

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## AC<sup>®</sup> Stride White Hull Milling Oat



AC<sup>®</sup> Stride is a crown rust resistant line with superior yielding capacity in western Canada. It has good physical and nutritional quality traits that could be utilized in several end uses.

### Strengths:

- Resistant to most of the prevalent races of oat crown rust
- High yielding capacity in a disease resistant line
- High test weight, similar to Leggett
- High protein content
- High beta-glucan and TDF
- Resistant to smut
- Moderately resistant to FHB, shown by lower content of DON in 2009 & 2010

### Neutral Traits:

- Lodging resistance is as good as CDC Dancer and Leggett

### Weaknesses:

- Higher oil content than the checks
- Intermediate to susceptible reaction to BYDV
- Later maturity than CDC Dancer
- Slightly lower % plumps and % groat than CDC Dancer

### Breeder:

Dr. Jennifer Mitchell-Fetch  
Agriculture and Agri-food Canada  
Brandon Research Centre

### 2009-10 Western Cooperative Oat Test

Entry	Yield (% Leggett)	Maturity (days)	Lodging 1=best 9=flat	Height (cm)	Test Weight (kg/hl)	% Plump Kernels	% Thin Kernels	Resistance to:		
								Stem Rust	Crown Rust	Smut
Leggett	100	103	1.9	100.6	52.5	84.6	3.4	MR	R	R
CDC Dancer	99	107.2	2.3	107.2	52.9	89.2	2.8	I	I	R
Morgan	107	104.8	1.6	104.8	50.5	85.1	5.0	S	S	I
<b>AC<sup>®</sup> Stride</b>	<b>107</b>	<b>107.1</b>	<b>2.1</b>	<b>107.1</b>	<b>53.3</b>	<b>82.6</b>	<b>5.2</b>	<b>MS</b>	<b>R</b>	<b>R</b>

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

## 2015 Seed Manitoba - Oat Comparison

Variety	Years Tested	Yield bu/ac	Maturity +/- 99 days	Height +/- 33"	Test Wt. +/- 39.3lb/bu	% Hull	Hull Colour	Resistance to:				
								Lodging	Smut	Crown Rust	Stem Rust	BYDV
Leggett	116	136	0	0	0	23.0	White	G	R	R	I	MS
CDC Dancer	60	128	-3	5	0.5	19.6	White	G	R	I	I	MS
Pinnacle	68	145	3	4	-1.2	23.7	White	G	R	S	I	MS
Ronald	84	128	0	1	0	22.1	White	VG	R	S	I	MR
AC <sup>®</sup> Jordan	51	138	2	3	-2	23.6	Gold	VG	R	I	I	MR
CDC Big Brown	29	135	-1	1	0	20.4	Tan	G	R	R	MS	MS
<b>AC<sup>®</sup> Stride</b>	<b>36</b>	<b>134</b>	<b>-2</b>	<b>5</b>	<b>0.6</b>	<b>23.7</b>	<b>White</b>	<b>VG</b>	<b>R</b>	<b>R</b>	<b>I</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

## 2015 Saskatchewan Varieties of Grain - Oat Comparison

Variety	Yield % of CDC Dancer		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
CDC Dancer	100	100	253	19.8	86	M	103	G	F	F	VG
AC Morgan	104	108	236	25.1	82	L	101	VG	VP	VP	F
Pinnacle	113	109	244	23.6	89	VL	101	F	F	P	VG
AC <sup>®</sup> Jordan	110	118	238	22.4	93	VL	102	G	F	F	VG
AC <sup>®</sup> Bradley	105	102	240	21.7	81	L	103	VG	P	P	VG
<b>AC<sup>®</sup> Stride</b>	<b>111</b>	<b>109</b>	<b>255</b>	<b>22.9</b>	<b>80</b>	<b>L</b>	<b>103</b>	<b>G</b>	<b>F</b>	<b>VG</b>	<b>VG</b>

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

## 2015 Alberta Seed Guide - Oat Comparison

Variety	Overall Station Years of Testing	Overall Yield	Yield as % of CDC Dancer				Comp Mat (Days)	Test Weight (lb/bu)	Kernel Weight (g/1000)	Height (cm)	Resistance to:	
			Low <70 bu/ac	Medium 70-100 bu/ac	High 100 to 130 bu/ac	Very High >130 bu/ac					Lodging	Smuts
<b>CDC Dancer (bu/ac)</b>		93	50	84	113	146						
CDC Dancer	126	100	100	100	100	100	E	41	37	94	G R	
AC Morgan	95	111+	110+	110+	111+	115+	M	40	40	92	VG I	
AC <sup>®</sup> Jordan	36	112+	112+	109+	117+	XX	VL	38	44	87	G R	
AC <sup>®</sup> Bradley	31	104+	XX	103	108	106	M	39	39	92	VG R	
<b>AC<sup>®</sup> Stride</b>	<b>30</b>	<b>104+</b>	<b>101</b>	<b>102</b>	<b>107</b>	<b>106</b>	<b>M</b>	<b>42</b>	<b>35</b>	<b>104</b>	<b>G R</b>	

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