

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner



## Moats

### Canada Western Red Winter Wheat

#### Description:

**Moats is a CWRW variety with high yield and protein potential, as well as an excellent disease package.** Moats combines good stripe, stem and leaf rust resistance in a variety very similar to CDC Buteo in agronomic performance. Moats is well adapted to all areas of the western Canadian Prairies.

#### Parentage:

McClintock/CDC Falcon

#### Strengths:

- 106% of CDC Buteo in registration trials
- Select class CWRW with improved protein potential
- Good resistance to stripe, stem and leaf rust
- Improved bunt tolerance compared to the checks in registration trials

#### Neutral Traits:

- Similar height to CDC Buteo
- Medium maturity similar to CDC Buteo

#### Weakness:

- Lodging tolerance similar to CDC Buteo

#### Breeder:

Dr. Brian Fowler  
University of Saskatchewan  
Saskatoon, SK

#### 2008-2009 Western Winter Wheat Cooperative Registration Trial Data

Variety	Yield (% CDC Buteo)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Grain Protein (%)
CDC Buteo	100%	218	3.1	84	12.6
<b>Moats</b>	<b>106%</b>	<b>217</b>	<b>3.3</b>	<b>86</b>	<b>12.7</b>

#### 2007-2009 Western Winter Wheat Cooperative Registration Trial Data

Variety	Yield (% CDC Falcon)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Grain Protein (%)
Accipiter	103%	215	2.2	82	12.1
CDC Falcon	100%	213	2.0	75	12.4
Peregrine	103%	214	3.8	97	11.7
<b>Moats</b>	<b>101%</b>	<b>213</b>	<b>3.2</b>	<b>90</b>	<b>12.5</b>

### 2013 Seed Manitoba- Winter Wheat Comparison

Variety	Long Term Average Yield bu/ac	Site Years Tested	Protein %	Height +/- 26 inches	Relative Maturity	Relative Winter Hardiness	Resistance to:				
							Lodging	Common Bunt	Stem Rust	Leaf Rust	FHB
CDC Buteo	79	87	11.2	4	M	VG	G	S	I	I	MR
CDC Falcon *	78	90	11.2	0	E	F	VG	S	MR	MR	S
AC® Flourish	80	17	11.4	2	E	F	VG	MR	I	I	S
McClintock	78	80	11.4	7	L	F	VG	S	R	MR	S
<b>Moats</b>	<b>80</b>	<b>18</b>	<b>11.5</b>	<b>6</b>	<b>E</b>	<b>G</b>	<b>G</b>	<b>MS</b>	<b>R</b>	<b>R</b>	<b>S</b>

F=Fair; G=Good; VG=Very Good; R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

\*CDC Falcon will be moving to the Canada Western General Purpose class in August 2014

### 2013 Varieties of Grain Crops for Saskatchewan - Winter Wheat Comparison

Variety	Site Years Tested	Yield as % of CDC Buteo				Protein Content (%)	Resistance to:						Relative Maturity	Height (cm)	
		Low Moisture		High Moisture			Lodging	Winter Survival	Stem Rust	Leaf Rust	Stripe Rust	Bunt			FHB
CDC Buteo (bu/ac)		40	60	80	100	12.4	G	VG	G	G	VP	VP	G	M	88
AC® Flourish	60	103	102	100	99	+0.3	VG	F	F	F	F	VP	VP	E	-10
CDC Falcon*	369	103	102	102	102	-0.6	VG	F	G	G	VP	VP	VP	E	-15
McClintock	219	100	98	98	98	-0.2	VG	F	VG	G	G	VP	VP	L	+3
Radiant	145	105	103	101	100	-0.3	VG	VG	VP	VP	P	VP	VP	L	-1
<b>Moats</b>	<b>74</b>	<b>98</b>	<b>102</b>	<b>104</b>	<b>104</b>	<b>+0.2</b>	<b>G</b>	<b>G</b>	<b>VG</b>	<b>VG</b>	<b>G</b>	<b>P</b>	<b>VP</b>	<b>M</b>	<b>+1</b>

F=Fair; G=Good; VG=Very Good; R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

\*CDC Falcon will be moving to the Canada Western General Purpose class in August 2014

### 2013 Alberta Seed Guide - CWRW Wheat Comparison

Variety	Overall Yield (% CDC Osprey)		Yield Test Category (% CDC Osprey)				Winter Survival	Relative Maturity	Protein	Height (cm)	Lodging Resistance	Disease Resistance				
	All Sites	Station years of testing	Low < 45 bu/ac	Med 45-75 bu/ac	High 75-105 bu/ac	Very High >105 bu/ac						Bunt	Stripe Rust	Leaf Rust	Stem Rust	FHB
<b>CDC Osprey bu/ac</b>	<b>76</b>		<b>35</b>	<b>62</b>	<b>86</b>	<b>118</b>										
CDC Osprey	100	(236)	100	100	100	100	VG	M	12.2	90	G	VP	VP	P	P	P
AC® Flourish	100	(56)	XX	102	98	XX	F	E	+0.5	78	VG	F	F	F	F	VP
CDC Buteo	99	(117)	102	100	97	101	VG	M	+0.2	88	F	VP	VP	G	G	G
CDC Falcon*	102+	(177)	94	104+	102	103	F	E	-0.4	73	VG	VP	VP	G	G	VP
McClintock	96-	(78)	89	97	95	100	F	L	0.0	91	VG	VP	G	G	VG	VP
Radiant	103+	(171)	105	102	103+	100	VG	L	-0.1	87	VG	VP	P	VP	VP	VP
<b>Moats</b>	<b>104</b>	<b>(21)</b>	<b>XX</b>	<b>107</b>	<b>104</b>	<b>XX</b>	<b>G</b>	<b>M</b>	<b>+0.4</b>	<b>89</b>	<b>G</b>	<b>P</b>	<b>G</b>	<b>VG</b>	<b>VG</b>	<b>VP</b>

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

\*CDC Falcon will be moving to the Canada Western General Purpose class in August 2014

For more information, call 1-800-665-7333 or visit [www.secan.com](http://www.secan.com)