



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada



2006 Crop Variety Highlights and Insect Pest Updates

Regional Testing of Cereal, Oilseed and Pulse Cultivars 2006
S.J. Dueck and C.L. Vera

Cultivars are tested regionally to determine their adaptation to the wide range of soil and climatic conditions in Saskatchewan. These tests are conducted at approximately 12 locations each year including three by Scott Research Farm staff (Scott, Lashburn and Loon Lake) and one at the Melfort Research Farm. Results form the basis of cultivar recommendations – yield data can help producers assess the performance of varieties in their area. However, data from a single location can be limited, particularly for new varieties. More comprehensive information is contained in the Saskatchewan Agriculture and Food publication, *Varieties of Grain Crops 2007*. Seed quantities for new varieties listed herein may be limited for 2007.

		<u>Page No.</u>
Table 1:	Growing Season Precipitation	1
Table 2:	Yield of Spring Wheat Cultivars	2
Table 3:	Yield of Durum Cultivars	2
Table 4:	Yield of Oat Cultivars	2
Table 5:	Yield of Barley Cultivars	3
Table 6:	Yield of Flax Cultivars	3
Table 7:	Yield of Lentil Cultivars	4
Table 8:	Yield of Pea Cultivars	5
Table 9:	Yield of Canola Cultivars	6

Table 1. Growing Season Precipitation (mm) at Scott, Lashburn, Loon Lake and Melfort in 2006

Month	Scott	Lashburn	Loon Lake	Melfort
May	63	74	n/a	61

June	46	48		74
July	35	n/a		39
Total	144			174
Long Term Average	158	188	180	187

Table 2. Yield of Spring Wheat Cultivars at Scott, Lashburn, Loon Lake and Melfort

Cultivar	2006 Yield (kg/ha)				Long Term Average Yield (% of AC Barrie)			
	Scott	Lash- burn	Loon Lake	Melfort	Scott	Lash- burn	Loon Lake	Melfort
AC Barrie	Test Failed Due to Hail	3660	1270	4488	100	100	100	100
5602HR		3760	1910	4392	90	100	108	98
CDC Alsask		3990	1180	4423	101 *	106	95	101
Infinity		3190	1140	4279	115	109	99	99
Somerset		3420	1000	4004	112	107	90	93
Kane		3470	1640	3865	---	95 *	129 *	86 *
Snowwhite 475+		3690	2100	5181	120 *	119	126	106
Snowwhite 476+		4010	1780	4484	147 *	114	113	103

* Less than 3 years of data, + CPS White Wheat

Table 3. Yield of Durum Cultivars at Scott, Lashburn and Melfort

Cultivar	2006 Yield (kg/ha)			Long Term Average Yield (% of AC Avonlea)		
	Scott	Lash- burn	Melfort	Scott	Lash- burn	Melfort
AC Avonlea	HAIL	3590	4434	100	100	100
AC Navigator		---	---	101	91	90
Commander		3350	4384	119	112	102
Strongfield		3650	4868	103	107	101

* Less than 3 years of data

Table 4. Yield of Oat Cultivars at Scott, Lashburn and Melfort

Cultivar	2006 Yield (kg/ha)			Long Term Average Yield (% of Calibre)		
	Scott	Lash- burn	Melfort	Scott	Lash- burn	Melfort
Calibre	Lost to Hail	6770	5579	100	100	100
AC Morgan		7660	5990	111	113	125
SW Betania		6500	6049	110 *	101 *	142 *

Jordan	7150	6009	130 *	109 *	144 *
CDC Sol Fi	6210	4634	96 *	93 *	93
Leggett	6530	5127	101 *	98 *	114
CDC Weaver	7340	4935	101 *	107 *	109
Hi Fi	6300	5579	---	93 *	100 *

* Less than 3 years of data

Table 5. Yield of Barley Cultivars at Scott, Lashburn, Loon Lake and Melfort

Cultivar	2006 Yield (kg/ha)				Long Term Average Yield (% of AC Metcalf)				
	Scott	Lash- burn	Loon Lake	Melfort	Scott	Lash- burn	Loon Lake	Melfort	
TWO ROW									
AC Metcalfe		4810	2980	5021	100	100	100	100	
CDC Cowboy	Test Failed Due to Hail	4370	2940	5042	---	101 *	99 *	103 *	
Conlon		4160	2750	5298	---	95 *	92 *	97 *	
Formosa		5000	2980	5690		104 *	100 *	113 *	
McLeod		4760	2960	6226	106 *	104 *	100 *	116	
Ponoka		5100	3550	5968	110 *	110 *	119 *	118	
CDC Coalition		4750	3330	6041	---	99 *	112 *	120 *	
SIX ROW									
Manny		5280	3080	5064	98 *	112 *	106 *	107	
CDC Laurence		5180	3300	5537	---	109 *	106 *	102 *	
CDC Clyde		5240	2860	5408	---	104 *	94 *	103 *	
Sundre		5330	3270	5955	---	111 *	110 *	117 *	

* Less than 3 years of data

Table 6. Yield of Flax Cultivars at Scott, Lashburn and Melfort

Cultivar	2006 Yield (kg/ha)			Long Term Average Yield (% of CDC Bethune)		
	Scott	Lashburn	Melfort	Scott	Lashburn	Melfort
CDC Bethune	Test	Test	2098	100	100	100
CDC Mons	Failed	Failed	---	94 *	106 *	102
CDC Sorrel	Due		2104	100	---	104 *
Prairie Blue	To		---	90	109 *	100
	Hail					
SOLIN						
CDC Gold			---	75	96 *	80
2090			2185	91	106 *	107
2149			2049	76 *	---	95 *

* Less than 3 years of data

Table 7. Yield of Lentil Cultivars at Scott, Lashburn and Melfort

Cultivar	2006 Yield (kg/ha)			Long Term Average Yield (% of Laird)		
	Scott	Lashburn	Melfort	Scott	Lashburn	Melfort
Large Green						
Laird		1100	1758	100	100	100
CDC Grandora		1040	2318	103	109	123
CDC Greenland		1370		---	124 *	144
CDC Improve		1460		---	132 *	123 *
CDC Plato		1590	3043	125	134	144
CDC Sedley		1540	2013	99	111	120
CDC Sovereign		1630	2096	105	123	124
Medium Green						
CDC Meteor		1750	2549	116 *	148 *	181
CDC Richlea		1710	2407	126	134	127
Small Green						
CDC Milestone		1590	1970	126	135	142
CDC Viceroy		2280	2858	127	153	184
Eston		1540	2086	111	117	133
Small Red						
CDC Blaze		1230	1640	108	104	131
CDC Impact		1360	1797	---	123 *	95 *
CDC Redberry		1840	2206	122 *	142	205
CDC Rouleau		2070	2460	98 *	167 *	155
CDC Robin		1790	2741	115	116	144
CDC Rosetown		1650	2629	---	150 *	183
CDC Imperial		1600	1886	---	145 *	111 *

Test Failed Due to Hail

* Less than 3 years of data

Table 8. Yield of Pea Cultivars at Scott, Lashburn and Melfort

Cultivar	2006 Yield (kg/ha)			Long Term Average Yield (% of Cutlass)		
	Scott	Lash- burn	Melfort	Scott	Lash- burn	Melfort
Yellow						
Cutlass		2880	3002	100	100	100
Alfetta		3630	2862	125	114	90
Canstar		3320	3233	---	116 *	108 *
CDC Mozart		3060	4015	132	99	109
Eclipse		2840	3205	127 *	104	95
Fusion		3040	2938	---	106 *	99 *
Polstead		3550	3917	---	123 *	130 *
Reward		3090	3647	---	107 *	121 *
SW Benefit		2420	2698	---	84 *	90 *
SW Carousel		3890	3500	136 *	131	118
SW Cartier		3440	3671	---	120 *	122 *
SW Marquee		2860	2957	---	101 *	109 *
SW Midas		3250	2785	122 *	105	99
Tudor		2790	3492	---	97 *	111
Green						
Bluebird		2340	2677	---	81 *	88 *
Camry		3200	2652	118 *	100	102
CDC Sage		2500	2193	125 *	97	95
CDC Striker		3450	2847	115	114	89
Cooper		3630	3671	109 *	113	112
SW Sargeant		3000	2959	---	104 *	107 *
Tamora		2470	2864	---	86 *	95 *

Test Failed Due to Hail

* Less than 3 years of data

Table 9. Yield of Argentine Canola Cultivars at Lashburn and Melfort

Cultivar	Herbicide	2006 Yield (kg/ha) % of 46A65		
		Scott	Lashburn	Melfort
46A65	CO		(1505) 100	(2235) 100
Roper	CO		123	66
292CL	CF		108	99
45P70	CF		141	110
71-20 CL	CF		124	106
NEX 828 CL	CF		93	73
Manor	CF		97	95
45 H72	CF		131	108
45 H73	CF		175	118
SP Force CL	CF		112	101
5020	LL		140	129
5030	LL		155	125
5070	LL		154	121
9590	LL		156	132
74P00LL	LL		100	81
BCS301L*	LL		124	110
46P50	RR	Test Failed Due to Hail	151	130
9551	RR		139	115
997RR	RR		159	117
1759 S	RR		132	123
1818	RR		123	99
1841	RR		160	112
1851 H	RR		151	121
1852 H	RR		150	133
1878V	RR		126	98
1896	RR		144	106
V 1030	RR		142	105
V 1031	RR		171	104
V 1035	RR		160	117
45H21	RR		160	109
34-65	RR		137	96
71-45	RR		159	127
Reaper	RR		108	92
43A56	RR		145	111
45H24	RR		162	119
45H25	RR		169	137
45H26	RR		187	136
SP Banner	RR		140	102
SP Desirable	RR		158	109
SW-PF 02-3902	RR		142	105
SP 621 RR	RR		149	115
SP Favourable RR	RR		137	110
Café	RR		125	101
Fortune RR	RR		115	88
SWH5263 RR	RR		150	111
SWH5269 RR	RR		160	122
SWH5289 RR	RR		148	120

Herbicide (CO=Conventional, CF=Clearfield, LL=Liberty Link, RR=Roundup Ready)

