

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## AC Morgan

## White Hull Milling Oat

### High yielding with excellent milling quality.

AC Morgan is a white hulled, conventional height, milling oat. It has high grain yield, very good lodging resistance and excellent milling quality. AC Morgan matures 1 day later than CDC Pacer on average and is similar to CDC Pacer in disease resistance. It is susceptible to crown and stem rust. It is moderately susceptible to smut as are CDC Pacer, Derby, Calibre, Cascade, AC Juniper and AC Mustang.

### Strengths:

- Higher yield than CDC Pacer and AC Medallion
- Most widely-grown milling quality oat variety in Saskatchewan and Alberta
- Excellent lodging resistance, better lodging resistance than CDC Pacer

- High percentage of plump kernels, low percentage of thin kernels
- Very good overall milling quality

### Neutral Traits:

- Plant height similar to CDC Pacer and AC Medallion (conventional height)

### Weaknesses:

- Matures 1 day later than CDC Pacer
- Susceptible to leaf rust and stem rust

### Breeder:

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### 1997-98 Western Cooperative Oat Test

Entry	Yield (%)	Maturity (days)	Lodging 1=best 9=flat	Height (cm)	Test Weight (kg/hl)	% Plump Kernels	% Thin Kernels	Stem Rust	Leaf Rust	Smut
AC Medallion	100	95.9	4.8	104	49.0	65.6	2.5	VG	VG	VG
CDC Pacer	102	93.5	3.9	104	48.7	50.6	3.0	VP	VP	F
<b>AC Morgan</b>	<b>104</b>	<b>94.9</b>	<b>2.4</b>	<b>104</b>	<b>48.2</b>	<b>58.8</b>	<b>2.7</b>	<b>VP</b>	<b>VP</b>	<b>F</b>

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

## 2011 Alberta Seed Guide - Oat Comparison

Variety	Yield as % of CDC Dancer					Maturity Rating	Test Weight (lb/bu)	Kernel Weight (g/1000)	Resistance to:	
	Low <70 bu/ac	Medium 70 to 100 bu/ac	High 100 to 130 bu/ac	Very High >130 bu/ac	All Sites				Lodging	Smuts
CDC Dancer	100	100	100	100	100	e	41	37	G	VG
Cascade	113+	111+	111+	110+	112+	M	40	40	VG	P
CDC Boyer	103	96	95-	99	99	M	39	48	G	VP
Derby	108	101	97	99	101	L	41	39	G	P
Ronald	98	95	98	95	97-	M	42	36	VG	VG
AC <sup>®</sup> Jordan	112+	110+	118+	XX	112+	vl	38	44	G	VG
<b>AC Morgan</b>	<b>113+</b>	<b>111+</b>	<b>111+</b>	<b>110+</b>	<b>112+</b>	<b>M</b>	<b>40</b>	<b>40</b>	<b>VG</b>	<b>P</b>

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

## 2011 Saskatchewan Varieties of Grain - Oat Comparison

Variety	Yield % of CDC Dancer		Test Weight (g/0.5L)	% Hull	% Plump	Maturity Rating	Resistance to:			
	Area 1 & 2	Area 3 & 4					Lodging	Stem Rust	Leaf Rust	Smut
CDC Dancer	100	100	253	19.8	70	M	G	F	F	VG
Pinnacle	113	109	244	23.6	70	VL	F	F	P	VG
Ronald	96	99	249	22.4	55	L	VG	F	P	VG
AC <sup>®</sup> Jordan	110	118	238	22.4	76	VL	G	F	F	VG
<b>AC Morgan</b>	<b>104</b>	<b>108</b>	<b>236</b>	<b>25.1</b>	<b>54</b>	<b>L</b>	<b>VG</b>	<b>VP</b>	<b>VP</b>	<b>F</b>

M=Medium; L=Late; VL=Very Late G=Good; VG=Very Good; P=Poor; VP = Very Poor; F=Fair

## 2011 Seed Manitoba - Oat Comparison

Variety	Long Term Average Yield (% of Leggett)	Relative Maturity (Days)	Height inches	% Hull	Hull Colour	Test Wt. lb/bu	Resistance to:					% Grain Protein
							Lodging	Stem Rust	Crown Rust	Smut	BYDV	
Leggett	100	96	33	23.0	White	39.3	G	I	R	R	MS	12.7
AC Assiniboia	87	-1	5	23.1	Tan	-1.0	VG	I	S	R	I	-1.2
CDC Dancer	90	-3	5	19.6	White	0.5	G	I	I	R	MS	-0.7
Pinnacle	107	3	4	23.7	White	-1.2	G	I	S	R	MS	-1.8
Ronald	87	0	1	22.1	White	0	VG	I	S	R	MR	-1.1
AC <sup>®</sup> Jordan	101	2	3	23.6	White	-2	VG	I	I	R	MR	-2.1
<b>AC Morgan</b>	<b>94</b>	<b>-1</b>	<b>6</b>	<b>25.2</b>	<b>White</b>	<b>-1.0</b>	<b>G</b>	<b>S</b>	<b>S</b>	<b>I</b>	<b>MS</b>	<b>-1.6</b>

M=Medium; L=Late; VL=Very Late G=Good; VG=Very Good; P=Poor; VP = Very Poor; F=Fair