



Practical Information for Alberta's Agriculture Industry

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Varieties of Cereal and Oilseed Crops for Alberta


Introduction

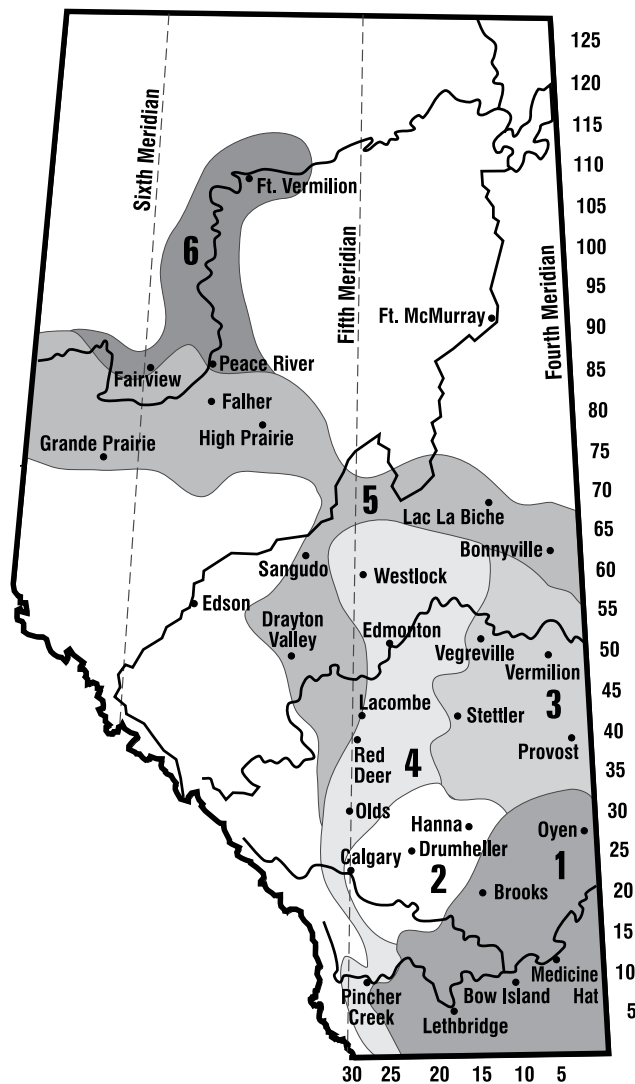
This publication provides information on cereal and oilseed variety performance within Alberta. Important agronomic characteristics are given in tabular form for varieties of wheat, oats, barley, flax, canola, triticale and rye. The agro-climatic areas, based primarily on precipitation and length of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

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. This information is coordinated by the Agricultural Research and Extension Council of Alberta (ARECA).

Funding for the 2008 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.

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). 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.

For the past several years, an additional approach has been used to better reflect the yield performance of varieties under varying growth conditions. For several crops, yield data is 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 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 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 three of the six 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 *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 Alberta Agriculture's website at www.agriculture.alberta.ca or call the Alberta Ag-Info Centre at 310-FARM (3276).

Factsheet prepared by

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and

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W H E A T

Variety	Areas (see map)					Irr.	Comp.		Te.	Kn.	Ht.	Resistance to:			Tolerance to:				
	1	2	3	4	5&6		Mat.	Prot.	Wt.	Wt.		Loose	Com.	Stripe	Leaf	Leaf	Leaf	FHB	
	Yield as % of AC Barrie						days	%	lb/bu	g/1000		cm	Ldg.	Smut	Bunt	Rt. Rot	Rust	Spot	Sprout
C.W. RED SPRING WHEAT																			
AC Barrie ◊	100	100	100	100	100	100	106	14.4	63	37	89	G	G	F	F	P	P	G	F
5602HR ◊	110	110	103	108	97	123	2	0.5	63	37	91	G	VG	G	XX	F	F	F	G
AC Abbey ◊ †	103	100	92	105	103	96	-1	-1.2	62	35	85	F	F	G	F	F	P	P	VP
AC Cadillac ◊	100	98	96	97	95	87	0	0.2	64	39	98	F	VG	VG	F	F	F	F	F
AC Eatonia ◊	91	93	91	93	97	89	1	-0.1	62	35	92	P	F	G	F	F	P	G	XX
AC Elsa ◊	101	109	100	104	107	90	0	-0.4	62	35	89	G	G	F	F	XX	G	F	P
AC Intrepid ◊	100	103	96	107	105	93	-2	-0.5	62	39	91	G	F	G	F	G	F	P	P
AC Splendor ▲	94	94	93	99	96	94	-3	0.4	61	38	90	F	F	F	F	F	F	F	P
Alikat †	94	94	93	97	100	82	-1	-0.4	63	36	87	F	G	XX	F	XX	P	F	F
Alvena ▲	94	104	97	104	102	113	0	0.2	63	36	91	G	G	G	XX	XX	XX	F	P
CDC Abound ▲	108	113	108	113	109	131	2	-0.1	63	39	84	G	F	F	XX	XX	P	G	P
CDC Alsask ◊	107	111	101	107	111	110	0	0.1	62	37	93	F	G	G	F	XX	P	F	P
CDC Bounty	106	104	100	109	103	102	-1	-0.4	64	37	94	F	G	F	F	XX	P	F	F
CDC Go	124	114	106	110	108	139	-1	0.0	61	42	85	G	P	G	XX	XX	P	P	F
CDC Imagine ◊	105	104	100	108	104	109	-1	-0.2	60	38	84	G	G	G	F	F	P	F	VP
CDC Osler	134	107	102	107	100	118	-1	0.0	61	35	86	G	G	G	XX	XX	XX	F	VP
CDC Teal	100	99	91	104	101	100	-2	-0.2	62	36	89	G	F	F	F	F	P	P	VP
Goodeve ▲	97	108	103	106	103	XX	1	0.1	62	36	90	XX	G	P	XX	XX	P	XX	VP
Harvest ◊	102	104	106	102	97	111	0	0.2	62	37	84	VG	G	F	F	XX	P	VG	VP
Infinity ◊	112	100	101	101	105	108	0	-0.3	61	34	89	G	G	F	XX	P	P	G	VP
Journey ◊	109	104	96	93	97	108	1	0.6	61	36	83	VG	F	G	F	F	P	G	P
Kane ◊	96	104	97	102	97	XX	0	0.2	64	36	87	XX	P	F	XX	XX	F	XX	F
Katepwa	100	98	94	100	100	97	0	-0.3	62	35	93	F	G	G	F	P	P	F	F
Lillian ◊	120	104	101	98	102	119	-1	-0.1	61	38	87	G	F	G	F	G	P	G	VP
Lovitt ◊	102	92	99	99	98	94	-1	-0.3	61	35	89	G	G	F	F	P	XX	VG	VP
McKenzie	107	103	101	103	102	109	-1	-0.9	62	34	89	F	P	VG	F	P	F	VG	F
Park	101	94	86	101	95	104	-2	0.0	62	35	91	F	G	XX	F	XX	P	G	VP
Peace	108	102	94	98	99	109	-1	0.2	63	38	93	G	VG	VG	XX	XX	XX	P	VP
Prodigy	104	100	104	107	105	93	0	0.3	63	35	94	G	F	G	F	XX	P	F	VP
Roblin	92	89	91	95	98	104	XX	0.1	62	36	87	G	G	VP	F	XX	VP	F	VP
Snowstar ◊	96	103	101	97	102	111	-3	-0.9	64	30	84	XX	P	P	XX	XX	F	XX	P
Somerset ◊	95	104	95	97	102	106	1	-0.2	62	36	97	G	VG	F	XX	XX	P	F	P
Superb ◊	116	112	106	116	112	121	1	-0.4	62	42	85	G	F	G	F	P	P	G	P
Waskada ▲	97	130	104	115	104	XX	-1	0.1	64	27	95	XX	G	G	XX	XX	P	XX	G
C.W. HARD WHITE SPRING WHEAT																			
Kanata ◊	XX	94	89	91	85	100	-2	0.2	60	33	82	G	F	P	F	P	P	G	F
Snowbird ◊	98	103	105	102	103	114	2	-0.4	61	36	87	G	G	F	F	XX	P	G	P
Snowstar ◊	98	104	96	94	102	102	-2	-0.8	64	30	84	XX	P	P	XX	XX	F	XX	P

REMARKS: AC Abbey, AC Eatonia and Lillian - adapted to sawfly areas. AC Abbey has semi-dwarf stature. 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. BW365, BW388, BW859, BW867 and Unity VB, 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		
	Yield as % of AC Taber						days	%				lb/bu	g/1000	Ldg.	Smut	Bunt		Rt. Rot	Rust
CANADA PRAIRIE SPRING WHEAT																			
RED SEEDED																			
AC Taber	100	100	100	100	100	100	111	12.3	62	42	79	G	P	VG	F	P	F	P	VP
5700PR ☉	92	102	101	103	101	100	-1	0.1	62	42	75	VG	P	G	F	P	P	P	VP
5701PR ☉	93	102	99	102	99	103	0	0.2	60	43	78	G	F	F	S	G	P	P	VP
5702PR	91	96	92	113	105	93	-5	0.4	61	40	80	XX	P	F	XX	XX	F	XX	P
AC Crystal ☉	94	98	98	102	97	95	0	0.5	62	43	79	G	F	VG	S	P	F	P	VP
AC Foremost	96	96	95	97	99	99	-1	XX	62	42	72	VG	F	VG	F	P	P	F	VP
WHITE SEEDED																			
Snowwhite475	96	95	93	104	95	106	-2	0.1	61	43	80	XX	F	VG	XX	XX	P	XX	VP
Snowwhite476	102	101	93	105	102	108	0	0.0	60	43	82	XX	G	VG	XX	XX	P	XX	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.

Ratings: VP - very poor, P - poor, F - fair, G - good, VG - very good

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 Smut	Bunt	Com. Rt. Rot	Stripe Rust	Leaf		
	Yield as % of Test Mean			days	%	lb/bu	g/1000	cm						Spot	Sprout	FHB
C.W. RED SPRING WHEAT																
AC Barrie ◊	99	96	95	106	14.4	63	37	89	G	G	F	F	P	P	G	F
5602HR ◊	100	101	102	2	0.5	63	37	91	G	VG	G	XX	F	F	F	G
AC Abbey ◊†	96	102	105	-1	-1.2	62	35	85	F	F	G	F	F	P	P	VP
AC Cadillac ◊	99	96	97	0	0.2	64	39	98	F	VG	VG	F	F	F	F	F
AC Eatonia ◊	89	95	92	1	-0.1	62	35	92	P	F	G	F	F	P	G	XX
AC Elsa ◊	102	105	105	0	-0.4	62	35	89	G	G	F	F	XX	G	F	P
AC Intrepid ◊	102	102	104	-2	-0.5	62	39	91	G	F	G	F	G	F	P	P
AC Splendor ▲	94	95	98	-3	0.4	61	38	90	F	F	F	F	F	F	F	P
Alikat †	98	94	95	-1	-0.4	63	36	87	F	G	XX	F	XX	P	F	F
Alvena ▲	97	98	99	0	0.2	63	36	91	G	G	G	XX	XX	XX	F	P
CDC Abound ▲	104	109	108	2	-0.1	63	39	84	G	F	F	XX	XX	P	G	P
CDC Alsask ◊	105	104	103	0	0.1	62	37	93	F	G	G	F	XX	P	F	P
CDC Bounty	103	105	103	-1	-0.4	64	37	94	F	G	F	F	XX	P	F	F
CDC Go	102	109	114	-1	0.0	61	42	85	G	P	G	XX	XX	P	P	F
CDC Imagine ◊	102	103	103	-1	-0.2	60	38	84	G	G	G	F	F	P	F	VP
CDC Osler	101	103	103	-1	0.0	61	35	86	G	G	G	XX	XX	XX	F	VP
CDC Teal	97	100	101	-2	-0.2	62	36	89	G	F	F	F	F	P	P	VP
Goodeve ▲	104	100	99	1	0.1	62	36	90	XX	G	P	XX	XX	P	XX	VP
Harvest ◊	98	102	99	0	0.2	62	37	84	VG	G	F	F	XX	P	VG	VP
Infinity ◊	102	100	99	0	-0.3	61	34	89	G	G	F	XX	P	P	G	VP
Journey ◊	95	99	96	1	0.6	61	36	83	VG	F	G	F	F	P	G	P
Kane ◊	94	97	98	0	0.2	64	36	87	XX	P	F	XX	XX	F	XX	F
Katepwa	97	94	91	0	-0.3	62	35	93	F	G	G	F	P	P	F	F
Lillian ◊	107	98	99	-1	-0.1	61	38	87	G	F	G	F	G	P	G	VP
Lovitt ◊	97	95	96	-1	-0.3	61	35	89	G	G	F	F	P	XX	VG	VP
McKenzie	106	102	105	-1	-0.9	62	34	89	F	P	VG	F	P	F	VG	F
Park	91	94	90	-2	0.0	62	35	91	F	G	XX	F	XX	P	G	VP
Peace	97	95	97	-1	0.2	63	38	93	G	VG	VG	XX	XX	XX	P	VP
Prodigy	106	105	104	0	0.3	63	35	94	G	F	G	F	XX	P	F	VP
Roblin	94	95	95	XX	0.1	62	36	87	G	G	VP	F	XX	VP	F	VP
Snowstar ◊	99	99	95	-3	-0.9	64	30	84	XX	P	P	XX	XX	F	XX	P
Somerset ◊	101	96	94	1	-0.2	62	36	97	G	VG	F	XX	XX	P	F	P
Superb ◊	108	109	106	1	-0.4	62	42	85	G	F	G	F	P	P	G	P
Waskada ▲	101	100	105	-1	0.1	64	37	95	XX	G	G	XX	XX	P	XX	G
C.W. HARD WHITE SPRING WHEAT																
Kanata ◊	XX	94	89	-2	0.2	60	33	82	G	F	P	F	P	P	G	F
Snowbird ◊	98	103	105	2	-0.4	61	36	87	G	G	F	F	XX	P	G	P
Snowstar ◊	97	96	94	-2	-0.8	64	30	84	XX	P	P	XX	XX	F	XX	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. BW365, BW388, BW859, BW867 and Unity VB, 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
CANADA PRAIRIE SPRING WHEAT																
RED SEEDED																
AC Taber	105	104	104	111	12.3	62	42	79	G	P	VG	F	P	F	P	VP
5700PR ☉	107	106	107	-1	0.1	62	42	75	VG	P	G	F	P	P	P	VP
5701PR ☉	102	105	102	0	0.2	60	43	78	G	F	F	S	G	P	P	VP
5702PR	102	94	96	-5	0.4	61	40	80	XX	P	F	XX	XX	F	XX	P
AC Crystal ☉	102	102	104	0	0.5	62	43	79	G	F	VG	S	P	F	P	VP
AC Foremost	103	102	104	-1	XX	62	42	72	VG	F	VG	F	P	P	F	VP
WHITE SEEDED																
Snowwhite475	96	98	98	-2	0.1	61	43	80	XX	F	VG	XX	XX	P	XX	VP
Snowwhite476	103	102	107	0	0.0	60	43	82	XX	G	VG	XX	XX	P	XX	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. Test yield categories based on small plot yields were Low <50 bu/ac; Medium 50 to 90 bu/ac; and High >90 bu/ac.

Ratings: VP - very poor, P - poor, F - fair, G - good, VG - very good

See page 19 for symbols used.

W H E A T

Variety	Areas (see map)				Irr.	Comp. days	Te. Wt. lb/bu	Kn. Wt. g/1000	Resistance to:				Tolerance to:					
	1	2	3	4					Ht. Ldg. Shat.	Loose		Com.		Leaf Spot	Sprout	FHB		
	566	566	566	566						Smut	Bunt	Rt. Rot	Stripe Rust					
	Yield as % of Kyle																	
	C.W. AMBER DURUM WHEAT																	
Kyle	100	100	100	NS	NS	108	62	44	100	P	G	VP	VG	F	G	P	F	P
AC Avonlea Δ	104	103	106	NS	NS	0	63	44	91	F	G	VP	VG	F	XX	P	F	P
AC Morse Δ	100	99	100	NS	NS	-1	61	44	84	G	G	VP	VG	F	G	VP	F	VP
AC Navigator Δ	110	105	106	NS	NS	0	63	46	77	G	G	VP	VG	F	G	VP	F	VP
Commander Δ	123	116	113	NS	NS	-1	62	46	79	G	VG	F	VG	XX	XX	P	F	VP
Strongfield Δ	113	107	107	NS	NS	-1	62	45	90	F	VG	VP	G	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	Crop Zone				Irr.	All	Environment			Rel Mat	Te. Wt. lb/bu	Kn. Wt. g/1000	Resistance to:										
	1	2	3	4			High	Med	Low				V.High	Ht. Ldg. Shat.	Loose		Com.						
	566	566	566	566			High	Med	Low						Wt.	Bunt	Rt. Rot	Stripe Rust	Leaf Spot	FHB			
	Yield as % of AC Andrew																						
AC Andrew	100	100	100	100	100	100	100	100	100	112	62	38	79	XX	XX	VP	P	F	XX	F	VP		
AC Meena	98	83	102	95	103	97	101	98	92	97	61	37	78	XX	XX	VP	VP	F	G	XX	F	P	
AC Reed	97	XX	XX	XX	96	106	XX	99	XX	104	62	37	85	VG	VG	G	VP	G	G	XX	F	VP	
Bhishaj	107	109	121*	110	102	116	110	102	112	112	63	40	85	VG	VG	VP	VP	F	G	XX	F	P	
Andrew (bu/ac)	63	80	53	107	81	99	80																

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. Yield categories are based on small plot data and 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. XX: insufficient data, *only 4 station year data.

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 Smut	Bunt	Com. Rt. Rot	Stripe Rust	Leaf		
	Yield as % of Amazon																days	lb/bu	g/1000
C.W. EXTRA STRONG WHEAT																			
Amazon ☺	100	100	100	100	100	100	110	61	46	97	G	G	VG	F	F	XX	F	P	P
Bluesky	95	99	96	102	103	96	-2	61	44	96	F	G	XX	XX	G	XX	P	P	P
CDC Rama	108	112	105	111	107	114	-1	63	48	98	F	G	VG	G	XX	G	P	P	F
Laser	94	97	92	99	96	103	-4	61	39	88	VG	G	VG	VP	F	XX	P	F	VP

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 Smut	Bunt	Com. Rt. Rot	Stripe Rust	Leaf		
	Yield as % of Test Mean													days	lb/bu	g/1000
C.W. EXTRA STRONG WHEAT																
Amazon ☺	94	92	87	110	61	46	97	G	G	VG	F	F	XX	F	P	P
Bluesky	94	90	92	-2	61	44	96	F	G	XX	XX	G	XX	P	P	P
CDC Rama	98	102	96	-1	63	48	98	F	G	VG	G	XX	G	P	P	F
Laser	88	87	91	-4	61	39	88	VG	G	VG	VP	F	XX	P	F	VP

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.

Ratings: VP = very poor, P = poor, F = fair, G = good, VG = very good.

See page 19 for symbols used.

WINTER WHEAT

Variety	Data Pts.	Irr.	Area (see map)					Environment Productivity			All Data	Relative Mat. days	Plant Ht. cm	Te. Wt. (lb/bu)	Seed Wt. (mg)	Resistance to:		
			1	2	3	4	5&6	Low Med.	High V.H.	Days						%	Prot.	Ldg.
CDC Osprey (bu/A)	82	63	54	53	95	61	35	61	86	118	75							
C.W. RED WINTER "SELECT"																		
CDC OSPREY	169	100	100	100	100	100	100	100	100	100	218	12.3	88	63	32	VG	G	VP
AC Bellatrix	134	96	103	107	XX	106	110	103	101	102	103	+2	+0.3	87	64	F	G	F
AC Readymade	76	99	94	97	ns	ns	99	97	96	XX	97	+5	+1.7	89	64	P	VG	F
AC Tempest	120	103	96	99	ns	ns	100	97	100	98	98	+5	+1.5	87	64	P	VG	G
CDC Buteo	65	96	97	100	XX	101	99	98	97	101	98	+1	+0.2	87	65	VG	F	VP
McClintock ◊	62	106	94	91	XX	98	88	99	95	100	96	+2	-0.1	90	64	P	VG	G
Norstar	124	88	94	96	XX	94	102	96	91	87	94	+2	-0.1	106	64	VG	VP	F
Radiant ◊	104	107	102	107	XX	99	100	101	104	97	102	+2	-0.2	86	63	VG	VG	G
C.W. RED WINTER "GENERIC"																		
CDC CLAIR	118	100	100	112	XX	107	104	103	103	103	106	+1	-0.4	86	63	VG	F	VP
CDC Falcon	110	107	102	103	XX	100	102	93	103	102	102	-2	-0.4	73	63	G	VG	VP
CDC Harrier	95	111	103	111	XX	105	110	108	107	106	103	+1	-1.1	91	62	VG	G	VP
CDC Kestrel	101	108	102	108	XX	105	104	106	105	104	102	+1	-1.4	91	63	VG	F	VP
CDC Raptor	79	102	101	108	XX	100	96	104	101	99	101	+1	-0.4	80	63	VG	VG	VP
C. W. GENERAL PURPOSE																		
Accipiter	7	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	+1	+0.0	81	XX	XX	G	VP
CDC Ptarmigan	33	XX	119	120	XX	114	XX	XX	117	113	115	+2	-2.3	89	61	G	P	VP
Peregrine	8	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	+1	-0.2	93	XX	XX	VG	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. Environment productivity divisions are based on the individual site means for small plot trial yields: Low = under 45 bu/A; Medium = 45 to 75 bu/A; High = 75 to 105 bu/A; Very High = over 105 bu/A. 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; varieties that have poor resistance to this disease should be treated with a systemic seed treatment. CDC Harrier has stem rust resistance; Accipiter, CDC Buteo, CDC Falcon, CDC Raptor, McClintock and Peregrine have stem and leaf rust resistance. Radiant, McClintock and Peregrine have resistance to several races of stripe rust. AC Bellatrix 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 with soft white kernels, other varieties in this class have hard red kernels. Note that the data for Accipiter and Peregrine are very limited.

XX = insufficient data to report.
 NS = not suitable.

Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.
 See page 19 for symbols used.

F A L L R Y E

Variety	Yield				Area (see map)				Environment				All Data	Rel. Mat. days	Ht. (cm)	Te. Wt. (lb/bu)	Kn. Wt. (mg)	Resistance to:	
	Data		Pts.		1 2 3 4		556		Low	Med	High	V. High						Ldg.	Shat.
	1	2	3	4	556	Low	Med	High	V. High										
	Yield as % of Prima																		
Prima (bu/A)	62	73	XX	105	60	36	60	93	136	78									
Prima	75	100	XX	100	100	100	100	100	100	100	100	100	100	215	119	58	33	EX	F
AC Remington	27	122	105	XX	87	120	103	98	84	102	+3				93	57	30	EX	G
AC Rifle	75	116	100	XX	91	102	114	104	97	101	0				87	57	30	EX	VG
Dakota	45	120	115	XX	118	128	120	123	116	120	+2				111	56	34	EX	F
Hazlet	18	XX	XX	XX	101	128	XX	125	XX	118	+2				103	58	39	EX	G
Musketeer	40	87	89	XX	96	88	92	93	93	91	+1				104	56	33	EX	F

REMARKS: Environment productivity divisions are based on the individual site means for 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 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.

NS = not suitable.

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

See page 19 for symbols used.

BARLEY

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.		Spot		Toler. FHB	
	Irr.	1	2	3									4	556	days +/-	Cov. Smut		Rot
GENERAL PURPOSE																		
*AC Harper ◊	106	102	99	106	108	100	6	SS	0	48	40	G	P	F	F	F	F	P
*AC Lacombe ◊	106	107	100	108	108	103	6	S	-2	48	42	G	P	G	P	G	G	VP
*AC Ranger	110	XX	99	111	104	105	6	S	2	49	43	F	P	F	P	G	G	VP
*AC Rosser ◊	119	112	102	108	111	107	6	S	2	48	41	F	P	G	VP	G	G	VP
Alston ▲	XX	111	100	102	102	106	6	SS	-3	48	42	G	P	VG	P	G	G	VP
CDC Coalition ▲	XX	114	110	110	110	113	2	R	2	53	48	G	VG	G	VP	G	G	F
CDC Cowboy ◊	95	91	98	101	97	96	2	R	3	52	55	G	P	G	P	G	G	G
CDC Dolly	104	102	106	98	103	98	2	R	0	53	49	F	VP	F	F	F	P	G
CDC Helgason ◊	100	94	101	100	104	103	2	R	-1	52	46	G	VG	G	VP	G	G	P
CDC Minton ◊	XX	112	103	101	97	98	2	R	1	53	49	G	VG	VG	VP	G	G	G
CDC Trey ◊	105	97	101	105	104	103	2	R	-1	51	51	G	P	VG	P	VG	F	F
CDC YORKTON ◊	115	XX	103	98	103	93	6	S	-2	47	39	G	P	G	P	G	G	VP
Champion ◊	111	115	112	112	109	113	2	R	0	53	50	G	VP	VG	XX	VP	F	F
CONLON ◊	XX	99	93	91	97	93	2	S	-2	52	53	G	F	F	G	VP	G	G
Manny ◊	111	95	103	104	113	109	6	R	-2	47	40	G	XX	VG	P	VG	F	P
McLeod ◊	111	107	109	103	109	105	2	R	1	50	50	G	VP	VG	F	VP	F	F
Niobe ◊	102	98	109	106	106	98	2	R	-1	50	46	G	P	G	P	F	VG	P
Ponoka ◊	107	101	109	108	111	112	2	R	2	50	48	G	VG	VG	F	G	G	F
Seebe	97	99	99	100	101	104	2	R	4	52	50	G	VP	VG	F	G	P	G
*Stander ◊	112	105	97	109	110	96	6	SS	1	51	40	G	P	P	F	VP	G	VP
Sundre ◊ ▲	112	96	105	102	117	116	6	S	1	50	44	G	P	VG	P	VG	F	VP
Trochu ◊	110	106	107	104	108	107	6	S	-1	49	41	G	P	G	G	F	G	F
XENA ◊	115	109	116	111	114	110	2	R	1	52	50	G	P	P	G	VP	F	G
SEMI-DWARF																		
CDC Bold	104	112	105	103	105	107	2	R	0	53	48	VG	P	G	F	F	F	VP
Kasota †	107	84	97	92	102	94	6	R	-2	49	36	EX	VP	VG	F	G	F	VP
Mahigan	103	96	93	108	100	94	6	SS	1	50	35	EX	VP	VG	P	G	F	VP
Vivar ◊	119	101	109	106	113	107	6	R	-1	48	44	VG	F	VG	G	F	G	VP
HULLLESS																		
AC Bacon †	86	88	87	92	96	83	6	S	1	58	38	F	P	F	F	F	P	G
CDC McGwire ◊ †	94	92	96	92	99	88	2	R	-1	61	40	EX	P	G	F	F	G	G
Falcon ◊ †	77	75	80	72	83	72	6	S	-2	58	35	EX	P	G	F	F	F	VP
Millhouse ◊	XX	XX	X	89	X	X	2	R	0	57	42	F	VP	G	F	P	P	F
Tyto ◊	XX	90	82	84	82	85	6	S	1	55	39	EX	VP	VG	F	P	F	P

BARLEY (continued)

Resistance to:

Variety	Yield by Area (see map)				No. of Row	Awn Type	Comp. Mat.	Te. Wt.	Kn. Wt.	Ht. cm	Ldg.	Loose Smut			FL & Com. Rt.			Scald			Spot			Net									
	Irr.	1	2	3								4	5&6	days +/-	g/1000	cm	F	VG	P	F	G	P	F	VP	F	G	P	F	VP	F	VP	F	VP
MALTING																																	
AC Metcalfe ◊	100	100	100	100	100	100	100	52	46	82	F	VG	F	F	F	F	VP	VP	F	F	VP	F	VP	F	VP	F	VP						
CDC Copeland ◊	109	100	102	101	103	104	1	50	48	83	F	P	F	F	F	VP	VP	VP	F	F	VP	F	VP	F	VP	F	VP						
CDC Kendall ◊	101	97	97	98	99	96	-2	52	45	79	F	P	P	P	G	VP	VP	VP	G	G	VP	G	VP	F	VP	F	VP						
Newdale ◊	105	105	102	100	103	106	0	52	47	74	F	VP	G	G	G	P	VP	VP	G	G	VP	G	VP	F	VP	F	VP						
Lacey ◊†	112	XX	99	102	108	98	-1	50	41	79	G	F	G	G	G	VP	VP	VP	G	G	VP	F	VP	F	VP	VP	VP						
LEGACY ◊	105	96	99	98	104	100	-2	49	40	84	G	F	G	G	G	VP	VP	VP	G	G	VP	G	VP	VP	VP	VP	VP						
Tradition ◊	107	99	100	102	103	97	-2	49	41	85	G	VP	G	G	G	VP	VP	VP	G	G	VP	F	VP	F	VP	VP	VP						
MALTING VARIETIES UNDER TEST																																	
CDC Select ◊	97	101	100	102	104	101	0	50	45	75	F	G	G	G	P	VP	VP	VP	G	G	VP	G	VP	P	VP	P	VP						
CDC Battleford ◊ †	108	96	103	101	107	100	-1	49	41	85	G	P	G	G	G	P	P	P	G	G	VP	VG	P	P	P	P	VP						
CDC Clyde ◊	116	97	98	97	105	105	-2	49	40	80	G	F	VG	G	G	P	P	P	G	G	VP	G	VP	F	VP	F	VP						
OTHER MALTING VARIETIES																																	
Harrington	98	100	95	88	93	94	-1	50	45	78	F	P	P	P	F	VP	VP	VP	P	P	VP	P	VP	P	VP	G	VP						
*Excel †	99	92	94	110	101	101	0	50	40	75	G	P	P	F	G	VP	VP	VP	F	F	VP	F	VP	F	VP	VP	VP						
Formosa	104	XX	103	98	97	96	-1	53	48	79	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	F	VP	F	VP	VP	XX						

REMARKS: Yield is described as % AC Metcalfe by Area. Refer to Alberta testing zone map for the geographical areas.

Varieties designated with a * have limited or no data compared with AC Metcalfe as the check variety. As a result, the area yields for 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.

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 2009.

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:

2 Row - Bentley, CDC Meredith, CDC Reserve, CDC Landis, CDC PolStar, Norman, Merit 16, Merit 57

6 Row - CDC Mayfair, CDC Laurence, CDC Kamsack

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

See page 19 for symbols used.

BARLEY (new yield class table)

Variety	Yield by Test Yield Category of bu/ac and as % of test mean		in each category		No of Row	Awn Type	Comp. Mat.	Te. Wt.	Kn Wt.	Ht cm	Ldg.	Loose		FL & Com.		Spot		Net	
	<60	>120	Low	High								Smut	Xmut	Rt.	Rot	Scald	Blotch	Net	Form
	days +/-		%		%		lb/bu		g/1000		cm								
GENERAL PURPOSE																			
*AC Harper ◊	99	101	105	101	6	SS	0	48	40	80	G	P	F	F	F	F	F	F	P
*AC Lacombe ◊	105	104	106	103	6	S	-2	48	42	85	G	P	G	P	G	P	G	P	VP
*AC Ranger	108	111	106	105	6	S	2	49	43	75	F	P	P	P	G	F	G	F	VP
*AC Rosser ◊	109	108	106	107	6	S	2	48	41	82	F	P	VP	G	G	F	G	F	VP
Alston ▲	94	106	102	105	6	SS	-3	48	42	80	G	P	VG	F	F	G	G	F	VP
CDC Coalition ▲	111	108	106	107	2	R	2	53	48	75	G	VG	G	G	F	VP	G	VP	F
CDC Cowboy ◊	110	90	94	92	2	R	3	52	55	105	G	P	G	F	F	G	G	F	G
CDC Dolly	100	104	103	98	2	R	0	53	49	75	F	VP	F	F	P	VP	P	VP	G
CDC Helgason ◊	99	99	102	104	2	R	-1	52	46	76	G	VG	G	F	VP	G	G	G	P
CDC Mindon ◊	XX	97	100	95	2	R	1	53	49	79	G	VG	VG	XX	VP	G	VP	G	G
CDC Trey ◊	103	100	98	101	2	R	-1	51	51	80	G	P	VG	G	G	F	VG	F	F
CDC YORKTON ◊	100	101	99	102	6	S	-2	47	39	81	G	P	G	P	P	G	G	F	VP
Champion ◊	111	108	106	107	2	R	0	53	50	82	G	VP	VG	XX	VP	F	VP	F	F
CONLON ◊	XX	91	89	93	2	S	-2	52	53	82	G	F	F	G	VP	G	G	F	G
Manny ◊	105	106	106	112	6	R	-2	47	40	87	G	XX	VG	F	VP	G	F	P	G
McLeod ◊	106	106	103	104	2	R	1	50	50	76	G	VP	VG	VP	F	VP	F	VP	F
Niobe ◊	101	99	103	101	2	R	-1	50	46	76	G	P	G	P	P	F	VG	P	P
Ponoka ◊	100	104	108	106	2	R	2	50	48	80	G	VG	VG	F	G	G	G	P	F
Seebe	100	103	101	97	2	R	4	52	50	87	G	VP	VG	F	G	P	P	VP	G
*Stander ◊	101	100	104	102	6	SS	1	51	40	84	G	P	P	F	VP	G	G	VP	VP
Sundre ◊▲	110	106	114	110	6	S	1	50	44	88	G	P	VG	P	P	VP	F	VP	VP
Trochu ◊	105	108	105	108	6	S	-1	49	41	79	G	P	G	G	G	VP	F	VP	F
XENA ◊	109	109	111	111	2	R	1	52	50	79	G	P	P	P	G	VP	F	VP	G
SEMI-DWARF																			
CDC Bold	109	104	106	106	2	R	0	53	48	73	VG	P	G	G	F	F	F	VP	VP
Kasota †	94	97	100	101	6	R	-2	49	36	72	EX	VP	VG	F	G	F	F	P	VP
Mahigan	93	99	102	104	6	SS	1	50	35	73	EX	VP	VG	P	G	F	F	F	VP
Vivar ◊	108	108	109	110	6	R	-1	48	44	77	VG	F	VG	G	F	G	F	VG	VP
HULLLESS																			
AC Bacon †	108	107	108	XX	6	S	1	58	38	83	F	P	F	F	F	F	P	VP	G
CDC McGwire ◊ †	111	105	99	XX	2	R	-1	61	40	78	EX	P	G	G	F	G	F	F	G
Falcon ◊ †	84	87	90	83	6	S	-2	58	35	68	EX	P	G	F	F	F	F	F	VP
Millhouse ◊	87	83	84	90	2	R	0	57	42	87	F	VP	G	F	P	P	P	P	P
Tyto ◊	XX	84	86	79	6	S	1	55	39	73	EX	VP	VG	F	P	F	F	VP	F

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

Variety	Yield by Test Yield Category of bu/ac and as % of test mean										Ht cm	Ldg.	Loose Smut	FL & Com.		Spot		Net Form			
	in each category			No of Row	Awn Type	Comp. Mat.	Te. Wt.	Kn Wt.	Xmut	Rt.				Scald	Blotch	Net Blotch					
	Low <60	Medium 60-90	High 90-120														V. High >120		Form	Net	Form
	% of Test Mean																				
	MALTING																				
AC Metcalfe ◊	101	102	101	99	2	R	100	52	46	82	F	VG	F	F	VP	F	VP	F	VP		
CDC Copeland ◊	101	103	103	102	2	R	1	50	48	83	F	P	F	F	VP	F	F	F	F		
CDC Kendall ◊	99	100	99	96	2	R	-2	52	45	79	F	P	P	P	VP	G	F	F	F		
Newdale ◊	104	102	103	104	2	R	0	52	47	74	F	VP	G	G	P	G	F	F	F		
Lacey ◊†	102	102	105	98	6	SS	-1	50	41	79	G	F	G	G	VP	F	VP	VP	VP		
LEGACY ◊	100	100	98	98	6	SS	-2	49	40	84	G	F	G	G	VP	G	VP	VP	P		
Tradition ◊	97	101	97	98	6	SS	-2	49	41	85	G	VP	G	G	VP	F	VP	VP	VP		
	MALTING VARIETIES UNDER TEST																				
CDC Select ◊	98	99	99	99	2	R	0	50	45	75	F	G	G	G	VP	G	P	P	P		
CDC Battleford ◊ †	101	103	101	102	6	S	-1	49	41	85	G	P	G	G	P	VG	P	P	VP		
CDC Clyde ◊	104	99	100	102	6	SS	-2	49	40	80	G	F	VG	G	P	G	F	F	VP		
	OTHER MALTING VARIETIES																				
Harrington	98	96	93	91	2	R	-1	50	45	78	F	P	P	F	VP	P	VP	VP	G		
*Excel †	102	100	99	XX	6	R	0	50	40	75	G	P	F	G	VP	F	VP	VP	VP		
Formosa	XX	95	94	98	2	R	-1	53	48	79	XX	XX	XX	XX	VP	F	VP	VP	XX		

REMARKS: Yield by Test Category is described as the % of the test mean in bu/ac categories under low, medium, high and very high conditions. Varieties designated with a * have limited or no data compared with AC Metcalfe as the check variety. As a result, the area yields for 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.

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 2009.

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:

2 Row - Bentley, CDC Meredith, CDC Reserve, CDC Landis, CDC PolStar, Norman, Merit 16, Merit 57

6 Row - CDC Mayfair, CDC Laurence, CDC Kamsack

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

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									
MILLING										
7600M ▲	XX	103	92	98	92	1	42	43	F	VG
AC Juniper ◊	98	114	101	101	98	-1	41	38	VG	F
AC Morgan	107	122	114	103	107	2	40	41	VG	P
Calibre	XX	XX	XX	100*	100	1	43	39	F	P
CDC Boyer	97	110	99	98	97	1	39	42	G	VP
CDC Dancer ◊	83*	105	106	97	97	-1	41	36	G	VG
CDC Minstrel	XX	XX	XX	105	101	4	39	38	XX	VG
CDC ProFi	XX	XX	XX	90	93	3	38	41	XX	P
CDC Orrin ◊	XX	110*	116	108	105	2	41	41	G	VG
CDC Weaver ◊	XX	XX	114	109	96	2	41	44	F	VG
Derby	102	100	94	96	96	2	41	39	G	P
Furlong ◊	XX	98*	100	101	90	1	40	47	G	VG
Jordan ◊	XX	127	105	116	111	5	38	44	XX	VG
Kaufmann	79*	XX	85	85	92	5	40	44	G	VG
Leggett ◊	XX	110*	95	101	89	2	41	39	G	VG
Ronald ◊	89*	99	94	93	94	2	41	37	VG	VG
SW Betania ◊	XX	XX	110	103	98	1	40	39	G	VG
Triactor ▲	XX	XX	XX	109	116	3	38	39	XX	XX
FEED										
Cascade	100	100	100	100	100	0	39	37	G	VP
AC Mustang	109	111	109	112	108	1	42	38	G	F
Lu	XX	XX	103	108	95	-3	41	40	G	VG
Waldern	XX	XX	XX	109*	109	1	40	48	G	VP
FORAGE										
CDC Baler	XX	87*	103	101	97	4	40	43	XX	VP
Murphy ◊	XX	90	90	97	96	4	39	36	XX	VP

REMARKS: Yield for hulless varieties are expressed on "as harvested" basis. Hull removal reduces weight of hulless oats by 5-10% and of completely hulled oats by 20-25%. Use higher seeding rate for large seeded varieties. AC Assiniboia and AC Rebel have tan hulls. OT576 insufficient data to describe.

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

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 ▲	97	94	96	91	1	42	43	F	VG
AC Juniper ☉	105	103	106	107	-1	41	38	VG	F
AC Morgan	111	112	112	114	2	40	41	VG	P
Calibre	XX	107	103	110	1	43	39	F	P
CDC Boyer	103	102	102	102	1	39	42	G	VP
CDC Dancer ☉	100	99	99	102	-1	41	36	G	VG
CDC Minstrel	98	101	99	104	4	39	38	XX	VG
CDC ProFi	99	98	89	887	3	38	41	XX	P
CDC Orrin ☉	112	109	107	101	2	41	41	G	VG
CDC Weaver ☉	106	107	103	XX	2	41	44	F	VG
Derby	100	103	99	102	2	41	39	G	P
Furlong ☉	98	97	96	XX	1	40	47	G	VG
Jordan ☉	109	108	111	110	5	38	44	XX	VG
Kaufmann	95	99	97	93	5	40	44	G	VG
Leggett ☉	95	95	96	XX	2	41	39	G	VG
Ronald ☉	97	94	99	101	2	41	37	VG	VG
SW Betania ☉	104	104	99	99	1	40	39	G	VG
Triactor ▲	111	114	108	112	3	38	39	XX	XX
FEED									
Cascade	102	103	103	101	0	39	37	G	VP
AC Mustang	120	113	112	115	1	42	38	G	F
Lu	102	100	101	107	-3	41	40	G	VG
Waldern	XX	108	112	118	1	40	48	G	VP
FORAGE									
CDC Baler	92	109	101	94	4	40	43	XX	VP
Murphy ☉	92	95	97	92	4	39	36	XX	VP

REMARKS: 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 2009.
- 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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Viterra

Prairie Canola variety trial (PCVT)

Background

The Prairie Canola Variety Testing (PCVT) program entered its sixth year in 2008. 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

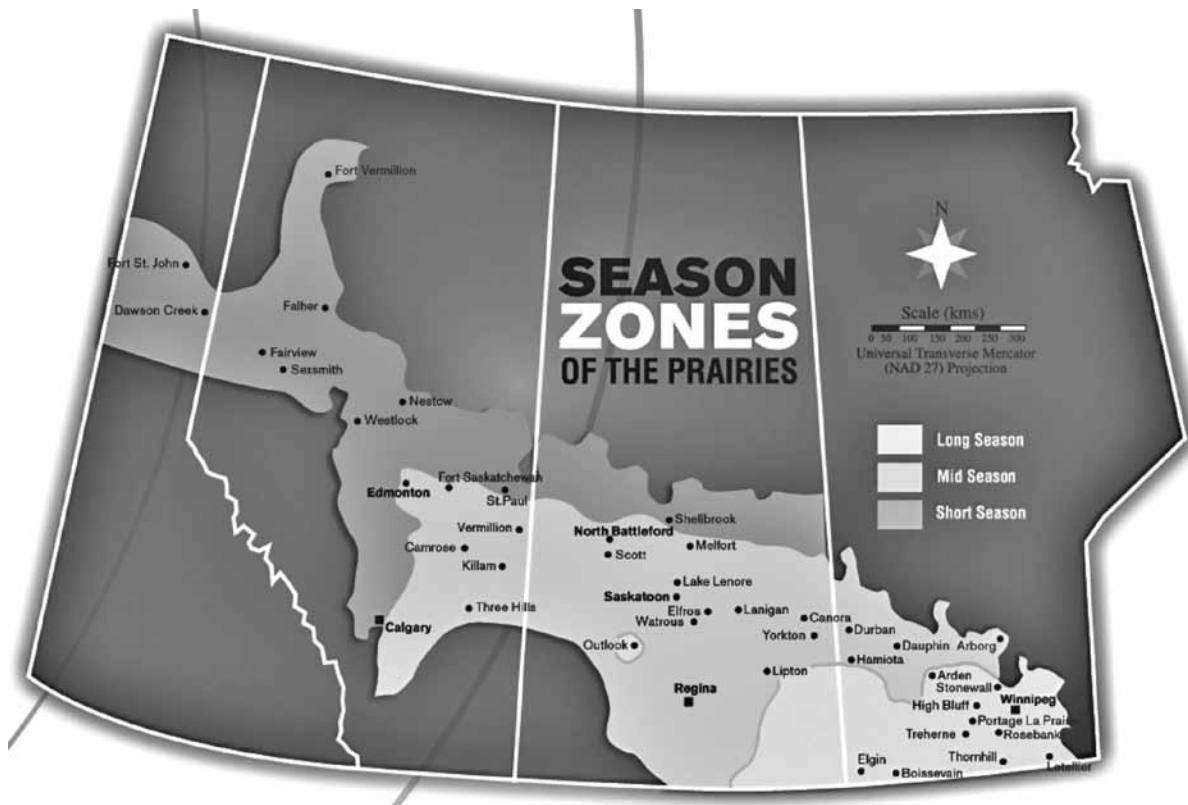
Canola Council of Canada website. Do not limit your search to the areas closest to you. Comparing local results to other locations with similar growing conditions can also be valuable.

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



2008 PCVT locations

substantial grade reductions. The control of herbicide-tolerant canola volunteers requires good agronomic practices such as proper crop and herbicide rotation.

Polish canola (*Brassica rapa*)

Polish varieties mature approximately two weeks earlier than Argentine varieties and are therefore less likely to produce green seed. Polish varieties are more heat and drought tolerant than Argentine varieties. They are also more shatter resistant than Argentine varieties and are therefore well suited to straight combining.

Polish canola varieties have not been tested in the PCVT since 2005.

ACSunbeam is available through SeCan members. ACS-C7 is available through the Seidle Seed Farm or authorized seed dealers. ACS-C7 is a synthetic variety with fair resistance to blackleg. AC Sunbeam is an open-pollinated variety. SW SPIRITRIVER is an open-pollinated variety available through Peace Pedigreed Seed.

***Brassica juncea* canola**

Brassica juncea canola is a new class of canola that is especially well adapted to areas where hot, dry conditions are often encountered. It has very good resistance to blackleg and exhibits better heat and drought tolerance than other canola species. Juncea canola has shattering resistance similar to Polish canola and is therefore well suited to straight-cut combining. All production is contracted.

The first commercial variety, Arid, yielded approximately 112% of AC Excel in the zone of adaptation. Two new varieties, XCEED™ 8570 and XCEED 8571, will be available from Viterra in limited quantities for 2009. These varieties yield about 119 and 116% of Arid respectively. They are the first juncea canola varieties designed with the CLEARFIELD® production system. Pioneer Hi-Bred launched 45J10, the first juncea hybrid, in 2008, and it is available for sale through Pioneer sales reps. In registration trials, 45J10 yielded 119% of Arid.

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.

2008 PRAIRIE CANOLA VARIETY TRIAL (PCVT)

ARGENTINE Checks	Type	2006 Yield		2008 Yield % of 45H21, 5020				Maturity				Height		Lodging		Blackleg Rating	Organization	
		% 46A65 All Zones	2007 Yield % 45H21, 5020 All Zones	Short (6)	Zones (station years)			Low	Mid	Long	+/- days to 45H21, 5020			+/- Inches	Rating + = Better			
					Mid (14)	Long (7)	Average				All Zones	98 days	97 days					98 days
45H21, 5020	Hyb		100	100	100	100	100	100	100	100	2	1	1	1	0	0		
Conventional																		
46A65	OP	100	83	82	83	73	80	80	80	2	1	1	1	-2	0	0	R	Pioneer Hi-Bred
CLEARFIELD																		
5505 CL	Hyb			92	93	89	91	91	91	3	2	2	2	3	0	0	MR	Brett-Young Seeds
71-30 CL	Hyb			98	94	93	95	95	95	-1	0	0	0	1	0	0	R	DEKALB
45H73	Hyb	123		97	100	98	99	99	99	1	1	2	1	1	0	0	R	Pioneer Hi-Bred
45P70	Hyb	121		97	99	97	98	98	98	1	1	0	1	1	0	0	R	Viterra
LIBERTY tolerant																		
5020	Hyb	127		106	105	107	105	105	105	-1	0	-1	0	0	0	0	R	Bayer CropScience
1143 **	Hyb			98	98	101	99	99	99	2	1	0	1	0	0	0	R	Bayer CropScience
1144 **	Hyb			107	103	108	105	105	105	0	1	0	1	0	0	0	MR	Bayer CropScience
5030	Hyb	129		105	106	114	108	108	108	-1	0	0	0	5	1	0	R	Bayer CropScience
5440	Hyb			109	108	115	110	110	110	1	2	1	1	4	1	1	R	Bayer CropScience
8440	Hyb			108	106	113	108	108	108	1	1	0	1	0	1	1	R	Bayer CropScience
9590	Hyb	127		100	106	112	106	106	106	-2	0	0	0	1	0	0	R	Bayer CropScience
ROUNDUP tolerant																		
45H21	Hyb	120		94	95	93	95	95	95	1	0	1	0	0	0	0	R	Pioneer Hi-Bred
4414 RR	Hyb			90	90	84	88	88	88	1	1	1	1	2	0	0	R	Brett-Young Seeds
4424 RR	Hyb			92	96	83	92	92	92	3	2	1	2	4	0	0	MR	Brett-Young Seeds
4434 RR	Hyb			88	90	85	88	88	88	3	2	1	2	2	0	0	MR	Brett-Young Seeds
997RR	OP			89	88	84	87	87	87	2	1	1	1	1	0	0	R	Brett-Young Seeds
v1037 **	Hyb			92	97	90	94	94	94	0	0	0	0	2	0	0	R	Cargill
v2018 **	Hyb				95	92	94	94	94		2	2	2	1	0	0	MR	Cargill
v2030 **	Hyb				97	88	94	94	94	1	1	1	1	2	0	0	MR	Cargill
83S01 RR	Syn				86	85	85	85	85	0	-1	0	0	2	0	0	MR	FP Genetics
93H01 RR	Hyb				95	88	93	93	93	1	1	1	1	2	0	0	MR	FP Genetics
71-45 RR	Hyb	120		98	95	99	97	97	97	-1	-1	-1	-1	0	0	0	MR	DEKALB
43E01	Hyb			90			90	90	90	-3			-3	-4	-1	MR	Pioneer Hi-Bred	
43H57	Hyb			84			84	84	84	-3			-3	-1	0	MR	Pioneer Hi-Bred	
45H26	Hyb	126		99	99	98	99	99	99	1	1	0	0	1	0	R	Pioneer Hi-Bred	
45H28	Hyb			98	102	98	100	100	100	2	2	2	2	3	0	0	R	Pioneer Hi-Bred
D3150	Hyb			95	97	96	96	96	96	2	2	1	1	2	0	0	MR	DuPont

2008 PRAIRIE CANOLA VARIETY TRIAL (PCVT) (continued)

ARGENTINE Checks	Type	2005 Yield		2006 Yield		2008 Yield % of 45H21, 5020			Maturity			Height		Lodging				
		% 45H21		% 45H21		Zones (station years)			+/- days to 45H21, 5020			+/-						
		All Zones	All Zones	All Zones	All Zones	Short (6)	Mid (14)	Long (7)	Average	Low	Mid	Long	All Zones		Inches	Better	Rating	Organization
ROUNDUP tolerant (continued)																		
D3151	Hyb					94	96	93	95	1	0	0	0	0	0	0	MR	DuPont
Café	OP	98		76		83	82		82	-3	-3	-3	-3	-3	0	0	R	SeCan
Rugby	OP			89		88	89	79	86	1	1	0	1	-1	0	0	R	SeCan
9553	Hyb					100	98	94	97	1	0	-1	0	1	0	0	R	Viterra
9554	Hyb					96	100	102	99	1	1	0	1	2	0	0	MR	Viterra
46P50	Hyb	125		103		95	99	93	96	5	3	3	3	3	0	0	R	Viterra
LSD (0.05) as % of check yield																		
						11	13	12										

** Specialty oil.

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

See page 19 for symbols used.