

# Technical Bulletin

Genes that fit *your* farm.



## AC Morgan

## White Hulled Milling / General Purpose Oat

AC Morgan is a very high yielding white hulled milling oat with excellent straw strength. In addition, AC Morgan also has excellent forage yield potential and nutrient composition. AC Morgan is susceptible to leaf rust and stem rust. AC Morgan is ideally suited to the lower rust risk areas of Alberta and northern Saskatchewan.

### Strengths:

- Excellent grain yield potential
- Most widely-grown oat variety in Alberta and Saskatchewan
- Very good lodging resistance
- High percentage of plump kernels, low percentage of thin kernels

### Neutral Traits:

- No longer a “preferred” milling oat due to lower Beta Glucan but still accepted.
- Medium maturity

### Weaknesses:

- Susceptible to leaf rust and stem rust

### Breeder:

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Lacombe Research Centre  
Agriculture and Agri-Food Canada  
Lacombe, AB

### 2017 Alberta Regional Silage Variety Trials

Variety	# of overall station years	Overall Yield (% of CDC Baler)	Yield Category (% of CDC Baler)			Nutritional Data (% of CDC Baler)					
			Low <8.0 t/ac	Medium 8.0-11.0 t/ac	High >11.0 t/ac	CP %	TDN %	Ca %	P %	K %	Mg %
CDC Baler (t/ac)		9.9	5.9	9.9	13.3	9.5	61.4	0.3	0.2	1.8	0.2
CDC Baler	39	100	100	100	100	100	100	100	100	100	100
CDC Haymaker	34	100	105	97	98	98	100	98	101	103	98
<b>AC Morgan</b>	<b>38</b>	<b>101</b>	<b>105</b>	<b>96</b>	<b>101</b>	<b>98</b>	<b>101</b>	<b>100</b>	<b>111</b>	<b>100</b>	<b>97</b>

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

## 2021 Seed Manitoba - Oat Comparison

Variety	Site Years Tested	Yield bu/ac	Maturity +/- 96 days	Height +/- 84cm	Test Wt. +/- 39.3lb/bu	% Hull	Hull Colour	Resistance to:				
								Lodging	Smut	Crown Rust	Stem Rust	BYD
AAC Douglas	16	159	-2	+3	-1.0	25.9	White	G	R	MR	I	I
CDC Norseman	31	151	-3	+5	-1.0	20.5	White	G	MS	MR	S	I
CDC Skye	16	145	-2	+11	0.5	19.6	White	G	R	R	S	---
ORe3541M	35	140	-2	-2	0.6	23.3	White	VG	R	R	S	MS
ORe3542M	35	143	-1	-2	-1.1	24.4	White	VG	R	R	S	S
Souris	60	141	-4	0	0.5	20.9	White	G	R	MS	MR	MS
Summit	72	148	0	-3	0.5	20.8	White	G	R	I	I	I
<b>AC Morgan</b>	<b>36</b>	<b>144</b>	<b>-1</b>	<b>+15</b>	<b>-1.0</b>	<b>25.2</b>	<b>White</b>	<b>G</b>	<b>I</b>	<b>S</b>	<b>S</b>	<b>MS</b>

M=Medium; L=Late; VL=Very Late G=Good; VG=Very Good; P=Poor; VP = Very Poor; F=Fair; R=Resistant; MR=Moderately resistant, I=Intermediate; MS=Moderately susceptible; S=Susceptible

## 2021 Saskatchewan Varieties of Grain - Oat Comparison

Variety	Years Tested	Yield % of CS Camden		Test Weight (g/0.5L)	% Hull	% Plump	Maturity Rating	Height (cm)	Resistance to:			
		Area 1 & 2	Area 3 & 4						Lodging	Stem Rust	Crown Rust	Smut
CS Camden	7	100	100	242	24.3	82	L	94	VG	S	MS	I
AAC Douglas	4	105	99	245	20.7	81	M	98	G	I	MR	R
CDC Norseman	7	95	95	241	20.0	81	M	102	G	S	MR	MS
CDC Skye	4	100	97	250	19.9	85	M	99	G	S	R	R
ORe3541M	7	94	90	257	21.5	90	L	93	VG	S	R	R
ORe3542M	7	97	92	247	22.5	95	L	93	VG	S	R	R
<b>AC Morgan</b>	<b>7</b>	<b>100</b>	<b>102</b>	<b>236</b>	<b>25.1</b>	<b>82</b>	<b>L</b>	<b>101</b>	<b>VG</b>	<b>S</b>	<b>S</b>	<b>I</b>

M=Medium; L=Late; VL=Very Late G=Good; VG=Very Good; P=Poor; VP = Very Poor; F=Fair; R=Resistant; MR=Moderately resistant, I=Intermediate; MS=Moderately susceptible; S=Susceptible

## 2021 Alberta Seed Guide - Oat Comparison

Variety	Overall Station Years of Testing	Overall Yield	Yield as % of CDC Dancer				Maturity (+/- CDC Dancer)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to Lodging	Tolerance to Smuts
			Low <70 bu/ac	Medium 70-100 bu/ac	High 100-130 bu/ac	Very High >130 bu/ac						
<b>CDC Dancer (bu/ac)</b>		<b>100</b>	<b>48</b>	<b>84</b>	<b>110</b>	<b>149</b>						
CDC Dancer	181	100	100	100	100	100	98	41	37	106	G	R
AAC Douglas	19	114	XX	XX	115	113	+2	41	42	101	G	R
CDC Norseman	27	101	XX	100	101	XX	0	41	38	107	G	MS
CDC Skye	19	110	XX	XX	106	109	+2	41	41	105	G	R
ORe3541M	35	103	XX	XX	107	102	+1	41	41	101	VG	R
ORe3542M	35	106	XX	XX	111	103	+2	40	42	99	VG	R
<b>AC Morgan</b>	<b>94</b>	<b>114</b>	<b>114</b>	<b>111</b>	<b>116</b>	<b>115</b>	<b>+3</b>	<b>41</b>	<b>41</b>	<b>103</b>	<b>VG</b>	<b>I</b>

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](http://www.secan.com)