



# Varieties of Cereal and Oilseed Crops for Alberta

This publication provides information on cereal and oilseed variety performance within Alberta and northwest British Columbia. Important agronomic characteristics are given in tabular form for varieties of wheat, oats, barley, flax, canola, triticale and rye.

In 2009, Alberta Agriculture and Rural Development (ARD) reinstated the Regional Variety Testing program. ARD would like to thank the Agricultural Research and Extension Council of Alberta (ARECA) for maintaining the program over the last few years and for their work with ARD in 2009 to smoothly transition the program.

Contributors to this publication: Agriculture and Agri-Food Canada, the Canadian Seed Growers Association, cereal and oilseed commodity groups, applied research associations, the Canadian Seed Trade Association, Canola Council of Canada and Alberta Agriculture and Rural Development.

Funding for the 2009 trials has been provided by Alberta Agriculture and Rural Development, seed industry groups, the Alberta Branch of Canadian Seed Growers Association and the Association of Alberta Co-op Seed Cleaning Plants Ltd.

## Yield test categories described in 2010

Starting in 2010, the Alberta/British Columbia Grain Advisory Committee (ABCGAC) is discontinuing the reporting of variety yields by geographic area for spring cereal and flax. In its place, variety yields are reported in comparison to the check in two ways:

1. as the average yield for all trials conducted in the AB/BC testing program, with the number of site/years of data indicated. These figures are a more reliable indication of average relative performance. When there is limited data for a new variety, yield information may only appear in the Overall Yield column in the data tables.
2. as average yields in Low, Medium, High and Very High Test Yield Categories for comparison with projected yields in a production area. The average test yield for the standard check is also reported in bu/ac.

See example below:

| Variety             | Overall Yield (1) |                          | Test Yield Category (2) |                   |                |
|---------------------|-------------------|--------------------------|-------------------------|-------------------|----------------|
|                     | All Sites         | Station years of testing | Low < 45 bu/ac          | Med 45 – 70 bu/ac | High >70 bu/ac |
| Yield as % of Check |                   |                          |                         |                   |                |
| <b>CROP</b>         |                   |                          |                         |                   |                |
| Check bu/ac         | 59                |                          | 36                      | 57                | 81             |
| Check Variety       | 100               | (356)                    | 100                     | 100               | 100            |
| Variety X           | 90-               | (80)                     | 85-                     | 105+              | 95             |

Variety X is significantly higher yielding than the check variety by 5% in the Medium Test Yield Category with at least 6 station years of data.

The relative yields reported in the Yield Test Category analysis provide a more useful description because of the wide range of season-to-season variability within a designated crop area, and differences within an area in the same crop year. Varieties that are statistically higher (+) or lower (-) yielding than the standard check are indicated for each Test Yield Category. In many cases, no symbols are reported, indicating that the yields are not significantly different from the standard check.

To use the tables, producers need to determine whether they are in a Very High, High, Medium or Low test category before making decisions about varieties. To decide on the correct category for your farm, examine your historical farm production and assess current yield expectations.

For more information, please visit Alberta Agriculture's website Ropin' the Web: [www.agriculture.alberta.ca/rvt](http://www.agriculture.alberta.ca/rvt)

## Summary methods

Past versions of this publication summarized multi-year and multi-location yield data on a geographical basis (agro-climatic areas). The combined data averaged the effects of drought, heavy rainfall, high/low fertility, etc. that are often experienced at different sites or years in each agro-climatic area. This method of analysis has not reliably identified varieties better adapted to low or high yield conditions, and producers have been given the false impression that varieties will respond close to the long-term averages reported in each area.


Over the past several years, a new approach was introduced to better reflect the yield performance of varieties under varying growth conditions. For several crops, yield data was expressed on the basis of individual growth environment productivity (low, medium, high and very high). Experience has shown that yield rankings can change substantially due to growing conditions. Thus, data from a test site that receives good growing season moisture resulting in high yields would be placed into the database for 'high' yielding environments. That same site may contribute to the 'low' yielding category in a drought year, when yields are low.

This new reporting method allows producers to select the most beneficial varieties for their particular situation. Variety choice based on yield performance should reflect a realistic prediction of fall yield, taking into account factors such as growing season rainfall and disease forecasts, soil moisture, fertility and weed pressure. Consistent performance over all productivity environments indicates that the variety has good yield stability over a wide range of environments. Producers are encouraged to consider

other characteristics such as maturity, straw strength and disease resistance rather than settling on a variety based solely on yield performance.

Yields tables show relative yields compared to a check variety. Although variety test plots are carefully conducted with statistical designs, small percentage differences in yield are usually statistically insignificant or meaningless. In southeast Alberta, irrigated yields expressed as per cent of dryland yields are C.W. wheat 185, barley 160, oats 180, flax 210 and canola 125%. Near Calgary, Hanna and Drumheller, irrigated yields expressed as per cent of dryland yields are C.W. wheat 130, barley 125, oats 120, flax 145 and canola 120%.

## Plant Breeder's Rights

The use of the logo  indicates a variety protected by law, and seed of this variety cannot be sold without permission and royalty payment.

## Canola

The canola variety performance data is generated by the Prairie Canola Variety Trials (PCVT) and is appended to this factsheet. Trials are conducted over the three provinces of Alberta, Saskatchewan and Manitoba as well as the BC Peace River region. The PCVT system reports individual years of data for publication in the AGRI-FACTS factsheet. The Alberta Cereal and Oilseed Advisory committee does not take any responsibility for accuracy or validity of the PCVT results.

## Maturity

Maturity is indicated as +/- days relative to the check variety for each crop and cannot be used to compare different crops. Maturity rankings of varieties within crops tend to be consistent regardless of where the crops are grown.

## Diseases, seed treatment and seed testing

Disease ratings are compiled from various data sources in Alberta and other prairie provinces.

- Treat rye and flax seed to control seedling blight, cereal seed for smuts and fusarium, canola seed to control flea beetles, seedling blight and the seed borne phase of virulent blackleg.

- Treated seed must not be fed to livestock, poultry or wildlife or sold for feed. Refer to labels for maximum periods for storing treated seed.
- The Leaf Spot rating in the wheat charts is a combination of resistance to tan spot and septoria leaf disease complex.
- Currently, Fusarium Head Blight (FHB), caused by *Fusarium graminearum*, is a minor problem in Alberta. However, this pathogen has been appearing with greater frequency and intensity in Manitoba and eastern Saskatchewan. It has also appeared in trace levels in Alberta. The relative rating of crops from most susceptible to least is durum, CPS wheat, HRS wheat, triticale, barley and oats. Corn is a host of *F. graminearum* and can serve as a source of infection when residue is left on the ground. Under severe epidemics, all cereal varieties will suffer damage. All seed, especially seed brought in from infected areas of the eastern prairies, should be tested for FHB and treated with the appropriate seed treatment. Producers should choose varieties with the best FHB tolerance wherever possible.
- All seed tested in the Regional Cereal Program comes with a fusarium-free certificate and is treated with the appropriate fungicides. In addition, all regional trials are inspected for the disease at the most susceptible stage.

Laboratories participating in the FHB testing program:

- 20/20 Seed Labs Ltd., Nisku, AB  
1-877-420-2099
- Brett Young Seeds (Rycroft Inc.), Rycroft, AB  
1-780-765-3069
- BioVision Seed Research Ltd., Edmonton, AB  
1-800-952-5407
- BioVision Seed Research Ltd., Grande Prairie, AB  
1-877-532-8889
- Parkland Laboratories, Red Deer, AB  
1-403-342-0404
- Precision Seed Testing, Beaverlodge, AB  
1-780-354-2259
- Seed Check Technologies Inc., Leduc, AB  
1-780-980-8324

## Other variety information

For additional variety information, including varieties not listed in this factsheet, check the Alberta Agriculture website or call the Alberta Ag-Info Centre toll-free at 310-FARM (3276).

## Yield data reported by

Alberta/British Columbia Grain Advisory Committee

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## More information

Alberta Ag-Info Centre  
Call toll-free 310-FARM (3276)

Website: [www.agriculture.alberta.ca](http://www.agriculture.alberta.ca)

## W H E A T (new yield class table)

| Variety                      | Overall Yield (1) |                          | Test Yield Category (2) |               |            | Comp.      |             | Te. lb/bu | Kn. g/1000 | Ht. cm    | Resistance to: |            |          | Tolerance to: |           |          |          |
|------------------------------|-------------------|--------------------------|-------------------------|---------------|------------|------------|-------------|-----------|------------|-----------|----------------|------------|----------|---------------|-----------|----------|----------|
|                              | All Sites         | Station years of testing | Low                     | Med           | High       | Mat. days  | Prot. %     |           |            |           | Ldg.           | Loose Smut | Bunt     | Stripe Rust   | Leaf Spot | Sprout   | FHB      |
|                              |                   |                          | < 45 bu/ac              | 45 - 70 bu/ac | >70 bu/ac  |            |             |           |            |           |                |            |          |               |           |          |          |
| <b>AC Barrie bu/ac</b>       | <b>59</b>         |                          | <b>36</b>               | <b>57</b>     | <b>81</b>  |            |             |           |            |           |                |            |          |               |           |          |          |
| Yield as % of AC Barrie      |                   |                          |                         |               |            |            |             |           |            |           |                |            |          |               |           |          |          |
| <b>C.W. RED SPRING WHEAT</b> |                   |                          |                         |               |            |            |             |           |            |           |                |            |          |               |           |          |          |
| <b>AC Barrie ☺</b>           | <b>100</b>        | <b>(356)</b>             | <b>100</b>              | <b>100</b>    | <b>100</b> | <b>106</b> | <b>14.4</b> | <b>63</b> | <b>37</b>  | <b>89</b> | <b>G</b>       | <b>G</b>   | <b>F</b> | <b>P</b>      | <b>P</b>  | <b>G</b> | <b>F</b> |
| 5602HR ☺                     | 105+              | (80)                     | 103                     | 105+          | 104+       | 2          | 0.5         | 63        | 37         | 91        | G              | VG         | G        | F             | F         | F        | G        |
| 5603HR                       | 105+              | (34)                     | 102                     | 106+          | 105        | 3          | -0.3        | 63        | 35         | 87        | G              | G          | G        | XX            | F         | XX       | F        |
| AC Abbey†                    | 101               | (96)                     | 100                     | 104           | 98         | -1         | -1.2        | 62        | 35         | 85        | F              | F          | G        | F             | P         | P        | VP       |
| AC Cadillac ☺                | 96-               | (103)                    | 97                      | 98            | 94-        | 0          | 0.2         | 64        | 39         | 98        | F              | VG         | VG       | F             | F         | F        | F        |
| AC Eatonia ☺                 | 94-               | (78)                     | 98                      | 96            | 88-        | 1          | -0.1        | 62        | 35         | 92        | P              | F          | G        | F             | P         | G        | XX       |
| AC Elsa ☺                    | 103+              | (110)                    | 104                     | 106+          | 100        | 1          | -0.4        | 62        | 35         | 89        | G              | G          | F        | F             | G         | F        | P        |
| AC Intrepid ☺                | 102               | (107)                    | 103                     | 104           | 99         | -1         | -0.5        | 62        | 39         | 90        | G              | F          | G        | G             | F         | P        | P        |
| AC Splendor ▲                | 95-               | (147)                    | 96                      | 96-           | 94-        | -2         | 0.4         | 61        | 37         | 89        | F              | F          | F        | F             | F         | F        | P        |
| Alikat †                     | 96-               | (70)                     | 100                     | 94-           | 94-        | -1         | -0.4        | 63        | 36         | 87        | F              | G          | XX       | XX            | P         | F        | F        |
| Alvena ☺                     | 101               | (50)                     | 99                      | 103           | 102        | 0          | 0.2         | 63        | 36         | 91        | G              | G          | G        | XX            | XX        | XX       | P        |
| CDC Abound ▲                 | 111+              | (66)                     | 109+                    | 112+          | 109+       | 1          | -0.1        | 63        | 40         | 83        | G              | F          | F        | XX            | P         | G        | P        |
| CDC Alsask ☺                 | 107+              | (96)                     | 108+                    | 108+          | 105+       | -1         | 0.1         | 62        | 36         | 92        | F              | G          | G        | F             | P         | F        | P        |
| CDC Bounty                   | 104+              | (65)                     | 107                     | 104           | 101        | 0          | -0.4        | 64        | 37         | 94        | F              | G          | F        | XX            | P         | F        | F        |
| CDC Go                       | 113+              | (68)                     | 108                     | 116+          | 112+       | -1         | 0.0         | 61        | 42         | 83        | G              | P          | G        | P             | P         | P        | F        |
| CDC Imagine ☺                | 104+              | (76)                     | 104                     | 104           | 105        | -1         | -0.2        | 61        | 37         | 83        | G              | G          | G        | F             | P         | F        | VP       |
| CDC Osler                    | 106+              | (66)                     | 107                     | 106+          | 103        | -1         | 0.0         | 61        | 35         | 85        | G              | G          | G        | XX            | F         | F        | VP       |
| CDC Teal                     | 100               | (84)                     | 99                      | 103           | 97         | -1         | -0.2        | 62        | 36         | 89        | G              | F          | F        | F             | P         | P        | VP       |
| Fieldstar VB ☺               | 102               | (34)                     | 101                     | 102           | 102        | -1         | -0.2        | 64        | 34         | 87        | F              | F          | G        | G             | F         | XX       | F        |
| Goodeve ▲                    | 103               | (51)                     | 106+                    | 102           | 100        | 0          | 0.1         | 62        | 36         | 88        | G              | G          | P        | F             | P         | XX       | VP       |
| Harvest ☺                    | 101               | (94)                     | 99                      | 103+          | 101        | -1         | 0.2         | 62        | 36         | 83        | VG             | G          | F        | XX            | P         | VG       | VP       |
| Infinity ☺                   | 104+              | (66)                     | 106+                    | 102           | 102        | 0          | -0.3        | 62        | 33         | 89        | G              | G          | F        | P             | P         | G        | VP       |
| Journey ☺                    | 99                | (69)                     | 98                      | 99            | 99         | 1          | 0.6         | 62        | 36         | 83        | VG             | F          | G        | F             | P         | G        | P        |
| Kane ☺                       | 99                | (51)                     | 96-                     | 100           | 100        | 0          | 0.2         | 64        | 36         | 85        | G              | P          | F        | XX            | F         | XX       | F        |
| Katepwa                      | 99-               | (268)                    | 100                     | 99            | 96-        | 0          | -0.3        | 62        | 35         | 93        | F              | G          | G        | P             | P         | F        | F        |
| Lillian ☺                    | 103               | (80)                     | 107                     | 102           | 100        | 0          | -0.1        | 61        | 38         | 86        | G              | F          | G        | G             | P         | G        | VP       |
| Lovitt ☺                     | 97                | (37)                     | 98                      | 97            | 98         | -1         | -0.3        | 62        | 35         | 89        | G              | G          | F        | P             | F         | VG       | VP       |
| McKenzie                     | 103+              | (104)                    | 107+                    | 103           | 101        | -1         | -0.9        | 62        | 34         | 90        | F              | P          | VG       | P             | F         | VG       | F        |
| Park                         | 97                | (45)                     | 93                      | 99            | 96         | 0          | 0.0         | 62        | 35         | 92        | F              | G          | XX       | P             | P         | G        | VP       |
| Peace                        | 100               | (53)                     | 101                     | 100           | 99         | 0          | 0.2         | 63        | 37         | 92        | G              | VG         | VG       | F             | XX        | P        | VP       |
| Prodigy                      | 104+              | (84)                     | 106+                    | 105+          | 100        | 1          | 0.3         | 63        | 35         | 94        | G              | F          | G        | P             | P         | F        | VP       |
| Roblin                       | 95-               | (82)                     | 96                      | 98            | 91-        | -2         | 0.1         | 62        | 36         | 87        | G              | G          | VP       | P             | VP        | F        | VP       |
| Somerset ☺                   | 100               | (50)                     | 102                     | 100           | 97         | 1          | -0.2        | 62        | 36         | 97        | G              | VG         | F        | XX            | P         | F        | P        |
| Stettler                     | 108+              | (34)                     | 113+                    | 108+          | 104        | 1          | 0.0         | 64        | 38         | 83        | G              | G          | G        | XX            | P         | G        | P        |
| Superb ☺                     | 112+              | (155)                    | 112+                    | 113+          | 111+       | 2          | -0.4        | 62        | 42         | 85        | G              | F          | G        | P             | P         | G        | P        |
| Unity VB                     | 107+              | (34)                     | 108                     | 108+          | 105        | 1          | -0.3        | 64        | 36         | 88        | G              | P          | VG       | F             | F         | G        | P        |
| Waskada ▲                    | 101               | (51)                     | 101                     | 100           | 103        | -1         | 0.1         | 64        | 38         | 93        | G              | G          | G        | G             | P         | G        | G        |

## W H E A T (new yield class table) (continued)

| Variety                             | Overall Yield (1) |                          | Test Yield Category (2) |               |           | Comp.     |         | Te. Wt. lb/bu | Kn. Wt. g/1000 | Ht. cm | Resistance to: |            |      | Tolerance to: |           |        |     |
|-------------------------------------|-------------------|--------------------------|-------------------------|---------------|-----------|-----------|---------|---------------|----------------|--------|----------------|------------|------|---------------|-----------|--------|-----|
|                                     | All Sites         | Station years of testing | Low                     | Med           | High      | Mat. days | Prot. % |               |                |        | Ldg.           | Loose Smut | Bunt | Stripe Rust   | Leaf Spot | Sprout | FHB |
|                                     |                   |                          | < 45 bu/ac              | 45 - 70 bu/ac | >70 bu/ac |           |         |               |                |        |                |            |      |               |           |        |     |
| Yield as % of AC Barrie             |                   |                          |                         |               |           |           |         |               |                |        |                |            |      |               |           |        |     |
| <b>C.W. HARD WHITE SPRING WHEAT</b> |                   |                          |                         |               |           |           |         |               |                |        |                |            |      |               |           |        |     |
| Kanata                              | 90-               | (45)                     | 92-                     | 89-           | 91        | -1        | 0.2     | 60            | 33             | 82     | G              | F          | P    | F             | P         | G      | F   |
| Snowbird ◊                          | 101               | (87)                     | 100                     | 102           | 98        | 1         | -0.4    | 62            | 36             | 88     | G              | G          | F    | F             | P         | G      | P   |
| Snowstar ◊                          | 101               | (52)                     | 101                     | 102           | 99        | 0         | -0.9    | 64            | 30             | 83     | XX             | P          | P    | XX            | F         | F      | P   |

**REMARKS:** AC Abbey, AC Eatonia and Lillian - adapted to sawfly areas. Varieties having a rating of fair (F) or poor (P) to loose smut or bunt require a systemic fungicide seed treatment. C.W. Red Spring Wheat grown under irrigation tends to have lower grades. Alikat - special adaptation to acid soils. CDC Imagine and CDC Abound are Clearfield tolerant. BW859, BW874, BW875, BW878, BW880, BW881, BW883, BW394, PT575 and Glenn - insufficient data to describe.

| Variety                            | Overall Yield (1) |                          | Test Yield Category (2) |               |            | Comp.      |             | Te. Wt. lb/bu | Kn. Wt. g/1000 | Ht. cm    | Resistance to: |            |           | Tolerance to: |           |          |           |
|------------------------------------|-------------------|--------------------------|-------------------------|---------------|------------|------------|-------------|---------------|----------------|-----------|----------------|------------|-----------|---------------|-----------|----------|-----------|
|                                    | All Sites         | Station years of testing | Low                     | Med           | High       | Mat. days  | Prot. %     |               |                |           | Ldg.           | Loose Smut | Bunt      | Stripe Rust   | Leaf Spot | Sprout   | FHB       |
|                                    |                   |                          | < 45 bu/ac              | 45 - 70 bu/ac | >70 bu/ac  |            |             |               |                |           |                |            |           |               |           |          |           |
| <b>AC Taber bu/ac</b>              | <b>72</b>         |                          | <b>39</b>               | <b>69</b>     | <b>107</b> |            |             |               |                |           |                |            |           |               |           |          |           |
| Yield as % of AC Taber             |                   |                          |                         |               |            |            |             |               |                |           |                |            |           |               |           |          |           |
| <b>CANADA PRAIRIE SPRING WHEAT</b> |                   |                          |                         |               |            |            |             |               |                |           |                |            |           |               |           |          |           |
| <b>AC Taber</b>                    | <b>100</b>        | <b>(316)</b>             | <b>100</b>              | <b>100</b>    | <b>100</b> | <b>109</b> | <b>12.3</b> | <b>62</b>     | <b>42</b>      | <b>79</b> | <b>G</b>       | <b>P</b>   | <b>VG</b> | <b>P</b>      | <b>F</b>  | <b>P</b> | <b>VP</b> |
| 5700PR ◊                           | 102               | (113)                    | 104                     | 101           | 102        | -1         | 0.4         | 62            | 42             | 75        | VG             | P          | G         | P             | P         | P        | VP        |
| 5701PR ◊                           | 100               | (89)                     | 101                     | 101           | 96-        | 0          | 0.4         | 60            | 43             | 77        | G              | F          | F         | G             | P         | P        | VP        |
| 5702PR ▲                           | 99                | (48)                     | 108                     | 99            | 97         | -4         | 0.4         | 61            | 40             | 79        | G              | P          | F         | F             | F         | F        | P         |
| AC Crystal ◊                       | 98-               | (201)                    | 96-                     | 98-           | 99         | 0          | 0.3         | 62            | 43             | 79        | G              | F          | VG        | P             | F         | P        | VP        |
| AC Foremost                        | 97-               | (140)                    | 98                      | 97-           | 98         | -1         | XX          | 62            | 43             | 74        | VG             | F          | VG        | P             | P         | F        | VP        |

**REMARKS:** Varieties with fair (F) or poor (P) ratings to loose smut or bunt require a systemic fungicide seed treatment. CPS wheat is more susceptible to take-all root rot than other wheat classes. AC Taber yields about 20 % higher than AC Barrie. AC Crystal, 5700PR and 5701PR have improved quality compared to AC Foremost and Taber. AC Vista and 5700PR are grown under contract with the CWB market development program. Minnedosa - insufficient data to describe.

Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

**Note:**  
Yield is described as Overall Yield (1) and by Yield Test Category (2).

(1) Province-wide yields compared to the check with similar stations years of testing.

(2) Yield by Test Category is described as the % of the check variety in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than the check, yield followed by - is significantly lower than the check and yield without + or - is not significantly different than the check.

See page 18 for symbols used.

## W H E A T (new yield class table)

| Variety                | Overall Yield (1) |                          | Test Yield Category (2) |               |           | Comp.     |           | Plant      |        | Resistance to: |         |       |      | Tolerance to: |      |        |     |
|------------------------|-------------------|--------------------------|-------------------------|---------------|-----------|-----------|-----------|------------|--------|----------------|---------|-------|------|---------------|------|--------|-----|
|                        | All Sites         | Station years of testing | Low                     | Med           | High      | Mat. days | Te. lb/bu | Wt. g/1000 | Ht. cm | Ldg.           | Shatter | Loose |      | Stripe Rust   | Leaf |        | FHB |
|                        |                   |                          | < 45 bu/ac              | 45 - 70 bu/ac | >70 bu/ac |           |           |            |        |                |         | Smut  | Bunt |               | Spot | Sprout |     |
| Kyle bu/ac             | 59                |                          | 33                      | 60            | 88        |           |           |            |        |                |         |       |      |               |      |        |     |
| Yield as % of Kyle     |                   |                          |                         |               |           |           |           |            |        |                |         |       |      |               |      |        |     |
| C.W. AMBER DURUM WHEAT |                   |                          |                         |               |           |           |           |            |        |                |         |       |      |               |      |        |     |
| Kyle                   | 100               | (123)                    | 100                     | 100           | 100       | 108       | 62        | 44         | 99     | P              | G       | VP    | VG   | G             | P    | F      | P   |
| AC Avonlea ☉           | 112+              | (58)                     | 113+                    | 113+          | 108+      | 0         | 63        | 44         | 91     | F              | G       | VP    | VG   | XX            | P    | F      | P   |
| AC Morse ☉             | 104+              | (67)                     | 105                     | 103           | 106+      | -1        | 61        | 44         | 84     | G              | G       | VP    | VG   | G             | VP   | F      | VP  |
| AC Navigator ☉         | 111+              | (63)                     | 114+                    | 112+          | 106       | 0         | 63        | 45         | 77     | G              | G       | VP    | VG   | G             | VP   | F      | VP  |
| Brigade ▲              | 114+              | (21)                     | 117+                    | 112+          | XX        | -4        | 64        | 46         | 87     | XX             | XX      | P     | VG   | XX            | F    | XX     | P   |
| Commander ☉            | 120+              | (37)                     | XX                      | 121+          | 115+      | -1        | 62        | 46         | 79     | G              | VG      | F     | VG   | XX            | P    | F      | VP  |
| Eurostar               | 112+              | (21)                     | 111+                    | 113+          | XX        | -2        | 64        | 45         | 88     | XX             | XX      | P     | VG   | XX            | F    | XX     | P   |
| Strongfield ☉          | 115+              | (68)                     | 114+                    | 116+          | 113+      | -3        | 62        | 45         | 87     | F              | VG      | VP    | G    | G             | P    | VG     | VP  |

**REMARKS:** Generally durum wheat should only be grown in south and south-eastern portion of Alberta due to late maturity. Outside these areas, durum is extremely late maturing and subject to quality loss. All durum varieties are susceptible to two new races of loose smut. Seed can be treated to provide control. Kyle - yields about 10 % higher than AC Barrie in areas of best adaptation, and receives better grades than other varieties even under adverse harvesting conditions. AC Navigator and Commander- grown under contract with CWB, stronger gluten and semi-dwarf stature. AC Avonlea - shorter stronger straw than Kyle, higher pigment content in grain than other varieties. DT787 and CDC Verona - insufficient data to describe.

See page 18 for symbols used.

| Variety                      | Overall Yield (1) |                          | Test Yield Category (2) |         |       | Comp.     |         | Plant     |            | Resistance to: |      |         |       | Tolerance to: |             |      |        |     |
|------------------------------|-------------------|--------------------------|-------------------------|---------|-------|-----------|---------|-----------|------------|----------------|------|---------|-------|---------------|-------------|------|--------|-----|
|                              | All Sites         | Station years of testing | < 55                    | 55 - 85 | >85   | Mat. days | Prot. % | Te. lb/bu | Wt. g/1000 | Ht. cm         | Ldg. | Shatter | Loose |               | Stripe Rust | Leaf |        | FHB |
|                              |                   |                          | bu/ac                   | bu/ac   | bu/ac |           |         |           |            |                |      |         | Smut  | Bunt          |             | Spot | Sprout |     |
| AC Andrew bu/ac              | 82                |                          | 38                      | 70      | 109   |           |         |           |            |                |      |         |       |               |             |      |        |     |
| Yield as % of AC Andrew      |                   |                          |                         |         |       |           |         |           |            |                |      |         |       |               |             |      |        |     |
| C.W. SOFT WHITE SPRING WHEAT |                   |                          |                         |         |       |           |         |           |            |                |      |         |       |               |             |      |        |     |
| AC Andrew                    | 100               | (88)                     | 100                     | 100     | 100   | 109       | 11.5    | 62        | 38         | 79             | VG   | VG      | VP    | P             | G           | XX   | F      | VP  |
| AC Meena                     | 97-               | (51)                     | 102                     | 98      | 94-   | 1         | -0.6    | 61        | 37         | 80             | G    | G       | VP    | VP            | G           | XX   | F      | P   |
| Bhishaj                      | 100               | (24)                     | XX                      | 102     | 100   | 0         | XX      | 62        | 37         | 85             | VG   | VG      | G     | VP            | G           | XX   | F      | VP  |
| Sadash ☉                     | 111+              | (37)                     | XX                      | 106+    | 110+  | 0         | -0.4    | 63        | 39         | 83             | VG   | VG      | VP    | VP            | G           | XX   | F      | P   |

**REMARKS:** All soft white spring wheat varieties have a semi-dwarf stature and excellent straw strength. Seed should be treated with a systemic fungicide to control seed borne diseases. AC Andrew yields about 35% more than AC Barrie. XX: insufficient data.

**Note:**

Yield is described as Overall Yield (1) and by Yield Test Category (2).

(1) Province-wide yields compared to the check with similar stations years of testing.

(2) Yield by Test Category is described as the % of the check variety in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than the check, yield followed by - is significantly lower than the check and yield without + or - is not significantly different than the check.

See page 18 for symbols used.

## W H E A T (new yield class table)

| Variety      | Overall Yield (1)              |                          | Test Yield Category (2) |                   |                | Comp. Mat. days | Te. lb/bu | Wt. g/1000 | Ht. cm | Resistance to: |         |            |      | Tolerance to: |           |        |     |
|--------------|--------------------------------|--------------------------|-------------------------|-------------------|----------------|-----------------|-----------|------------|--------|----------------|---------|------------|------|---------------|-----------|--------|-----|
|              | All Sites                      | Station years of testing | Low < 50 bu/ac          | Med 50 - 90 bu/ac | High >90 bu/ac |                 |           |            |        | Ldg.           | Shatter | Loose Smut | Bunt | Stripe Rust   | Leaf Spot | Sprout | FHB |
| Amazon bu/ac | 58                             | 38                       | 67                      | 95                |                |                 |           |            |        |                |         |            |      |               |           |        |     |
|              | Yield as % of Amazon           |                          |                         |                   |                |                 |           |            |        |                |         |            |      |               |           |        |     |
|              | <b>C.W. EXTRA STRONG WHEAT</b> |                          |                         |                   |                |                 |           |            |        |                |         |            |      |               |           |        |     |
| Amazon ☉     | 100                            | (154)                    | 100                     | 100               | 100            | 110             | 61        | 46         | 97     | G              | G       | VG         | F    | XX            | F         | P      | P   |
| Bluesky      | 99                             | (59)                     | 96                      | 101               | XX             | -2              | 61        | 44         | 96     | F              | G       | XX         | XX   | XX            | P         | P      | P   |
| CDC Rama     | 108+                           | (60)                     | 108+                    | 108+              | XX             | -1              | 63        | 48         | 98     | F              | G       | VG         | G    | G             | P         | P      | F   |
| Laser        | 97                             | (59)                     | 90-                     | 100               | XX             | -4              | 61        | 39         | 88     | VG             | G       | VG         | VP   | XX            | P         | F      | VP  |

**REMARKS:** Amazon yields approximately 10% more than Katepwa.

**CWES varieties have limited market potential at present and growers are advised to contact the Canadian Wheat Board.**

Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

**Note:**

Yield is described as Overall Yield (1) and by Yield Test Category (2).

(1) Province-wide yields compared to the check with similar stations years of testing.

(2) Yield by Test Category is described as the % of the check variety in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than the check, yield followed by - is significantly lower than the check and yield without + or - is not significantly different than the check.

See page 18 for symbols used.

## W I N T E R   W H E A T (new yield class table)

| Variety                           | Overall Yield<br>(% CDC OSPREY) |                                | Yield Test Category<br>(% CDC OSPREY) |                |                 |               | Agronomic & Disease Resistance Characteristics |                    |           |                        |                     |                    |          |          |           |                |              |              |           |
|-----------------------------------|---------------------------------|--------------------------------|---------------------------------------|----------------|-----------------|---------------|--|--------------------|-----------|------------------------|---------------------|--------------------|----------|----------|-----------|----------------|--------------|--------------|-----------|
|                                   | All Sites                       | Station<br>years of<br>testing | Low                                   | Medium         | High            | Very High     | Comp.<br>Mat.<br>days                          | Comp<br>Prot.<br>% | Ht.<br>cm | Test<br>Wt.<br>(lb/bu) | Seed<br>Wt.<br>(mg) | Winter<br>Survival | Ldg.     | Shat     | Bunt      | Stripe<br>Rust | Leaf<br>Rust | Stem<br>Rust | FHB       |
|                                   |                                 |                                | <45<br>bu/ac                          | 45-75<br>bu/ac | 75-105<br>bu/ac | >105<br>bu/ac |  |                    |           |                        |                     |                    |          |          |           |                |              |              |           |
| <b>CDC OSPREY (bu/ac)</b>         | <b>75</b>                       |                                | <b>35</b>                             | <b>62</b>      | <b>86</b>       | <b>117</b>    |  |                    |           |                        |                     |                    |          |          |           |                |              |              |           |
| <b>C.W. RED WINTER "SELECT"</b>   |                                 |                                |                                       |                |                 |               |  |                    |           |                        |                     |                    |          |          |           |                |              |              |           |
| <b>CDC OSPREY</b>                 | <b>100</b>                      | <b>(181)</b>                   | <b>100</b>                            | <b>100</b>     | <b>100</b>      | <b>100</b>    | <b>218</b>                                     | <b>12.3</b>        | <b>88</b> | <b>63</b>              | <b>32</b>           | <b>VG</b>          | <b>G</b> | <b>G</b> | <b>VP</b> | <b>XX</b>      | <b>P</b>     | <b>P</b>     | <b>VP</b> |
| AC Bellatrix                      | 103                             | (146)                          | 110                                   | 102            | 101             | 101           | +2   | +0.3               | 87        | 64                     | 36                  | F                  | G        | G        | F         | VP             | VP           | VP           | P         |
| AC Readymade                      | 96                              | (83)                           | 99                                    | 96             | 95              | 97            | +5   | +1.7               | 88        | 63                     | 36                  | P                  | VG       | F        | P         | XX             | VP           | VP           | VP        |
| AC Tempest                        | 98                              | (132)                          | 100                                   | 96             | 99              | 98            | +5   | +1.5               | 87        | 64                     | 37                  | P                  | VG       | G        | P         | XX             | VP           | VP           | VP        |
| CDC Buteo                         | 98                              | (72)                           | 99                                    | 98             | 98              | 101           | +1   | +0.2               | 87        | 65                     | 34                  | VG                 | F        | G        | VP        | XX             | G            | F            | F         |
| McClintock ☉                      | 96                              | (69)                           | 88                                    | 98             | 95              | 100           | +2   | -0.1               | 89        | 64                     | 32                  | P                  | VG       | G        | VP        | G              | VG           | VG           | VP        |
| Norstar                           | 95                              | (131)                          | 103                                   | 96             | 92              | 88            | +2   | -0.1               | 106       | 64                     | 33                  | VG                 | VP       | G        | VP        | XX             | VP           | VP           | F         |
| Radiant ☉                         | 103                             | (116)                          | 103                                   | 100            | 105             | 100           | +2   | -0.1               | 86        | 63                     | 36                  | VG                 | VG       | G        | P         | G              | VP           | VP           | VP        |
| <b>C. W. RED WINTER "GENERIC"</b> |                                 |                                |                                       |                |                 |               |  |                    |           |                        |                     |                    |          |          |           |                |              |              |           |
| CDC CLAIR                         | 103                             | (125)                          | 103                                   | 103            | 104             | 105           | +1   | -0.4               | 86        | 63                     | 34                  | VG                 | F        | G        | VP        | XX             | P            | P            | P         |
| CDC Falcon                        | 102                             | (122)                          | 93                                    | 102            | 102             | 103           | -2   | -0.4               | 72        | 63                     | 31                  | F                  | VG       | G        | VP        | XX             | G            | G            | VP        |
| CDC Harrier                       | 106                             | (107)                          | 108                                   | 106            | 106             | 104           | +1   | -1.1               | 91        | 62                     | 32                  | VG                 | G        | G        | VP        | XX             | P            | G            | VP        |
| CDC Kestrel                       | 104                             | (108)                          | 106                                   | 104            | 105             | 102           | +2   | -1.4               | 91        | 63                     | 32                  | VG                 | F        | G        | VP        | XX             | P            | P            | VP        |
| CDC Raptor                        | 101                             | (86)                           | 96                                    | 102            | 102             | 99            | +2   | -0.4               | 80        | 63                     | 30                  | G                  | VG       | G        | VP        | XX             | G            | G            | VP        |
| <b>C.W. GENERAL PURPOSE</b>       |                                 |                                |                                       |                |                 |               |  |                    |           |                        |                     |                    |          |          |           |                |              |              |           |
| Accipiter                         | 107                             | (12)                           | XX                                    | XX             | XX              | XX            | +1   | -0.1               | 81        | 63                     | 30                  | VG                 | G        | G        | VP        | XX             | G            | G            | XX        |
| CDC Ptarmigan                     | 114                             | (40)                           | XX                                    | 114            | 113             | 113           | +2   | -2.1               | 88        | 61                     | 33                  | F                  | F        | G        | VP        | XX             | VP           | VP           | VP        |
| Peregrine                         | 107                             | (13)                           | XX                                    | XX             | 106             | XX            | +1   | -0.3               | 92        | 65                     | 33                  | VG                 | G        | G        | VP        | G              | G            | VG           | XX        |

**REMARKS:** Winter wheat can be grown successfully in all areas of Alberta if seeded into standing stubble within the optimal seeding date period (generally before September 15) and if there is adequate snowfall. Varieties with Poor or Very Poor winter survival are generally not suitable outside of southern Alberta. Yield figures are from trials with good winter survival. Yield Test Categories are based on the individual site means for small plot trial yields. Note that small plot yields are often 10-15% higher than field scale results. All comparisons are relative to CDC OSPREY, the current standard check variety. The provincial average maturity date for CDC OSPREY is August 6 (218 days after January 1). Radiant has resistance to the wheat curl mite, the vector that carries Wheat Streak Mosaic Virus. AC Bellatrix is the only variety with resistance to common bunt; other varieties should be treated with a systemic seed treatment to reduce the potential for plant infection. Fields in southern Alberta should be inspected in the fall for infestation by Russian wheat aphid, as it may reduce winter survival. Winter wheat will normally escape Fusarium head blight infection if seeded before September 15. CWRW Select varieties receive price and protein premiums under a CWB identity preserved contract program. For details see <http://www.cwb.ca>. Winter wheat is a good feedstock for ethanol production. CDC Ptarmigan is a Canada Western General Purpose (CWGP) wheat variety that has an awnless head and soft white kernels, other varieties in this class are awned and have hard red kernels. Note that the data for Accipiter and Peregrine are limited.

XX = insufficient data to report

Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

Statistics were not calculated to determine if there are significant differences for yield.

See page 18 for symbols used.

## F A L L R Y E (new yield class table)

| Variety              | Overall Yield<br>(% Prima) |                                | Yield Test Category<br>(% Prima) |                          |                         |                            | Agronomic Characteristics |              |                     |                  |                    |                   |          |
|----------------------|----------------------------|--------------------------------|----------------------------------|--------------------------|-------------------------|----------------------------|---------------------------|--------------|---------------------|------------------|--------------------|-------------------|----------|
|                      | All Sites                  | Station<br>years of<br>testing | Low <48<br>bu/ac                 | Medium<br>48-80<br>bu/ac | High<br>80-112<br>bu/ac | Very High<br>>112<br>bu/ac | Comp.<br>Mat. (d)         | Hgt.<br>(cm) | Test Wt.<br>(lb/bu) | Seed Wt.<br>(mg) | Winter<br>Survival | Resist to<br>Ldg. | Shat.    |
| <b>Prima (bu/ac)</b> | <b>80</b>                  |                                | <b>36</b>                        | <b>60</b>                | <b>93</b>               | <b>139</b>                 |                           |              |                     |                  |                    |                   |          |
| <b>Prima</b>         | <b>100</b>                 | <b>(79)</b>                    | <b>100</b>                       | <b>100</b>               | <b>100</b>              | <b>100</b>                 | <b>215</b>                | <b>119</b>   | <b>58</b>           | <b>33</b>        | <b>EX</b>          | <b>F</b>          | <b>F</b> |
| AC Remington         | 101                        | (31)                           | 120                              | 100                      | 98                      | 88                         | +2                        | 97           | 57                  | 30               | EX                 | G                 | VG       |
| AC Rifle             | 101                        | (79)                           | 114                              | 106                      | 97                      | 87                         | 0                         | 87           | 57                  | 30               | EX                 | VG                | VG       |
| Dakota               | 120                        | (45)                           | 120                              | 123                      | 116                     | XX                         | +2                        | 111          | 56                  | 34               | EX                 | F                 | XX       |
| Hazlet               | 119                        | (22)                           | XX                               | 128                      | XX                      | 106                        | +3                        | 105          | 58                  | 39               | EX                 | G                 | XX       |
| Musketeer            | 91                         | (40)                           | 88                               | 92                       | 93                      | 93                         | +2                        | 120          | 56                  | 33               | EX                 | F                 | F        |

REMARKS: Environment productivity divisions are based on the individual site means for small plot trial yields. The provincial average maturity date for Prima is August 3 (215 days after January 1). AC Rifle and AC Remington are semi-dwarf varieties. Hazlet has lower viscosity which improves feed performance in monogastric livestock.

XX = insufficient data to report

Statistics were not calculated to determine if there are significant differences for yield.

Ratings: EX = Excellent, VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

**FLAX (new yield class table)**

| Variety                  | Overall Yield (1)<br>(% CDC Bethune) |                                | Yield Test Category (2)<br>(as % of CDC Bethune) |                            |                          |                           | Agronomic Characteristics |              |                |           |
|--------------------------|--------------------------------------|--------------------------------|--|----------------------------|--------------------------|---------------------------|---------------------------|--------------|----------------|-----------|
|                          | All Sites                            | Station<br>years of<br>testing | Low <20<br>bu/ac                                 | Medium<br>20 - 35<br>bu/ac | High<br>35 - 50<br>bu/ac | Very High<br>>50<br>bu/ac | Comp.<br>Mat.             | Seed<br>Size | Height<br>(cm) | Lodging   |
| <b>CDC Bethune bu/ac</b> | <b>35</b>                            |                                | <b>14</b>  | <b>28</b>                  | <b>42</b>                | <b>60</b>                 |                           |              |                |           |
| <b>CDC Bethune</b> ☺     | <b>100</b>                           | <b>(92)</b>                    | <b>100</b>                                       | <b>100</b>                 | <b>100</b>               | <b>100</b>                | <b>111</b>                | <b>M</b>     | <b>57</b>      | <b>VG</b> |
| CDC Arras †              | 94-                                  | (27)                           | 97   | 95                         | 97                       | 87-                       | 0                         | L            | 61             | F         |
| CDC Normandy †           | 95-                                  | (66)                           | 104  | 94                         | 93                       | 91-                       | -1                        | M            | 58             | F         |
| CDC Sorrel ☺             | 104                                  | (32)                           | 112  | 107                        | 98                       | 99                        | 1                         | L            | 61             | G         |
| Flanders                 | 100                                  | (43)                           | 108  | 100                        | 98                       | 97                        | 2                         | S            | 57             | G         |
| Hanley ☺                 | 97                                   | (35)                           | 98   | 101                        | 94                       | 97                        | 0                         | M            | 52             | VG        |
| Macbeth ☺ †              | 91                                   | (18)                           | XX   | XX                         | XX                       | XX                        | 1                         | M            | 52             | G         |
| NorLin †                 | 95-                                  | (92)                           | 107  | 93-                        | 93-                      | 90-                       | -2                        | M            | 57             | G         |
| Prairie Blue ☺           | 95                                   | (13)                           | XX   | 99                         | XX                       | XX                        | 1                         | S            | 53             | VG        |
| Prairie Grande ☺         | 98                                   | (36)                           | 99   | 100                        | 95                       | XX                        | -2                        | M            | 52             | VG        |
| Prairie Thunder ☺        | 99                                   | (28)                           | 105  | 93                         | 96                       | XX                        | -2                        | M            | 52             | VG        |
| Taurus ☺                 | 98-                                  | (27)                           | 108  | 95                         | XX                       | XX                        | 0                         | M            | 53             | VG        |

Yield is described as Overall Yield (1) and by Yield Test Category (2).

(1) Province-wide yields compared to CDC Bethune with similar stations years of testing.

(2) Yield by Test Category is described as the % of CDC Bethune in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than CDC Bethune, yield followed by - is significantly lower than CDC Bethune and yield without + or - is not significantly different than CDC Bethune.

Maturities are stated in days +/- CDC Bethune.

Data marked XX, not sufficient data to describe

Lodging Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor

See page 18 for symbols used.

## SPRING TRITICALE (new yield class table)

| Variety                | Overall Yield (1)<br>% Pronghorn |                                | Test Yield Category (2)<br>% Pronghorn |                         |                          |                               | Rel Mat<br>(d) | Test Wt<br>(lb/bu) | Kernel<br>Wt<br>(g/1000) | Plant<br>Height<br>(cm) | Resistance to: |          |               | Tolerance to: |          |          |
|------------------------|----------------------------------|--------------------------------|--|-------------------------|--------------------------|-------------------------------|----------------|--------------------|--------------------------|-------------------------|----------------|----------|---------------|---------------|----------|----------|
|                        | All<br>Sites                     | Station<br>years of<br>testing | Low<br><60<br>bu/ac                    | Med<br>60 - 80<br>bu/ac | High<br>80- 110<br>bu/ac | Very<br>High<br>>110<br>bu/ac |                |                    |                          |                         | Lodg           | Shat     | Loose<br>Smut | Bunt          | Sprout   | FHB      |
| <b>Pronghorn bu/ac</b> | <b>90</b>                        |                                | <b>46</b>                              | <b>71</b>               | <b>95</b>                | <b>132</b>                    |                |                    |                          |                         |                |          |               |               |          |          |
| <b>Pronghorn</b>       | <b>100</b>                       | <b>(243)</b>                   | <b>100</b>                             | <b>100</b>              | <b>100</b>               | <b>100</b>                    | <b>110</b>     | <b>55</b>          | <b>43</b>                | <b>102</b>              | <b>G</b>       | <b>G</b> | <b>VG</b>     | <b>VG</b>     | <b>F</b> | <b>G</b> |
| AC Ultima              | 99                               | (152)                          | 106+                                   | 100                     | 102                      | 94-                           | -3             | 56                 | 45                       | 96                      | G              | G        | VG            | VG            | F        | F        |
| Bunker ◊               | 90-                              | (49)                           | 92                                     | 88-                     | 90-                      | 89-                           | 3              | 57                 | 48                       | 107                     | F              | G        | VG            | VG            | F        | F        |
| Companion              | 92-                              | (50)                           | 101                                    | 90-                     | 91                       | 85-                           | 1              | 55                 | 51                       | 116                     | XX             | XX       | VG            | VG            | XX       | XX       |
| Tyndal ◊               | 101                              | (49)                           | 109+                                   | 101                     | 96                       | 93-                           | 1              | 57                 | 44                       | 97                      | G              | G        | VG            | VG            | P        | P        |

**REMARKS:** All varieties are late maturing compared to CWRS wheats (approximately 5 days later). Pronghorn and AC Ultima are earlier maturing than other spring triticale varieties. Large seeded varieties should have an increased seeding rate. Companion is a forage type. Bunker ◊ and Tyndal ◊ are reduced-awn varieties. Triticale susceptibility to FHB is similar to wheat. Pronghorn yields about 30% greater than AC Barrie CWRS wheat in areas of adaptation. XX: insufficient data. Bumper (T196) - insufficient data to describe.

Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

**Note:**

Yield is described as Overall Yield (1) and by Yield Test Category (2).

Yield by Test Category is described as the % of Pronghorn in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than Pronghorn, yield followed by - is significantly lower than Pronghorn and yield without + or - is not significantly different than Pronghorn.

See page 18 for symbols used.

## WINTER TRITICALE

| Variety             | Overall Yield<br>(% Pika) |                          | Agronomic Characteristics |            |                 |                |                  |               |
|---------------------|---------------------------|--------------------------|---------------------------|------------|-----------------|----------------|------------------|---------------|
|                     | All Sites                 | Station years of testing | Comp. Mat. (d)            | Hgt. (cm)  | Winter Survival | Resist to Ldg. | Test Wt. (lb/bu) | Seed Wt. (mg) |
| <b>Pika (bu/ac)</b> | <b>73</b>                 |                          |                           |            |                 |                |                  |               |
| <b>Pika</b>         | <b>100</b>                | <b>(42)</b>              | <b>220</b>                | <b>119</b> | <b>VG</b>       | <b>VP</b>      | <b>54</b>        | <b>38</b>     |
| Bobcat              | 94                        | (40)                     | +4                        | 99         | F               | G              | 54               | 36            |
| Luoma               | 105                       | (14)                     | +6                        | 118        | VG              | F              | 54               | 39            |
| Metzger             | 102                       | (14)                     | -1                        | 107        | VG              | G              | 54               | 35            |
| CDC Osprey          | 111                       | (28)                     | -5                        | 88         | VG              | G              | 64               | 32            |

**REMARKS:** Winter triticale has winter hardiness potential equal to that of winter wheat. The overall average grain yield of winter triticale is slightly lower than winter wheat. The provincial average maturity date for Pika is August 8 (220 days after January 1). Bobcat, Luoma and Metzger have heads with reduced awn length (awnletted), making them more palatable in forage applications. Luoma and Metzger will not be available in 2010. Fridge is a forage winter triticale for which data are not available.

Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

Statistics were not calculated to determine if there are significant differences for yield.

**BARLEY (new yield class table)**

| Variety                     | TYPE/<br>ROW | AWN      | Overall Yield (1)<br>% AC Metcalfe |                          | Yield by Test Yield Category (2)<br>as % of AC Metcalfe |                    |                     |                      | Agronomic characteristics  |            |             |             |          | Disease tolerance |                 |             |           |                      |                     |           |
|-----------------------------|--------------|----------|------------------------------------|--------------------------|---|--------------------|---------------------|----------------------|----------------------------|------------|-------------|-------------|----------|-------------------|-----------------|-------------|-----------|----------------------|---------------------|-----------|
|                             |              |          | All Sites                          | Station years of testing | Low <60 bu/ac   | Medium 60-90 bu/ac | High 90 - 120 bu/ac | Very high >120 bu/ac | Maturity Days +/- Metcalfe | TWT lbs/bu | KWT g/1000k | Height (cm) | Lodg     | Loose Smut        | Fl. & Cov. Smut | Com Rt. Rot | Scald     | Spot form Net Blotch | Net form Net Blotch | Toler FHB |
| <b>AC Metcalfe bu/ac</b>    |              |          | <b>100</b>                         |                          | <b>45</b>   | <b>77</b>          | <b>105</b>          | <b>136</b>           |                            |            |             |             |          |                   |                 |             |           |                      |                     |           |
| <b>GENERAL PURPOSE</b>      |              |          |                                    |                          |   |                    |                     |                      |                            |            |             |             |          |                   |                 |             |           |                      |                     |           |
| <b>AC Metcalfe (malt)</b> ☺ | <b>2</b>     | <b>R</b> | <b>100</b>                         | <b>(368)</b>             | <b>100</b>  | <b>100</b>         | <b>100</b>          | <b>100</b>           | <b>99</b>                  | <b>52</b>  | <b>46</b>   | <b>80</b>   | <b>F</b> | <b>VG</b>         | <b>F</b>        | <b>F</b>    | <b>VP</b> | <b>F</b>             | <b>VP</b>           | <b>F</b>  |
| *AC Harper ☺                | 6            | SS       | 103+                               | (166)                    | 95  | 100                | 105+                | 104+                 | 0                          | 48         | 40          | 80          | G        | P                 | F               | F           | F         | F                    | F                   | P         |
| *AC Lacombe ☺               | 6            | S        | 106+                               | (190)                    | 102   | 105+               | 107+                | 109+                 | -1                         | 48         | 42          | 84          | G        | P                 | G               | P           | P         | G                    | P                   | VP        |
| *AC Ranger                  | 6            | S        | 107+                               | (48)                     | 103   | 102                | 114+                | 106                  | 2                          | 49         | 43          | 74          | F        | P                 | F               | G           | P         | G                    | F                   | VP        |
| *AC Rosser ☺                | 6            | S        | 110+                               | (54)                     | 103   | 108+               | 111+                | 113+                 | 2                          | 48         | 41          | 82          | F        | P                 | VG              | G           | VP        | G                    | F                   | VP        |
| Busby ▲                     | 2            | R        | 104                                | (30)                     | XX  | 109                | 101                 | 102                  | 0                          | 53         | 49          | 79          | G        | VP                | G               | VP          | F         | G                    | P                   | F         |
| CDC Austenson ▲             | 2            | R        | 111+                               | (30)                     | XX  | 115+               | 109+                | 111+                 | -1                         | 54         | 47          | 76          | G        | VP                | VG              | F           | VP        | G                    | P                   | F         |
| CDC Coalition ☺             | 2            | S        | 110+                               | (47)                     | XX  | 115+               | 106+                | 110+                 | 1                          | 53         | 47          | 74          | G        | VG                | VG              | F           | VP        | G                    | VP                  | F         |
| CDC Cowboy ☺                | 2            | R        | 95-                                | (71)                     | XX  | 95-                | 93-                 | 94-                  | 3                          | 52         | 55          | 103         | G        | P                 | G               | F           | P         | G                    | F                   | G         |
| CDC Dolly                   | 2            | R        | 101                                | (184)                    | 97  | 102                | 102                 | 100                  | 0                          | 53         | 49          | 74          | F        | VP                | F               | F           | F         | P                    | VP                  | G         |
| CDC Helgason ☺              | 2            | R        | 101+                               | (101)                    | 101   | 99                 | 103+                | 102                  | -2                         | 52         | 46          | 75          | G        | VG                | G               | F           | VP        | G                    | G                   | P         |
| CDC Mindon ☺                | 2            | R        | 99                                 | (47)                     | XX  | 102                | 99                  | 96-                  | 0                          | 52         | 48          | 77          | G        | VG                | VG              | XX          | VP        | G                    | VP                  | G         |
| CDC Trey ☺                  | 2            | R        | 103+                               | (106)                    | 103   | 106+               | 100                 | 104+                 | -1                         | 52         | 50          | 80          | G        | P                 | VG              | G           | P         | VG                   | F                   | F         |
| Champion ☺                  | 2            | R        | 112+                               | (66)                     | 127+  | 115+               | 108+                | 109+                 | 0                          | 53         | 49          | 78          | G        | VP                | VG              | XX          | VP        | F                    | VP                  | F         |
| Chigwell ▲                  | 6            | S        | 107                                | (16)                     | XX  | 106                | XX                  | XX                   | 2                          | 49         | 40          | 71          | G        | P                 | G               | P           | G         | G                    | F                   | VP        |
| CONLON ☺                    | 2            | S        | 94-                                | (59)                     | XX  | 95-                | 93-                 | 94-                  | -3                         | 52         | 52          | 80          | G        | F                 | F               | G           | VP        | G                    | F                   | G         |
| Manny ☺                     | 6            | R        | 108+                               | (59)                     | XX  | 108                | 106+                | 111+                 | -2                         | 48         | 41          | 86          | G        | XX                | VG              | P           | VG        | F                    | P                   | P         |
| McLeod ☺                    | 2            | R        | 107+                               | (95)                     | XX  | 109+               | 105+                | 106+                 | 1                          | 51         | 49          | 76          | G        | VP                | VG              | F           | VP        | F                    | VP                  | F         |
| Niobe ☺                     | 2            | R        | 103+                               | (60)                     | XX  | 101                | 104                 | 105+                 | -1                         | 50         | 46          | 75          | G        | P                 | G               | P           | F         | VG                   | P                   | P         |
| Ponoka ☺                    | 2            | R        | 108+                               | (113)                    | 101   | 108+               | 109+                | 108+                 | 2                          | 51         | 47          | 80          | G        | VG                | VG              | F           | G         | G                    | P                   | F         |
| Seebe                       | 2            | R        | 101                                | (226)                    | 99  | 101                | 102+                | 98                   | 4                          | 52         | 50          | 86          | G        | VP                | VG              | F           | G         | P                    | VP                  | G         |
| *Stander ☺                  | 6            | SS       | 104+                               | (76)                     | XX  | 103                | 105                 | 104                  | 1                          | 51         | 41          | 85          | G        | P                 | P               | F           | VP        | G                    | VP                  | VP        |
| Sundre ☺                    | 6            | S        | 110+                               | (60)                     | 107   | 105                | 113+                | 116+                 | 1                          | 51         | 43          | 85          | G        | P                 | VG              | P           | VG        | F                    | P                   | VP        |
| Trochu ☺                    | 6            | S        | 106+                               | (64)                     | XX  | 106                | 104                 | 111+                 | -1                         | 49         | 42          | 78          | G        | P                 | G               | G           | F         | G                    | VP                  | F         |
| XENA ☺                      | 2            | R        | 112+                               | (198)                    | 113+  | 112+               | 112+                | 111+                 | 1                          | 52         | 49          | 78          | G        | P                 | P               | G           | VP        | F                    | VP                  | G         |

**BARLEY (new yield class table) (continued)**

| Variety                  | TYPE/<br>ROW | AWN | Overall Yield (1)<br>% AC Metcalfe |                          | Yield by Test Yield Category (2)<br>as % of AC Metcalfe |                    |                     |                      | Agronomic characteristics  |            |             |             |      |            | Disease tolerance |             |       |                      |                     |           |
|--------------------------|--------------|-----|------------------------------------|--------------------------|---|--------------------|---------------------|----------------------|----------------------------|------------|-------------|-------------|------|------------|-------------------|-------------|-------|----------------------|---------------------|-----------|
|                          |              |     | All Sites                          | Station years of testing | Low <60 bu/ac   | Medium 60-90 bu/ac | High 90 - 120 bu/ac | Very high >120 bu/ac | Maturity Days +/- Metcalfe | TWT lbs/bu | KWT g/1000k | Height (cm) | Lodg | Loose Smut | Fl. & Cov. Smut   | Com Rt. Rot | Scald | Spot form Net Blotch | Net form Net Blotch | Toler FHB |
| <b>SEMI-DWARF</b>        |              |     |                                    |                          |   |                    |                     |                      |                            |            |             |             |      |            |                   |             |       |                      |                     |           |
| CDC Bold                 | 2            | R   | 106+                               | (77)                     | 115+  | 106+               | 106+                | 100                  | 0                          | 53         | 48          | 72          | VG   | P          | G                 | G           | F     | F                    | VP                  | VP        |
| *Mahigan                 | 6            | SS  | 101                                | (111)                    | 85-   | 99                 | 103                 | 103                  | 1                          | 49         | 36          | 47          | VG   | VP         | VG                | P           | G     | F                    | F                   | VP        |
| Vivar ☉                  | 6            | R   | 110+                               | (79)                     | 105   | 107+               | 110+                | 115+                 | -1                         | 49         | 44          | 75          | VG   | F          | VG                | G           | F     | G                    | VG                  | VP        |
| <b>HULLESS VARIETIES</b> |              |     |                                    |                          |   |                    |                     |                      |                            |            |             |             |      |            |                   |             |       |                      |                     |           |
| *AC Bacon †              | 6            | S   | 91-                                | (86)                     | 84-   | 91-                | 95-                 | XX                   | 1                          | 58         | 37          | 85          | F    | P          | F                 | F           | F     | P                    | VP                  | G         |
| *CDC McGwire ☉†          | 2            | R   | 93-                                | (107)                    | 88-   | 93-                | 95-                 | XX                   | -1                         | 61         | 39          | 80          | VG   | P          | G                 | G           | F     | G                    | F                   | G         |
| Falcon ☉†                | 6            | S   | 85-                                | (96)                     | 82-   | 84-                | 86-                 | 87                   | -2                         | 58         | 35          | 68          | VG   | P          | G                 | F           | F     | F                    | F                   | VP        |
| Millhouse ☉              | 2            | R   | 84-                                | (35)                     | 86-   | 87-                | 80-                 | XX                   | 0                          | 57         | 42          | 87          | F    | VP         | G                 | F           | P     | P                    | P                   | F         |
| Tyto                     | 6            | S   | 84-                                | (43)                     | 78-   | 84-                | 85-                 | XX                   | 1                          | 55         | 39          | 73          | VG   | VP         | VG                | F           | P     | F                    | VP                  | P         |

**REMARKS:** Yield values with a + symbol indicate significantly higher yield than the check variety, a - symbol indicates significantly lower yield than the check variety, and varieties without a symbol are not significantly different from the check variety. The check variety is AC Metcalfe.

(1) All site yields; variety yields compared to AC Metcalfe with similar stations years of testing. Eg. AC Harper is 103% of AC Metcalfe at 166 stations where these varieties were tested together.

(2) Yield by Test Category is described as the % of AC Metcalfe in bu/ac categories under low, medium, high and very high conditions.

\* These varieties have been adjusted to AC Metcalfe from Harrington.

Maturities are stated in days +/- AC Metcalfe.

Data marked XX, not sufficient data to describe.

Feed barley variety currently in development but with insufficient data to describe in these tables - TR07728; 2 row hulless barley variety currently in development but with insufficient data to describe in these tables - HB705;

Lodging & Disease Tolerance Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

See page 18 for symbols used.

**BARLEY (new yield class table)**

| Variety                              | TYPE/<br>ROW | AWN | Overall Yield (1)<br>% AC Metcalfe |                          | Yield by Test Yield Category (2)<br>as % of AC Metcalfe |                    |                     |                      | Agronomic characteristics  |            |             |             |      | Disease tolerance |                 |             |       |                      |                     |           |
|--------------------------------------|--------------|-----|------------------------------------|--------------------------|---|--------------------|---------------------|----------------------|----------------------------|------------|-------------|-------------|------|-------------------|-----------------|-------------|-------|----------------------|---------------------|-----------|
|                                      |              |     | All Sites                          | Station years of testing | Low <60 bu/ac   | Medium 60-90 bu/ac | High 90 - 120 bu/ac | Very high >120 bu/ac | Maturity Days +/- Metcalfe | TWT lbs/bu | KWT g/1000k | Height (cm) | Lodg | Loose Smut        | Fl. & Cov. Smut | Com Rt. Rot | Scald | Spot form Net Blotch | Net form Net Blotch | Toler FHB |
| <b>AC Metcalfe bu/ac</b>             |              |     | <b>100</b>                         |                          | <b>45</b>   | <b>77</b>          | <b>105</b>          | <b>136</b>           |                            |            |             |             |      |                   |                 |             |       |                      |                     |           |
| <b>RECOMMENDED MALTING VARIETIES</b> |              |     |                                    |                          |   |                    |                     |                      |                            |            |             |             |      |                   |                 |             |       |                      |                     |           |
| AC Metcalfe ◊                        | 2            | R   | 100                                | (368)                    | 100   | 100                | 100                 | 100                  | 99                         | 52         | 46          | 80          | F    | VG                | F               | F           | VP    | F                    | VP                  | F         |
| CDC Copeland ◊                       | 2            | R   | 103+                               | (137)                    | 100   | 103                | 104+                | 102                  | 1                          | 51         | 47          | 81          | F    | P                 | F               | F           | VP    | F                    | F                   | F         |
| CDC Kendall ◊                        | 2            | R   | 98-                                | (165)                    | 100   | 98                 | 97-                 | 96-                  | -2                         | 52         | 45          | 78          | F    | P                 | P               | G           | VP    | G                    | F                   | F         |
| LEGACY ◊                             | 6            | SS  | 101                                | (74)                     | XX  | 100                | 100                 | 103                  | -2                         | 49         | 40          | 85          | G    | F                 | G               | G           | VP    | G                    | VP                  | P         |
| Newdale ◊                            | 2            | R   | 105+                               | (86)                     | 107   | 105+               | 103+                | 107+                 | -1                         | 52         | 46          | 72          | F    | VP                | G               | G           | P     | G                    | F                   | F         |
| Tradition ◊                          | 6            | SS  | 100                                | (88)                     | 94  | 101                | 100                 | 101                  | -2                         | 49         | 41          | 83          | G    | VP                | G               | G           | VP    | F                    | VP                  | VP        |
| <b>MALTING VARIETIES UNDER TEST</b>  |              |     |                                    |                          |   |                    |                     |                      |                            |            |             |             |      |                   |                 |             |       |                      |                     |           |
| Bentley ▲                            | 2            | R   | 105+                               | (30)                     | XX  | 103                | 102                 | 105                  | 0                          | 52         | 46          | 79          | G    | P                 | G               | G           | VP    | VG                   | P                   | P         |
| CDC Clyde ◊                          | 6            | SS  | 102                                | (77)                     | 99  | 100                | 103                 | 103                  | -2                         | 49         | 40          | 76          | G    | F                 | VG              | G           | P     | G                    | F                   | VP        |
| CDC Kamsack ▲                        | 6            | R   | 98                                 | (25)                     | XX  | 98                 | 102                 | 100                  | -1                         | 49         | 41          | 71          | G    | F                 | G               | F           | P     | F                    | VP                  | VP        |
| CDC Mayfair ▲                        | 6            | R   | 100                                | (25)                     | XX  | 103                | 100                 | 95                   | -2                         | 49         | 41          | 73          | G    | VP                | G               | F           | VP    | G                    | P                   | P         |
| CDC Meredith ▲                       | 2            | R   | 107+                               | (30)                     | XX  | 115+               | 107+                | 103                  | 1                          | 52         | 46          | 74          | F    | VG                | G               | G           | VP    | VG                   | VP                  | F         |
| CDC Reserve ▲                        | 2            | R   | 103                                | (30)                     | 99  | 104                | 98                  | 100                  | -1                         | 53         | 43          | 76          | F    | VP                | P               | F           | P     | P                    | VP                  | P         |
| CDC YORKTON                          | 6            | S   | 100                                | (37)                     | XX  | 98                 | 99                  | 106                  | -2                         | 47         | 39          | 81          | G    | P                 | G               | G           | P     | G                    | F                   | VP        |
| TR05671 ▲                            | 2            | R   | 102                                | (30)                     | XX  | 107                | 100                 | 100                  | -1                         | 52         | 47          | 78          | G    | VP                | VG              | G           | F     | G                    | VP                  | G         |

**BARLEY (new yield class table) (continued)**

| Variety                        | TYPE/<br>ROW | AWN | Overall Yield (1)<br>% AC Metcalfe |                                | Yield by Test Yield Category (2)<br>as % of AC Metcalfe |                          |                           |                               | Agronomic characteristics           |                   |                |                |      | Disease tolerance |                          |                   |       |                               |                              |              |
|--------------------------------|--------------|-----|------------------------------------|--------------------------------|---|--------------------------|---------------------------|-------------------------------|-------------------------------------|-------------------|----------------|----------------|------|-------------------|--------------------------|-------------------|-------|-------------------------------|------------------------------|--------------|
|                                |              |     | All<br>Sites                       | Station<br>years of<br>testing | Low<br><60<br>bu/ac                                     | Medium<br>60-90<br>bu/ac | High<br>90 - 120<br>bu/ac | Very<br>high<br>>120<br>bu/ac | Maturity<br>Days<br>+/-<br>Metcalfe | TWT<br>lbs/<br>bu | KWT<br>g/1000k | Height<br>(cm) | Lodg | Loose<br>Smut     | Fl.<br>&<br>Cov.<br>Smut | Com<br>Rt.<br>Rot | Scald | Spot<br>form<br>Net<br>Blotch | Net<br>form<br>Net<br>Blotch | Toler<br>FHB |
| <b>OTHER MALTING VARIETIES</b> |              |     |                                    |                                |   |                          |                           |                               |                                     |                   |                |                |      |                   |                          |                   |       |                               |                              |              |
| CDC Battleford ♂ †             | 6            | S   | 102+                               | (76)                           | XX  | 99                       | 102                       | 107+                          | -1                                  | 49                | 41             | 84             | G    | P                 | G                        | G                 | P     | VG                            | P                            | VP           |
| *Excel †                       | 6            | R   | 102                                | (50)                           | 95  | 106                      | 100                       | 102                           | 0                                   | 50                | 40             | 75             | G    | P                 | F                        | G                 | VP    | F                             | VP                           | VP           |
| Formosa                        | 2            | R   | 98                                 | (36)                           | XX  | 99                       | 94-                       | 102                           | -1                                  | 53                | 48             | 79             | XX   | XX                | XX                       | XX                | VP    | F                             | VP                           | XX           |
| Harrington                     | 2            | R   | 93-                                | (284)                          | 99  | 96-                      | 92-                       | 89-                           | -1                                  | 50                | 44             | 78             | F    | P                 | P                        | F                 | VP    | P                             | VP                           | G            |
| Lacey ♂ †                      | 6            | SS  | 103                                | (40)                           | XX  | 102                      | 103                       | 105                           | -1                                  | 49                | 42             | 78             | G    | F                 | G                        | G                 | VP    | F                             | VP                           | VP           |

**REMARKS:** Yield values with a + symbol indicate significantly higher yield than the check variety, a - symbol indicates significantly lower yield than the check variety, and varieties without a symbol are not significantly different from the check variety. The check variety is AC Metcalfe. Yield is described by the following two methods.

(1) All site yields; variety yields compared to AC Metcalfe with similar stations years of testing. Eg. CDC Copeland is 103% of AC Metcalfe at 137 stations where these varieties were tested together.

(2) Yield by Test Category is described as the % of AC Metcalfe in bu/ac categories under low, medium, high and very high conditions

\* These varieties have been adjusted to AC Metcalfe from the previous check variety Harrington.

Maturities are stated in days +/- AC Metcalfe.

Data marked XX, not sufficient data to describe.

Malting barley varieties are designated as per the CMBTC (Canadian Malting Barley Technical Centre 204-984-4399) as;

Recommended - as varieties expected to be selected for both foreign and domestic markets in 2010.

Under test - not being grown for the commercial market but for testing and market development (not a complete list).

Other - not recommended but a market may exist for these varieties.

Malting barley varieties currently in development but with insufficient data to describe in these tables are Major, TR06294, CDC Landis, Norman, Merit 57 and CDC PolarStar.

Lodging & Disease Tolerance Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

See page 18 for symbols used.

## O A T S (new yield class table)

| Variety                  | Overall Yield (1) |                          | Test Yield Category (2) |                    |                      |                       | Comp Mat days | Height cm  | Te. Wt. lb/bu | Kn. Wt. g/1000 | Resistance to: |           |  |
|--------------------------|-------------------|--------------------------|-------------------------|--------------------|----------------------|-----------------------|---------------|------------|---------------|----------------|----------------|-----------|--|
|                          | All Sites         | Station years of testing | Low <70 bu/ac           | Med 70 - 100 bu/ac | High 100 - 130 bu/ac | Very High > 130 bu/ac |               |            |               |                | Ldg.           | Smuts     |  |
| <b>Cascade Avg bu/ac</b> | <b>97</b>         |                          | <b>53</b>               | <b>85</b>          | <b>114</b>           | <b>149</b>            | <b>104</b>    | <b>100</b> | <b>39</b>     | <b>37</b>      | <b>G</b>       | <b>VP</b> |  |
|                          |                   |                          | Yield as % Cascade      |                    |                      |                       |               |            |               |                |                |           |  |
|                          |                   |                          | <b>FEED</b>             |                    |                      |                       |               |            |               |                |                |           |  |
| <b>Cascade</b>           | <b>100</b>        | <b>(159)</b>             | <b>100</b>              | <b>100</b>         | <b>100</b>           | <b>100</b>            |               |            |               |                |                |           |  |
| AC Mustang               | 110+              | (100)                    | 113+                    | 109+               | 109+                 | 107+                  | 2             | 104        | 42            | 38             | G              | F         |  |
| Lu                       | 98                | (50)                     | 97                      | 97                 | 105                  | 97                    | -3            | 83         | 41            | 39             | G              | VG        |  |
|                          |                   |                          | <b>FORAGE</b>           |                    |                      |                       |               |            |               |                |                |           |  |
| CDC Baler                | 99                | (42)                     | 95                      | 108+               | 100                  | 90                    | 4             | 99         | 40            | 43             | XX             | VP        |  |
| Murphy ☉                 | 95-               | (51)                     | 94-                     | 96                 | 99                   | 90-                   | 4             | 108        | 39            | 36             | XX             | VP        |  |
|                          |                   |                          | <b>MILLING</b>          |                    |                      |                       |               |            |               |                |                |           |  |
| AC Juniper               | 100               | (80)                     | 98                      | 99                 | 103                  | 102                   | -1            | 94         | 41            | 38             | VG             | F         |  |
| AC Morgan                | 109+              | (89)                     | 107                     | 109+               | 112+                 | 107+                  | 2             | 91         | 40            | 41             | VG             | P         |  |
| CDC Boyer                | 98                | (89)                     | 98                      | 100                | 98                   | 97                    | 1             | 101        | 39            | 42             | G              | VP        |  |
| CDC Dancer ☉             | 100               | (77)                     | 100                     | 99                 | 99                   | 100                   | -1            | 91         | 41            | 36             | G              | VG        |  |
| CDC Minstrel             | 106+              | (30)                     | 108                     | 107+               | 101                  | 108+                  | 2             | 84         | 39            | 38             | XX             | VG        |  |
| CDC Orrin ☉              | 109+              | (50)                     | 113+                    | 106+               | 109+                 | 103                   | 3             | 85         | 41            | 40             | G              | VG        |  |
| CDC ProFi                | 96-               | (30)                     | 104                     | 96                 | 90-                  | 92                    | 1             | 80         | 38            | 41             | XX             | P         |  |
| CDC Weaver ☉             | 105               | (44)                     | 110+                    | 106                | 102                  | 99                    | 4             | 91         | 40            | 43             | F              | VG        |  |
| Derby                    | 97-               | (79)                     | 98                      | 99                 | 96-                  | 95-                   | 2             | 103        | 41            | 39             | G              | P         |  |
| Jordan ☉                 | 112+              | (34)                     | 112+                    | 116+               | XX                   | 111+                  | 6             | 88         | 38            | 45             | XX             | VG        |  |
| Kaufmann                 | 89-               | (26)                     | 82-                     | 92-                | 95                   | 84-                   | 5             | 101        | 40            | 44             | G              | VG        |  |
| Leggett ☉                | 96-               | (40)                     | 99                      | 94                 | XX                   | 96                    | 4             | 88         | 41            | 39             | G              | VG        |  |
| Ronald ☉                 | 94-               | (55)                     | 94-                     | 91-                | 100                  | 94                    | 2             | 83         | 41            | 37             | VG             | VG        |  |
| SW Betania ☉             | 102               | (43)                     | 106+                    | 105+               | 94-                  | 97                    | 1             | 88         | 40            | 39             | G              | VG        |  |
| Triactor ☉               | 117+              | (30)                     | 121+                    | 111+               | 116+                 | 118+                  | 2             | 86         | 38            | 39             | XX             | XX        |  |

**REMARKS:** The check variety is Cascade. Use higher seeding rate for large seeded varieties. Bradley - insufficient data to describe. Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

**Note:**

Yield is described as Overall Yield (1) and by Yield Test Category (2).

(1) Province-wide yields compared to the check with similar stations years of testing.

(2) Yield by Test Category is described as the % of Cascade in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than Cascade, yield followed by - is significantly lower than Cascade and yield without + or - is not significantly different than Cascade.

See page 18 for symbols used.

**Symbols used:**

- † Denotes variety may not be described in 2010.
- XX Denotes insufficient test data to describe.
- ⊕ Denotes variety protected by Plant Breeder's Rights.
- ▲ Denotes protection under Plant Breeder's Rights has been applied for.

**Abbreviations used:**

Awn Type: R = Rough, S = Smooth, SS = Semi-smooth  
Comp. Mat. = Comparative maturity in (+ or -) days from the check variety.  
Comp Prot. = Comparative protein in (+ or -) per cent from the check variety.  
Te. Wt. & TWT = Test Weight (lb/bu) pounds per bushel. Multiply lb/bu by 1.25 to get kilograms per hectoliter.  
Kn. Wt. & KWT = Kernel weight (grams/1,000 kernels).  
Ht. cm = Height in centimeters.  
Seed Size: S = Small, M = Medium, M-L = Medium Large, L = Large.  
Ldg. = Lodging; Shat. = Shattering: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.  
Com. Rt. Rot = Common root rot; FL & Cov. Smut = False loose & covered smuts.  
Net Blt. = Net blotch: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.  
Sprout Toler. = Sprouting Tolerance: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.  
Leaf Spot: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.  
Toler. FHB = Fusarium Head Blight Tolerance: G = Good, F = Fair, P = Poor, VP = Very Poor.

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# Prairie Canola variety trial (PCVT)

## Background

The Prairie Canola Variety Testing (PCVT) program entered its seventh year in 2009. The testing system unites the provincial variety testing programs to standardize protocol and improve trial consistency and quality. Now, growers can look to a single source of information on how a canola variety performed in three different zones across western Canada.

The Canola Council of Canada, canola seed industry, Western Canada Canola /Rapeseed Recommending Committee, Saskatchewan Agriculture, Manitoba Agriculture, Food and Rural Initiatives, Alberta Agriculture and Rural Development as well as Agriculture and Agri-Food Canada contributed to the development and operation of the PCVT. Trials were conducted by seed companies, government researchers and independent contractors in three growing zones across the prairies: short-, mid- and long-season zones (see map).

## Interpreting PCVT information

Use the map to identify your zone of adaptation. For site-specific data, please refer to the Canola Digest or the Canola Council of Canada website. Do not limit your search to the areas closest to you. Comparing local results to other locations with similar growing conditions can also be valuable.

The table shows variety yield as a per cent relative to the check variety or varieties. Although variety trials are carefully conducted, small percentage differences (e.g. <5%) in yield are usually insignificant. Least

significant differences (LSD) at the bottom of the zone yield columns show what difference is needed to be 95 per cent confident they are real and not due to chance. The table includes information on maturity, resistance to lodging, blackleg resistance, varietal type (open-pollinated, hybrid, synthetic) and herbicide tolerance. Use this information in addition to yield to choose a variety.

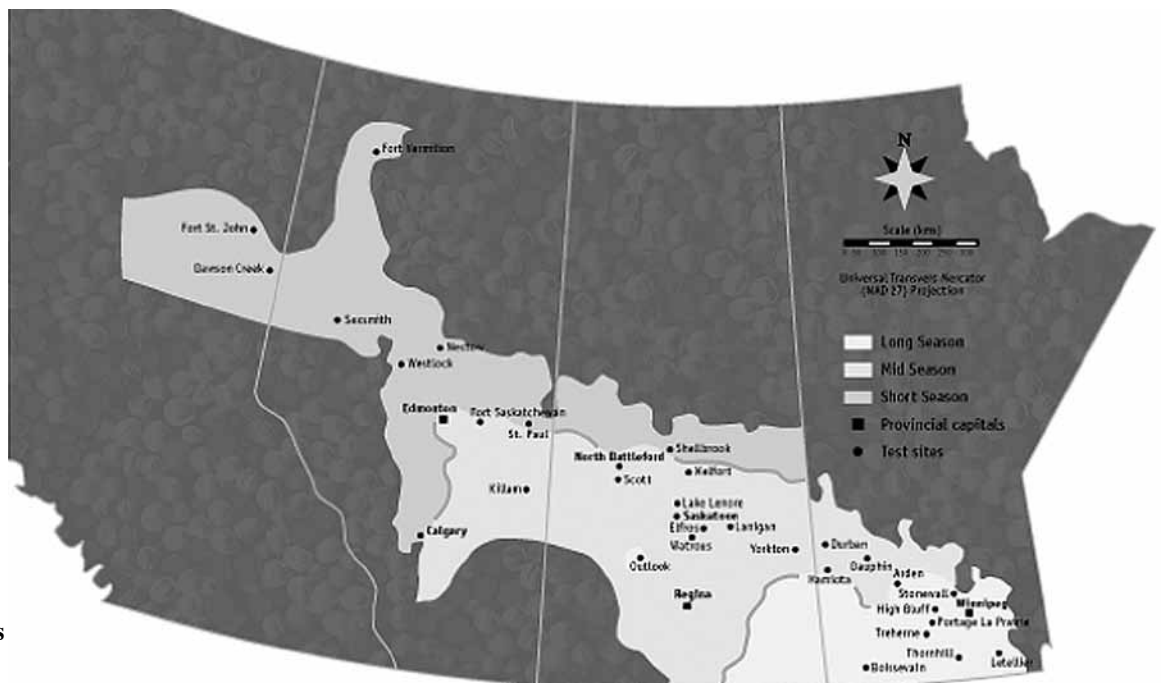
## Argentine canola (*Brassica napus*)

Argentine varieties mature two weeks later than Polish varieties and are therefore better suited to the mid- and long-season growing areas. Blackleg disease, which is now widespread in western Canada, can cause severe yield losses in varieties that are susceptible (S).

Argentine varieties are susceptible to seed shattering when left standing at full maturity. Later maturing varieties tend to produce higher levels of green seed under wet and cool conditions or early frost before harvest, which can cause substantial grade reductions. The control of herbicide-tolerant canola volunteers requires good agronomic practices such as proper crop and herbicide rotation.

## The canola POD

The Canola POD, or Performance On-line Database (<http://www.canola-council.org/pod>), was developed by the Canola Council of Canada to allow farmers to explore canola performance trial results from a broad range of sources in their own area. In addition to the Prairie Canola Variety Trial results, POD provides access to private seed company performance trial information that often includes more detailed information, such as notes on site management.



2009 PCVT locations

## 2009 PRAIRIE CANOLA VARIETY TRIAL (PCVT)

| Variety<br>B. napus<br>(Argentine) | 2007 Yield<br>% of 45H21, 5020 | 2008 Yield<br>% of 45H21, 5020 | 2009 Yield % of 45H21, 5020 |                  |              |             |              | Days to Maturity<br>+/- days to 45H21, 5020 |          |          |          |              | Height<br>+/-<br>inches | Lodging<br>rating<br>+="better" | Blackleg<br>Rating              | Organization |
|------------------------------------|--------------------------------|--------------------------------|-----------------------------|------------------|--------------|-------------|--------------|---|----------|----------|----------|--------------|-------------------------|---------------------------------|---------------------------------|--------------|
|                                    |                                |                                | Zones (Station Years)       |                  |              |             |              | Zones                                       |          |          |          |              |                         |                                 |                                 |              |
|                                    |                                |                                | All Zones<br>Avg            | All Zones<br>Avg | Short<br>(8) | Mid<br>(14) | Long<br>(10) | All Zone<br>Average                         | short    | mid      | long     | All<br>Zones |                         |                                 |                                 |              |
| <b>45H21, 5020</b>                 | <b>Hyb</b>                     | <b>100</b>                     | <b>100</b>                  | <b>100</b>       | <b>100</b>   | <b>100</b>  | <b>0</b>     | <b>0</b>                                    | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>                | <b>0</b>                        |                                 |              |
| (Checks bu/ac,<br>days to mature)  |                                |                                |                             | 47               | 62           | 69          |              | 106   | 105      | 107      |          |              |                         |                                 |                                 |              |
| <b>CLEARFIELD</b>                  |                                |                                |                             |                  |              |             |              |   |          |          |          |              |                         |                                 |                                 |              |
| 5525 CL                            | Hyb                            |                                |                             | 103              | 102          | 100         | 102          | 3   | 3        | 3        | 3        | 4            | 1                       | R                               | BrettYoung                      |              |
| <b>1651H</b>                       | Hyb                            |                                |                             |                  | 89           | 85          | 88           |   | 2        | 2        | 2        | 3            | 0                       | R                               | Canterra Seeds                  |              |
| 45H73                              | Hyb                            | 98                             | 99                          | 93               | 97           | 99          | 97           | 1   | 1        | 0        | 1        | 1            | 0                       | R                               | Pioneer Hi-Bred Production Ltd. |              |
| 45P70                              | Hyb                            | 102                            | 98                          | 97               | 98           | 98          | 97           | 1   | 2        | 1        | 2        | 1            | 0                       | R                               | Viterra Inc.                    |              |
| <b>LIBERTY LINK</b>                |                                |                                |                             |                  |              |             |              |   |          |          |          |              |                         |                                 |                                 |              |
| 5020                               | Hyb                            | 101                            | 105                         | 102              | 102          | 103         | 102          | -1  | -1       | -1       | -1       | -1           | 0                       | R                               | Bayer CropScience               |              |
| 5030                               | Hyb                            | 114                            | 108                         | 108              | 104          | 114         | 108          | 1   | 0        | 1        | 1        | 5            | 1                       | R                               | Bayer CropScience               |              |
| <b>5440</b>                        | Hyb                            | 115                            | 110                         | 118              | 105          | 117         | 112          | 1   | 0        | 1        | 1        | 3            | 1                       | R                               | Bayer CropScience               |              |
| 5770                               | Hyb                            |                                |                             | 112              | 107          | 121         | 113          | 4   | 3        | 3        | 4        | 3            | 1                       | R                               | Bayer CropScience               |              |
| 8440                               | Hyb                            | 107                            | 108                         | 105              | 103          | 109         | 105          | 2   | 0        | 0        | 0        | 0            | 0                       | R                               | Bayer CropScience               |              |
| 9590                               | Hyb                            | 107                            | 106                         | 102              | 104          | 106         | 104          | 2   | 0        | 0        | 1        | 2            | 0                       | R                               | Bayer CropScience               |              |
| <b>ROUNDUP READY</b>               |                                |                                |                             |                  |              |             |              |   |          |          |          |              |                         |                                 |                                 |              |
| 6020 RR                            | Hyb                            |                                |                             | 100              | 93           | 102         | 98           | 5   | 3        | 3        | 3        | 0            | 0                       | MR                              | BrettYoung                      |              |
| 6040 RR                            | Hyb                            |                                |                             |                  | 94           | 103         | 98           |   | 1        | 1        | 1        | 2            | 0                       | R                               | BrettYoung                      |              |
| 1950                               | Hyb                            |                                |                             |                  | 94           | 94          | 94           |   | 2        | 2        | 2        | 2            | 0                       | MR                              | Canterra Seeds                  |              |
| 1956                               | Syn                            |                                |                             |                  | 98           | 95          | 97           |   | 2        | 2        | 2        | 1            | 0                       | R                               | Canterra Seeds                  |              |
| 1852H                              | Hyb                            | 94                             |                             | 94               | 94           | 84          | 91           | 1   | -1       | -1       | 0        | 2            | 0                       | R                               | Canterra Seeds                  |              |
| v1037**                            | Hyb                            |                                | 94                          |                  | 93           | 89          | 91           |   | 1        | 0        | 1        | 2            | 0                       | R                               | Cargill Specialty Canola Oil    |              |
| 93H01RR                            | Hyb                            |                                |                             | 96               | 94           | 93          | 94           | 3   | 1        | 1        | 2        | 2            | 0                       | MR                              | FP GENETICS                     |              |
| 71-45 RR                           | Hyb                            |                                | 97                          | 102              | 98           | 94          | 98           | 1   | -1       | 0        | 0        | 1            | 0                       | MR                              | Monsanto Canada Inc.            |              |
| 45H21                              | Hyb                            | 99                             | 95                          | 98               | 98           | 97          | 98           | 1   | 1        | 1        | 1        | 1            | 0                       | R                               | Pioneer Hi-Bred Production Ltd. |              |
| 43E01                              | Hyb                            |                                | 90                          | 91               |              |             | 91           | -2  |          |          | -2       | -2           | -2                      | MR                              | Pioneer Hi-Bred Production Ltd. |              |

**2009 PRAIRIE CANOLA VARIETY TRIAL (PCVT) (continued)**

| Variety<br>B. napus<br>(Argentine) | 2007 Yield<br>% of 45H21, 5020 | 2008 Yield<br>% of 45H21, 5020 | 2009 Yield % of 45H21, 5020 |              |              |                     |                     | Days to Maturity<br>+/- days to 45H21, 5020 |      |              |        |                      | Height<br>+/-<br>inches | Lodging<br>rating<br>+="better" | Blackleg<br>Rating              | Organization |
|------------------------------------|--------------------------------|--------------------------------|-----------------------------|--------------|--------------|---------------------|---------------------|---|------|--------------|--------|----------------------|-------------------------|---------------------------------|---------------------------------|--------------|
|                                    |                                |                                | Zones (Station Years)       |              |              |                     | Zones               |   |      | All<br>Zones |        |                      |                         |                                 |                                 |              |
|                                    |                                |                                | All Zones<br>Avg            | Short<br>(8) | Mid<br>(14)  | Long<br>(10)        | All Zone<br>Average | short                                       | mid  |              | long   |                      |                         |                                 |                                 |              |
| Checks                             | Type                           | All Zones<br>Avg               | Short<br>(8)                | Mid<br>(14)  | Long<br>(10) | All Zone<br>Average | short               | mid   | long | All<br>Zones | inches | rating<br>+="better" | Blackleg<br>Rating      | Organization                    |                                 |              |
| 45H26                              | Hyb                            | 101                            | 99                          | 99           | 101          | 98                  | 100                 | 2   | 1    | 1            | 1      | 2                    | 0                       | R                               | Pioneer Hi-Bred Production Ltd. |              |
| 45H28                              | Hyb                            |                                | 100                         | 102          | 99           | 100                 | 100                 | 2   | 1    | 2            | 2      | 1                    | 0                       | R                               | Pioneer Hi-Bred Production Ltd. |              |
| D3150                              | Hyb                            |                                | 96                          | 100          | 97           | 98                  | 98                  | 3   | 1    | 1            | 2      | 2                    | 0                       | MR                              | Pioneer Hi-Bred Production Ltd. |              |
| D3151                              | Hyb                            |                                | 95                          | 97           | 100          | 97                  | 98                  | 1   | 0    | -1           | 0      | 1                    | 0                       | MR                              | Pioneer Hi-Bred Production Ltd. |              |
| Café                               | OP                             | 76                             | 82                          | 81           |              |                     | 81                  | -1  |      |              | -1     | -2                   | 0                       | R                               | Secan                           |              |
| Rugby                              | OP                             | 89                             | 86                          | 84           | 89           |                     | 87                  | 1   | 0    |              | 0      | 0                    | 0                       | R                               | Secan                           |              |
| 9350                               | Hyb                            |                                |                             | 93           |              |                     | 93                  | -1  |      |              | -1     | -2                   | -1                      | MR                              | Viterra Inc.                    |              |
| 9553                               | Hyb                            |                                | 97                          | 105          | 102          | 100                 | 102                 | 2   | 2    | 1            | 2      | 2                    | 0                       | R                               | Viterra Inc.                    |              |
| 9555                               | Syn                            |                                |                             |              | 95           |                     | 95                  |   | 2    |              | 2      | 2                    | 0                       | R                               | Viterra Inc.                    |              |
| 46P50                              | Hyb                            | 103                            | 96                          | 103          | 100          | 102                 | 101                 | 3   | 3    | 3            | 3      | 3                    | 0                       | R                               | Viterra Inc.                    |              |
| SP DESIRABLE RR                    | Syn                            | 88                             |                             | 92           |              |                     | 92                  | 1   |      |              | 1      | 1                    | 0                       | R                               | Viterra Inc.                    |              |
| <b>LSD (5%)</b>                    |                                |                                |                             | <b>12</b>    | <b>12</b>    | <b>13</b>           | <b>12</b>           |   |      |              |        |                      |                         |                                 |                                 |              |

\*\* Specialty oil

Type: OP - open pollinated; Syn - synthetic; and Hyb - hybrid.

See page 18 for symbols used.