

Technical Bulletin

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SeCan

Canada's Seed Partner

AC[®] Shaw VB Canada Western Red Spring Wheat



Description:

AC[®] Shaw VB is a midge tolerant, awnless, spring wheat with improved straw strength, improved sprouting tolerance and top yield potential. AC[®] Shaw VB has shown better midge tolerance than all other currently registered midge tolerant wheat varieties.

Certified seed of AC[®] Shaw VB will be sold as a varietal blend made up of 90% AC[®] Shaw and 10% AC Domain. Blending with the midge susceptible variety AC Domain provides a refuge area for non-virulent midge to survive at low levels, thereby extending the useful life of the *Sm1* midge tolerance gene.

Parentage: Harvest/BW313

Strengths:

- Up to 22% higher grain yield than AC Barrie in Coop registration trials and provincial trials
- Higher grain yield potential than AC[®] Unity VB
- High grain protein potential
- Good sprouting resistance (AC[®] Harvest parentage)
- Stronger straw than AC[®] Unity VB
- Better midge tolerance than AC[®] Unity VB
- Larger kernel size than AC[®] Unity VB

Neutral Traits:

- Test weight similar to AC[®] Unity VB

Weaknesses:

- 4 cm taller than AC[®] Unity VB
- "Poor" FHB resistance
- Extreme winds in September 2012 resulted in yield losses in several crops. In some areas where the crop was very ripe, the excessive wind resulted in losses due to head breakage, including AC[®] Shaw VB. AC[®] Shaw VB was tested in three years of Coop trials (2006-2008) and three years of Saskatchewan provincial tests (2009-2011) – **every single research trial was straight cut and no yield loss due to head breakage was reported.** AC[®] Shaw VB is a tall, upright variety, with strong straw. It is our opinion that with extreme wind and a dry mature crop, this may have resulted in the plants tearing against each other over an extended period, resulting in head breakage.
- **Our recommendation based on the wind storms experienced in 2012 - the plant structure can be prone to shattering or head breakage in extreme winds. If the plant stand is variable, swathing may be considered to reduce time to harvest.**

Breeder:

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

2006-2008 Central Bread Wheat Cooperative Trials - Registration Data

Variety	Yield (% AC 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	87	1.6	96	79	31.9	14.0	---	F
Katepwa	102	92	2.5	99	77	31.3	14.2	6.9	F
McKenzie	117	92	2.7	96	78	31.1	14.0	3.6	F
CDC Teal	109	92	2.0	94	77	31.8	14.7	5.1	VP
Superb	105	91	1.9	90	77	33.8	13.4	4.5	P
5603HR	117	94	2.5	97	78	31.5	14.3	3.7	F
AC [®] Unity VB*	121	93	2.8	96	78	32.5	14.3	4.2	P
AC[®] Shaw VB*	122	93	2.1	100	78	33.8	14.2	3.0	P

* Varietal Bend F=Fair; P=Poor; VP=Very Poor

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

2017 Seed Manitoba - Wheat Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Maturity +/- 99 days	Height +/- 91cm	Spike Awned	Resistance to:								
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf Spot	Stem Rust	Leaf Rust	Stripe Rust	FHB
AC Barrie	165	58	14.5	0	+13	N	G	G	MR	I	MS	MR	MS	S	I
AAC Jatheria VB*	33	69	14.4	1	+13	Y	G	G	S	MS	I	I	R	I	I
CDC Utmost VB*	38	63	14.6	-1	+10	N	G	G	MS	S	I	MR	R	I	MS
AC® Unity VB*	53	65	14.2	0	+13	Y	F	VG	MS	R	I	MR	R	MS	I
AC® Vesper VB*	40	65	14.5	0	+10	Y	F	F	I	S	I	MR	R	S	I
AC® Shaw VB*	40	63	14.2	0	+18	N	G	G	S	MR	MS	R	MR	I	MS

*Varietal Blend F=Fair; G=Good; VG=Very Good R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

2017 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	100	14.6	VG	F	MR	R	MR	MR	R	MS	MR	100	Y	34.5	79.0	83
AAC Jatheria VB*	3	110	117	---	-0.1	F	G	I	R	I	S	MS	I	I	-1	Y	+1.2	+0.8	+16
CDC Utmost VB*	6	108	112	107	-0.4	F	G	MR	R	I	MS	S	I	MS	-3	N	-0.1	-1.6	+12
AC® Unity VB*	6	107	113	---	-0.6	P	VG	MR	R	MS	MS	R	I	I	-2	Y	-1.7	+0.4	+14
AC® Vesper VB*	6	108	113	---	-0.7	P	F	MR	R	S	I	S	I	I	-3	Y	+1.8	-0.5	+13
AC® Shaw VB*	6	112	114	103	-0.7	F	G	R	MR	I	S	MR	MS	MS	-1	N	+0.5	-0.5	+20

*Varietal Blend G=Good; VG=Very Good; F=Fair; P=Poor; VP=Very Poor

2017 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:		Disease Resistance:				
	All Sites	Station years of testing	Low < 45 bu/ac	Med 45 - 70 bu/ac	High >70 bu/ac						Lodging	Sprouting	Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
Yield as % of AC Barrie																	
AC Barrie bu/ac	60		36	57	81												
AC Barrie	100		100	100	100	M	14	62	38	87	G	G	MR	I	S	MS	I
CDC Utmost VB*	112+	53	115+	112+	111+	M	-0.2	64	36	85	G	G	MS	S	I	I	MS
AC® Unity VB*	110+	71	111+	110+	111+	M	-0.7	64	36	89	G	G	MS	R	MS	MS	MS
AC® Vesper VB*	106+	45	106	108+	104	M	-1.5	63	37	90	F	F	I	S	S	I	I
AC® Shaw VB*	112+	53	116+	109+	113+	M	-0.9	63	37	92	G	G	S	MR	I	MS	MS

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