

Alberta Environmental Protection

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Agdex 100/32

Varieties of Cereal and Oilseed Crops for Alberta – 2002

Explanatory

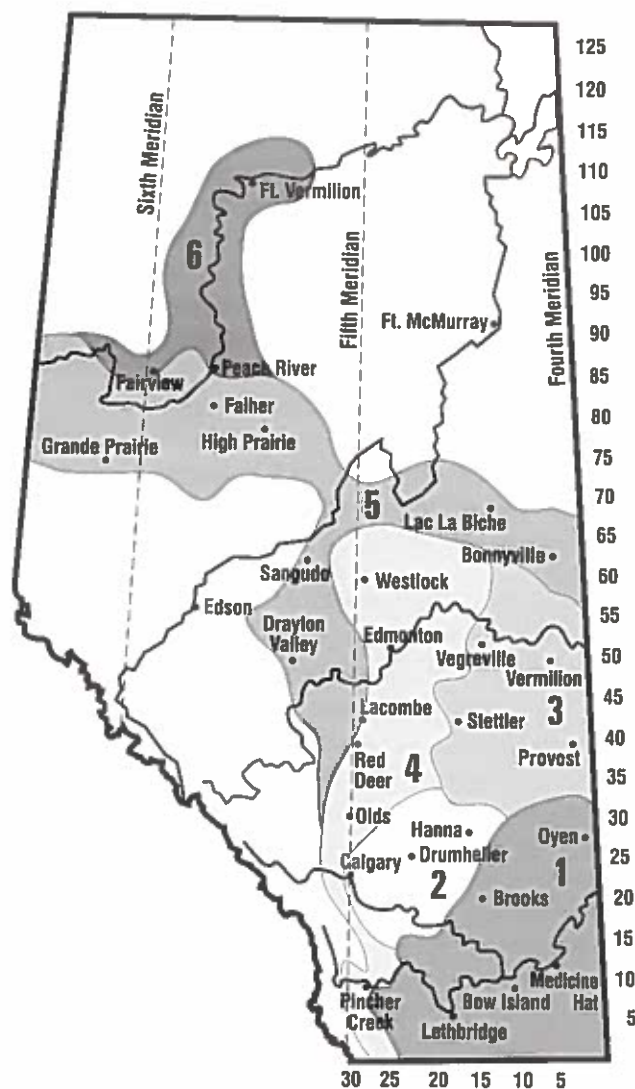
The information used in this publication is supplied by the University of Alberta, Agriculture and Agri-Food Canada, Canadian Seed Growers Association, cereal and oilseed commodity groups, applied research associations, the Canadian Seed Trade Association and Alberta Agriculture, Food and Rural Development.

This publication provides information on individual varieties and indicates cereal and oilseed production areas within the province. Important agronomic characteristics are given in tabular form for varieties of wheat, oats, barley, flax, canola, triticale and rye.

The production areas, based primarily upon precipitation and length of growing season, are indicated on the map. With this information, farmers can choose varieties that may be best suited to their own particular farming programs. The varieties are tested under medium management conditions and may change their response if grown under very high or very low management.

Plant Breeder's Rights

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



Yields

The tables show relative yields for six production areas. Although every effort is made to ensure accuracy, small percentage differences in yield are usually meaningless. In Area 1, irrigated yields expressed as a per cent of dryland yields are C.W. wheat 185, barley 160, oats 180, flax 210, canola 125. In Area 2, irrigated yields expressed as a per cent of dryland yields are C.W. wheat 130, barley 125, oats 120, flax 145, canola 120. For further information on irrigated on variety response, see *Irrigated Crop Recommendations for Alberta*, Agdex 100/32-1.

Maturity

The relative classifications refer specifically to the crop being considered. For example, an early-maturing wheat variety could require more days to reach maturity than a late-maturing variety of barley.

In Areas 2, 3, and 5 of Alberta, the following information can be used as a guide for estimating maturity in actual days from seeding to harvest when the crops are seeded on fallow land:

- Katepwa wheat - 111 days
- AC Splendor wheat - 106 days
- Grizzly oat - 108 days
- Jasper oat - 105 days
- Harrington barley - 98 days
- Kasota barley - 93 days
- McGregor flax - 130 days
- Flanders flax - 120 days
- Legacy canola - 105 days
- Reward canola - 90 days

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 provincial zones.

In Area 6, the longer daylight hours usually reduce the number of days to maturity required. Area 4 has the longest requirement in the province for days to maturity with Harrington 101, Katepwa 113 and Legacy 108. In southern Alberta, Katepwa can be expected to mature in 100 to 105 days, and other crops are similarly earlier maturing. Comparisons among varieties within crops, however, tend to remain fairly uniform regardless of where the crops are grown.

Diseases, seed treatment, and seed testing

- Treat rye and flax seed to control seedling blight. Treat cereal seed to control smuts, 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 be sold for feed. Refer to the product label for the maximum period for storing treated seed.
- The Leaf Spot rating column given 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, barley, 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.

Laboratories participating in the FHB testing program:

- Agricore United, Camrose, AB,
call 1-800-463-2045
- 20/20 Seed Labs Ltd., Nisku, AB,
call 1-877-420-2099
- BioVision Seed Research Ltd., Edmonton, AB,
call 1-800-952-5407
- Parkland Laboratories, Red Deer, AB
call 1-403-342-0404
- Precision Seed Testing, Beaverlodge, AB
call 1-780-354-2259

Other Variety Information

For additional variety information, check our website at www.agric.gov.ab.ca. A change from previous years, Alberta Variety Select for Windows (AVSwin) will not be available from the Agronomy Unit, Alberta Agriculture. The information in AVSwin will be placed on the Alberta Agriculture website in the near future. This location will allow for constant updating, thereby providing the latest information.

WHEAT

Variety	Irr.	Area(See Map)					Comp.		Te. Wt.	Kn. Wt.	Ht. Cm	Resistance to:						Tolerance		
		1	2	3	4	5&6	Mat.	Prot.				Ldg.	Shat.	Loose Smut	Bunt	Com. Rt.Rot	Leaf Spot	Sprout	FHB	
Yield as % of KATEPWA							ELIGIBLE FOR C.W. RED SPRING WHEAT GRADES													
Katepwa	100	100	100	100	100	100	106	14.1	61	33	95	F	G	R	R	I	P	F	F	
5600HR ▲	95	97	100	101	106	107	2	-0.2	62	36	99	G	G	R	R	I	P	G	P	
AC Abbey ◊	107	102	104	97	107	102	-2	-0.6	61	35	86	F	G	I	R	I	P	P	F	
AC Barrie ◊	104	102	104	109	101	101	3	0.6	62	37	92	G	G	R	R	I	P	G	F	
AC Cadillac ◊	90	100	100	104	99	95	0	0.8	63	39	97	F	G	R	R	I	F	F	F	
AC Cora	98	100	103	105	102	103	1	0.3	61	35	97	F	G	R	R	I	G	F	F	
AC Eatonia	89	94	98	98	93	94	3	0.5	61	34	93	P	G	I	R	I	P	G	XX	
AC Elsa ◊	98	103	110	106	104	106	2	0.3	61	34	90	F	G	R	I	I	G	F	P	
AC Intrepid ◊	101	101	106	101	107	104	-3	0.1	61	39	93	G	G	I	R	I	F	P	P	
AC Majestic	89	97	101	101	101	104	3	0.3	62	35	93	G	F	I	R	I	P	EX	F	
AC Michael †	99	98	98	102	99	100	1	0.0	61	33	96	F	G	R	R	I	XX	F	P	
AC Splendor	95	94	95	98	100	95	-2	1.0	61	37	92	F	G	I	I	I	F	F	P	
AC Superb ▲	119*	113*	116*	108*	121*	111*	+4	-0.4	62	41	88	G	G	I	R	I	P	G	F	
Alikat	96	93	94	98	98	97	-1	0.5	62	35	92	F	G	R	R	I	XX	F	F	
CDC Bounty	113	104	105	106	108	100	-1	-0.1	62	37	95	F	G	R	R	I	P	F	F	
CDC Teal	104	105	105	100	102	102	0	0.4	61	34	91	G	G	I	I	I	P	P	VP	
Laura †	99	103	102	102	102	104	3	0.0	60	33	94	G	G	I	S	I	P	F	P	
McKenzie	114	105	106	107	104	102	-1	-0.4	62	33	91	F	G	S	R	I	F	EX	F	
Prodigy	101	105	104	109	107	105	2	0.9	62	35	96	G	G	I	R	I	P	F	VP	
Park	NS	NS	99	95	99	95	-3	XX	61	32	90	F	G	R	I	I	XX	G	XX	
Roblin	100	93	97	96	97	96	-3	0.7	61	35	89	G	G	R	S	I	VP	F	VP	

REMARKS: AC ABBEY and AC EATONIA - 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. MCKENZIE may be identified by a purplish stem. AC SUPERB, ALIKAT - limited seed supply in 2002. AC IVORY AND AC SNOWBIRD are C.W. Hard White Spring Wheats. 5500HR, AC IVORY, AC SNOWBIRD, BW243, BW259, PT551 - insufficient data to describe, no seed available in 2002.

Variety	Irr.	Yield as % of AC TABER					Comp.		Te. Wt.	Kn. Wt.	Ht. Cm	Resistance to:						Tolerance			
		1	2	3	4	5&6	Mat.	Prot.				Ldg.	Shat.	Loose Smut	Bunt	Com. Rt.Rot	Leaf Spot	Sprout	FHB		
Yield as % of AC TABER							ELIGIBLE FOR CANADA PRAIRIE SPRING WHEAT GRADES														
														RED SEEDED							
AC Taber	100	100	100	100	100	100	112	61	41	81	G	G	S	R	I	F	P	VP			
5700PR ▲	103	99	97	101	105	102	0	63	42	80	EX	G	S	R	I	P	P	VP			
AC Crystal ◊	101	95	99	101	102	98	-1	61	42	80	G	G	I	R	S	F	P	VP			
AC Foremost †	98	96	94	95	104	98	-3	61	42	74	EX	G	R	R	I	P	F	VP			
Cutler	82	85	88	78	92	86	-10	61	39	78	G	G	S	S	I	P	F	VP			
														WHITE SEEDED							
AC2000 ▲	96	96	97	103	94	96	0	60	40	81	EX	G	I	R	I	P	F	P			
AC Karma ◊ †	99	96	97	100	105	98	-1	61	39	83	G	G	I	R	I	P	P	VP			
AC Vista ◊	95	95	96	99	96	99	-2	60	43	85	G	G	I	R	I	P	P	P			

REMARKS: Varieties having a rating of Susceptible (S) or Intermediate (I) to loose smut or bunt - require a systemic fungicide seed treatment. CUTLER - less drought tolerant than other CPS wheats. CPS wheats are more susceptible to take-all root rot than other wheats. AC2000 and AC VISTA have superior sprouting resistance to other white seeded CPS wheats. AC TABER yields about 20% higher than KATEPWA.

See page 12 for symbols used.

W H E A T

Variety FHB	Irr. 1&2	Area(See Map)					Comp.		Te. Wt.	Kn. Wt.	Ht. Cm	Resistance to:				Com. Rt.Rot	Leaf Spot	Tolerance Sprout
		1	2	3	4	5&6	Mat.	Prot.				Loose						
												Ldg.	Shat.	Smut	Bunt			
Yield as % of AMAZON																		
Amazon ▲	100	100	100	100	100	100	110	62	45	99	G	G	R	I	I	F	P	P
AC Corinne	93	98	100	99	101	104	1	61	45	96	G	G	R	I	I	P	G	P
AC Glenavon ▲	105	98	102	105	102	104	0	62	46	96	G	G	R	I	I	P	XX	P
Bluesky	97	95	98	95	102	103	-2	61	45	97	F	G	R	I	R	P	P	P
Glenlea	99	97	103	94	104	105	0	62	44	100	G	G	R	I	R	P	G	P
Laser	105	94	97	94	99	99	-2	61	40	90	EX	G	R	I	I	P	F	P

REMARKS: BLUESKY and LASER are comparable in maturity to KATEPWA. AC CORINNE, AC GLENAVON, AMAZON, and GLENLEA - should only be grown in Areas 1, 2 and 3 due to late maturity. AMAZON yields approximately 10% more than KATEPWA.

Variety	Yield as % of KYLE						ELIGIBLE FOR C.W. AMBER DURUM WHEAT GRADES											
	100	100	100	100	NS	NS	108	62	43	100	P	G	S	R	I	P	F	VP
Kyle	100	100	100	100	NS	NS	108	62	43	100	P	G	S	R	I	P	F	VP
AC Avonlea ◊	109	102	100	99	NS	NS	0	62	44	89	F	G	S	R	I	P	F	VP
AC Melita	108	98	88	97	NS	NS	2	62	45	98	F	G	S	R	I	VP	F	VP
AC Morse ▲	109	96	97	98	NS	NS	2	62	44	82	G	G	S	R	I	VP	F	VP
AC Napoleon ▲	105*	96*	98*	101*	NS	NS	0	62	45	86	F	G	S	R	I	P	XX	VP
AC Navigator ◊	109	105	99	106	NS	NS	0	63	45	75	G	G	S	R	I	VP	F	VP
Plenty	108	105	106	113	NS	NS	-1	62	43	100	F	G	S	R	I	F	F	VP
Sceptre	105	100	101	97	NS	NS	0	62	42	87	G	G	S	R	I	P	P	VP

REMARKS: Durum wheats should only be grown in Areas 1 and 2 and the southeastern portion of Area 3 due to late maturity. Outside these areas, durumms are extremely late maturing and subject to quality loss. KYLE - yields about 12% higher than KATEPWA in areas of best adaptation. SCEPTRE - lowest incidence of kernel smudge. AC NAVIGATOR - grown under contract, stronger gluten. AC NAPOLEON - no seed available 2002.

Variety	Yield as % of AC REED						ELIGIBLE FOR C.W. SOFT WHITE SPRING WHEAT GRADES											
	100	NS	NS	NS	NS	NS	106	62	35	77	EX	G	S	S	S	XX	F	XX
AC Reed	100	NS	NS	NS	NS	NS	106	62	35	77	EX	G	S	S	S	XX	F	XX
AC Nanda	99	NS	NS	NS	NS	NS	3	63	34	84	EX	G	S	R	S	XX	F	XX
AC Phil	102	NS	NS	NS	NS	NS	0	62	35	77	EX	G	S	S	S	XX	F	XX

REMARKS: Current S.W.S.W. varieties are semi-dwarf and require a systemic fungicide seed treatment. AC NANDA, AC PHIL and AC REED - are resistant to stripe rust. AC NANDA and AC PHIL - have improved resistance to black point. AC MEENA and AC ANDREW - insufficient data to describe, no seed available in 2002. AC REED - yields about 20% higher than KATEPWA under irrigation.

See page 12 for symbols used.

WINTER WHEAT

Variety	Area(See Map)				Prov.	Comp		Height Te. (cm)	Kn. Wt.	Winter Hardness	Lodging	Shattering	Piebald	Bunt	FHB	Resistance to:
	1&2	1	2	3		4	5&6									
Yield as % of CDC KESTREL																
CANADIAN WHEAT BOARD PREFERRED QUALITY VARIETIES																
AC Bellatrix	95*	105	99	XX	101	XX	1	1.4	85	64	38	G	G	VG	R	XX
AC Readymade	87	98	85	NS	NS	XX	4	2.8	89	64	37	P	VG	F	VG	XX
AC Tempest	92	94	93	NS	NS	XX	4	2.9	86	64	37	P	VG	G	VG	XX
CDC Osprey	93	100	89	XX	99	XX	-1	1.1	88	63	32	G	G	F	S	VP
Norstar 1	93	91	98	XX	87	XX	2	0.8	106	64	34	VG	P	G	S	XX
OTHER VARIETIES																
CDC Kestrel	100	100	100	100	100	100	220	11.2	92	63	33	G	F	G	S	VP
CDC Clair	93	100	98	XX	104	XX	0	0.7	87	63	34	G	F	G	S	VP
CDC Falcon	XX	96	95*	XX	100	XX	-3	1.1	73	63	32	G	VG	F	S	VP
CDC Harrier	XX	102	02*	XX	102	XX	0	-0.1	93	62	32	G	G	F	S	VP
CDC Raptor	XX	99*	XX	XX	99	XX	-1	XX	80	63	32	G	VG	G	S	VP
SOFT WHITE WINTER WHEAT																
CDC Ptarmigan	XX	112*	XX	XX	114	XX	112	0	XX	90	61	33	F	F	S	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. Pedigreed seed is required to participate in the CWB Preferred Quality program. The average maturity date for CDC KESTREL is August 8 (220 days after January 1). Winter wheat varieties that are not resistant to common bunt should be treated with a systemic seed treatment. Winter wheat is susceptible to Fusarium head blight but will normally escape infection if seeded before September 15. Winter wheat grown in Areas 1 & 2 should be inspected for infestation by Russian wheat aphid, as it may reduce winter survival. CDC PTARMIGAN is a soft white winter wheat under interim registration and is undergoing test market evaluation.

SPRING TRITICALE

Variety	Area(See Map)				Comp Mat	Te. WL	Kn. Wt.	Ht. (cm)	Resistance to:			FHB		
	1&2	1	2	3					Loose Smut	Bunt	Com. RL Rot		Sprout Toler.	
Pronghorn	100	100	100	100	100	112	55	42	105	G	R	I	F	
AC Alta	107	99	101	100	92	97	2	54	48	95	G	R	I	F
AC Certa	97	97	93	95	92	94	1	58	42	108	G	R	R	F
AC Copia	102	100	98	98	85	91	1	57	45	104	G	R	I	F
AC Ultima	108	100	99	117	109	106	0	57	45	105	G	R	I	F
Sandro	105	99	94	102	97	104	1	58	41	101	G	R	R	F

REMARKS: All varieties are late maturing compared to CWRS wheats (approximately 10 days) and should not be grown for grain production in Areas 5 and 6. PRONGHORN and AC ULTIMA are earlier maturing than other spring triticale varieties. PRONGHORN - yields about 30 % greater than KATEPWA in areas of adaptation. Large seeded varieties should have an increased seeding rate.

See page 12 for symbols used.

BARLEY

Yield as % of HARRINGTON

Resistance to:

Variety	Irr. 1&2	Area(See Map)				No. of Row	Awn Type	Comp Mat	Te. WL	Kn. WL	Hl. cm	Ldg.	Loose Smut	Fl& Cov. Smut	Com. Rt. Rot	Scald	Net Blt.	Toler. FHB
		1	2	3	4													
Bridge †	109	105	106	105	109	100	R	2	53	47	75	G	S	I	I	S	S	P
CDC Dolly	106	102	107	115	110	107	R	1	53	47	78	F	S	R	I	I	S	F
CDC Fleet	99	87	94	96	99	90	R	-2	53	44	84	G	S	S	S	I	I	F
CDC Helgason ▲	101*	99*	102*	119*	112*	118*	R	0	53	43	81	G	R	R	I	S	I	P
Seabe	94	97	101	109	107	108	R	4	52	47	87	G	S	R	S	R	S	F
Xena ▲	118	107	115	132	119	118	R	2	53	46	81	G	S	S	R	S	I	F
AC Harper ◊	112	104	103	120	118	111	S	0	48	39	83	G	S	I	I	I	I	VP
AC Lacombe ◊	115	107	115	121	123	113	S	0	48	41	85	G	S	R	S	I	I	VP
AC Rosser ◊	117	114	109	123	121	117	S	1	49	40	85	F	S	R	I	S	I	VP
Bifer †	118	108	117	122	125	111	S	0	48	39	83	F	S	R	S	I	I	P
Trochu ▲	114*	106*	111*	135*	120*	121*	S	2	50	39	82	G	S	R	R	I	I	VP
Stander ◊ †	109	110	105	114	120	105	S	1	51	40	84	G	S	I	I	S	S	P

ELIGIBLE FOR GENERAL PURPOSE GRADES ONLY

SEMI-DWARF

CDC Bold	112	107	105	123	114	120	R	1	53	46	77	G	S	R	I	I	I	P
CDC Thompson	102	92	93	103	100	94	R	0	52	45	63	G	S	R	I	I	I	F
CDC Earl	114	102	115	111	118	105	R	0	47	36	72	EX	S	R	I	S	I	VP
Kasota ◊	111	102	109	115	116	108	R	-4	50	35	73	EX	S	R	I	R	I	VP
Mahigan ◊	114	102	107	119	118	108	S	-3	50	34	76	EX	S	R	I	R	I	VP
Niska ▲	108	102	108	130	113	115	S	1	50	37	75	G	S	R	R	I	I	VP
Vivar ▲	121*	104*	111*	142*	124*	128*	R	2	0	42	77	G	I	R	R	I	I	VP

HULLLESS

CDC Dawn	95	95	96	97	93	91	R	2	58	37	84	P	S	S	I	S	I	F
CDC Freedom	85	85	88	92	96	83	R	0	60	41	89	F	S	R	I	S	I	F
CDC Galner	85	90	84	92	96	83	R	0	61	39	96	F	S	I	S	I	I	P
CDC McGwire ◊	98	94	102	112	104	95	R	1	62	38	84	F	S	R	R	I	I	F
Phoenix ◊ †	93	87	87	88	86	85	R	-1	58	36	83	F	S	I	S	I	S	F
Tercel ◊	87	86	90	96	97	89	R	0	59	42	86	P	S	I	S	S	S	F
AC Bacon ▲	94	90	95	114	109	93	S	1	57	38	86	F	S	R	I	I	S	P
Falcon ◊	86	75	90	92	94	82	S	-1	58	34	69	EX	S	R	I	I	I	VP
Jaeger ◊	94	89	98	101	105	93	R	2	58	32	75	EX	S	S	I	S	S	VP
Peregrine ▲	86	75	84	91	91	76	R	-2	59	32	68	EX	S	I	I	I	I	VP

See page 12 for symbols used.

BARLEY

Yield as % of HARRINGTON

Resistance to:

Variety	Irr.	Area(See Map)				No. of Row	Awn Type	Comp Mat	Te. Wt.	Kn. Wt.	Ht. cm	Ldg.	Loose Smut			Fl& Cov. Smut			Net Blt.	Toler. FHB
		1	2	3	4								54.6	Rot	Scald	Rot	Com.			
ELIGIBLE FOR MALTING GRADES																				
Harrington	100	100	100	100	100	2	R	97	51	42	77	F	S	S	S	I	S	S	F	
AC Bournifful	103	102	104	118	114	2	R	1	52	46	85	G	R	R	I	S	S	I	F	
AC Metcalfe ◊	103	99	102	111	108	2	R	1	52	44	83	F	R	R	I	S	S	I	F	
CDC Copeland ▲	112	99	108	121	115	2	R	1	52	45	86	F	S	R	I	S	S	I	F	
CDC Kendall ◊	102	97	98	105	105	2	R	-1	53	43	81	F	S	S	I	S	S	I	F	
CDC Stratus	108	99	100	108	107	2	R	0	52	45	78	G	I	I	I	S	S	I	F	
Merit ◊	112	103	111	120	114	2	R	4	51	42	81	F	S	R	I	S	S	I	P	
Stein †	102	102	101	105	107	2	R	1	52	44	73	F	S	I	S	S	S	S	XX	
B1602	108	97	104	104	110	6	R	-1	50	37	86	G	S	I	R	S	S	S	P	
CDC Sisler ◊	105	103	102	110	110	6	S	-1	50	35	97	P	S	S	I	S	S	S	P	
CDC Yorkton ▲	112	106	109	115	116	6	S	1	50	38	86	F	S	R	R	S	S	I	P	
Excel	111*	94*	106*	126*	113*	6	S	0	50	38	81	G	S	R	I	S	S	I	P	

REMARKS: Only systemic seed treatment will control loose smut. Alberta now has races of the scald pathogen that are capable of attacking several of the varieties previously rated as resistant. Varieties with excellent straw strength respond to high levels of fertilizer with less lodging than other varieties. Numerical values for yield, maturity, test weight, kernel weight and height are strongly influenced by environmental conditions such as rainfall, soil fertility and temperature. The maturities are stated in days plus or minus the difference from HARRINGTON. Shattering is also strongly influenced by environmental conditions, but generally two-rowed cultivars have good resistance, six-rowed cultivars have fair resistance. AC RANGER and WESTFORD are forage varieties. AC RANGER, CDC McGWIRE, CDC SPEEDY, NISKA, TROCHU, and VIVAR - seed supply limited in 2002. CDC BATTLEFORD, CDC TISDALE, HB 805, LEGACY, NEWDALE, TR 153, TR266, - insufficient data to describe, no seed available in 2002. CDC HELGASON - no seed available in 2002. AC RANGER, CDC SPEEDY, CONLON, ROBUST and WESTFORD - insufficient data to describe. For recommendations from the Malt Barley Industry Group, see enclosed table or visit <http://www.agric.gov.ab.ca/crops/barley/rmbv.html>

See page 12 for symbols used.

OATS

Variety	Irr. 1&2	Yield as % of CASCADE					Comp Mat	Te. Wt.	Kn. Wt.	Resistance to:		
		1	Area(See Map)		5&6	Ldg.				Shat.	Smut	
		2	3	4								
GRAIN FOR MILLING												
AC Antoine	XX	97*	112*	96*	86*	93*	-1	38	35	G	XX	I
AC Assiniboia ◊	XX	98	95	92	91	91	1	37	39	G	G	R
AC Juniper ◊	107	95	107	100	97	101	-1	39	35	VG	G	I
AC Medallion ◊	XX	102	103	98	97	95	3	38	36	F	XX	R
AC Morgan ▲	XX	109	118*	113	107	105	2	38	39	VG	XX	I
AC Pinnacle ▲	XX	110	116*	107	95	98	5	38	35	F	XX	R
AC Preakness ◊	99	106	105	94	98	101	3	38	36	F	G	R
AC Rebel ▲	XX	104	102	99	98	96	3	38	33	G	XX	R
AC Ronald ▲	XX	88*	96*	95*	80*	90*	3	39	35	VG	XX	R
Calibre	99	107	102	98	95	100	1	40	35	F	G	S
CDC Boyer	100	97	106	97	98	98	0	38	38	G	G	S
CDC Dancer ▲	XX	83*	106*	103*	88*	96*	-3	40	33	G	XX	R
CDC Pacer	XX	107	108	103	103	101	2	39	37	F	G	R
Derby	107	104	103	100	97	99	1	40	36	G	G	S
Jasper	107	96	98	95	94	95	-2	40	34	F	G	S
Triple Crown ◊	XX	108	107	99	103	99	3	38	35	G	XX	I
GRAIN FOR FEED												
Cascade	100	100	100	100	100	100	100	38	34	G	G	S
AC Mustang	113	112	109	109	111	111	1	40	35	G	G	I
Grizzly †	99	94	95	94	94	92	1	40	36	F	G	S
SW Exactor ▲	XX	108	120	104	97	102	2	38	35	VG	XX	I
Waldem	109	109	110	108	107	113	1	37	42	G	G	S
FORAGE												
AC Mustang	113	112	109	109	111	111	1	40	35	G	G	I
Foothill	91	97	86	93	89	91	1	38	30	F	G	S
HULLESS												
AC Belmont ◊	77	78	69	73	71	78	4	41	27	G	G	R
AC Gwen	XX	54*	78*	79*	64*	78*	5	48	33	VG	XX	R
Bullion	XX	70	75*	67	67	72	0	48	28	VG	XX	S

REMARKS: AC JUNIPER and JASPER - high protein. AC MUSTANG - dual purpose (forage/feed grain) oat, high hull content. AC MURPHY, CDC BAILER and CDC BELL - forage oat, insufficient data to describe. BOUDRIAS, CDC ORRIN, ELVY, KAUFMANN, OT 298 and OT 7001 - insufficient data to describe. AC ANTHONY, AC GWEN, AC PINNACLE, AC RONALD and SW EXACTOR - seed supply limited in 2002. CDC BOUDRIAS, BULLION, DANCER, and KAUFMANN - no seed available in 2002. 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.

FALL RYE

Variety	Irr. 1&2	Yield as % of PRIMA					Prov Mean	Comp Mat	Height (cm)	Te. Wt.	Kn. Wt.	Resistance to:		
		1	Area(See Map)		5&6	Stem Ldg						Shat	Smut	
		2	3	4										
Prima	XX	100	100	100	100	100	100	214	121	58	33	F	F	G
AC Remington	XX	128*	99	XX	93	XX	103	0	95	57	30	EX	VG	XX
AC Rifle	XX	118	98	XX	92	97	100	0	89	57	30	EX	VG	G
Dakota	XX	128*	113	XX	115	120*	117	3	114	56	34	F	XX	XX
Musketeer	XX	87	87	XX	95	98	91	2	123	56	33	G	F	G

REMARKS: AC RIFLE and AC REMINGTON are semi-dwarf varieties. The average maturity date for PRIMA is August 2 (214 days after January 1).

See page 12 for symbols used

OTHER CEREAL CROPS

SPRING RYE - GAZELLE - only available spring variety and has similar maturity to KATEPWA spring wheat.

WINTER TRITICALE - BOBCAT [▲] and PIKA - winter hardiness similar to the most winter hardy winter wheats with 10-15 % higher yield. BOBCAT - is the only beardless triticale available. Winter triticale is about three weeks earlier in maturity than spring triticale.

SPRING SPELTS - CDC BAVARIA is the only registered variety developed for production in Western Canada.

FLAX

Variety	Irr. 1&2	Yield as % of NORLIN					Overall Average	Comp Mat	Ht cm	Seed Size	Resistance to:	
		1	2	3	4	5&6					Ldg.	Rust
NorLin	100	100	100	100	100	100	100	114	58	M	G	R
AC Camduff ^{▲†}	117*	105	108	XX	102*	105	107	1	63	M	G	R
AC Lightning [▲]	XX	XX	XX	XX	XX	102*	102	1	58	M	G	R
CDC Arras	106*	111	102	XX	103*	93	102	1	61	L	F	R
CDC Bethune [◊]	113*	113	110	XX	120*	103	113	1	63	M	G	R
CDC Normandy	107	101	103	XX	104	102	103	0	61	M	F	R
CDC Valour [◊]	100*	98	94	XX	113*	92	98	-1	61	M	F	R
Flanders	101	116	114	113	98	107	110	1	59	S	G	R
McGregor	104	121	108	118	100	106	109	3	53	S	G	R
Taurus [◊]	XX	XX	103*	XX	XX	105	104	1	60	M	G	R
SOLIN												
Linola 1084 [◊]	100	115*	104	XX	XX	108	107	2	61	M	G	R
Linola 989 [◊]	104	106	101	XX	107	99	102	1	60	M	G	R

REMARKS: LINOLA 1084 and LINOLA 989 are edible oil flax varieties and are categorized as SOLIN varieties. SOLIN varieties are available only through identity preserved contracts. Flax is daylight sensitive and maturity will vary with the zone it is grown in.

CANOLA

Variety	Irr. 1&2	Area(See Map)					Overall Average	Comp Mat	Ht. cm	Straw Strength	Comp Oil(%) Content	Blackleg Tolerance (1-5)	White Rust Rating	Variety Type
		1	2	3	4	5&6								
Yield as % of REWARD														
REWARD	100	100	100	100	100	100	100	95	91	F	43.4	4	1	OP
41P55	108	99	106	122*	103	102	108	0	88	F	0.4	4	2	OP
Fairview [†]	01	104	99	112	109	109	108	0	100	F	0.3	4	3	SYN
Foothills [†]	98	92	98*	101	104	96	98	1	95	F	0.1	4	1	OP
Hysyn 110 [†]	107	103	103	116	108	105	108	0	104	F	-1.2	4	3	SYN
Hysyn 111	108	104	103	116	111	112	109	1	99	F	-1.6	4	1	SYN
Maverick [†]	102	93	96	101	99	101	99	0	101	F	0.3	4	1	OP
SW C3467	XX	XX	XX	XX	109	110*	109	1	100	F	0.4	4	1	OP
SW High Level	XX	98*	XX	116*	108	112	108	1	90	F	-0.5	4	1	OP
Valleyview [†]	102	97	94	117*	110	104	104	1	105	F	0.0	4	2	OP
Westwin	108	99	100	111	105	109	105	0	98	F	0.2	4	1	SYN

See page 12 for symbols used.

CANOLA

Variety	Irr. 1&2	Area(See Map)				5&6	Overall Average	Comp Mat	Ht. cm	Straw Strength	Comp Oil(%) Content	Blackleg Tolerance	Variety Type
		1	2	3	4								
Yield as % of LEGACY						ARGENTINE TYPE Brassica napus							
Legacy †	100	100	100	100	100	100	100	108	114	G	44.1	3	OP
44A89 ◊ †	102	100*	101*	XX	105	99	103	-2	103	VG	0.7	1	OP
46A65 ◊	98	101	104	111	111	104	108	1	109	G	1.5	1	OP
Agassiz †	103	103	100	100	109	106	108	5	127	G	0.6	2	OP
Ascent †	XX	102	103*	120*	102	104	103	1	120	G	2.1	3	OP
Bianca II	XX	XX	XX	95*	95	XX	94	3	116	EX	2.9	1	OP
Canterra 1492	116*	119	108	122	118	112	116	2	112	VG	0.6	3	HYB
DKL3311 ◊ †	108*	101	102*	109	106	104	104	0	110	G	1.3	1	OP
Hi-Q ▲	XX	107	102*	111	106	106	107	2	118	EX	1.7	1	OP
Hy-PerStar100 †	XX	109	103*	108*	112	107	110	2	121	VG	1.0	3	HYB
Hycore 601	XX	106	XX	117*	111	119	112	3	126	VG	0.3	2	HYB
Hyola 401	101	116	108	115	111	109	110	1	104	EX	0.3	4	HYB
IMC 105	XX	XX	XX	103*	102	110*	105	0	110	VG	0.6	3	OP
LBD 279	XX	106	XX	119*	109	103	107	1	111	VG	2.5	2	OP
Magellan †	XX	109	101*	118*	104	101	104	1	119	G	0.3	3	OP
Magnum ◊ †	99	98	101	102	100	90	98	1	111	G	0.3	2	OP
Peace ▲	XX	96*	XX	107*	107*	100	101	-5	95	VG	-0.3	2	OP
Q2 ◊	108	105	103	111	109	110	108	1	105	EX	0.8	1	OP
Quantum ◊ †	96	106	101	106	106	104	104	0	111	EX	-0.1	1	OP
Skyhawk ▲	XX	103	XX	120*	117	112	111	1	121	G	0.1	1	OP
SP Armada	XX	XX	XX	112*	103	110*	107	-1	109	VG	-0.4	2	OP
SW 5001	XX	101	XX	114*	105	106	104	3	125	VG	0.6	1	HYB
Thunder	XX	103	XX	111*	110	115	108	2	126	G	0.6	2	OP

See page 12 for symbols used.

CANOLA

Variety	Irr. 1&2	Area(See Map)				5&6	Overall Average	Comp Mat	Ht. cm	Straw Strength	Comp Oil(%) Content	Blackleg Tolerance	Variety Type	Herbicide
		1	2	3	4									
Yield as % of Legacy						ARGENTINE TYPE Brassica napus								
Herbicide Tolerant Varieties														
295 BX s	106*	104	98*	105	96	99	100	1	98	G	0.3	3	OP	Navigator
45A51 ◊ †	105*	124*	99*	113*	105	98	107	0	113	VG	1.8	3	OP	Roundup
45A54 ◊	XX	95	XX	95*	100	88	95	0	118	G	0.6	1	OP	Roundup
45A55	XX	99*	XX	106*	104	113	105	-1	105	G	0.1	1	OP	Roundup
45A71 ◊ †	92	96	91*	104*	103	96	96	0	109	G	0.2	3	OP	Clearfield
46A76 ◊	XX	112	110*	106*	114	110	112	3	123	EX	0.4	1	OP	Clearfield
Admire	XX	103*	XX	118*	109	113	108	2	113	VG	0.0	2	SYN	Roundup
Armor BX ▲	109*	105	101*	110	100	104	105	0	102	G	0.1	3	OP	Navigator
Canterra 1812	XX	107*	XX	100*	104	109	106	1	106	EX	0.5	2	SYN	Roundup
Canterra 1867	XX	94	XX	98*	103	92	96	0	100	VG	0.9	3	OP	Roundup
Cartier BX ▲	100*	109	104*	102	94	95	101	1	97	G	-0.3	2	OP	Navigator
Champion ▲	XX	103	XX	110*	112	112	109	1	108	VG	1.5	2	OP	Roundup
Conquest	109*	99	111*	96	104	105	104	2	105	EX	0.5	1	OP	Roundup
Dawn ◊ †	104*	101	104*	107*	102	97	102	0	108	G	1.1	3	OP	Roundup
DKL3235 ◊	98*	97	105*	103	102	100	101	-1	109	G	0.5	2	OP	Roundup
DKL34-55 ▲	XX	101	XX	100	109	104	101	1	119	VG	1.6	2	OP	Roundup
DKL35-25 ▲	XX	XX	XX	107*	104	XX	104	0	100	VG	2.0	2	OP	Roundup
DS-Roughrider ▲	XX	95	XX	92*	104	109*	102	2	110	EX	3.6	3	OP	Roundup
Heritage ▲	XX	99	XX	89*	100	89	95	0	106	VG	0.1	2	OP	Roundup
Hylite 215 CL ▲	XX	XX	XX	107*	98	104*	101	2	111	EX	1.6	3	OP	Clearfield
Hylite 225 RR ▲	XX	95*	XX	XX	109	97	100	0	103	EX	1.4	2	OP	Roundup
Hylite 243 CL ▲	XX	XX	XX	103*	96	111*	102	1	114	EX	0.7	3	OP	Clearfield
Hyola 454 RR	XX	95	XX	99*	101	107	101	0	107	VG	-0.2	2	HYB	Roundup
IMC 106 RR	XX	XX	XX	93*	104	XX	102	-1	107	VG	1.4	2	OP	Roundup
InVigor 2573	XX	109	XX	138*	126	130	123	0	132	VG	0.1	1	HYB	Liberty

CANOLA

Variety	Irr. 1&2	Area(See Map)					Overall Average	Comp Mat	Comp Ht. cm	Straw Strength	Oil(%) Content	Blackleg Tolerance	Variety Type	Herbicide
		1	2	3	4	5&6								
Yield as % of Legacy														
Herbicide Tolerant Varieties														
ARGENTINE TYPE Brassica napus														
InVigor 2663	XX	120	XX	147*	132	132	129	0	130	VG	1.0	1	HYB	Liberty
InVigor 2733	XX	XX	XX	132*	125	136*	129	-3	111	VG	1.9	2	HYB	Liberty
Kelsey	XX	85	XX	89*	105	111	100	-1	100	EX	2.0	2	OP	Roundup
LBD449RR	XX	97*	XX	91*	104	XX	100	-3	106	EX	0.0	1	OP	Roundup
LBD561RR	XX	90*	XX	97*	100	XX	99	-1	104	VG	-0.1	2	OP	Roundup
LBD799RR-S	XX	97*	XX	107*	109	XX	106	1	107	VG	0.2	2	SYN	Roundup
LG3345 ▽	105*	107	104	108*	102	98	105	0	113	G	0.1	2	OP	Roundup
Prairie499RR	XX	99	XX	96*	108	113	108	0	109	VG	0.8	1	HYB	Roundup
Renegade BX ▲	XX	XX	XX	117*	107	116*	112	1	113	VG	0.8	2	OP	Navigator
SW Arrow ▲	97*	97	103	98*	100	97	99	-1	113	G	-0.8	3	OP	Roundup
SW Flare LL ▲	XX	98*	XX	116*	106	107	104	0	111	VG	0.5	2	OP	Liberty
SW GladiatoRR	XX	105*	XX	113*	116	XX	114	0	110	VG	0.2	2	SYN	Roundup
SW Razor	XX	97	XX	110*	107	111	105	0	110	VG	0.4	2	SYN	Roundup
SW RideR	117*	111	108*	112	106	111	110	1	110	VG	0.5	3	SYN	Roundup
SW WaRRior	XX	108	XX	XX	111	124*	112	0	116	VG	0.4	2	SYN	Roundup
Zodiac BX s	101*	104	101*	104	96	101	101	1	117	G	0.1	2	OP	Navigator

REMARKS: Overall Average - includes all regional plus western co-op data. Polish varieties, on average, yield 20% less, are more susceptible to root maggot and root rot, and mature 2 - 3 weeks earlier than Argentine types. Argentine types shatter more readily than Polish when ripe and require early seeding. Argentine canola is risky in all zones if seeded late, especially in Areas 5 and 6 due to late maturity. Mixtures of canola and mustard seed are inseparable and unacceptable. Do not grow varieties that are susceptible to blackleg. Help prevent the spread of virulent blackleg to your farm; use only certified blackleg free and treated seed in a minimum 4-year rotation. Maturity information is based on field experience and estimates from data collected during the growing seasons and may vary considerably from year to year. Only use the herbicide that is registered for the herbicide tolerant canola variety in the proper soil zone and applied at the recommended rate. Liberty, Navigator and Roundup herbicide tolerant varieties are transgenic cultivars. InVigor 2733 - limited seed in 2002.

See page 12 for symbols used.

Symbols used: † Denotes variety may not be described in 2003; 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: Comp. Mat. = Comparative maturity in (+ or -) days from the check variety.

Comp Prot. = Comparative protein in (+ or -) percent 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/1000 kernels);

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;

Ht. cm = Height in centimeters;

Sprout Toler. = Sprouting Tolerance; P = Poor, F = Fair, G = Good, Ex = Excellent;

Blackleg and White Rust Tolerance; 1 = Tolerant, 2 = Moderately tolerant, 3 = Moderately susceptible, 4 = Susceptible, 5 = Highly Susceptible.

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.

Variety Type; SYN = Synthetic, OP = Open Pollinated, HYB = Hybrid.

Visit Alberta Agriculture on the web at <http://www.agric.gov.ab.ca>

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REMARKS: For further information, please contact one of our Cereal and Oilseed Crop Specialists at any of the above locations, or visit us on our web site at <http://www.agric.gov.ab.ca>

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Recommended Malting Barley Varieties for 2002-03 from the Malting Barley Industry Group

Recommendations are based on anticipated markets in 2002-03. These recommendations are one source of information used to decide whether to grow a variety of malting barley. Other important considerations are disease resistance and the suitability of the variety's agronomic characteristics in a farming area. Consult your provincial agriculture representative and talk to your elevator manager about local market demand for particular varieties.

Definitions

Recommended

Varieties that have proven commercial market demand. Demand for some varieties may be limited.

Limited

Varieties that are undergoing market development and commercial testing.

Not Recommended

Varieties that have no known commercial market demand for malting and brewing.

- In "Limited" cases, some acreage is required. Growers should only grow these varieties if they receive a commitment from a local elevator, a company with proprietary rights to those varieties or a malster who is selecting this variety.

TWO-ROW VARIETIES

Variety	Industry Recommendation			Remarks
	Recommended	Limited	Not Recommended	
AC Metcalfe	X			Widely accepted domestically and for export
Harrington	X			Reduced demand
CDC Kendall	X (Agricore United & SWP)			Expanding domestic markets; potential export markets
Stein	X (Agricore United)			Established export markets
CDC Stratus	X			Expanding domestic markets; potential export markets
Merit	X			Limited domestic markets; expanding export markets
B1202		X		Limited domestic and export markets
Manley			X	

The varieties AC Bountiful (TR 243), and CDC Copeland (TR150) are not being grown for the commercial market. Limited quantities are being grown for market development and testing purposes.

SIX-ROW VARIETIES

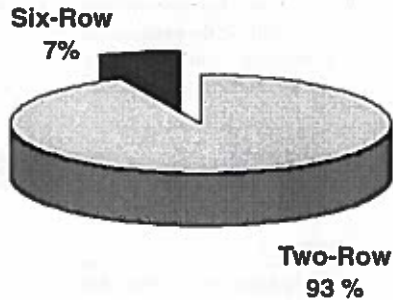
Variety	Industry Recommendation			Remarks
	Recommended	Limited	Not Recommended	
Excel	X			Reduced demand
Robust	X			Established demand
B1602	X (Agricore United & SWP and BARI)			Established demand
CDC Sister	X (Agricore United)			Growing domestic demand
Legacy		X		Growing export demand; potential domestic demand

The varieties CDC Yorkton (BT459) and CDC Battleford (BT456) are not being grown for the commercial market. Limited quantities are being grown for market development and testing purposes.

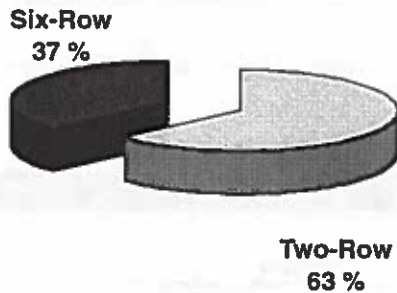
Canadian malting barley sales destinations 2000-2001

To further assist producers in making decisions on malting barley varieties for 2002, the following charts should be used in conjunction with the recommendation tables. These charts show which types of Canadian malting barley were being selected in 2000-2001 for domestic versus export destinations.

Varieties selected for Domestic use 2000 - 2001 (1,095,150 tonnes delivered)



Varieties selected for Export 2000 - 2001 (1,328,350 tonnes delivered)



Malting Barley Industry Group

Agricore United Ltd., Brewing and Malting Barley Research Institute, Busch Agricultural Resources Inc., Canadian Grain Commission, Canada Malting Co. Limited, Canadian Malting Barley Technical Centre, Canadian Wheat Board, Cargill Limited, ConAgra Grain, Canada; Dominion Malting Limited, James Richardson International, Louis Dreyfus Canada Ltd., N.M. Paterson & Sons Limited, North East Terminal, Parrish & Heimbecker, Pioneer Grain Company Limited, Prairie Malt Limited, Saskatchewan Wheat Pool, South West Terminal, UGG, Westcan Malting Limited, Western Barley Growers Association, XCAN Grain Pool Limited.

Questions?

Call your selector or handling company, or call the Canadian Wheat Board at: 1-800-ASK-4-CWB (1-800-275-4292)