

Technical Bulletin

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Canada's Seed Partner



AC[®] Flourish Canada Western Red Winter Wheat

Description:

AC[®] Flourish is eligible for the Canada Western Red Winter class due to its high grain protein and improved baking quality. This variety has short strong straw, high yield potential, early maturity, and good disease resistance. AC[®] Flourish has shown good resistance to leaf and stem rust, along with resistance to common bunt. AC[®] Flourish is well adapted across the western Canadian Prairies.

In the rust area of the Prairies, AC[®] Flourish has shown higher yield than the leading cultivar, CDC Falcon, with improved grain protein content and quality.

Within the CWRW class, AC[®] Flourish will be a replacement for CDC Falcon in Manitoba and eastern Saskatchewan. By 2014, CDC Falcon will no longer be eligible for the CWRW class.

Parentage:

93CBWA1-12/Blizzard/CDC Kestrel/3/CDC Falcon

Strengths:

- Short strong straw
- Eligible for the Canada Western Red Winter class (formerly called CWRW "Select" class)
- Early maturity, similar to CDC Falcon
- Good resistance to stem and leaf rust
- Good resistance to common bunt

Neutral Traits:

- Stem and leaf rust resistance slightly inferior to CDC Falcon
- Slightly taller, (+4 cm) than CDC Falcon

Weakness:

- Susceptible to fusarium head blight similar to CDC Falcon
- Slightly lower winter survival rating compared to the mean of the checks - similar to CDC Falcon

Breeder:

Dr. R. J. Graf
Agriculture and Agri-Food Canada
Lethbridge, AB

2007-2009 Western Winter Wheat Cooperative Registration Trial Data

Variety	Yield (% CDC Falcon) Eastern Prairie Average	Yield (% CDC Falcon) Prairie Wide Average	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	Test Weight (kg/hl)	Kernel Weight (mg/kernel)	Grain Protein (%)	Winter Survival (%)
CDC Osprey	101	99%	216	3.7	92	78.4	30.9	12.0	85
Radiant	96	98%	220	2.5	89	78.8	34.3	11.9	84
CDC Falcon	100	100%	215	2.9	75	78.7	30.3	11.3	84
AC[®] Flourish	105	98%	215	2.6	79	78.6	34.6	12.4	83

F=Fair; P=Poor; VP=Very Poor

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For more information, call 1-800-665-7333 or visit www.secan.com

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2012 Seed Manitoba- Winter Wheat Comparison

Variety	Long Term Average Yield (% CDC Falcon)	Site Years Tested	Protein (+/- % CDC Falcon)	Relative Maturity (+/- days CDC Falcon)	Height	Relative Winter Hardiness	Resistance to:			
							Lodging	Stem Rust	Leaf Rust	FHB
CDC Falcon	100	85	11.1	0	26"	F	VG	MR	MR	S
CDC Buteo	100	73	-0.1	4	4	VG	G	I	I	MR
McClintock	98	69	0.2	5	7	F	VG	R	MR	S
Moats	103	16	0.4	0	6	G	G	R	R	S
AC® Flourish	102	16	0.2	0	2	F	VG	I	I	S

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

2012 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 Damage	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
CDC Falcon	212	105	103	102	102	-0.6	VG	F	G	G	VP	VP	VP	E	-15
McClintock	150	105	100	99	97	-0.2	G	F	VG	G	G	VP	VP	L	+3
Moats	19	105	105	104	103	+0.2	G	G	VG	VG	G	P	--	M	+1
Radiant	76	102	102	102	102	-0.3	VG	VG	VP	VP	P	P	VP	L	-1
AC® Flourish	62	98	99	101	102	+0.3	VG	F	F	F	F	F	VP	E	-10

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2012 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
CDC Osprey bu/ac	76		35	62	869	118										
CDC Osprey	100	(222)	100	100	100	100	VG	M	12.2	90	G	VP	VP	P	P	P
CDC Buteo	99	(103)	102	99	97	101	VG	M	+0.2	88	F	VP	VP	G	G	G
CDC Falcon	102	(163)	94	103	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
Moats	108	(12)	XX	XX	108	XX	G	M	+0.4	89	G	P	G	G	VG	XX
Radiant	102+	(157)	105	101	103+	100	VG	L	-0.1	87	VG	P	P	VP	VP	VP
AC® Flourish	100	(47)	XX	103	97	XX	F	E	+0.5	78	VG	F	F	F	F	VP

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

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