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2010 Crop Variety Highlights and Insect Pest Updates

Melfort Research Farm Scott
Research Farm Saskatoon
Research Centre

Canada 

Regional Testing of Cereal, Oilseed and Pulse Cultivars 2010

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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 two by Scott Research Farm staff (Scott and Glaslyn) 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 Ministry of Agriculture publication, *Varieties of Grain Crops 2011*. Seed quantities for new varieties listed herein may be limited for 2011.

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Table 1. Growing Season Precipitation (mm) at Scott, Glaslyn and Melfort in 2010

Month	Scott	Glaslyn	Melfort
May	121	30	67
June	146	83	113
July	122	99	64
Total	389	212	244
Long Term Average	158	n/a	188

Table 2. Average Yield of Crop Species on Fallow expressed as a % of hard red spring wheat (AC Barrie) at Scott, Glaslyn and Melfort. For most crops, data presented is based on yields averaged over the past 15-20 years. Only 3 years data are averaged at Glaslyn.

	Cultivar	Scott	Glaslyn	Melfort
Bread Wheat	Katepwa, AC Barrie	100 (2990)	100 (4040)	100 (3540)
Utility Wheat	AC Karma, AC Crystal, AC Andrew	119	128 *	133
Extra Strong Wheat	Glenlea, AC Glenavon, Burnside	105	106 *	100
Durum Wheat	Kyle, AC Avonlea	103	---	111
Triticale	Frank, AC Certa	125	---	137
Barley	Harrington, AC Metcalfe	140	136 *	122
Oat	Calibre CDC Dancer	144	130 *	130
Canola	2663, 5020	75	---	88
Flax	Vimy, CDC Bethune	55	53 *	54
Mustard (Oriental)	Cutlass	77	---	----
Mustard (Brown)	Commercial Brown	67	---	---
Mustard (Yellow)	Ochre	51	---	---
Field Pea	Grande, Alfetta Cutlass	106	101 *	93
Lentil	CDC Milestone	72	---	52

* Less than 4 years of data

Table 3. Yield of Spring Wheat Cultivars at Scott, Glaslyn and Melfort 2010

Cultivar	2010 Yield (kg/ha)			Long Term Average Yield (% of AC Barrie)		
	Scott	Glaslyn	Melfort	Scott	Glaslyn	Melfort
Bread Wheat						
AC Barrie	3968	3909	4190	100	100	100
Carberry	4517	3785	3820	111 *	109 *	91 *
Fieldstar VB	3635	3550	5080	102	107	103
Glenn	3999	4131	4200	100 *	108 *	97 *
Goodeve VB	4351	3933	4880	101	111	105
Muchmore	4183	3709	3740	108 *	107 *	91 *
Shaw	4125	3672	5530	106 *	109 *	116 *
Settler	3569	3643	4310	113 *	113 *	106
Unity VB	4330	3613	5220	109	113	113
Waskada	3959	3914	4180	107	109	104
Utmost	3971	3583	5000	119 *	105 *	119 *
Stanley	4730	3794	4540	108	111 *	108 *
Kernan	4057	3976	4490	107 *	97 *	107 *
Thrive	4503	3746	4580			109 *
Utility Wheat						
AC Andrew	3449	5486	6090	133	123	133
Burnside	3770	4095	4690	109 *	103 *	101
Glencross VB	3659	4107	5230	101	111	110
Minnedosa	3743	3976	5080	101 *	112 *	107 *
Sadash	6970	6910	6080	137 *	135 *	126 *
CDN Bison	3071	4094	5020	125 *	112 *	109 *
5702PR	5940	6010	5260	121	119	114

* Less than 3
years of data

Table 4. Yield of Durum Cultivars at Scott and Melfort 2010

Cultivar	2010 Yield (kg/ha)		Long Term Average Yield (% of Strongfield)	
	Scott	Melfort	Scott	Melfort
Strongfield	4112	4590	100	100
DT 801	3633	4400	97	96 *
Brigade	3039	5120	101 *	115
Enterprise	3822	4400	102 *	99 *
Eurostar	3901	4590	97 *	99
CDC Verona	4187	5050	99 *	101

* Less than 3 years of data

Table 5. Yield of Oat Cultivars at Scott, Glaslyn and Melfort 2010

Cultivar	2010 Yield (kg/ha)			Long Term Average Yield (% of CDC Dancer)		
	Scott	Glaslyn	Melfort	Scott	Glaslyn	Melfort
CDC Dancer	5905	6390	6480	100	100	100
Souris	6881	6583	7650	107	102	118 *
CDC Seabiscuit	6815	7319	7100	97	95	110 *
Gloria	6498	5614	5370	108	101	83 *
CDC Minstrel	6457	5533	6820	102	101	104
Bradley	6373	5585	7590	88	85	109 *
Stainless	6922	5660	6670	98 *	85 *	101
Summit	7460	6200	7590	93 *	98 *	111 *
Triactor	7963	7374	8700	112	111	130

* Less than 3 years of data

Table 6. Yield of Barley Cultivars at Scott, Glaslyn and Melfort 2010

Cultivar	2010 Yield (kg/ha)			Long Term Average Yield (% of AC Metcalfe)		
	Scott	Glaslyn	Melfort	Scott	Glaslyn	Melfort
TWO ROW						
AC Metcalfe	5137	4121	5030	100	100	100
Bentley	6603	4601	6200	110 *	111 *	115
Busby	5020	4849	5640	106 *	106	108 *
Champion	5405	5083	6730	130	115	120
CDC Austenson	6453	5433	6720	116 *	118 *	121
CDC Carter	5791	4434	5650	100 *	96 *	108 *
CDC ExPlus	5221	3873	6220	118	113	109 *
Cerveza	6861	4503	6210	99	99	123 *
CDC Landis	5837	4752	6790	108 *	111 *	116
CDC Meredith	5784	5344	5850	122 *	113 *	110
CDC Mindon	6048	4074	6090	106	102	104
CDC Reserve	5847	4739	6630	111 *	108 *	115
Major	6702	4595	6670	120 *	117 *	124 *
Gadsby	5092	5827	5880	109 *	107 *	117 *
Merit 57	5785	5242	6140	115 *	109 *	110
Norman	6286	4636	6070	102 *	103 *	108
SIX ROW						
Celebration	6256	4525	4460	107	106	87
CDC Kamsack	5830	4255	6350	98 *	105 *	101
*CDC Mayfair	5775	4286	6050	103 *	106 *	111
*Chigwell	5895	4894	6340	110 *	113 *	119
*Stellar	5456	4344	6380	120 *	113 *	127 *

* Less than 3 years of data

Table 7. Yield of Flax Cultivars at Scott, Glaslyn and Melfort 2010

Cultivar	2010 Yield (kg/ha)			Long Term Average Yield (% of CDC Bethune)		
	Scott	Glaslyn	Melfort	Scott	Glaslyn	Melfort
CDC Bethune	1926	2776	2320	100	100	100
CDC Sanctuary	1877	2927	2000	90	92	86
FP2214	1311	2505	2190	93	96	95 *
CDC Sorrel	-----	-----	-----	97	97	93 *

* Less than 3 years of data

Table 8. Yield of Lentil Cultivars at Scott and Melfort 2010

Cultivar	2010 Yield (kg/ha)		Long Term Average Yield (% of CDC Milestone)	
	Scott	Melfort	Scott	Melfort
Small Green				
CDC Milestone	1514	1229	100	100
CDC Invincible	2771	1880	95 *	125
Eston	1513	750	87	96
Medium Green				
CDC Impress CL	1535	1230	100	96
CDC Imigreen CL	1817	1080	68 *	92
CDC Richlea	1502	480	97	94
QG	1277	870		71 *
Large Green				
Laird	1425	990	83	78
CDC Greenland	1274	1260	90	98
CDC Impower CL	1713	790	98 *	69 *
CDC Improve CL	1511	1110	86	95
CDC Plato	1585	1150	99	100
Extra Small Red				
CDC Impala CL	2770	1360	98	101
CDC Imperial CL	2032	1200	85	90
CDC Redbow	2075	2020	105 *	156
CDC Robin	1865	1170	87	99
CDC Rosebud	2261	2250	98 *	165
CDC Rosetown	2765	1010	105	122
Small Red				
CDC Imax CL	2237	910	103 *	80
CDC Impact CL	1715	950	81	92
CDC Maxim CL	2579	1850	103	136
CDC Redberry	1899	1740	103	119
Redcoat	2318	1600	107 *	95
Large Red				
CDC KR-1	2697	1580	111 *	113

* Less than 3 years
of data

Table 9. Yield of Pea Cultivars at Scott, Glaslyn and Melfort 2010

Cultivar	2010 Yield (kg/ha)			Long Term Average Yield (% of Cutlass)		
	Scott	Glaslyn	Melfort	Scott	Glaslyn	Melfort
Yellow						
Cutlass	3309	3949	4430	100	100 *	100
Agassiz	3693	4417	4860	108 *	102 *	105
CDC Bronco	3522	4021	4690	84	84 *	93
CDC Golden	3529	3958	4190	109 *	94 *	102
CDC Meadow	3584	4704	4450	96 *	99 *	110
CDC Prosper	3560	4502	3740	91 *	95	99
CDC Treasure	3397	4407	4810	100 *	101	105
Eclipse	3446	4088	4030	90	76	95
Polstead	3338	4672	3570	108 *	96	103
Sorento	3293	4789	4150	70 *	82 *	89
Thunderbird	3185	4211	4690	87 *	94	99
Hornet	3140	4479	4510			102 *
Argus	3403	4093	5470			123 *
Hugo	3547	3873	4750			107 *
Stella	3350	3577	4490			101 *
Green						
CDC Patrick	3515	4492	6580	97 *	89	87
CDC Striker	3493	4573	7470	95	85	94
Cooper	3388	4150	8140	99	94	94
Tetris	3549	4666	4540			102 *
Pluto	3383	4205	4590			103 *
Mendel	2709	2088	3200			72 *
* Less than 3 years of data						

