

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
- **Highest yielding milling quality variety with medium maturity in 2003 Saskatchewan and Alberta seed guides**

- 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 Wt. (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
AC Morgan	104	94.9	2.4	104	48.2	58.8	2.7	VP	VP	F

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

2003 Saskatchewan Varieties of Grain - Oat Comparison

Variety	Yield As % of Calibre				Test Weight (g/0.5L)	% Hull	% Plump	Maturity Rating	Resistance to:			
	Area 1	Area 2	Area 3	Area 4					Lodging	Stem Rust	Leaf Rust	Smut
Calibre	100	100	100	100	250	22.9	44	M	G	VP	VP	P
CDC Pacer	101	109	108	103	245	23.7	71	M	G	VP	VP	F
CDC Dancer	99	103	100	100	257	19.2	80	M	G	VG	VP	VG
Ronald	91	99	98	100	253	21.8	62	L	VG	VG	VG	VG
Kaufmann	93	98	97	90	250	22.1	85	L	F	VG	VG	VG
AC Morgan	102	112	110	111	242	24.2	63	M	VG	VP	VP	F

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

2003 Alberta Seed Guide - Oat Comparison

Variety	Yield as % of Cascade						Comp Mat (Days)	Test Wt. (lb/bu)	Kernel Wt. (g/1000 kernels)	Resistance to:		
	Irr 1&2	Area 1	Area 2	Area 3	Area 4	Area 5&6				Lodging	Shattering	Smuts
Cascade	100	100	100	100	100	100	100	38	36	G	G	S
AC Medallion	XX	102	103	96	97	95	3	38	39	F	XX	R
Calibre	99	107	102	98	95	100	1	40	37	F	G	S
CDC Boyer	100	97	106	97	98	98	0	38	39	G	G	S
CDC Pacer	XX	107	108	103	103	101	2	39	40	F	G	I
Derby	107	104	103	100	97	99	1	40	39	G	G	S
Ronald	XX	88*	96	95	82	92	2	39	35	VG	XX	R
Kaufmann	XX	XX	93*	90*	83*	91	4	39	34	G	XX	R
AC Morgan	XX	109	118	113	105	105	2	38	39	VG	XX	I

VG=Very Good; G=Good; F=Fair; P=Poor; VP=Very Poor R=Resistant; I=Intermediate; S=Susceptible

* Denotes limited yield data in this area