

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner



## AAC Ryley Canada Prairie Spring Red Wheat

### Description:

**AAC Ryley is an awned, early maturing CPS with high yield potential, improved protein and good disease resistance.** AAC Ryley should be an excellent replacement for AC Crystal. It is well adapted and will be especially attractive to wheat producers in the shorter season areas of the Prairies.

**Parentage:** AC Vista/Alsen//HY485

### Strengths:

- Grain yield 108% of 5700PR and 102% of 5701PR (average of all sites in 2009 to 2011 High Yield Wheat Registration trials)
- Early maturing, 2 days earlier than 5700PR
- Very large seed size
- Resistant to Leaf and Stem Rust and Bunt
- Improved protein over 5700PR and 5701PR

### Neutral Traits:

- Slightly weaker straw than 5700PR and 5701PR

### Weaknesses:

- MS rating to FHB
- 5 cm taller than 5700PR

### Breeders:

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Agriculture and Agri-Food Canada  
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### 2009-2011 High Yield Wheat Cooperative Trials - Registration Data

Variety	Yield (% of Mean of Checks)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/kl)	Kernel Weight (mg/kernel)	Grain Protein (%)	Falling Number	FHB Resistance Rating
5700 PR	97	111.8	1.5	79.7	78.0	39.3	12.4	353	MS
5701 PR	103	110.2	1.8	81.5	76.7	39.4	12.8	395	MS
<b>AAC Ryley</b>	<b>105</b>	<b>109.9</b>	<b>2.0</b>	<b>84.7</b>	<b>76.0</b>	<b>45.3</b>	<b>13.1</b>	<b>382</b>	<b>MS</b>

## 2018 Seed Manitoba – CPSR Wheat Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Maturity +/- 99 days	Height +/- 91cm	Spike Awned	Resistance to:								
							Lodging	Sprouting	Loose Smut	Bunt	Leaf Spot	Stem Rust	Leaf Rust	Stripe Rust	FHB
AC® Carberry	97	66	14.5	2	0	Y	VG	F	MR	R	MS	MR	R	MR	MR
AAC Foray VB	31	76	13.1	1	+5	Y	VG	P	MS	I	MS	MR	R	I	I
AAC Goodwin	20	74	14.3	2	0	Y	VG	---	MS	I	I	I	R	R	I
AAC Penhold	44	73	13.9	1	-10	Y	VG	VG	I	R	I	MR	R	MR	MR
5702PR	30	70	12.8	1	+3	Y	VG	P	MS	I	I	I	MR	MS	MS
SY Rowyn	20	74	13.4	1	-5	Y	VG	---	I	S	I	R	R	MR	MR
<b>AAC Ryley</b>	<b>30</b>	<b>70</b>	<b>13.0</b>	<b>1</b>	<b>+3</b>	<b>Y</b>	<b>G</b>	<b>G</b>	<b>I</b>	<b>R</b>	<b>MS</b>	<b>R</b>	<b>R</b>	<b>S</b>	<b>MS</b>

Lodging Ratings: F=Fair; G=Good; VG=Very Good

Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

## 2018 Varieties of Grain Crops for Saskatchewan – Wheat Comparison

Variety	Years Tested	Yield as % of Carberry			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® Carberry	6	100	100	---	14.6	VG	F	MR	R	MR	MR	R	MS	MR	99	Y	34.8	80.3	82
AAC Foray VB	5	116	121	---	-1.7	F	P	MR	R	I	MS	I	MS	I	0	Y	+7.6	-1.5	+6
AAC Goodwin	2	116	117	---	-0.5	G	G	I	R	R	R	MS	I	I	-1	Y	+1.2	+0.2	+1
AAC Penhold	5	108	111	---	-1.0	VG	VG	MR	R	MR	I	R	I	MR	-2	Y	+4.8	-0.1	-9
5700PR	5	107	113	106	---	VG	F	R	I	S	MS	R	MS	MS	-1	Y	+5.5	0.0	-4
SY Rowyn	1	103	107	---	-1.1	F	F	R	R	MR	I	S	I	MR	-1	Y	-4.4	-0.4	-5
<b>AAC Ryley</b>	<b>5</b>	<b>103</b>	<b>110</b>	---	<b>-1.2</b>	<b>P</b>	<b>G</b>	<b>R</b>	<b>R</b>	<b>S</b>	<b>I</b>	<b>R</b>	<b>MS</b>	<b>MS</b>	<b>-2</b>	<b>Y</b>	<b>+6.6</b>	<b>-4.7</b>	<b>+2</b>

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

## 2018 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															
<b>AC Barrie bu/ac</b>	<b>66</b>		<b>42</b>	<b>64</b>	<b>89</b>													
AC Barrie	100		100	100	100	M	13.8	63	40	90	G	G	MR	I	S	MS	I	
AC® Carberry	106+		107+	107+	104+	L	0	63	40	79	VG	F	MR	R	MR	MS	MR	
AAC Goodwin	123+	31	121+	126+	122+	M	-0.4	63	41	83	VG	G	MS	MS	R	I	I	
AAC Foray VB	128+	41	XX	130+	120+	M	-1.7	63	51	85	G	G	MS	I	MR	MS	I	
AAC Penhold	118+	58	113+	123+	118+	M	-1	63	45	71	VG	G	I	R	MR	I	MR	
5700PR	117+	117	XX	121+	113+	L	-1.9	62	42	75	VG	F	MS	R	MS	MS	MS	
<b>AAC Ryley</b>	<b>118+</b>	<b>37</b>	<b>XX</b>	<b>120+</b>	<b>114+</b>	<b>M</b>	<b>-0.6</b>	<b>60</b>	<b>48</b>	<b>82</b>	<b>G</b>	<b>G</b>	<b>I</b>	<b>R</b>	<b>S</b>	<b>MS</b>	<b>MS</b>	

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

Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible