

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner



AC[®] Vesper VB Canada Western Red Spring Wheat

Description:

AC[®] Vesper VB is an awned, midge tolerant, CWRS variety with medium/tall straw and very high grain yield. AC[®] Vesper VB has shown good resistance to leaf and stem rust, and medium maturity equal to AC[®] Unity VB or McKenzie. AC[®] Vesper VB is well-adapted across the western Canadian Prairies.

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

Parentage:

Complex cross with AC Barrie and Superb in the background. The *SM1* gene was provided through a soft white winter wheat parent called Augusta.

Strengths:

- 104% of the grain yield of AC[®] Unity VB in registration trials
- Maturity similar to AC[®] Unity VB and AC Barrie
- Good resistance to stem and leaf rust

- Large kernel with very high test weight
- Improved lodging tolerance compared to AC[®] Unity VB

Neutral Traits:

- Grain protein potential similar to AC[®] Unity VB and AC Barrie
- Height similar to AC[®] Unity VB
- Intermediate resistance to fusarium head blight, similar to AC[®] Unity VB
- Intermediate resistance to Loose Smut

Weakness:

- Susceptible to common bunt
- Preharvest sprouting scores and falling number similar to Katepwa = fair
- Highly susceptible to stripe rust

Breeder:

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

2007-2009 Central Bread Wheat Cooperative Trials - Registration Data

Variety	Yield (% AC Unity VB)	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
Katepwa	85	97.5	2.5	100	76.4	32.1	14.0	6.4	I
McKenzie	95	98.3	2.7	96	77.7	31.7	13.9	5.2	I
CDC Teal	89	97.8	1.9	94	76.3	32.4	14.5	5.9	S
AC [®] Unity VB	100	98.8	2.7	96	78.7	32.9	14.0	4.4	I
5603HR	98	100.4	2.3	97	77.8	31.8	14.0	3.9	I
AC[®] Vesper VB	104	98.7	2.3	95	78.3	35.9	14.3	6.3	I

VB = varietal blend F=Fair; P=Poor; VP=Very Poor

'AC' is an official mark used under license from Agriculture & Agri-Food Canada

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® Shaw VB*	40	63	14.2	0	+18	N	G	G	S	MR	MS	R	MR	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

*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 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® 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® Shaw VB*	6	112	114	103	-0.7	F	G	R	MR	I	S	MR	MS	MS	-1	N	+0.5	-0.5	+20
AC® Vesper VB*	6	108	113	---	-0.7	P	F	MR	R	S	I	S	I	I	-3	Y	+1.8	-0.5	+13

*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® Shaw VB*	112+	53	116+	109+	113+	M	-0.9	63	37	92	G	G	S	MR	I	MS	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		

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

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