



Varieties of Cereal and Oilseed Crops for Alberta


Introduction

This publication provides information on cereal and oilseed variety performance within Alberta. Important agronomic characteristics are given in tabular form for varieties of wheat, oats, barley, flax, canola, triticale and rye. The agro-climatic areas, based primarily on precipitation and length of growing season, are indicated on the map. This information can help farmers choose varieties that are best suited to their own particular farming situation.

The information in this publication is supplied by the University of Alberta, 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 Food. This information is coordinated by the Agricultural Research and Extension Council of Alberta (ARECA).

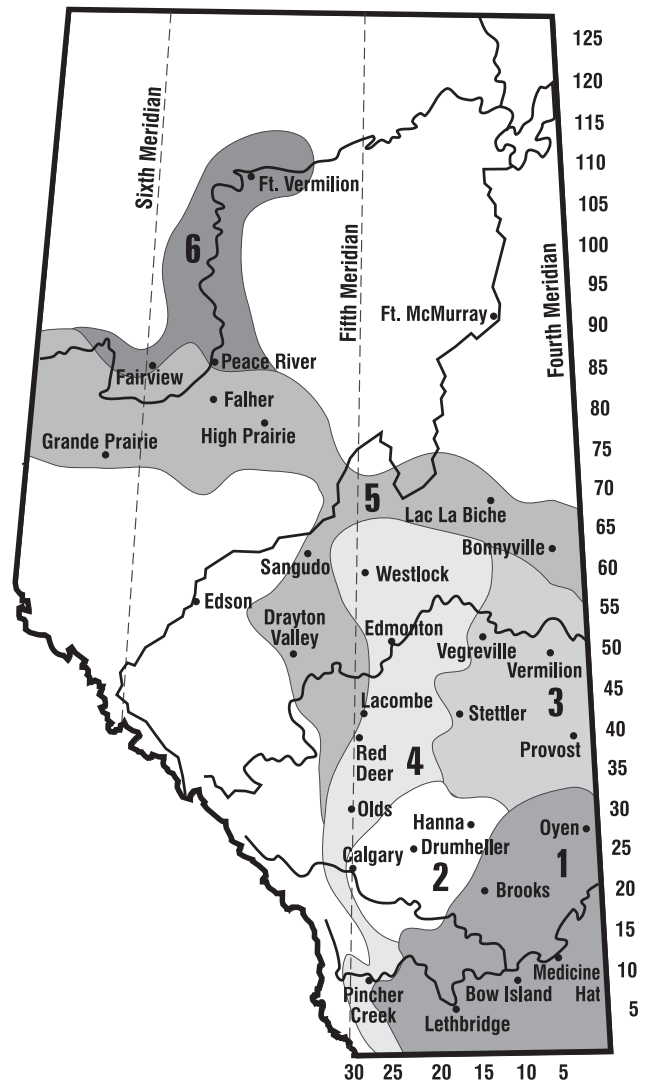
Funding has been provided by the Alberta Crop Industry Development Fund and the Alberta Barley Commission.

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.

Summary methods

Past versions of this publication summarized multi-year and multi-location yield data on a geographical basis (agro-climatic areas). This summary method averaged the effects of drought, heavy rainfall, high/low fertility, etc. that is often experienced at different sites or years in each agro-climatic area. This method



of analysis did not reliably identify varieties more adapted to low or high yield conditions, and farmers were given the impression that varieties will respond closely to the long-term averages reported in each area.

Another approach is included for several crops that summarizes yield data based on the yield category (low, medium, high) of the test sites, regardless of their geographical location. This newer method will allow producers to select the best performing varieties under high yielding conditions. Also, varieties that have consistent performance in both low and high yielding conditions indicate yield stability and thus reduced risk.

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 Area 1, irrigated yields expressed as per cent of dryland yields are C.W. wheat 185, barley 160, oats 180, flax 210 and canola 125%. In Area 2, irrigated yields expressed as per cent of dryland yields are C.W. wheat 130, barley 125, oats 120, flax 145 and canola 120%.

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 B.C. Peace River region. The PCVT system reports individual years of data for publication in the Agrifacts. 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. In Areas 2, 3 and 5 of Alberta, the following can be used as a guide for estimating maturity in actual days from seeding to harvest when the crops are seeded on fallow land:

- AC Barrie wheat – 113 days
- Cascade oats – 108
- Harrington barley – 98
- Kasota barley – 93
- McGregor flax – 120
- 46A65 (Argentine) canola – 109
- Reward (Polish) canola – 92

Note: These days to maturity do not match the days to maturity shown in the charts because they are the average of only 3 of the 6 agro-climatic areas.

In Area 6, the longer daylight hours usually reduce the number of days to maturity required. Area 4 experiences the longest maturity. In southern Alberta, AC Barrie can be expected to mature in 103 to 108 days, and other crops are similarly earlier maturing. 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 *E. 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 Alberta Agriculture's website at www.agric.gov.ab.ca or call the Alberta Ag-Info Centre at 310-farm (3276).

W H E A T

| Variety | Areas (see map) | | | | | Irr. | Comp. | | Te. Wt. | Kn. Wt. | Ht. cm | Resistance to: | | | | | Tolerance to: | | |
|-------------------------------------|-----------------|-----|-----|-----|------|------|-------|--------|------------|------------|-----------|----------------|------|------|-----------------|----------------|---------------|--------|-----|
| | 1 | 2 | 3 | 4 | 5&6 | | Mat. | Prot. | | | | Loose | | | Com. Rt. Rot | Stripe Rust | Leaf | | |
| | | | | | | | | | | | | Ldg. | Smut | Bunt | | | Spot | Sprout | FHB |
| Yield as % of AC Barrie | | | | | days | % | lb/bu | g/1000 | | | | | | | | | | | |
| C.W. RED SPRING WHEAT | | | | | | | | | | | | | | | | | | | |
| AC Barrie ◊ | 100 | 100 | 100 | 100 | 100 | 100 | 110 | 14.3 | 62 | 37 | 88 | G | R | R | I | P | P | G | F |
| 5602HR ◊ | 113 | 107 | 102 | 108 | 98 | 126 | 2 | 0.5 | 62 | 38 | 90 | G | R | R | XX | F | F | F | G |
| AC Abbey ◊ † | 103 | 100 | 92 | 105 | 103 | 96 | -1 | -1.2 | 62 | 35 | 85 | F | I | R | I | F | P | P | F |
| AC Cadillac ◊ | 100 | 98 | 96 | 97 | 95 | 87 | 0 | 0.2 | 64 | 39 | 98 | F | R | R | I | F | F | F | F |
| AC Eatonia ◊ | 91 | 93 | 91 | 93 | 97 | 89 | 1 | -0.1 | 62 | 35 | 92 | P | I | R | I | F | P | G | XX |
| AC Elsa ◊ | 101 | 109 | 100 | 104 | 107 | 90 | 0 | -0.4 | 62 | 35 | 89 | G | R | I | I | XX | G | F | P |
| AC Intrepid ◊ | 100 | 103 | 96 | 107 | 105 | 93 | -2 | -0.5 | 62 | 39 | 91 | G | I | R | I | G | F | P | P |
| AC Splendor ▲ | 94 | 94 | 93 | 99 | 96 | 94 | -3 | 0.4 | 61 | 38 | 90 | F | I | I | I | F | F | F | P |
| Alikat † | 94 | 94 | 93 | 97 | 100 | 82 | -1 | -0.4 | 63 | 36 | 87 | F | R | R | I | XX | P | F | F |
| Alvena ▲ | 98 | 107 | 97 | 104 | 103 | 114 | 1 | 0.3 | 63 | 36 | 94 | G | G | F | XX | XX | XX | F | P |
| CDC Abound ▲ | 116 | 117 | 107 | 112 | 109 | 112 | 1 | 0.0 | 63 | 38 | 84 | G | F | F | XX | XX | P | G | P |
| CDC Alsask ◊ | 113 | 110 | 100 | 107 | 110 | 115 | 0 | 0.3 | 61 | 37 | 92 | F | R | R | I | XX | P | F | P |
| CDC Bounty | 106 | 104 | 100 | 109 | 103 | 102 | -1 | -0.4 | 64 | 37 | 94 | F | R | I | I | XX | P | F | F |
| CDC Go | 124 | 114 | 106 | 110 | 108 | 139 | -1 | 0.0 | 61 | 42 | 85 | G | S | I | XX | XX | P | P | F |
| CDC Imagine ◊ | 105 | 104 | 100 | 108 | 104 | 109 | -1 | -0.2 | 60 | 38 | 84 | G | R | R | I | F | P | F | VP |
| CDC Osler | 134 | 107 | 102 | 107 | 100 | 118 | -1 | 0.0 | 61 | 35 | 86 | G | R | I | XX | XX | XX | F | P |
| CDC Teal | 100 | 99 | 91 | 104 | 101 | 100 | -2 | -0.2 | 62 | 36 | 89 | G | I | I | I | F | P | P | VP |
| Harvest ◊ | 102 | 104 | 106 | 102 | 97 | 111 | 0 | 0.2 | 62 | 37 | 84 | VG | R | S | I | XX | P | EX | VP |
| Infinity ◊ | 112 | 100 | 101 | 101 | 105 | 108 | 0 | -0.3 | 61 | 34 | 89 | G | R | R | XX | P | P | G | VP |
| Journey ◊ | 109 | 104 | 96 | 93 | 97 | 108 | 1 | 0.6 | 61 | 36 | 83 | VG | I | R | I | F | P | G | F |
| Katepwa | 102 | 98 | 95 | 100 | 100 | 100 | 0 | -0.3 | 61 | 35 | 92 | F | R | R | I | P | P | F | F |
| Lillian ◊ | XX | 105 | 100 | 100 | 103 | 120 | -1 | 0.0 | 61 | 39 | 87 | G | R | I | I | G | P | G | VP |
| Lovitt ◊ | 102 | 92 | 99 | 99 | 98 | 94 | -1 | -0.3 | 61 | 35 | 89 | G | G | I | I | P | XX | VG | P |
| McKenzie | 107 | 103 | 101 | 103 | 102 | 109 | -1 | -0.9 | 62 | 34 | 89 | F | S | R | I | P | F | EX | F |
| Park | 101 | 94 | 86 | 101 | 95 | 104 | -2 | 0.0 | 62 | 35 | 91 | F | R | I | I | XX | P | G | VP |
| Peace | 108 | 102 | 94 | 98 | 99 | 109 | -1 | 0.2 | 63 | 38 | 93 | G | R | R | XX | XX | XX | P | P |
| Prodigy | 104 | 100 | 104 | 107 | 105 | 93 | 0 | 0.3 | 63 | 35 | 94 | G | I | R | I | XX | P | F | VP |
| Roblin | 92 | 89 | 91 | 95 | 98 | 104 | XX | 0.1 | 62 | 36 | 87 | G | R | S | I | XX | VP | F | VP |
| Somerset ◊ | 102 | 105 | 96 | 98 | 102 | 110 | 0 | -0.2 | 62 | 36 | 96 | G | G | S | XX | XX | P | F | P |
| Superb ◊ | 118 | 113 | 106 | 115 | 111 | 122 | 1 | -0.4 | 62 | 42 | 84 | G | I | R | I | P | P | G | P |
| C.W. HARD WHITE SPRING WHEAT | | | | | | | | | | | | | | | | | | | |
| Kanata ◊ | XX | 94 | 89 | 91 | 85 | 100 | -2 | 0.2 | 60 | 33 | 82 | G | I | S | I | P | P | G | F |
| Snowbird ◊ | 98 | 103 | 105 | 102 | 103 | 114 | 2 | -0.4 | 61 | 36 | 87 | G | R | S | I | XX | P | G | P |
| Snowstar ◊ | 98 | 104 | 96 | 94 | 102 | 102 | -2 | -0.8 | 64 | 30 | 86 | XX | S | S | XX | XX | F | XX | F |

REMARKS: AC Abbey, AC Eatonia and Lillian – adapted to sawfly areas. AC Abbey has semi-dwarf stature. Varieties having a rating of Susceptible (S) or Intermediate (I) 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. Goodeve ▲ VB, Waskada ▲ and Kane ▲, insufficient data to describe.

See page 19 for symbols used.

W H E A T

| Variety | Areas (see map) | | | | | Irr. | Comp. | | Te. Wt. | Kn. Wt. | Ht. cm | Resistance to: | | | | | Tolerance to: | | |
|------------------------------------|-----------------|-----|-----|-----|-----|------|-------|-------|------------|------------|-----------|----------------|------|------|--------|------|---------------|-----|------|
| | 1 | 2 | 3 | 4 | 5&6 | | Mat. | Prot. | | | | Loose | | Com. | Stripe | Leaf | | FHB | |
| | | | | | | | | | | | | Ldg. | Smut | | | Bunt | Rt. Rot | | Rust |
| Yield as % of AC Taber | | | | | | days | % | lb/bu | g/1000 | | | | | | | | | | |
| CANADA PRAIRIE SPRING WHEAT | | | | | | | | | | | | | | | | | | | |
| RED SEEDED | | | | | | | | | | | | | | | | | | | |
| AC Taber | 100 | 100 | 100 | 100 | 100 | 100 | 111 | 12.4 | 61 | 42 | 78 | G | S | R | I | P | F | P | VP |
| 5700PR ◊ | 92 | 102 | 101 | 103 | 101 | 100 | -1 | 0.1 | 62 | 42 | 75 | EX | S | R | I | P | P | P | VP |
| 5701PR ◊ | 93 | 102 | 99 | 102 | 99 | 103 | 0 | 0.2 | 60 | 43 | 78 | G | I | S | S | G | P | P | VP |
| AC Crystal ◊ | 93 | 99 | 99 | 103 | 97 | 94 | 0 | 0.3 | 62 | 42 | 78 | G | I | R | S | P | F | P | VP |
| AC Foremost | 96 | 96 | 95 | 97 | 99 | 99 | -1 | XX | 62 | 42 | 72 | EX | R | R | I | P | P | F | VP |
| WHITE SEEDED | | | | | | | | | | | | | | | | | | | |
| Snowwhite475 | 96 | 95 | 93 | 104 | 95 | 106 | -2 | 0.1 | 61 | 43 | 80 | XX | R | R | XX | XX | P | XX | VP |
| Snowwhite476 | 102 | 101 | 93 | 105 | 102 | 108 | 0 | 0.0 | 60 | 43 | 82 | XX | MR | R | XX | XX | P | XX | VP |

REMARKS: Varieties with susceptible (S) or intermediate (I) 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 Vista, Snowwhite475 and Snowwhite476 have better sprouting resistance than other white seeded CPS varieties. AC Taber yields about 20 % higher than AC Barrie. AC Vista have higher protein content and stronger gluten than AC Karma. AC Crystal, 5700PR and 5701PR have improved quality compared to AC Foremost and Taber. HY 977, insufficient data to describe.

See page 19 for symbols used.

W H E A T (new yield class table)

| Variety | Test Yield Category | | | Comp. | | Te. | Kn. | Resistance to: | | | | | | Tolerance to: | | |
|-------------------------------------|-------------------------|-----|------|-------|-------|-------|--------|----------------|------|-------|------|---------|--------|---------------|--------|-----|
| | Low | Med | High | Mat. | Prot. | Wt. | Wt. | Ht. | Ldg. | Loose | Bunt | Com. | Stripe | Leaf | | |
| | Yield as % of Test Mean | | | days | % | lb/bu | g/1000 | cm | | Smut | | Rt. Rot | Rust | Spot | Sprout | FHB |
| C.W. RED SPRING WHEAT | | | | | | | | | | | | | | | | |
| AC Barrie ◊ | 100 | 98 | 96 | 110 | 14.3 | 62 | 37 | 88 | G | R | R | I | P | P | G | F |
| 5602HR ◊ | 101 | 101 | 104 | 2 | 0.5 | 62 | 37 | 92 | G | R | R | XX | F | F | F | G |
| AC Abbey ◊ † | 96 | 102 | 105 | -1 | -1.2 | 62 | 35 | 85 | F | I | R | I | F | P | P | F |
| AC Cadillac ◊ | 99 | 96 | 97 | 0 | 0.2 | 64 | 35 | 92 | F | R | R | I | F | F | F | F |
| AC Eatonia ◊ | 89 | 95 | 92 | 1 | -0.1 | 62 | 35 | 89 | P | I | R | I | F | P | G | XX |
| AC Elsa ◊ | 102 | 105 | 105 | 0 | -0.4 | 62 | 39 | 91 | G | R | I | I | XX | G | F | P |
| AC Intrepid ◊ | 102 | 102 | 104 | -2 | -0.5 | 62 | 39 | 91 | G | I | R | I | G | F | P | P |
| AC Splendor ▲ | 94 | 95 | 98 | -3 | 0.4 | 61 | 38 | 90 | F | I | I | I | F | F | F | P |
| Alikat † | 98 | 94 | 95 | -1 | -0.4 | 63 | 36 | 87 | F | R | R | I | XX | P | F | F |
| Alvena ▲ | 98 | 100 | 101 | 1 | 0.3 | 63 | 36 | 94 | G | G | F | XX | XX | XX | F | P |
| CDC Abound ▲ | 104 | 109 | 111 | 1 | 0.0 | 63 | 38 | 84 | G | F | F | XX | XX | P | G | P |
| CDC Alsask ◊ | 105 | 105 | 103 | 0 | 0.3 | 61 | 36 | 87 | F | R | R | I | XX | P | F | P |
| CDC Bounty | 103 | 105 | 103 | -1 | -0.4 | 64 | 34 | 89 | F | R | I | I | XX | P | F | F |
| CDC Go | 102 | 109 | 114 | -1 | 0.0 | 61 | 38 | 90 | G | S | I | XX | XX | P | P | F |
| CDC Imagine ◊ | 102 | 103 | 103 | -1 | -0.2 | 60 | 37 | 94 | G | R | R | I | F | P | F | VP |
| CDC Osler | 101 | 103 | 103 | -1 | 0.0 | 61 | 35 | 94 | G | R | I | XX | XX | XX | F | P |
| CDC Teal | 97 | 100 | 101 | -2 | -0.2 | 62 | 38 | 84 | G | I | I | I | F | P | P | VP |
| Harvest ◊ | 98 | 102 | 99 | 0 | 0.2 | 62 | 36 | 89 | VG | R | S | I | XX | P | EX | VP |
| Infinity ◊ | 102 | 100 | 99 | 0 | -0.3 | 61 | 42 | 85 | G | R | R | XX | P | P | G | VP |
| Journey ◊ | 95 | 99 | 96 | 1 | 0.6 | 61 | 37 | 84 | VG | I | R | I | F | P | G | F |
| Katepwa | 97 | 95 | 92 | 0 | -0.3 | 61 | 36 | 83 | F | R | R | I | P | P | F | F |
| Lillian ◊ | 107 | 100 | 102 | -1 | 0.0 | 61 | 35 | 92 | G | R | I | I | G | P | G | VP |
| Lovitt ◊ | 97 | 95 | 96 | -1 | -0.3 | 61 | 39 | 87 | G | G | I | I | P | XX | VG | P |
| McKenzie | 106 | 102 | 105 | -1 | -0.9 | 62 | 35 | 89 | F | S | R | I | P | F | EX | F |
| Park | 91 | 94 | 90 | -2 | 0.0 | 62 | 34 | 89 | F | R | I | I | XX | P | G | VP |
| Peace | 97 | 95 | 97 | -1 | 0.2 | 63 | 35 | 91 | G | R | R | XX | XX | XX | P | P |
| Prodigy | 106 | 105 | 104 | 0 | 0.3 | 63 | 38 | 93 | G | I | R | I | XX | P | F | VP |
| Roblin | 94 | 95 | 95 | XX | 0.1 | 62 | 35 | 86 | G | R | S | I | XX | VP | F | VP |
| Somerset ◊ | 105 | 95 | 95 | 0 | -0.2 | 62 | 36 | 96 | G | G | S | XX | XX | P | F | P |
| Superb ◊ | 109 | 112 | 113 | 1 | -0.4 | 62 | 36 | 87 | G | I | R | I | P | P | G | P |
| C.W. HARD WHITE SPRING WHEAT | | | | | | | | | | | | | | | | |
| Kanata ◊ | XX | 94 | 89 | -2 | 0.2 | 60 | 33 | 82 | G | I | S | I | P | P | G | F |
| Snowbird ◊ | 98 | 103 | 105 | 2 | -0.4 | 61 | 36 | 87 | G | R | S | I | XX | P | G | P |
| Snowstar ◊ | 97 | 96 | 94 | -2 | -0.8 | 64 | 39 | 98 | XX | S | S | XX | XX | F | XX | F |

REMARKS: AC Abbey, AC Eatonia and Lillian – adapted to sawfly areas. Varieties having a rating of Susceptible (S) or Intermediate (I) 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. Goodeve ▲ VB ,Waskada ▲ and Kane ▲, insufficient data to describe.

See page 19 for symbols used.

W H E A T (new yield class table)

| Variety | Test Yield Category | | | Comp. | | Te. | Kn. | Resistance to: | | | | | | Tolerance to: | | |
|------------------------------------|-------------------------|-----|------|-------|-------|-------|--------|----------------|------|-------|------|---------|------|---------------|--------|-----|
| | Low | Med | High | Mat. | Prot. | Wt. | Wt. | Ht. | Ldg. | Loose | Com. | Stripe | Leaf | | | |
| | Yield as % of Test Mean | | | days | % | lb/bu | g/1000 | cm | | Smut | Bunt | Rt. Rot | Rust | Spot | Sprout | FHB |
| CANADA PRAIRIE SPRING WHEAT | | | | | | | | | | | | | | | | |
| RED SEEDED | | | | | | | | | | | | | | | | |
| AC Taber | 106 | 104 | 104 | 111 | 12.4 | 61 | 42 | 78 | G | S | R | I | P | F | P | VP |
| 5700PR ☉ | 107 | 106 | 107 | -1 | 0.1 | 62 | 42 | 75 | EX | S | R | I | P | P | P | VP |
| 5701PR ☉ | 102 | 105 | 102 | 0 | 0.2 | 60 | 43 | 78 | G | I | S | S | G | P | P | VP |
| AC Crystal ☉ | 102 | 104 | 108 | 0 | 0.3 | 62 | 42 | 78 | G | I | R | S | P | F | P | VP |
| AC Foremost | 103 | 102 | 104 | -1 | XX | 62 | 42 | 72 | EX | R | R | I | P | P | F | VP |
| WHITE SEEDED | | | | | | | | | | | | | | | | |
| Snowwhite475 | 96 | 98 | 98 | -2 | 0.1 | 61 | 43 | 80 | XX | R | R | XX | XX | P | XX | VP |
| Snowwhite476 | 103 | 102 | 107 | 0 | 0.0 | 60 | 43 | 82 | XX | MR | R | XX | XX | P | XX | VP |

REMARKS: Varieties with susceptible (S) or intermediate (I) 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 Vista, Snowwhite475 and Snowwhite476 have better sprouting resistance than other white seeded CPS varieties. AC Taber yields about 20% higher than AC Barrie. AC Vista have higher protein content and stronger gluten than AC Karma. 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. Test yield categories based on small plot yields were Low <50 bu/ac; Medium 50 to 90 bu/ac; and High >90 bu/ac. HY 977, insufficient data to describe.

See page 19 for symbols used.

W H E A T

| Variety | Areas (see map) | | | | | Irr. | Comp. Mat. | Te. Wt. | Kn. Wt. | Ht. cm | Resistance to: | | | | Tolerance to: | | | | |
|-------------------------------|--------------------|-----|-----|----|-----|------|------------|---------|---------|--------|----------------|-------|-------|-------|---------------|-------------|--------|------|------|
| | 1 | 2 | 3 | 4 | 5&6 | | | | | | Ldg. | Shat. | Loose | | Com. Rt. Rot | Stripe Rust | Leaf | | |
| | Yield as % of Kyle | | | | | | | | | | | | days | lb/bu | | | g/1000 | Smut | Bunt |
| C.W. AMBER DURUM WHEAT | | | | | | | | | | | | | | | | | | | |
| Kyle | 100 | 100 | 100 | NS | NS | 100 | 108 | 62 | 44 | 100 | P | G | S | R | I | G | P | F | VP |
| AC Avonlea ☉ | 104 | 103 | 106 | NS | NS | 123 | 0 | 63 | 44 | 91 | F | G | S | R | I | XX | P | F | VP |
| AC Morse ☉ | 100 | 99 | 100 | NS | NS | 111 | -1 | 61 | 44 | 84 | G | G | S | R | I | G | VP | F | VP |
| AC Navigator ☉ | 110 | 105 | 106 | NS | NS | 118 | 0 | 63 | 46 | 77 | G | G | S | R | I | G | VP | F | VP |
| Commander ☉ | 123 | 116 | 113 | NS | NS | 123 | -1 | 62 | 46 | 79 | G | VG | I | R | XX | XX | P | F | VP |
| Strongfield ☉ | 118 | 108 | 108 | NS | NS | 130 | -1 | 61 | 46 | 89 | F | VG | S | I | XX | G | P | VG | VP |

REMARKS: Durum wheat should only be grown in areas 1 and 2 and the southeastern portion of area 3 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.

C.W. SOFT WHITE SPRING WHEAT

| Variety | Yield as % of AC Andrew | | | | | Irr. | Comp. Mat. | Te. Wt. | Kn. Wt. | Ht. cm | Resistance to: | | | | Tolerance to: | | | | |
|-----------|-------------------------|----|----|----|-----|------|------------|---------|---------|--------|----------------|-------|------------|------|---------------|-------------|-----------|--------|-----|
| | 1 | 2 | 3 | 4 | 5&6 | | | | | | Ldg. | Shat. | Loose Smut | Bunt | Com. Rt. Rot | Stripe Rust | Leaf Spot | Sprout | FHB |
| AC Andrew | 100 | ND | ND | ND | NS | 100 | 113 | 62 | 37 | 78 | XX | XX | S | I | I | G | XX | F | VP |
| AC Meena | 99 | ND | ND | ND | NS | 95 | 1 | 61 | 37 | 78 | XX | XX | S | S | I | G | XX | F | P |
| AC Reed | 85 | ND | ND | ND | NS | 86 | 1 | 61 | 39 | 72 | EX | VG | S | S | I | P | XX | F | P |
| Bhishaj | 100 | ND | ND | ND | NS | 102 | 0 | 62 | 37 | 85 | EX | VG | I | S | R | G | XX | F | VP |

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.

W H E A T

| Variety | Areas (see map) | | | | | Irr. | Comp. Mat. | Te. Wt. | Kn. Wt. | Ht. cm | Resistance to: | | | | Tolerance to: | | | | |
|--------------------------------|----------------------|-----|-----|-----|-----|------|------------|---------|---------|--------|----------------|-------|-------|-------|---------------|-------------|--------|------|------|
| | 1 | 2 | 3 | 4 | 5&6 | | | | | | Ldg. | Shat. | Loose | | Com. Rt. Rot | Stripe Rust | Leaf | | |
| | Yield as % of Amazon | | | | | | | | | | | | days | lb/bu | | | g/1000 | Smut | Bunt |
| C.W. EXTRA STRONG WHEAT | | | | | | | | | | | | | | | | | | | |
| Amazon ☉ | 100 | 100 | 100 | 100 | 100 | 100 | 110 | 61 | 46 | 97 | G | G | R | I | I | XX | F | P | P |
| CDC Rama | 108 | 112 | 105 | 111 | 107 | 114 | -1 | 63 | 48 | 98 | F | G | R | R | XX | G | P | P | F |

W H E A T (new yield class table)

| Variety | Test Yield Category | | | Comp. Mat. | Te. Wt. | Kn. Wt. | Ht. cm | Resistance to: | | | | Tolerance to: | | | | |
|--------------------------------|-------------------------|-----|------|------------|---------|---------|--------|----------------|-------|-------|-------|---------------|-------------|--------|------|------|
| | Low | Med | High | | | | | Ldg. | Shat. | Loose | | Com. Rt. Rot | Stripe Rust | Leaf | | |
| | Yield as % of Test Mean | | | | | | | | | days | lb/bu | | | g/1000 | Smut | Bunt |
| C.W. EXTRA STRONG WHEAT | | | | | | | | | | | | | | | | |
| Amazon ☉ | 94 | 92 | 87 | 110 | 61 | 46 | 97 | G | G | R | I | I | XX | F | P | P |
| CDC Rama | 98 | 102 | 96 | -1 | 63 | 48 | 98 | F | G | R | R | XX | G | P | P | F |

REMARKS: Amazon yields approximately 10% more than Katepwa. Test yield categories based on small plot yields were Low <50 bu/ac; Medium 50 to 90 bu/ac; and High >90 bu/ac.

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

See page 19 for symbols used.

WINTER WHEAT

| Variety | Irr. | Area (see map) | | | | | All Data | Relative | | Te. Wt. | Kn. Wt. | Ht. cm | Winter Survival | Resistance to: | | | Toler. FHB |
|-------------------------------------|------|--------------------------|-----|-----|-----|-----|-------------|----------|------|------------|------------|-----------|--------------------|----------------|------|-------|---------------|
| | | 1 | 1 | 2 | 3 | 4 | | 5&6 | Mat. | | | | | Prot. | Ldg. | Shat. | |
| | | Yield as % of CDC Osprey | | | | | | days | % | lb/bu | mg | cm | | | | | |
| CDC Osprey (bu/A) | 78 | 60 | 52 | 53 | 96 | 55 | 72 | | | | | | | | | | |
| C.W. RED WINTER "SELECT" | | | | | | | | | | | | | | | | | |
| CDC Osprey | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 219 | 12.4 | 63 | 32 | 87 | VG | G | G | VP | P |
| AC Bellatrix | 98 | 102 | 108 | XX | 106 | 107 | 104 | +2 | +0.3 | 64 | 36 | 86 | F | G | G | F | P |
| AC Readymade | 98 | 94 | 98 | NS | NS | NS | 97 | +5 | +1.8 | 64 | 36 | 88 | P | EX | F | P | - |
| AC Tempest | 104 | 96 | 101 | NS | NS | NS | 99 | +5 | +1.5 | 64 | 38 | 86 | P | EX | G | P | - |
| CDC Buteo | 100 | 96 | 101 | XX | 99 | 98 | 98 | +1 | +0.1 | 65 | 35 | 86 | VG | F | G | VP | P |
| McClintock ☺ | 110 | 94 | 93 | XX | 97 | 95 | 96 | +2 | -0.1 | 65 | 33 | 88 | P | VG | G | VP | P |
| Norstar | 89 | 94 | 97 | XX | 94 | 102 | 95 | +2 | -0.1 | 64 | 33 | 104 | VG | VP | G | VP | F |
| Radiant ☺ | 109 | 102 | 109 | XX | 100 | 100 | 103 | +2 | -0.2 | 64 | 37 | 86 | VG | VG | G | P | P |
| C.W. RED WINTER "NON-SELECT" | | | | | | | | | | | | | | | | | |
| CDC CLAIR | 100 | 100 | 114 | XX | 107 | 104 | 104 | +1 | -0.4 | 63 | 34 | 86 | VG | F | G | VP | P |
| CDC Falcon | 109 | 102 | 103 | XX | 100 | 100 | 101 | -2 | -0.4 | 63 | 31 | 72 | G | VG | G | VP | VP |
| CDC Harrier | 116 | 103 | 113 | XX | 106 | 111 | 108 | +1 | -1.2 | 62 | 31 | 90 | VG | G | G | VP | P |
| CDC Kestrel | 108 | 101 | 108 | XX | 104 | 104 | 104 | +1 | -1.3 | 63 | 32 | 90 | VG | F | G | VP | P |
| CDC Raptor | 103 | 100 | 111 | XX | 100 | 99 | 102 | +1 | -0.6 | 64 | 30 | 80 | VG | VG | G | VP | P |
| C. W. GENERAL PURPOSE | | | | | | | | | | | | | | | | | |
| CDC Ptarmigan | XX | XX | 121 | XX | 116 | XX | 118 | +1 | -1.8 | 61 | 33 | 88 | G | P | G | VP | - |

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. Yield figures are from trials with good winter survival. Productivity divisions are based on individual small plot trial yields: Low = under 45 bu/A; Medium = 45 to 75 bu/A; High = 75 to 105 bu/A; V. High = over 105 bu/A. Note that small plot yields are often 10 to 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 7 (219 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; varieties that have poor resistance to this disease should be treated with a systemic seed treatment. **CDC Harrier** has stem rust resistance; **CDC Buteo**, **CDC Falcon**, **CDC Raptor**, and **McClintock** have stem and leaf rust resistance. **Radiant** and **McClintock** have resistance to several races of stripe rust. **AC Bellatrix** has shown high susceptibility to stripe rust. 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 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 with soft white kernels.

XX Insufficient data (less than 6 data points).

See page 19 for symbols used.

WINTER WHEAT (new yield class table)

| Variety | Test Yield Category | | | | All Data | Relative | | Te. Wt. lb/bu | Kn. Wt. mg | Ht. cm | Winter Survival | Resistance to: | | | Toler. FHB |
|-------------------------------------|--------------------------|-----|------|---------|----------|-----------|---------|---------------|------------|--------|-----------------|----------------|-------|------|------------|
| | Low | Med | High | V. High | | Mat. days | Prot. % | | | | | Ldg. | Shat. | Bunt | |
| | Yield as % of CDC Osprey | | | | | | | | | | | | | | |
| CDC Osprey (bu/A) | 35 | 61 | 87 | 119 | 72 | | | | | | | | | | |
| C.W. RED WINTER "SELECT" | | | | | | | | | | | | | | | |
| CDC Osprey | 100 | 100 | 100 | 100 | 100 | 219 | 12.4 | 63 | 32 | 87 | VG | G | G | VP | P |
| AC Bellatrix | 110 | 102 | 102 | 102 | 104 | +2 | +0.3 | 64 | 36 | 86 | F | G | G | F | P |
| AC Readymade | 99 | 97 | 97 | XX | 97 | +5 | +1.8 | 64 | 36 | 88 | P | EX | F | P | - |
| AC Tempest | 99 | 97 | 100 | XX | 99 | +5 | +1.5 | 64 | 38 | 86 | P | EX | G | P | - |
| CDC Buteo | 99 | 98 | 97 | XX | 98 | +1 | +0.1 | 65 | 35 | 86 | VG | F | G | VP | P |
| McClintock ☺ | 88 | 99 | 96 | XX | 96 | +2 | -0.1 | 65 | 33 | 88 | P | VG | G | VP | P |
| Norstar | 103 | 95 | 92 | 88 | 95 | +2 | -0.1 | 64 | 33 | 104 | VG | VP | G | VP | F |
| Radiant ☺ | 104 | 102 | 105 | XX | 103 | +2 | -0.2 | 64 | 37 | 86 | VG | VG | G | P | P |
| C.W. RED WINTER "NON-SELECT" | | | | | | | | | | | | | | | |
| CDC CLAIR | 103 | 103 | 103 | 107 | 104 | +1 | -0.4 | 63 | 34 | 86 | VG | F | G | VP | P |
| CDC Falcon | 90 | 104 | 101 | 102 | 101 | -2 | -0.4 | 63 | 31 | 72 | G | VG | G | VP | VP |
| CDC Harrier | 109 | 108 | 108 | 104 | 108 | +1 | -1.2 | 62 | 31 | 90 | VG | G | G | VP | P |
| CDC Kestrel | 106 | 104 | 103 | 102 | 104 | +1 | -1.3 | 63 | 32 | 90 | VG | F | G | VP | P |
| CDC Raptor | 96 | 103 | 102 | 100 | 102 | +1 | -0.6 | 64 | 30 | 80 | VG | VG | G | VP | P |
| C. W. GENERAL PURPOSE | | | | | | | | | | | | | | | |
| CDC Ptarmigan | XX | 122 | XX | XX | 118 | +1 | -1.8 | 61 | 33 | 88 | G | P | G | VP | - |

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. Yield figures are from trials with good winter survival. Productivity divisions are based on individual small plot trial yields: Low = under 45 bu/A; Medium = 45 to 75 bu/A; High = 75 to 105 bu/A; V. High = over 105 bu/A. Note that small plot yields are often 10 to 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 7 (219 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; varieties that have poor resistance to this disease should be treated with a systemic seed treatment. **CDC Harrier** has stem rust resistance; **CDC Buteo**, **CDC Falcon**, **CDC Raptor**, and **McClintock** have stem and leaf rust resistance. **Radiant** and **McClintock** have resistance to several races of stripe rust. **AC Bellatrix** has shown high susceptibility to stripe rust. 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 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 with soft white kernels.

XX Insufficient data (less than 6 data points).

See page 19 for symbols used.

F A L L R Y E

| Variety | Area (see map) | | | | | All Data | Rel. Mat. | Te. Wt. | Kn. Wt. | Ht. cm | Winter Survival | Resistance to: | | | Stem Smut |
|--------------|---------------------|-----|----|-----|-----|----------|-----------|---------|---------|--------|-----------------|----------------|-------|-------|-----------|
| | 1 | 2 | 3 | 4 | 5&6 | | | | | | | Ldg. | Shat. | Ergot | |
| | Yield as % of Prima | | | | | | | | | | | days | lb/bu | mg | |
| Prima (bu/A) | 62 | 73 | XX | 102 | 59 | 77 | | | | | | | | | |
| Prima | 100 | 100 | XX | 100 | 100 | 100 | 214 | 58 | 33 | 119 | EX | F | F | G | G |
| AC Remington | 122 | 105 | XX | 93 | XX | 105 | 0 | 57 | 30 | 95 | EX | EX | VG | G | - |
| AC Rifle | 116 | 100 | XX | 91 | 102 | 101 | 0 | 57 | 30 | 87 | EX | EX | VG | F | G |
| Dakota | 120 | 115 | XX | 118 | 128 | 120 | +2 | 56 | 34 | 111 | EX | F | - | F | - |
| Hazlet | XX | XX | XX | XX | 130 | 120 | +2 | 58 | 39 | 103 | EX | VG | - | F | - |
| Musketeer | 87 | 89 | XX | 96 | 95 | 91 | +1 | 56 | 33 | 120 | EX | G | F | F | G |

REMARKS: Productivity divisions are based on individual small plot trial yields: Low = under 48 bu/A; Medium = 48 to 80 bu/A; High = 80 to 112 bu/A; V. High = over 112 bu/A. The provincial average maturity date for **Prima** is August 2 (214 days after January 1). **AC Rifle** and **AC Remington** are semi-dwarf varieties. **Hazlet** has low viscosity which improves feed performance in monogastric livestock.

XX Insufficient data (less than 5 data points).

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

| Variety | Test Yield Category | | | | All Data | Rel. Mat. | Te. Wt. | Kn. Wt. | Ht. cm | Winter Survival | Resistance to: | | | Stem Smut |
|--------------|---------------------|-----|------|---------|----------|-----------|---------|---------|--------|-----------------|----------------|-------|-------|-----------|
| | Low | Med | High | V. High | | | | | | | Ldg. | Shat. | Ergot | |
| | Yield as % of Prima | | | | | | | | | | days | lb/bu | mg | |
| Prima (bu/A) | 36 | 60 | 93 | 135 | 77 | | | | | | | | | |
| Prima | 0 | 100 | 100 | 100 | 100 | 214 | 58 | 33 | 119 | EX | F | F | G | G |
| AC Remington | 120 | 106 | 98 | XX | 105 | 0 | 57 | 30 | 95 | EX | EX | VG | G | - |
| AC Rifle | 114 | 104 | 97 | 88 | 101 | 0 | 57 | 30 | 87 | EX | EX | VG | F | G |
| Dakota | 120 | 123 | 116 | XX | 120 | +2 | 56 | 34 | 111 | EX | F | - | F | - |
| Hazlet | XX | 126 | XX | XX | 120 | +2 | 58 | 39 | 103 | EX | VG | - | F | - |
| Musketeer | 88 | 92 | 93 | 93 | 91 | +1 | 56 | 33 | 120 | EX | G | F | F | G |

REMARKS: Productivity divisions are based on individual small plot trial yields: Low = under 48 bu/A; Medium = 48 to 80 bu/A; High = 80 to 112 bu/A; V. High = over 112 bu/A. The provincial average maturity date for **Prima** is August 2 (214 days after January 1). **AC Rifle** and **AC Remington** are semi-dwarf varieties. **Hazlet** has low viscosity which improves feed performance in monogastric livestock.

XX Insufficient data (less than 5 data points).

F L A X

| Variety | Area (see map) | | | | | Irr. | Overall Average | Comp. Mat. | Ht. | Seed | |
|------------------|----------------------|-----|-----|-----|-----|------|-----------------|------------|-----|------|------|
| | 1 | 2 | 3 | 4 | 5&6 | | | | | Size | Ldg. |
| | Yield as % of NorLin | | | | | | | | | days | cm |
| NorLin | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 58 | M | G |
| CDC Arras | 110 | XX | XX | XX | 95 | 109 | 105 | 1 | 61 | L | F |
| CDC Bethune ◊ | 114 | 104 | XX | 111 | 104 | 112 | 109 | 2 | 59 | M | G |
| CDC Normandy | 101 | XX | 99 | 104 | 106 | 109 | 104 | 0 | 59 | M | F |
| CDC Sorrel ▲ | XX | XX | 110 | 101 | 102 | 120 | 108 | 4 | 64 | L | G |
| Flanders | 115 | 110 | XX | 103 | 106 | 114 | 109 | 2 | 57 | S | G |
| Hanley ◊ | XX | XX | XX | 101 | 92 | 116 | 103 | 2 | 54 | M | G |
| Macbeth ◊ | XX | XX | XX | XX | 95 | XX | 95 | 3 | 52 | M | G |
| Prairie Grande ▲ | 103 | XX | 97 | 108 | 102 | XX | 103 | 0 | 56 | M | G |
| Taurus ◊ | XX | XX | XX | XX | 107 | 103 | 105 | 2 | 53 | M | G |

REMARKS: Flax is daylight sensitive and maturity will vary by the zone it is grown in.

All flax are resistant to rust.

See page 19 for symbols used.

SPRING TRITICALE

| Variety | Irr | Area (see map) | | | | Comp. 5&6 | Te. Mat. | Kn. Wt. | Ht. cm | Resistance to: | | | | Tolerance to: | | |
|-----------|-----|----------------------|------|-------|--------|--------------|-------------|------------|-----------|----------------|-------|-------|------|-----------------|--------|-----|
| | | 1 | 2 | 3 | 4 | | | | | Ldg. | Shat. | Loose | | Com. Rt. Rot | Sprout | FBH |
| | | Yield as % Pronghorn | days | lb/bu | g/1000 | | | | | | | Smut | Bunt | | | |
| Pronghorn | 100 | 100 | 100 | 100 | 100 | 114 | 69 | 43 | 101 | G | G | R | R | I | F | G |
| AC Alta | 107 | 105 | 106 | 100 | 94 | 99 | 6 | 67 | 92 | G | G | R | R | I | F | XX |
| AC Ultima | 107 | 105 | 95 | 105 | 102 | 100 | -4 | 70 | 96 | G | G | R | R | I | F | P |
| Bunker ☉ | 81* | 85 | 97 | 84 | 90 | 92 | 2 | 71 | 111 | F | G | R | R | XX | F | G |
| Companion | 94 | 97 | 86 | 88 | 95 | 91 | 0 | 68 | 116 | XX | XX | R | R | XX | XX | XX |
| Tyndal ☉ | 95* | 100 | 94 | 97 | 98 | 107 | 1 | 70 | 99 | G | G | R | R | XX | P | F |

REMARKS: In general, triticale ripens later than CWRS wheats, but maturity can be similar between later maturing CWRS varieties (Superb) and AC Ultima. 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. Where test yield categories is based on small plot data are as follows: Low is <50 bu/acre; Medium is >50 but <80 bu/acre; High >80 but <100 bu/acre; and Very High >100 bu/acre.

SPRING TRITICALE (new yield class table)

| Variety | Test Yield Category | | | | Comp. Mat. | Te. Wt. | Kn. Wt. | Ht. cm | Resistance to: | | | | Tolerance to: | | |
|-----------|---------------------|------|-------|---------|---------------|------------|------------|-----------|----------------|-------|-------|------|-----------------|--------|-----|
| | Low | Med | high | V. High | | | | | Ldg. | Shat. | Loose | | Com. Rt. Rot | Sprout | FBH |
| | Yield as % Mean | days | lb/bu | g/1000 | | | | | | | Smut | Bunt | | | |
| Pronghorn | 105 | 111 | 111 | 113 | 114 | 69 | 43 | 101 | G | G | R | R | I | F | G |
| AC Alta | 110 | 115 | 115 | 110 | 6 | 67 | 49 | 92 | G | G | R | R | I | F | XX |
| AC Ultima | 108 | 107 | 117 | 106 | -4 | 70 | 45 | 96 | G | G | R | R | I | F | P |
| Bunker ☉ | 89 | 94 | 87 | 98 | 2 | 71 | 49 | 111 | F | G | R | R | XX | F | G |
| Companion | 96 | 100 | 94 | 93 | 0 | 68 | 51 | 116 | XX | XX | R | R | XX | XX | XX |
| Tyndal ☉ | 107 | 104 | 101 | 101 | 1 | 70 | 44 | 99 | G | G | R | R | XX | P | F |

REMARKS: In general, triticale ripens later than CWRS wheats, but maturity can be similar between later maturing CWRS varieties (Superb) and AC Ultima. 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. Where test yield categories is based on small plot data are as follows: Low is <50 bu/acre; Medium is >50 but <80 bu/acre; High >80 but <100 bu/acre; and Very High >100 bu/acre.

See page 19 for symbols used.

B A R L E Y

| Variety | Yield by Area (see map) | | | | No. of Row | Awn Type | Comp. Mat. | Te. Wt. lb/bu | Kn. Wt. g/1000 | Ht. cm | Ldg. | Resistance to: | | | Net Blotch | Toler. FHB | | | | | | | | | |
|------------------------|-------------------------|-----|-----|-----|------------|----------|------------|---------------|----------------|--------|------|----------------|----|----|------------|------------|---|----|---|----|----|----|------------|-----------|---------|
| | Irr. | 1 | 2 | 3 | | | | | | | | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | FL & Com. | | |
| | | | | | | | | | | | | | | | | | | | | | | | Loose Smut | Cov. Smut | Rot Rt. |
| GENERAL PURPOSE | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alston ▲ | XX | 101 | 101 | 101 | 105 | 106 | 6 | SS | -3 | 48 | 42 | G | S | R | I | S | R | P | | | | | | | |
| AC Harper ◊* | 106 | 102 | 99 | 106 | 108 | 100 | 6 | SS | 0 | 48 | 40 | G | S | I | I | I | I | P | | | | | | | |
| AC Lacombe ◊* | 106 | 107 | 100 | 108 | 108 | 103 | 6 | S | -2 | 48 | 42 | G | S | R | S | I | I | VP | | | | | | | |
| AC Ranger * | 110 | XX | 99 | 111 | 104 | 105 | 6 | S | 2 | 49 | 43 | F | XX | XX | XX | S | I | VP | | | | | | | |
| AC Rosser ◊* | 119 | 112 | 102 | 108 | 111 | 107 | 6 | S | 2 | 48 | 41 | F | S | R | I | S | I | VP | | | | | | | |
| CDC Cowboy ▲ | XX | 79 | 91 | 104 | 96 | 98 | 2 | R | 3 | 52 | 55 | G | S | R | R | S | I | G | | | | | | | |
| CDC Dolly | 104 | 102 | 106 | 98 | 103 | 98 | 2 | R | 0 | 53 | 49 | F | S | R | I | I | S | F | | | | | | | |
| CDC Helgason ◊ | 100 | 94 | 101 | 100 | 104 | 103 | 2 | R | -1 | 52 | 46 | G | R | R | I | S | I | P | | | | | | | |
| CDC Trey ◊ | 105 | 97 | 101 | 105 | 104 | 103 | 2 | R | -1 | 51 | 51 | G | I | R | R | I | I | F | | | | | | | |
| CDC YORKTON ◊ | 115 | XX | 103 | 98 | 103 | 93 | 6 | S | -2 | 47 | 39 | G | S | R | R | S | I | P | | | | | | | |
| Champion ▲ | 111 | XX | 110 | 107 | 107 | 113 | 2 | R | 0 | 53 | 50 | G | S | R | I | S | S | G | | | | | | | |
| CONLON ◊ | XX | 99 | 93 | 91 | 97 | 93 | 2 | S | -2 | 52 | 53 | G | XX | S | R | S | I | G | | | | | | | |
| Manny ◊ | 111 | 95 | 103 | 104 | 113 | 109 | 6 | R | -2 | 47 | 40 | G | I | R | S | R | I | P | | | | | | | |
| McLeod ◊ | 111 | 107 | 109 | 103 | 109 | 105 | 2 | R | 1 | 50 | 50 | G | S | R | I | S | I | P | | | | | | | |
| Niobe ◊ | 102 | 98 | 109 | 106 | 106 | 98 | 2 | R | -1 | 50 | 46 | G | I | R | I | I | I | P | | | | | | | |
| Ponoka ◊ | 108 | 98 | 106 | 106 | 109 | 112 | 2 | R | 2 | 50 | 48 | G | R | R | I | I | I | F | | | | | | | |
| Seebe | 97 | 99 | 99 | 100 | 101 | 104 | 2 | R | 4 | 52 | 50 | G | S | R | S | R | S | G | | | | | | | |
| Stander ◊* | 112 | 105 | 97 | 109 | 110 | 96 | 6 | SS | 1 | 51 | 40 | G | S | S | I | S | S | VP | | | | | | | |
| Sundre ▲ | 112 | 96 | 105 | 102 | 117 | 116 | 6 | S | 1 | 50 | 44 | G | S | R | S | R | I | P | | | | | | | |
| Trochu ◊ | 110 | 106 | 107 | 104 | 108 | 107 | 6 | S | -1 | 49 | 41 | G | S | R | R | I | I | P | | | | | | | |
| XENA ◊ | 116 | 106 | 114 | 112 | 114 | 111 | 2 | R | 1 | 52 | 50 | G | S | I | R | S | S | G | | | | | | | |
| SEMI-DWARF | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDC Bold | 104 | 112 | 105 | 103 | 105 | 107 | 2 | R | 0 | 53 | 48 | VG | S | R | I | I | S | VP | | | | | | | |
| Kasota † | 107 | 84 | 97 | 92 | 102 | 94 | 6 | R | -2 | 49 | 36 | EX | S | R | I | R | I | VP | | | | | | | |
| Mahigan * | 103 | 96 | 93 | 108 | 100 | 94 | 6 | SS | 1 | 50 | 35 | EX | S | R | I | R | I | VP | | | | | | | |
| Vivar ◊ | 119 | 101 | 108 | 107 | 114 | 109 | 6 | R | -1 | 48 | 44 | VG | I | R | R | I | I | VP | | | | | | | |
| HULLESS | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC Bacon †* | 86 | 88 | 87 | 92 | 96 | 83 | 6 | S | 1 | 58 | 38 | F | S | I | I | I | S | G | | | | | | | |
| CDC McGwire ◊ †* | 94 | 92 | 96 | 92 | 99 | 88 | 2 | R | -1 | 61 | 40 | EX | S | R | I | R | I | G | | | | | | | |
| Falcon ◊ †* | 77 | 75 | 80 | 72 | 83 | 72 | 6 | S | -2 | 58 | 35 | EX | S | R | I | I | I | VP | | | | | | | |
| Millhouse ◊ | XX | 90 | 82 | 84 | 82 | 85 | 6 | S | 1 | 55 | 39 | EX | S | R | I | I | I | P | | | | | | | |
| Tyto ◊ | XX | XX | X | 89 | X | X | 2 | R | 0 | 57 | 42 | F | S | I | I | S | I | G | | | | | | | |

B A R L E Y (c o n t i n u e d)

Resistance to:

| Variety | Yield by Area (see map) | | | | No. of Row | Awn Type | Comp. Mat. | Te. Wt. lb/bu | Kn. Wt. g/1000 | Ht. cm | Ldg. | Loose Smut | | | FL & Com. | | | Net Blotch | Toler. FHB |
|---------------------------|-------------------------|-----|-----|-----|------------|----------|------------|---------------|----------------|--------|------|------------|----|----|-----------|----|----|------------|------------|
| | Irr. | 1 | 2 | 3 | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | | |
| % of Metcalfe | | | | | | | | | | | | | | | | | | | |
| days +/- | | | | | | | | | | | | | | | | | | | |
| MALTING | | | | | | | | | | | | | | | | | | | |
| AC Metcalfe Δ | 100 | 100 | 100 | 100 | 100 | 2 | R | 100 | 52 | 46 | 82 | F | R | R | I | I | S | I | F |
| Calder Δ | 103 | XX | 106 | 105 | 104 | 2 | R | -1 | 49 | 50 | 78 | F | R | R | R | I | S | I | G |
| CDC Battleford Δ † | 108 | 96 | 103 | 101 | 107 | 6 | S | -1 | 49 | 41 | 85 | G | S | S | R | R | S | I | VP |
| CDC Clyde Δ | 116 | 97 | 98 | 97 | 105 | 6 | SS | -2 | 49 | 40 | 80 | G | S | S | S | R | S | S | P |
| CDC Copeland Δ | 109 | 100 | 102 | 101 | 103 | 2 | R | 1 | 50 | 48 | 83 | F | S | S | I | I | S | I | F |
| CDC Kendall Δ | 101 | 97 | 97 | 98 | 99 | 2 | R | -2 | 52 | 45 | 79 | F | S | S | S | I | S | I | F |
| CDC Select Δ | 97 | 101 | 100 | 102 | 104 | 2 | R | 0 | 50 | 45 | 75 | F | R | R | I | I | S | I | VP |
| Excel †* | 99 | 92 | 94 | 110 | 101 | 6 | SS | 0 | 50 | 40 | 75 | G | S | S | I | R | S | S | VP |
| Formosa | 104 | XX | 103 | 98 | 97 | 2 | R | -1 | 53 | 48 | 79 | XX | XX | XX | XX | XX | XX | XX | XX |
| Harrington | 98 | 100 | 95 | 88 | 93 | 2 | R | -1 | 50 | 45 | 78 | F | S | S | S | I | S | S | G |
| Lacey Δ † | 112 | XX | 99 | 102 | 108 | 6 | SS | -1 | 50 | 41 | 79 | G | I | I | R | R | S | I | VP |
| LEGACY | 105 | 96 | 99 | 98 | 104 | 6 | SS | -2 | 49 | 40 | 84 | G | I | I | R | R | S | I | P |
| Merit Δ † | 111 | 106 | 105 | 100 | 103 | 2 | R | 4 | 50 | 45 | 78 | F | S | S | R | I | S | I | F |
| Newdale Δ | 105 | 105 | 102 | 100 | 103 | 2 | R | 0 | 52 | 47 | 74 | F | S | S | R | R | S | I | F |
| Tradition Δ | 107 | 99 | 100 | 102 | 103 | 6 | SS | -2 | 49 | 41 | 85 | G | S | S | R | R | S | S | VP |

REMARKS: The check change from Harrington to AC Metcalfe has meant loss of long-term data by area for six-rowed and hullless types that have not been grown with AC Metcalfe in the last two years. AC Metcalfe has much higher yields than Harrington especially in zones 3, 4, 5 and 6, so yields in these areas as a percent of check will seem much lower than when taken as a percent of Harrington. Test yield categories are low <60, med is 60 - 90, high 90 - 120 and very high >120 or greater bu/acre.

* Area yield values adjusted to AC Metcalfe from Harrington.

See page 19 for symbols used.

B A R L E Y (new yield class table)

| Variety | Yield by Test | | Category | No. of Row | Awn Type | Comp. Mat. | Te. Wt. lb/bu | Kn. Wt. g/1000 | Ht. cm | Ldg. | Resistance to: | | | Net Blotch | Toler. FHB | |
|------------------|-----------------|---------|----------|------------|----------|------------|---------------|----------------|--------|------|----------------|----------------|-----|------------|------------|-------|
| | Low | High | | | | | | | | | Loose Smut | FL & Cov. Smut | Rot | | | Scald |
| | Med | V. High | | | | | | | | | | | | | | |
| | % of Test Mean | | | | | | | | | | | | | | | |
| | days +/- | | | | | | | | | | | | | | | |
| | GENERAL PURPOSE | | | | | | | | | | | | | | | |
| Alston ▲ | 91 | 106 | 103 | 106 | SS | -3 | 48 | 42 | 80 | G | S | R | I | S | R | P |
| AC Harper ◊* | 99 | 101 | 105 | 101 | SS | 0 | 48 | 40 | 80 | G | S | I | I | I | I | P |
| AC Lacombe ◊* | 105 | 104 | 106 | 103 | S | -2 | 48 | 42 | 85 | G | S | R | S | I | I | VP |
| AC Ranger * | 108 | 111 | 106 | 105 | S | 2 | 49 | 43 | 75 | F | XX | XX | XX | S | I | VP |
| AC Rosser ◊* | 109 | 108 | 106 | 107 | S | 2 | 48 | 41 | 82 | F | S | R | I | S | I | VP |
| CDC Cowboy ▲ | XX | 91 | 95 | 93 | R | 3 | 52 | 55 | 105 | G | S | R | R | S | I | G |
| CDC Dolly | 100 | 104 | 103 | 98 | R | 0 | 53 | 49 | 75 | F | S | R | I | I | S | F |
| CDC Helgason ◊ | 99 | 99 | 102 | 104 | R | -1 | 52 | 46 | 76 | G | R | R | I | S | I | P |
| CDC Trey ◊ | 103 | 100 | 98 | 101 | R | -1 | 51 | 51 | 80 | G | I | R | R | I | I | F |
| CDC YORKTON ◊ | 100 | 101 | 99 | 102 | S | -2 | 47 | 39 | 81 | G | S | R | R | S | I | P |
| Champion ▲ | XX | 109 | 107 | 107 | R | 0 | 53 | 50 | 82 | G | S | R | I | S | S | G |
| CONLON ◊ | XX | 91 | 89 | 93 | S | -2 | 52 | 53 | 82 | G | XX | S | R | S | I | G |
| Manny ◊ | 105 | 106 | 106 | 112 | R | -2 | 47 | 40 | 87 | G | I | R | S | R | I | P |
| McLeod ◊ | 106 | 106 | 103 | 104 | R | 1 | 50 | 50 | 76 | G | S | R | I | S | I | P |
| Niobe ◊ | 101 | 99 | 103 | 101 | R | -1 | 50 | 46 | 76 | G | I | R | I | I | I | P |
| Ponoka ◊ | 102 | 103 | 108 | 107 | R | 2 | 50 | 48 | 80 | G | R | R | I | I | I | F |
| Seebe | 100 | 103 | 101 | 97 | R | 4 | 52 | 50 | 87 | G | S | R | S | R | S | G |
| Stander ◊* | 101 | 100 | 104 | 102 | SS | 1 | 51 | 40 | 84 | G | S | S | I | S | S | VP |
| Sundre ▲ | 110 | 106 | 114 | 110 | S | 1 | 50 | 44 | 88 | G | S | R | S | R | I | P |
| Trochu ◊ | 105 | 108 | 105 | 108 | S | -1 | 49 | 41 | 79 | G | S | R | R | I | I | P |
| XENA ◊ | 109 | 109 | 112 | 111 | R | 1 | 52 | 50 | 79 | G | S | I | R | S | S | G |
| | SEMI-DWARF | | | | | | | | | | | | | | | |
| CDC Bold | 109 | 104 | 106 | 106 | R | 0 | 53 | 48 | 73 | VG | S | R | I | I | S | VP |
| Kasota † | 94 | 97 | 100 | 101 | R | -2 | 49 | 36 | 72 | EX | S | R | I | R | I | VP |
| Mahigan * | 93 | 99 | 102 | 104 | SS | 1 | 50 | 35 | 73 | EX | S | R | I | R | I | VP |
| Vivar ◊ | 108 | 109 | 109 | 110 | R | -1 | 48 | 44 | 77 | VG | I | R | R | I | I | VP |
| | HULLESS | | | | | | | | | | | | | | | |
| AC Bacon †* | 108 | 107 | 108 | XX | S | 1 | 58 | 38 | 83 | F | S | I | I | I | S | G |
| CDC McGwire ◊ †* | 111 | 105 | 99 | XX | R | -1 | 61 | 40 | 78 | EX | S | R | I | R | I | G |
| Falcon ◊ †* | 84 | 87 | 90 | 83 | S | -2 | 58 | 35 | 68 | EX | S | R | I | I | I | VP |
| Millhouse ◊ | XX | 84 | 86 | 79 | S | 1 | 55 | 39 | 73 | EX | S | R | I | I | I | P |
| Tyto ◊ | 87 | 83 | 84 | 90 | R | 0 | 57 | 42 | 87 | F | S | I | I | S | I | G |

B A R L E Y (new yield class table) (continued)

Resistance to:

| Variety | Yield by Test Yield Category | | | No. of Row | Awn Type | Comp. Mat. | Te. Wt. lb/bu | Kn. Wt. g/1000 | Ht. cm | Ldg. | FL & Com. | | | Net Blotch | Toler. FHB | | |
|---------------------------|------------------------------|-----|------|------------|----------|------------|---------------|----------------|--------|------|------------|-----------|-----|------------|------------|----|----|
| | Low | Med | High | | | | | | | | Loose Smut | Cov. Smut | Rot | | | | |
| | % of Test Mean | | | | | | | | | | | | | | | | |
| | MALTING | | | | | | | | | | | | | | | | |
| AC Metcalfe Δ | 101 | 102 | 101 | 99 | 2 | R | 100 | 52 | 46 | 82 | F | R | I | I | S | I | F |
| Calder Δ | 101 | 101 | 100 | 101 | 2 | R | -1 | 49 | 50 | 78 | F | R | R | I | S | I | G |
| CDC Battleford Δ † | 101 | 103 | 101 | 102 | 6 | S | -1 | 49 | 41 | 85 | G | S | R | R | S | I | VP |
| CDC Clyde Δ | 104 | 99 | 100 | 102 | 6 | SS | -2 | 49 | 40 | 80 | G | S | S | R | S | S | P |
| CDC Copeland Δ | 101 | 103 | 103 | 102 | 2 | R | 1 | 50 | 48 | 83 | F | S | I | I | S | I | F |
| CDC Kendall Δ | 99 | 100 | 99 | 96 | 2 | R | -2 | 52 | 45 | 79 | F | S | S | I | S | I | F |
| CDC Select Δ | 98 | 99 | 99 | 99 | 2 | R | 0 | 50 | 45 | 75 | F | R | I | I | S | I | VP |
| Excel†* | 102 | 100 | 99 | XX | 6 | SS | 0 | 50 | 40 | 75 | G | S | I | R | S | S | VP |
| Formosa | XX | 95 | 94 | 98 | 2 | R | -1 | 53 | 48 | 79 | XX | XX | XX | XX | XX | XX | XX |
| Harrington | 98 | 96 | 93 | 91 | 2 | R | -1 | 50 | 45 | 78 | F | S | S | I | S | S | G |
| Lacey Δ † | 102 | 102 | 105 | 98 | 6 | SS | -1 | 50 | 41 | 79 | G | I | R | R | S | I | VP |
| LEGACY | 100 | 100 | 98 | 98 | 6 | SS | -2 | 49 | 40 | 84 | G | I | R | R | S | I | P |
| Merit Δ † | 107 | 107 | 107 | 103 | 2 | R | 4 | 50 | 45 | 78 | F | S | R | I | S | I | F |
| Newdale Δ | 104 | 102 | 103 | 104 | 2 | R | 0 | 52 | 47 | 74 | F | S | R | R | S | I | F |
| Tradition Δ | 97 | 101 | 97 | 98 | 6 | SS | -2 | 49 | 41 | 85 | G | S | R | R | S | S | VP |

REMARKS: The check change from Harrington to AC Metcalfe has meant loss of long-term data by area for six-rowed and hullless types that have not been grown with AC Metcalfe in the last two years. AC Metcalfe has much higher yields than Harrington especially in zones 3, 4, 5 and 6, so yields in these areas as a percent of check will seem much lower than when taken as a percent of Harrington. Test yield categories are low <60, med is 60 - 90, high 90 - 120 and very high >120 or greater bu/acre.

* Area yield values adjusted to AC Metcalfe from Harrington.

See page 19 for symbols used.

O A T S

| Variety | Areas (see map) | | | | | Comp. Mat. | Te. Wt. | Kn. Wt. | Resistance to | |
|----------------|-----------------------|------|-----|------|-----|---------------|------------|------------|---------------|-------|
| | 1 | 2 | 3 | 4 | 5&6 | | | | Ldg. | Smuts |
| | Yield as % of Cascade | | | | | days | lb/bu | g/1000 | | |
| MILLING | | | | | | | | | | |
| 7600m ▲ | XX | 103 | 92 | 98 | 92 | 1 | 40 | 45 | F | R |
| AC Morgan | 107 | 124 | 114 | 105 | 107 | 2 | 40 | 41 | VG | R |
| CDC Boyer | 97 | 110 | 99 | 98 | 97 | 1 | 39 | 42 | G | S |
| CDC Dancer ☉ | 83* | 109 | 107 | 97 | 96 | -2 | 41 | 36 | G | R |
| CDC Orrin ☉ | XX | 110* | 116 | 108 | 106 | 2 | 41 | 41 | G | R |
| CDC Sol-Fi ▲ † | XX | 116* | 88 | 95 | 80 | 0 | 40 | 38 | F | R |
| CDC Weaver ☉ | XX | 127* | 114 | 108 | 97 | 2 | 40 | 44 | F | R |
| Derby | 102 | 100 | 94 | 96 | 96 | 2 | 41 | 39 | G | S |
| Furlong ☉ | XX | 98* | 100 | 101 | 90 | 1 | 40 | 47 | G | R |
| Hi Fi | XX | 98* | 100 | 95 | 88 | 1 | 40 | 34 | XX | XX |
| Jordan ☉ | XX | 134* | 103 | 121 | 109 | 4 | 39 | 45 | G | R |
| Leggett ☉ | XX | 113 | 97 | 101 | 90 | 4 | 41 | 39 | G | R |
| Ronald ☉ | 89* | 99 | 94 | 93 | 94 | 2 | 41 | 37 | VG | R |
| SW Betania ☉ | XX | 115* | 111 | 107 | 97 | 0 | 40 | 40 | G | R |
| FEED | | | | | | | | | | |
| Cascade | 100 | 100 | 100 | 100 | 100 | 105 | 40 | 37 | G | S |
| AC Mustang ▲ | 109 | 111 | 109 | 112 | 108 | 1 | 42 | 38 | G | I |
| Lu | XX | XX | 103 | 108 | 95 | -3 | 41 | 40 | G | R |
| Waldern | XX | XX | XX | 109* | 109 | 1 | 40 | 48 | G | S |
| FORAGE | | | | | | | | | | |
| CDC Baler | XX | 87* | 103 | 101 | 97 | 4 | 40 | 43 | XX | S |
| Murphy ☉ | XX | 83* | 86 | 99 | 94 | 2 | 39 | 37 | XX | S |

REMARKS: All varieties described above are hulled. Use higher seeding rate for large seeded varieties. CDC Charger, CDC ProFi, Triactor and OT2040, insufficient data to describe.

See page 19 for symbols used.

O A T S (new yield class table)

| | Test Yield Category | | | | Comp. Mat. | Te. Wt. | Kn. Wt. | Resistance to | |
|----------------|-------------------------|-----|------|---------|---------------|------------|------------|---------------|-------|
| | Low | Med | High | V. High | | | | Ldg. | Smuts |
| | Yield as % of Test Mean | | | | | | | days | lb/bu |
| MILLING | | | | | | | | | |
| 7600M ▲ | 98 | 91 | 95 | 91 | 3 | 40 | 45 | F | R |
| AC Morgan | 110 | 112 | 111 | 114 | 2 | 40 | 41 | VG | R |
| CDC Boyer | 103 | 102 | 102 | 102 | 1 | 39 | 42 | G | S |
| CDC Dancer ☉ | 100 | 100 | 101 | 102 | -2 | 41 | 36 | G | R |
| CDC Orrin ☉ | 112 | 109 | 107 | 101 | 2 | 41 | 41 | G | R |
| CDC Sol-Fi ▲ † | 90 | 87 | 86 | XX | 0 | 40 | 38 | F | R |
| CDC Weaver ☉ | 106 | 108 | 102 | 101 | 2 | 40 | 44 | F | R |
| Derby | 100 | 103 | 99 | 102 | 2 | 41 | 39 | G | S |
| Furlong ☉ | 98 | 97 | 96 | XX | 1 | 40 | 47 | G | R |
| Hi Fi | 91 | 86 | 89 | 94 | 1 | 40 | 34 | XX | XX |
| Jordan ☉ | 109 | 104 | 114 | 110 | 4 | 39 | 45 | G | R |
| Leggett ☉ | 95 | 95 | 96 | 99 | 4 | 41 | 39 | G | R |
| Ronald ☉ | 97 | 94 | 99 | 101 | 2 | 41 | 37 | VG | R |
| SW Betania ☉ | 106 | 104 | 101 | 100 | 0 | 40 | 40 | G | R |
| FEED | | | | | | | | | |
| Cascade | 103 | 104 | 104 | 101 | 105 | 40 | 37 | G | S |
| AC Mustang ▲ | 119 | 113 | 112 | 115 | 1 | 42 | 38 | G | I |
| Lu | 101 | 100 | 102 | 107 | -3 | 41 | 40 | G | R |
| Waldern | XX | 108 | 112 | 118 * | 1 | 40 | 48 | G | S |
| FORAGE | | | | | | | | | |
| CDC Baler | 93 | 109 | 100 | 94 | 4 | 40 | 43 | XX | S |
| Murphy ☉ | 91 | 95 | 97 | 91 | 2 | 39 | 37 | XX | S |

REMARKS: All varieties described above are hulled. Yield for hulless varieties are expressed on "as harvested" basis. Hull removal reduces weight of hulless oats by 5 to 10% and of completely hulled oats by 20 to 25%. Use higher seeding rate for large seeded varieties. Furlong has tan hulls. OT3018, CDC ProFi, Triactor and OT2040, insufficient data to describe.

Where test yield categories based on small plot data for hulled oats would be as follows:
 Low < 90 bu/ac; Medium = 90 to 135 bu/ac; High = 135 to 180 bu/ac; and Very High > 180 bu/ac.
 Yield % are based on test means for all varieties in the trial.

See page 19 for symbols used.

Symbols used:

- † Denotes variety may not be described in 2008.
- ND Denotes no data.
- NS Denotes variety generally not suited for area.
- 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.
- * Numerical yield data followed by a star (e.g. 101*) denotes limited data.

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. = Test Weight (lb/bu) pounds per bushel. Multiply lb/bu by 1.25 to get kilograms per hectoliter.
Kn. Wt. = 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: EX = Excellent, 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: R = Resistant, I = Intermediate, S = Susceptible.
Sprout Toler. = Sprouting Tolerance: P = Poor, F = Fair, G = Good, Ex = Excellent.
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, F+ = somewhat better than fair.

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Prairie Canola variety trial (PCVT)

The PCVT system replaces provincial canola variety testing programs and will help standardize protocols across provinces and improve trial consistency and quality.

The canola seed industry, Alberta Agriculture and Food, Saskatchewan Agriculture Food and Rural Revitalization, Manitoba Agriculture and Food (in-kind contribution), provincial canola commissions and the Canola Council of Canada each contributed to PCVT in 2007.

Trials were conducted by seed companies, government researchers and independent contractors in three growing zones across the prairies: short season, mid-season and long season. Two replicated tests were conducted at each site to group together varieties with similar maturity and to ensure that valid statistical comparisons could be made between varieties.

The yield and maturity results are summarized by three major maturity zones – **short** (roughly corresponds to Alberta agro-climatic Areas 4, 5 and 6), **mid** (Areas 2 and 3) and **long** (Area 1). The *Canola Digest* will print location specific results in December, and the data will be posted on the Canola Council website.

Yield columns show variety yields relative to the average of the two checks (45H21 and 5020). **The zone yields, maturity, height and lodging data are one-year data (2007) only.**

The table includes information on height, resistance to lodging, blackleg resistance, varietal type (open-pollinated, hybrid, synthetic) and herbicide tolerance.

2007 PRAIRIE CANOLA VARIETY TRIAL (PCVT)

| ARGENTINE Checks | Type | 2005 Yield | | 2007 Yield % of 45H21, 5020 Zones (station years) | | | Maturity | | Height +/- Inches | Lodging | | Blackleg Rating | Organization |
|------------------------|------|----------------------|----------------------|--|-------------|--------------|----------------------|-------------------------------|-------------------------|----------------------|---------------------|--------------------|---------------------|
| | | % 45H21 All Zones | % 45H21 All Zones | Short (8) | Mid (14) | Long (11) | Average All Zones | 45H21, 5020 +/- days to | | Rating + = Better | Rating + = Worse | | |
| | | | | | | | | | | | | | |
| 45H21, 5020 | | | | | | | | | 0 | 0 | 0 | | |
| CLEARFIELD RES. | | | | | | | | | | | | | |
| 5843 | OP | | | 84 | 81 | 75 | 80 | 1 | 0 | 0 | 0 | MR | BrettYoung |
| 1651 H | Hyb | | | 100 | 94 | 88 | 93 | 2 | 2 | 0 | 0 | R | Canterra Seeds |
| 71-30CL | Hyb | | | 99 | 98 | 98 | 98 | 1 | 2 | 0 | 0 | R | Monsanto Canada. |
| 45H73 | Hyb | 103 | | 98 | 99 | 98 | 98 | 0 | 1 | 0 | 0 | R | Pioneer Hi-bred |
| 45P70 | Hyb | 101 | | 100 | 103 | 103 | 102 | 1 | 2 | 0 | 0 | R | Viterra/Proven Seed |
| SP 761 CL | Hyb | | | | 95 | 87 | 92 | 3 | 2 | 0 | 0 | MR | Agriprogress Inc. |
| SP Force CL | OP | 82 | | 84 | 84 | 80 | 82 | 3 | 1 | 0 | 0 | R | Viterra/Proven Seed |
| LIBERTY RES. | | | | | | | | | | | | | |
| 1143 ** | Hyb | | | 99 | 99 | 97 | 98 | 0 | 1 | 0 | 0 | R | Bayer Crop Science |
| 5020 | Hyb | 109 | | 104 | 101 | 98 | 101 | -1 | -1 | 0 | 0 | R | Bayer Crop Science |
| 5030 | Hyb | 111 | | 114 | 114 | 114 | 114 | 2 | 6 | 1 | 1 | R | Bayer Crop Science |
| 5070 | Hyb | 110 | | 108 | 111 | 115 | 111 | 2 | 4 | 0 | 0 | R | Bayer Crop Science |
| 5440 | Hyb | | | 113 | 116 | 117 | 115 | 2 | 2 | 1 | 1 | R | Bayer Crop Science |
| 8440 | Hyb | | | 105 | 107 | 109 | 107 | 1 | -1 | 0 | 0 | R | Bayer Crop Science |
| 9590 | Hyb | | | 107 | 108 | 106 | 107 | 1 | 2 | 0 | 0 | R | Bayer Crop Science |
| ROUNDUP RES. | | | | | | | | | | | | | |
| 4414RR | Hyb | | | 91 | 88 | 87 | 88 | 2 | 1 | 0 | 0 | R | BrettYoung |
| 4362RR | Hyb | | | 91 | 89 | 79 | 86 | 0 | 1 | 0 | 0 | MR | BrettYoung |
| 1759S | Syn | | | | 93 | | 93 | 1 | 0 | 0 | 0 | MR | Canterra Seeds |
| 1768 S | Syn | | | 97 | 97 | 81 | 97 | 2 | 1 | 0 | 0 | MR | Canterra Seeds |
| 1818 | OP | 94 | | 94 | 89 | 81 | 88 | 3 | -3 | 0 | 0 | R | Canterra Seeds |
| 1839V | OP | 84 | | 84 | | | 84 | 0 | -6 | 0 | 0 | MR | Canterra Seeds |
| 1841 | Hyb | 99 | | | 98 | 94 | 96 | 3 | 4 | 0 | 0 | R | Canterra Seeds |
| 1847V | OP | | | 90 | 85 | | 87 | 3 | 0 | 0 | 0 | R | Canterra Seeds |
| 1852H | Hyb | | | 93 | 95 | | 94 | 0 | 3 | 0 | 0 | R | Canterra Seeds |
| 1855H | Hyb | | | | 95 | | 95 | 1 | 3 | 0 | 0 | R | Canterra Seeds |
| 1896 | Hyb | 87 | | 88 | 84 | | 85 | 1 | 0 | 0 | 0 | R | Canterra Seeds |
| v1035 ** | Hyb | | | 101 | 102 | 98 | 100 | 1 | -1 | 0 | 0 | R | Cargill |
| v2018 ** | Hyb | | | 91 | 99 | 97 | 96 | 3 | 2 | 0 | 0 | MR | Cargill |
| 93H01 RR | Hyb | | | 97 | 97 | 92 | 95 | 2 | 3 | 0 | 0 | MR | FarmPure Seeds Inc. |
| 83S01 RR | Syn | | | 90 | 94 | 88 | 91 | 1 | 1 | 0 | 0 | MR | FarmPure Seeds Inc. |
| 71-45RR | Hyb | | | 96 | 101 | 95 | 98 | 0 | 0 | 0 | 0 | MR | Monsanto Canada |

2007 PRAIRIE CANOLA VARIETY TRIAL (PCVT) (continued)

| ARGENTINE Checks | Type | 2005 Yield | | 2007 Yield % of 45H21, 5020 Zones (station years) | | | Maturity | | Height | | Lodging | | Blackleg Rating | Organization |
|---------------------------------|------|----------------------|----------------------|--|-------------|--------------|---------------------|--------------------------|---------------|---------------|----------------------|----------------------|--------------------|--------------|
| | | % 45H21 All Zones | % 45H21 All Zones | Short (8) | Mid (14) | Long (11) | All Zone Average | 45H21, 5020 All Zones | +/- Inches | +/- Inches | Rating + = Better | Rating + = Better | | |
| | | | | | | | | | | | | | | |
| ROUNDUP RES. (continued) | | | | | | | | | | | | | | |
| 43H57 | Hyb | | | 83 | 80 | | 81 | -4 | -2 | 0 | MR | Pioneer Hi-bred | | |
| 45H21 | Hyb | 100 | 100 | 96 | 99 | 102 | 99 | 1 | 1 | 0 | R | Viterra/Proven Seed | | |
| 45H24 | Hyb | 99 | 100 | 99 | 96 | 95 | 96 | 0 | 3 | 0 | R | Pioneer Hi-bred | | |
| 45H25 | Hyb | 97 | 98 | 97 | 93 | 91 | 93 | 0 | 3 | 0 | R | Pioneer Hi-bred | | |
| 45H26 | Hyb | | 105 | 102 | 102 | 99 | 101 | 1 | 2 | 0 | R | Pioneer Hi-bred | | |
| Café | OP | | 82 | 83 | 78 | 68 | 76 | -2 | -3 | 0 | R | Secan | | |
| RUGBY | OP | | | 95 | 90 | 85 | 89 | 1 | 0 | 0 | R | Secan | | |
| SP Desirable RR | Syn | 95 | 94 | 95 | 87 | 83 | 88 | -1 | 0 | 0 | R | Viterra/Proven Seed | | |
| SP Banner RR | OP | 85 | 85 | 87 | 82 | 74 | 80 | 1 | 0 | 0 | R | Viterra/Proven Seed | | |
| SP 621 RR | Hyb | | 95 | 91 | 94 | 87 | 91 | 0 | 0 | 0 | MR | Viterra/Proven Seed | | |
| 46P50 | Hyb | | 104 | 102 | 104 | 101 | 103 | 3 | 3 | 0 | R | Viterra/Proven Seed | | |
| SP Favourable RR | Syn | | 97 | 95 | 99 | 95 | 97 | 2 | 2 | 0 | MR | Viterra/Proven Seed | | |
| 43A56 | OP | 79 | 85 | 80 | 75 | | 77 | -4 | -2 | 0 | MR | Viterra/Proven Seed | | |
| 9551 | OP | | 87 | 92 | 89 | 85 | 89 | 2 | 2 | 0 | MR | Viterra/Proven Seed | | |

** Specialty oil

Type: OP – open pollinated; Syn – synthetic; and Hyb – hybrid

PCVT information is available on-line at www.canola-council.org

See page 19 for symbols used.