

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## AC® Sadash VB Soft White Spring Wheat



AC® Sadash VB is a high yielding and high quality, awned, soft white spring wheat.

In 2017 AC® Sadash was identified as containing the *Sm1* trait – meaning it is tolerant to wheat midge and requires the addition of a refuge (AC Andrew) and stewardship to protect the midge tolerance for the future.

Producers with farm saved seed from non-blended AC® Sadash (purchased prior to 2018) are asked to do one of three things:

- 1) Purchase seed of AC® Sadash VB (or any newer product with refuge added)
- 2) Add 1 bus of AC Andrew to every 9 bushels of AC® Sadash
- 3) Spray every year to control midge.

AC® Sadash VB was selected for grain yield similar to AC Andrew but in addition, has lower protein than AC Andrew. AC® Sadash VB is a semi-dwarf with short, strong straw. It was especially selected for production under irrigation in southern Alberta and

Saskatchewan to produce high quality, low protein wheat for the SWS milling market. The lower protein of AC® Sadash VB, along with its high grain yields, should make it very suitable for ethanol production.

### Observations on Soft White Spring Wheat:

- Varieties like AC® Sadash VB are thought to yield 25% to 30% more than AC® Carberry over the long term
- Soft White Spring wheat is one of the lowest protein wheat classes (usually 2 to 3% lower grain protein than CWRS)

### Major risks for dryland production of Soft White Spring Wheat in western Canada:

- Delayed maturity under cool growing conditions
- Late maturity combined with early fall frost
- Moderately susceptible to reduced yield and increased grain protein under drought stress conditions
- Pre-harvest sprouting under wet harvest conditions

### Breeder:

AAFC Lethbridge Research Centre, Lethbridge, AB

### 2012-2014 Western Soft White Spring Wheat Cooperative Registration Trials

Variety	Mean* (kg/ha)	% AC Andrew	Maturity* (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/hl)	Kernel Weight (mg/kernel)
AC Andrew	6772	100	105	2.5	92	76.4	38.0
AC® Sadash VB	6993	103	105	2.6	94	77.9	37.7

Variety	Leaf Rust	Stem Rust	Stripe Rust	Common Bunt	Loose Smut	Powdery Mildew	Black Point	Leaf Spot	FHB
AC Andrew	MS	MR	I	S	S	R	I	I	I
AC® Sadash VB	I	MR	R	S	I	R	I	I	S

For more information, call 1-800-665-7333 or visit [www.secan.com](http://www.secan.com)

## 2021 Seed Manitoba - Wheat Comparison

Variety	Site Years Tested	Yield bu/ac	Protein %	Maturity +/- 99 days	Height +/- 81cm	Spike Awned	Resistance to:								
							Lodging	Sprouting	Loose Smut	Bunt	Leaf Spot	Stem Rust	Leaf Rust	Stripe Rust	FHB
AAC Brandon	74	71	14.3	+2	0	Y	VG	P	MR	S	I	R	R	MR	MR
AAC Indus VB	33	80	11.0	+6	+5	Y	VG	P	S	MS	MS	S	I	R	MS
AAC Paramount VB	34	85	11.4	+4	+8	Y	VG	P	MR	S	---	I	I	R	MS
AC® Sadash VB	35	77	10.7	+4	+8	Y	VG	P	I	S	---	MR	I	R	S

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

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

## 2021 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	Irr.		Lodging	Sprouting	Stem Rust	Leaf Rust	Stripe Rust	Loose Smut	Bunt	Leaf Spot	FHB					
AC® Carberry	6	100	100	100	14.5	VG	F	MR	R	MR	MR	R	MS	MR	102	Y	35.8	80.3	83
AC Andrew	5	130	137	---	-3.2	VG	P	MR	MS	I	S	S	---	I	+1	Y	+0.6	-3.0	0
AAC Paramount VB	5	130	131	139	-3.4	VG	P	I	I	R	MR	S	---	MS	+1	Y	+1.4	-2.6	+7
AC® Sadash VB	5	137	139	---	-3.8	VG	P	MR	I	R	I	S	---	S	+1	Y	-0.3	-2.6	+3

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

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

## 2021 Alberta Seed Guide – SWS Wheat Comparison

Variety	Overall Station Years of Testing	Overall Yield	Yield as % of AC® Carberry			Maturity Rating Days +/- AC® Carberry	Protein %	Test Weight (lb/bu)	TSW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Disease Tolerance		
			Low <65 bu/ac	Med 65 - 100 bu/ac	High >100 bu/ac							Lodging	Sprouting	Bunt	Stripe Rust	FHB
<b>AC® Carberry (bu/ac)</b>		<b>73</b>	<b>43</b>	<b>67</b>	<b>93</b>											
AC® Carberry	82	100	100	100	100	104	14.0	63	40	85	Y	VG	F	R	MR	MR
AAC Indus VB	39	135	119	140	142	+2	-3.3	61	42	93	Y	VG	P	MS	R	MS
AAC Paramount VB	44	134	129	135	135	0	-3.0	61	41	89	Y	VG	P	S	R	MS
AC Andrew	180	131	124	130	135	+1	-3.1	62	40	85	Y	VG	P	S	I	I
<b>AC® Sadash VB</b>	<b>90</b>	<b>137</b>	<b>134</b>	<b>136</b>	<b>139</b>	<b>0</b>	<b>-3.2</b>	<b>63</b>	<b>40</b>	<b>88</b>	<b>Y</b>	<b>VG</b>	<b>P</b>	<b>S</b>	<b>R</b>	<b>S</b>

Ratings: 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

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