

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## CDC Norseman White Hulled Milling Oat



Progress Through Research  
Le progrès grâce à la recherche

CDC Norseman is a white hulled oat with high grain yield potential, high  $\beta$ -Glucan, low oil content, high groat yield and earlier maturity. CDC Norseman is moderately resistant to crown rust and has improved BYDV resistance compared to the checks. CDC Norseman is well-suited for production across all of western Canada.

### Strengths:

- High grain yield, +12% CDC Dancer and +3% AC Morgan in registration trials
- 2 days earlier maturity than AC Morgan, equal to CDC Dancer
- Very good groat percentage +70%, similar to CDC Dancer in registration trials
- High  $\beta$ -Glucan content similar to Leggett
- Low oil content, less than the checks
- Improved BYDV resistance compared to the checks

### Neutral Traits:

- Plant height similar to AC Morgan
- Straw strength similar to CDC Dancer, slightly weaker than AC Morgan
- Straw height 1cm shorter than CDC Dancer and 1 cm taller than AC Morgan
- Test weight and kernel weight similar to AC Morgan

### Weaknesses:

- Slightly higher % thins than the checks
- Susceptible to smut and stem rust

### Breeder:

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**PBR 91 Protected**

### 2012-13 Western Cooperative Oat Test

Entry	Yield as % CDC Dancer	Maturity (days)	Lodging 1=best 9=flat	Height (cm)	Test Weight (kg/hl)	% Plump Kernels	% Thin Kernels	% Groat	Resistance to:		
									Stem Rust	Crown Rust	Smut
CDC Dancer	100	94.1	2.9	109.4	54.6	84.2	4.9	71.1	I	I	R
AC Morgan	109	97.5	2.2	107.2	51.9	77.4	5.8	64.3	S	S	I
Leggett	103	97.6	2.9	103.2	54.4	81.0	4.6	68.2	I	R	R
<b>CDC Norseman</b>	<b>112</b>	<b>94.4</b>	<b>2.8</b>	<b>108.2</b>	<b>52.0</b>	<b>79.3</b>	<b>6.6</b>	<b>70.7</b>	<b>S</b>	<b>MR</b>	<b>MS</b>

MR=Moderately Resistant; MS=Moderately Susceptible; S=Susceptible; R=Resistant

## 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
AC Morgan	36	144	-1	+15	-1.0	25.2	White	G	I	S	S	MS
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>CDC Norseman</b>	<b>31</b>	<b>151</b>	<b>-3</b>	<b>+5</b>	<b>-1.0</b>	<b>20.5</b>	<b>White</b>	<b>G</b>	<b>MS</b>	<b>MR</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 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
AC Morgan	7	100	102	236	25.1	82	L	101	VG	S	S	I
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>CDC Norseman</b>	<b>7</b>	<b>95</b>	<b>95</b>	<b>241</b>	<b>20.0</b>	<b>81</b>	<b>M</b>	<b>102</b>	<b>G</b>	<b>S</b>	<b>MR</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 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
AC Morgan	94	114	114	111	116	115	+3	41	41	103	VG	I
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>CDC Norseman</b>	<b>27</b>	<b>101</b>	<b>XX</b>	<b>100</b>	<b>101</b>	<b>XX</b>	<b>0</b>	<b>41</b>	<b>38</b>	<b>107</b>	<b>G</b>	<b>MS</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)