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# 2011 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 2011**  
**L.P. Nielsen and G.J. Moskal**

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 2012*. Seed quantities for new varieties listed herein may be limited for 2012.

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**Table 1.** Growing Season Precipitation (mm) at Scott, Glaslyn and Melfort in 2011

| Month             | Scott      | Glaslyn    | Melfort    |
|-------------------|------------|------------|------------|
| May               | 32         | 19         | 11         |
| June              | 81         | 110        | 104        |
| July              | 80         | 0          | 73         |
| <b>Total</b>      | <b>193</b> | <b>129</b> | <b>188</b> |
| Long Term Average | 158        | 161        | 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.

|                    | <b>Cultivar</b> | <b>Scott</b> |        | <b>Glaslyn</b> |        | <b>Melfort</b> |        |
|--------------------|-----------------|--------------|--------|----------------|--------|----------------|--------|
| Bread Wheat        | AC Barrie       | 100          | (3480) | 100            | (4132) | 100            | (3916) |
| Utility Wheat      | AC Andrew       | 136          | (4742) | 128            | (5391) | 129            | (5067) |
| Extra Strong Wheat | Burnside        | 121          | (4225) | 106            | (4978) | 102            | (3979) |
| Durum Wheat        | Strongfield     | 117          | (4081) | ---            |        | 107            | (4190) |
| Triticale          | AC Certa        | 125          | (4350) | ---            |        | 139            | (5435) |
| Barley             | AC Metcalfe     | 133          | (4626) | 136            | (5268) | 125            | (4903) |
| Oat                | CDC Dancer      | 154          | (5363) | 130            | (5545) | 133            | (5200) |
| Canola             | 46A65           | *88          | (3058) | *58            | (2407) | 88             | (3446) |
| Flax               | CDC Bethune     | *55          | (1914) | *53            | (2141) | 54             | (2103) |
| Mustard (Juncea)   | Cutlass         | *79          | (2742) | ---            |        | ----           |        |
| Mustard (Alba)     | AC Pennant      | *53          | (1848) | ---            |        | ---            |        |
| Field Pea          | Cutlass         | 68           | (2362) | 101            | (3970) | 100            | (3920) |
| Lentil             | CDC Milestone   | 56           | (1938) | ---            |        | 45             | (1747) |
|                    |                 |              |        |                |        |                |        |

\* Less than 4 years of data

**Table 3.** Yield of Durum Cultivars at Scott and Melfort 2011

| <b>Cultivar</b> | <b>2011 Yield (kg/ha)</b> |                | <b>Long Term Average Yield (% of Strongfield)</b> |                |
|-----------------|---------------------------|----------------|---|----------------|
|                 | <b>Scott</b>              | <b>Melfort</b> | <b>Scott</b>                                      | <b>Melfort</b> |
| Strongfield     | 3802                      | 6834           | 100   | 100            |
| Brigade         | 3945                      | 6787           | 95  | 99             |
| CDC Verona      | 3518                      | 6078           | 98  | 98             |
| Enterprise      | 3227                      | 6389           | 93  | 97             |
| Eurostar        | 3597                      | 7029           | 96  | 111            |
| Transcend       | 3578                      | 6654           | 88 *  | 98 *           |

\* Less than 3 years of data

**Table 4.** Yield of Spring Wheat Cultivars at Scott, Glaslyn and Melfort 2011

| Cultivar             | 2011 Yield (kg/ha) |         |         | Long Term Average Yield<br>(% of AC Barrie) |         |         |
|----------------------|--------------------|---------|---------|---|---------|---------|
|                      | Scott              | Glaslyn | Melfort | Scott                                       | Glaslyn | Melfort |
| <b>Bread Wheat</b>   |                    |         |         |   |         |         |
| AC Barrie            | 2749               | 3909    | 5910    | 100   | 100     | 100     |
| Carberry             | 3437               | 4617    | 5620    | 113   | 118     | 93      |
| Fieldstar VB         | 3793               | 4458    | 5997    | 109   | 111     | 103     |
| Glenn                | 3893               | 4682    | 6306    | 109   | 121     | 101     |
| Goodeve VB           | 3487               | 4539    | 5634    | 107   | 109     | 102     |
| Muchmore             | 3297               | 4645    | 5644    | 108   | 117     | 93      |
| Shaw VB              | 3983               | 5097    | 6215    | 113   | 121     | 112     |
| Stettler             | 3408               | 5150    | 6166    | 111   | 119     | 106     |
| Unity VB             | 3859               | 4979    | 6291    | 114   | 111     | 111     |
| Waskada              | 3681               | 4537    | 5726    | 109   | 107     | 102     |
| CDC Utmost VB        | 3693               | 4544    | 5769    | 103 *                                       | 101 *   | 106 *   |
| CDC Stanley          | 3455               | 3211    | 5842    | 110 *                                       | 87 *    | 103 *   |
| CDC Kernen           | 3505               | 4793    | 6252    | 102 *                                       | 109 *   | 106 *   |
| CDC Thrive           | 3487               | 4574    | 5897    | 107 *                                       | 103 *   | 104 *   |
| <b>Utility Wheat</b> |                    |         |         |   |         |         |
| AC Andrew            | 4291               | 6001    | 7079    | 136   | 130     | 129     |
| Burnside             | 3228               | 5988    | 5971    | 121   | 120     | 100     |
| Glencross VB         | -----              | -----   | -----   | 124 *                                       | 120 *   | 110 *   |
| Minnedosa            | 3747               | 5644    | 5824    | 121   | 124     | 104     |
| Sadash               | 5201               | 6389    | 6828    | 150   | 150     | 121     |
| CDN Bison            | 3383               | 5918    | 7003    | 121   | 128     | 111     |
| 5702PR               | 4089               | 5330    | 6291    | 131   | 126     | 112     |

\* Less than 3 years of data

**Table 5.** Yield of Oat Cultivars at Scott, Glaslyn and Melfort 2011

| Cultivar       | 2011 Yield (kg/ha) |         |         | Long Term Average Yield<br>(% of CDC Dancer) |         |         |
|----------------|--------------------|---------|---------|--|---------|---------|
|                | Scott              | Glaslyn | Melfort | Scott  | Glaslyn | Melfort |
| CDC Dancer     | 6411               | 6758    | 7643    | 100  | 100     | 100     |
| Bradley        | 6274               | 6225    | 7557    | 101  | 101     | 105     |
| CDC Big Brown  | 6055               | 6816    | 7973    | 113 *  | 123 *   | 104 *   |
| CDC Minstrel   | 6536               | 5755    | 7314    | 106  | 103     | 102     |
| CDC Nasser     | 6823               | 6698    | 8100    | 127  | 121     | 106 *   |
| CDC Seabiscuit | 6660               | 6321    | 7578    | 126  | 132     | 104 *   |
| Souris         | 6041               | 6025    | 7396    | 120  | 119     | 107 *   |
| Summit         | 6365               | 6387    | 7340    | 113  | 110     | 106     |
| SW Triactor    | 7374               | 7557    | 8736    | 119  | 113     | 130     |

\* Less than 3 years of data

**Table 6.** Yield of Barley Cultivars at Scott, Glaslyn and Melfort 2011

| Cultivar       | 2011 Yield (kg/ha) |         |         | Long Term Average Yield<br>(% of AC Metcalfe) |         |         |
|----------------|--------------------|---------|---------|---|---------|---------|
|                | Scott              | Glaslyn | Melfort | Scott   | Glaslyn | Melfort |
| <b>TWO ROW</b> |                    |         |         |   |         |         |
| AC Metcalfe    | 4485               | 5687    | 6528    | 100   | 100     | 100     |
| Bentley        | 6256               | 6892    | 6609    | 124   | 124     | 111     |
| Busby          | 5225               | 6168    | 6591    | 110   | 117     | 106     |
| CDC Austenson  | 7089               | 7725    | 7871    | 139   | 140     | 121     |
| CDC Carter     | 5251               | 6019    | 6850    | 114   | 109     | 107     |
| CDC ExPlus     | 4573               | 5099    | 7425    | 106 *   | 85 *    | 111 *   |
| CDC Kindersley | 5541               | 6235    | 7288    | 116 *   | 98 *    | 112 *   |
| CDC Landis     | 5762               | 6096    | 7349    | 122   | 121     | 115     |
| CDC Meredith   | 5912               | 6568    | 6679    | 131   | 127     | 108     |
| CDC PolarStar  | 5636               | 6253    | 6971    | 122 *   | 119 *   | 107 *   |
| CDC Reserve    | 5527               | 6709    | 6200    | 123   | 122     | 110     |
| Cerveza        | 6407               | 6925    | 7704    | 143 *   | 108 *   | 120 *   |
| Major          | 6627               | 6449    | 7260    | 137 *   | 122 *   | 120 *   |
| Gadsby         | 6359               | 6657    | 6969    | 124 *   | 118 *   | 111 *   |
| Merit 57       | 5891               | 6757    | 6342    | 127   | 126     | 107     |
| Norman         | 5888               | 6291    | 7091    | 122   | 116     | 108     |
| <b>SIX ROW</b> |                    |         |         |   |         |         |
| Celebration    | 5470               | 6351    | 7538    | 127 *   | 103 *   | 104 *   |
| CDC Anderson   | 5266               | 5919    | 7148    | 111 *   | 99 *    | 109 *   |
| CDC Mayfair    | 5514               | 6181    | 6617    | 118   | 117     | 109     |
| Chigwell       | 6020               | 6530    | 6611    | 126   | 127     | 114     |
| Stellar ND     | 5129               | 6229    | 7976    | 114 *   | 100 *   | 124 *   |

\* 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<br>(% of CDC Bethune) |         |         |
|---------------|--------------------|---------|---------|---|---------|---------|
|               | Scott              | Glaslyn | Melfort | Scott   | Glaslyn | Melfort |
| CDC Bethune   | 1926               | 2776    | 2320    | 100   | 100     | 100     |
| CDC Sanctuary | 1877               | 2927    | 2000    | 79 *  | 127 *   | 86      |
| FP2214        | 1311               | 2505    | 2190    | 55 *  | 108 *   | 95 *    |
| CDC Sorrel    | -----              | 2430    | -----   | 97  | 97      | 93 *    |

\* Less than 3 years of data

**Table 8.** Yield of Lentil Cultivars at Scott and Melfort 2011

| <b>Cultivar</b>               | <b>2011 Yield (kg/ha)</b> |                | <b>Long Term Average Yield<br/>(% of CDC Milestone)</b> |                |
|-------------------------------|---------------------------|----------------|---|----------------|
|                               | <b>Scott</b>              | <b>Melfort</b> | <b>Scott</b>  | <b>Melfort</b> |
| <b><u>Small Green</u></b>     |                           |                |   |                |
| CDC Milestone                 | 925                       | 2743           | 100   | 100            |
| CDC Invincible                | 1493                      | 3380           | 132   | 125            |
| Eston                         | 653                       | 2460           | 87  | 95             |
| <b><u>Medium Green</u></b>    |                           |                |   |                |
| CDC Imigreen CL               | 600                       | 2335           | 84  | 89             |
| CDC Impress CL                | 620                       | 2784           | 96  | 97             |
| <b><u>French Green</u></b>    |                           |                |   |                |
| CDC Peridot                   | 670                       | 3027           | 104   | 100            |
| <b><u>Large Green</u></b>     |                           |                |   |                |
| CDC Greenland                 | 583                       | 3109           | 87  | 101            |
| CDC Impower CL                | 146                       | 2078           | 86  | 73             |
| CDC Improve CL                | 348                       | 2433           | 83  | 93             |
| CDC Plato                     | 89                        | 1961           | 95  | 96             |
| 3339-3                        | 857                       | 3178           | 86 *  | 116 *          |
| <b><u>Extra Small Red</u></b> |                           |                |   |                |
| CDC Impala CL                 | 1429                      | 2752           | 116   | 101            |
| CDC Imperial CL               | 1235                      | 2178           | 93  | 88             |
| CDC Redbow                    | 1689                      | 3343           | 121   | 143            |
| CDC Robin                     | 1253                      | 2322           | 93  | 97             |
| CDC Rosebud                   | 1487                      | 3339           | 119   | 148            |
| CDC Rosetown                  | 1271                      | 3260           | 119   | 121            |
| <b><u>Small Red</u></b>       |                           |                |   |                |
| CDC Imax CL                   | 926                       | 2467           | 103   | 84             |
| CDC Impact CL                 | 976                       | 2638           | 86  | 93             |
| CDC Maxim CL                  | 1921                      | 3663           | 123   | 136            |
| CDC Redberry                  | 1383                      | 3452           | 107   | 120            |
| Redcoat                       | 1043                      | 3786           | 118   | 112            |
| <b><u>Large Red</u></b>       |                           |                |   |                |
| CDC KR-1                      | 893                       | 3777           | 143 *   | 123 *          |

\* Less than 3 years of data

**Table 9.** Yield of Pea Cultivars at Scott, Glaslyn and Melfort 2011

| <b>Cultivar</b>     | <b>2011 Yield (kg/ha)</b> |                |                | <b>Long Term Average Yield<br/>(% of Cutlass)</b> |                |                |
|---------------------|---------------------------|----------------|----------------|---|----------------|----------------|
|                     | <b>Scott</b>              | <b>Glaslyn</b> | <b>Melfort</b> | <b>Scott</b>                                      | <b>Glaslyn</b> | <b>Melfort</b> |
| <b>Yellow</b>       |                           |                |                |   |                |                |
| <i>Cutlass</i>      | 1406                      | 2341           | 6398           | 100   | 100            | 100            |
| <i>Agassiz</i>      | 2803                      | 4746           | 7459           | 124   | 124            | 107            |
| <i>Argus</i>        | 2313                      | 3498           | 6486           | 121 *   | 96 *           | 110 *          |
| <i>CDC Golden</i>   | 2067                      | 2691           | 7276           | 115   | 98             | 104            |
| <i>CDC Hornet</i>   | 1699                      | 3046           | 7641           | 98  | 94             | 112 *          |
| <i>CDC Meadow</i>   | 1848                      | 2831           | 5654           | 108   | 110            | 105            |
| <i>CDC Prosper</i>  | 1237                      | 1415           | 6823           | 98  | 97             | 100            |
| <i>CDC Saffron</i>  | 2021                      | 3145           | 6914           | 118   | 98             | 108 *          |
| <i>CDC Treasure</i> | 2469                      | 3380           | 7473           | 116   | 112            | 108            |
| <i>Hugo</i>         | 2735                      | 4296           | 7778           | 133 *   | 103 *          | 116 *          |
| <i>Polstead</i>     | 1869                      | 2946           | 6751           | 114   | 109            | 103            |
| <i>Sorento</i>      | 2131                      | 3173           | 7494           | 100   | 100            | 96             |
| <i>Stella</i>       | 3350                      | 3577           | 5417           | 118 *   | 79 *           | 92 *           |
| <b>Green</b>        |                           |                |                |   |                |                |
| <i>CDC Patrick</i>  | 2331                      | 3969           | 6442           | 118   | 107            | 91             |
| <i>CDC Pluto</i>    | 2738                      | 3460           | 6368           | 101 *   | 108 *          | 101 *          |
| <i>CDC Striker</i>  | 2618                      | 3018           | 6219           | 115   | 96             | 95             |
| <i>CDC Tetris</i>   | 2089                      | 3703           | 7676           | 119 *   | 114 *          | 113 *          |
| <i>Cooper</i>       | 2418                      | 3865           | 8332           | 112   | 106            | 100            |

\* Less than 3 years of data

