VG	F	VG	VG	P	F	-
Superb	106	2	L	M	VG	F	VG	P	VG	VP	P	P	0
AC Barrie	100	0	L	M	G	G	F	P	G	P	P	F	0

L=Large; M=Medium; G=Good; VG=Very Good; F=Fair; P=Poor; VP=Very Poor FHB=Fusarium Head Blight

2008 Saskatchewan Varieties of Grain Crops - Canada Western Red Spring Wheat

Variety	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	Shattering	Sprouting	Stem Rust	Leaf Rust	Stripe Rust	Loose Smut	Bunt	Leaf Spot	FHB					
AC Elsa	104	104	97	-0.1	G	G	F	G	G	F	G	G	F	P	-1	N	-2.4	-0.5	-1
AC Splendor	92	94	89	0.4	F	G	F	G	G	F	F	G	VP	P	-4	N	-0.2	0.1	-1
CDC Teal	101	100	99	-0.1	G	G	P	G	G	F	G	F	P	VP	-2	N	-1.2	-0.3	0
McKenzie	107	102	109	-0.5	F	G	G	G	VG	P	VP	VG	P	F	-1	Y	-1.5	0.1	1
Superb	108	109	-	-0.4	G	G	G	G	P	P	F	G	VP	P	3	Y	2.6	-0.5	-7
AC Barrie	100	100	100	14.8	G	G	G	G	P	P	G	G	P	F	100	N	36.0	79.9	93

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

2008 Alberta Seed Guide – Canada Western Red Spring Wheat

Variety	Yield % of AC Barrie						Comparative Maturity (days)	Protein (%)	Test Weight (lb/bu)	Kernel Weight (g/1000)	Height (cm)	Resistance to:					Tolerance to:		
	Area 1	Area 2	Area 3	Area 4	Area 5&6	Irrigation						Lodging	Loose smut	Bunt	Common Root Rot	Stripe Rust	Leaf spot	Sprouting	FHB
Katepwa	102	98	95	100	100	100	0	-0.3	61	35	92	F	R	R	I	P	P	F	F
AC Elsa	101	109	100	104	107	90	0	-0.4	62	35	89	G	R	I	I	XX	G	F	P
AC Splendor	94	94	93	99	96	94	-3	0.4	61	38	90	F	I	I	I	F	F	F	P
CDC Teal	100	99	91	104	101	100	-2	-0.2	62	36	89	G	I	I	I	F	P	P	VP
McKenzie	107	103	101	103	102	109	-1	-0.9	62	34	89	F	S	R	I	P	F	EX	F
Superb	118	113	106	115	111	122	1	-0.4	62	42	84	G	I	R	I	P	P	G	P
AC Barrie	100	100	100	100	100	100	110	14.3	62	37	88	G	R	R	I	P	P	G	F

G=Good; VG=Very Good; F=Fair; P=Poor; VP=Very Poor; XX=Insufficient Test Data; EX=Excellent R=Resistant; I=Intermediate; S=Susceptible FHB=Fusarium Head Blight;