



## Varieties of Cereals and Oilseed Crops for Alberta – 1999

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### Explanatory

The information used 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 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 tested under very high or very low management.

### Plant Breeder's Rights

The use of the logo  $\Delta$  indicates the variety is protected by law, and pedigreed or common seed of this cultivar 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 variety response, see *Irrigated Crop Recommendations for Alberta, Agdex 100/32-1*.

### Maturity

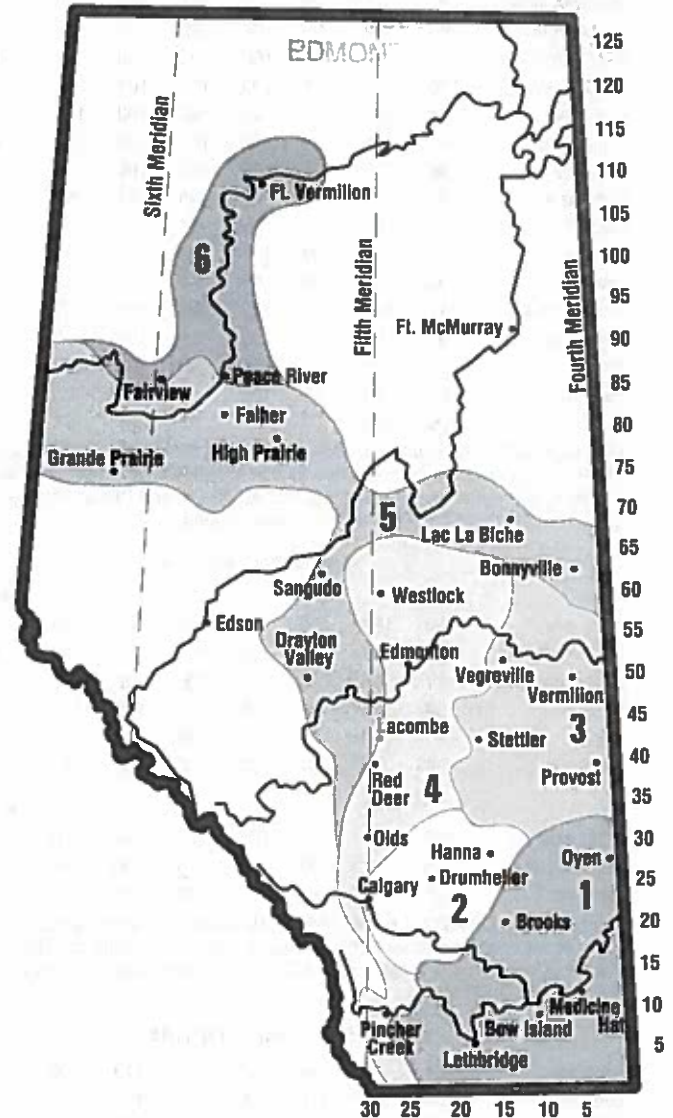
The relative classifications refer specifically to the crop being considered. For example, an early-maturing wheat variety could require more days to reach maturity than a late-maturing variety of barley.

In areas 2, 3 and 5 of Alberta, the following may be used as a guide for estimating maturity in actual days from seeding to harvest when the crops are seeded on fallow land: Katopwa wheat – 111 days, Park wheat – 105, Grizzly oat – 108, Jasper oat – 105, Leduc barley – 99, Harrington barley – 98, AC Albright barley – 90, McGregor flax – 130, Flanders flax – 120, Legacy canola – 105 and 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, Katopwa 113 and Quantum 108. In southern Alberta, Katopwa 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.

### Disease and seed treatment

- Seed of rye and flax should be treated to control seedling blight and seed of canola to control flea beetles, seedling blight and the seedborne phase of virulent blackleg.



- Cereal smuts can be controlled with systemic seed treatment fungicides. See Alberta Agriculture, Food and Rural Development's *Seed Treatment of Cereal and Oilseed Crops, Agdex 100/632*.
- Treated seed must not be fed to livestock or poultry or sold for feed. Refer to label for maximum period for storing treated seed. Storage periods for fungicide-insecticide combination products are fairly short. Small quantities of excess seed can be buried at regional landfills. Do not expose treated seed to wildlife!

# WHEAT

Resistance to:

Variety	Irr. 1&2	Area(See Map)						Comp		Te. Wt.	Kn. Wt.	Resistance to:				Com.	
		1	2	3	4	5	6	Mat	Prot.			Ldg.	Shat.	Loose Smut	Bunt	Rt. Rot	Sprout
Yield as % of Katepwa											Eligible for C.W. Red Spring Wheat Grades						
Katepwa	100	100	100	100	100	100	100	106	0.0*	61	33	G	G	R	R	I	F
AC Barrie ◊	101	103	104	111	102	100	116	0	0.3*	62	36	G	G	R	R	I	G
AC Cadillac ◊	97	104	101	106	98	95	108	0	0.3*	64	38	G	G	R	R	I	F
AC Cora	98	101	102	106	102	103	100	-0	0.2*	61	35	G	G	R	R	I	F
AC Domain	95	96	99	98	96	94	89	-0	0.8*	62	36	G	G	R	R	I	EX
AC Eatonia ◊	89	94	99	98	-*	-*	-*	1	0.5*	62	34	F	G	I	R	I	G
AC Elsa ◊	91	104	107	103	104	104	109	1	0.2*	62	34	G	G	R	I	I	F
AC Intrepid ▲	102*	101*	100*	107*	108*	110*	105*	-0	XX	62	38	G	G	I	R	I	S
AC Majestic ▲	94	98	99	102	101	104	99	1	0.4*	62	35	G	G	I	R	I	G
AC Michael	99	99	98	102	99	99	101	0	0.2*	61	33	G	G	R	R	I	F
AC Splendor ▲	100	97	95	106	99	98	98	-1	1.0*	62	36	G	G	S	I	I	F
CDC Makwa †	100	102	97	100	100	101	101	0	0.0*	60	33	G	G	R	I	S	F
CDC Teal	104	105	104	99	102	103	102	-0	0.5*	61	34	G	G	I	I	I	F
Columbus †	95	101	94	103	101	105	102	4	0.2*	61	34	G	G	I	R	I	EX
Conway †	96	100	96	103	100	100	98	1	XX	61	32	G	G	R	I	I	F
Invader ◊	97	98	98	103	105	97	97	2	0.5*	61	37	G	F	I	I	I	F
Lancer †	92	98	87	95	-*	-*	-*	2	XX	61	33	P	G	R	R	I	G
Laura	99	104	102	101	103	104	104	2	-0.1*	61	33	G	G	I	S	I	F
Leader †	90	99	92	96	-*	-*	-*	1	XX	61	31	G	G	I	R	S	F
McKenzie ▲	117*	104*	100*	113*	103*	105*	97*	-1	-0.4*	63	32	G	G	S	R	I	EX
Neepawa †	99	99	98	103	99	103	100	1	XX	61	33	G	G	R	I	I	F
Park †	-*	-*	99	95	99	96	94	-1	XX	61	32	F	G	R	I	I	G
Pasqua †	97	99	95	102	95	98	99	1	0.1*	61	34	G	G	S	I	S	G
Roblin	100	93	97	97	98	96	97	-1	0.5*	60	35	G	G	R	S	I	F

Remarks: AC ABBEY ▲, AC EATONIA ◊, LANCER and LEADER – adapted to sawfly areas only. AC MAJESTIC ▲, COLUMBUS, INVADER ◊ and LAURA – late maturing in areas 3, 4, 5 and 6. NEEPAWA – difficult to thresh. MCKENZIE ▲, AC SPLENDOR ▲, LAURA, PASQUA, and ROBLIN – require a systemic fungicide seed treatment. AC ABBEY ▲ and PRODIGY ▲ – insufficient data to describe, seed supply limited in 1999. C.W. Red Spring Wheat grown under irrigation tends to have lower grades.

Yield as % of AC Taber

ELIGIBLE FOR CANADA PRAIRIE SPRING WHEAT GRADES

**RED SEEDED**

AC Taber	100	100	100	100	100	100	100	112	61	41	G	G	S	R	I	F
AC Crystal ◊	103	97	97	100	101	101	103	-1	62	42	G	G	S	R	S	F
AC Foremost	101	96	93	98	106	98	98	-3	61	41	EX	G	R	R	I	F
Biggar †	99	104	97	95	104	102	101	-1	60	39	G	G	S	S	I	F
Cutler	80	86	89	78	93	89	80	-10	61	39	G	G	S	S	I	F
Oslo †	84	86	84	79	103	90	77	-7	58	37	EX	G	S	I	I	F

**WHITE SEEDED**

AC Karma ◊	100	96	98	103	107	99	99	-1	61	39	G	G	R	R	I	S
AC Vista ◊	96	91	99	95	94	98	94	-2	61	43	G	G	I	R	I	F
Genesis †	91	102	95	97	98	98	101	+4	60	38	P	G	I	S	I	S

Remarks: AC CRYSTAL ◊, AC TABER, BIGGAR, CUTLER, GENESIS and OSLO require a systemic fungicide treatment. OSLO and CUTLER – less drought tolerant than other CPS wheats. Genesis is the only standard height CPS and is subject to loss due to lodging, late maturity and sprouting susceptibility in high rainfall areas. AC VISTA ◊ has superior sprouting resistance to other white seeded CPS wheats. BIGGAR yields about 20% higher than KATEPWA.

Yield as % of Neepawa (CWRS Wheat)

ELIGIBLE FOR C.W. EXTRA STRONG GRADES

Bluesky	101	104	114	103	112	113	106	0	60	44	F	G	R	I	R	F
Glenlea	105	112	115	106	112	118	116	5	60	44	G	G	R	I	R	G
Laser ▲	121	104	114	95	115	110	99	-1	61	39	EX	G	R	I	I	G
Wildcat	97	100	112	96	111	105	90	0	59	40	F	G	R	S	I	F

Remarks: BLUESKY, WILDCAT and LASER ▲ – are comparable in maturity to NEEPAWA. GLENLEA – should only be grown in areas 1, 2 and 3 due to late maturity. LASER ▲ and WILDCAT – require a systemic fungicide seed treatment.

Yield as % of AC Reed

ELIGIBLE FOR C.W. SOFT WHITE SPRING WHEAT GRADES

AC Reed	100	-*	-*	-*	-*	-*	-*	105	61	35	EX	G	S	S	S	S
AC Phil	101	-*	-*	-*	-*	-*	-*	0	61	35	EX	G	S	S	S	S
Fielder	93	-*	-*	-*	-*	-*	-*	2	61	35	G	F	S	S	S	S

Remarks: Current C.W.SWS varieties are semi-dwarf and require a systemic fungicide seed treatment. AC REED and AC PHIL – are resistant to stripe rust. AC NANDA – insufficient data to describe, seed supply limited in 1999. AC PHIL – has improved resistance to black point. AC REED – yields about 20% higher than KATEPWA under irrigation.

## AMBER DURUM WHEAT

Variety	Irr. 1&2	Area(See Map)						Comp		Te. Wt.	Kn. Wt.	Resistance to:					
		1	2	3	4	5	6	Mat	Prot.			Ldg.	Shat.	Loose Smut	Bunt	Com. Rt. Rot	Sprout
Yield as % of Wakooma										ELIGIBLE FOR C.W. AMBER DURUM WHEAT GRADES							
Wakooma †	100	100	100	100	-*	-*	-*	107		62	41	P	G	I	R	I	S
AC Avonlea ▲	109*	104*	103*	122*	-*	-*	-*	-1		62	43	VG	G	S	R	I	F
AC Melita	112	101	93	97	-*	-*	-*	2		62	46	G	G	S	R	I	S
AC Morse ▲	112	99	98	100	-*	-*	-*	-1		62	44	G	G	S	R	I	F
Kyle	103	105	101	100	-*	-*	-*	0		62	42	P	G	S	R	I	S
Medora	109	104	99	102	-*	-*	-*	-0		63	43	G	G	I	R	I	F
Plenty	111	110	108	113	-*	-*	-*	-1		62	43	G	G	S	R	I	S
Sceptre	107	105	104	99	-*	-*	-*	-0		62	41	G	G	S	R	I	S

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. WAKOOMA - yields about 10% higher than KATEPWA in areas of best adaptation. SCEPTRE - lowest incidence of kernel smudge. AC AVONLEA ▲ - limited seed supply in 1999.

## WINTER WHEAT

Variety	Irr. 1&2	Area (See Map)						Comp		Te. Wt.	Kn. Wt.	Resistance to:					
		1	2	3	4	5	6	Mat	Prot.			Ldg.	Shat.	Loose Smut	Bunt	Com. Rt. Rot	
Yield as % of Norstar										ELIGIBLE FOR C.W. RED WINTER WHEAT GRADES							
Norstar †	100	100	XX	XX	100	XX	XX	0		64	32	P	G	S	S	S	
AC Readymade	103	110	-*	-*	-*	-*	-*	0		63	34	G	F	S	I	S	
CDC Clair	XX	116	XX	XX	117	XX	XX	0		63	34	G	G	S	I	S	
CDC Kestrel	124	117	XX	XX	115	XX	XX	-1		62	34	F	G	S	S	S	
CDC Osprey	XX	111	XX	XX	115	XX	XX	0		63	34	G	G	S	I	S	

Remarks: NORSTAR - most winter hardy, CDC CLAIR, CDC KESTREL and CDC OSPREY - equal in winter hardiness, AC READYMADE - least winter hardy. Winter survival is best in southern Alberta. AC READYMADE - has high protein; resistant to piebald. AC BELLATRIX, CDC FALCON, CDC HARRIER and AC TEMPEST - insufficient data to describe; no seed available in 1999. Winter wheats are susceptible to Russian wheat aphids. Winter wheats should be treated with a systemic fungicide seed treatment.

## SPRING TRITICALE

Variety	Irr. 1&2	Yield as % of Wapiti						Comp		Te. Wt.	Kn. Wt.	Resistance to:					
		Area (See Map)						Mat	Prot.			Ldg.	Shat.	Loose Smut	Bunt	Com. Rt. Rot	
Wapiti	100	100	100	100	100	-*	-*	116		52	44	G	G	R	R	I	
AC Alta	100	99	102	101	107	-*	-*	3		54	48	G	G	R	R	S	
AC Certa	97	100	91	99	103	-*	-*	-1		59	42	G	G	R	R	I	
AC Copia	92	99	98	100	97	-*	-*	1		54	45	G	G	R	R	I	
Banjo †	93	99	91	98	94	-*	-*	+4		52	45	G	G	R	R	S	
Pronghorn	101	103	99	107	115	-*	-*	-2		55	42	G	G	R	R	I	

Remarks: All varieties are late maturing compared to CWRS wheats and should not be grown for grain production in areas 5 and 6. PRONGHORN - is earlier maturing than other spring triticale varieties. WAPITI - yields about 25% greater than KATEPWA in areas of adaptation. Large seeded varieties should have an increased seeding rate.

## FALL RYE

Variety	Irr. 1&2	Yield as % of Kodiak						Comp Mat	Te. Wt.	Kn. Wt.	Straw Strength
		Area(See Map)									
Kodiak †	XX	100	100	XX	100	XX	XX	0	55	33	F
Prima	XX	107	97	XX	99	XX	XX	-1	57	32	F
Musketeer	XX	98	98	XX	98	XX	XX	-2	58	34	F
AC Rifle	XX	124	107	XX	91	XX	XX	+1	56	29	EX
Dakota	XX	130	118	XX	110	XX	XX	2	55	34	F

Remarks: Varieties listed with the most winter hardy at the top. AC RIFLE is a semi-dwarf. DAKOTA - seed supply limited in 1999.

# BARLEY

Variety	Yield as % of Harrington								Resistance to:											
	Irr. 1&2	Area (See Map)						No. of Row	Awn Type	Comp Mat	Te. Wt.	Kn. Wt.	Ht. cm	Ldg.	Shat.	Loose Smut	FI& Cov. Smut	Com. Rt. Rot	Scald	Net Blt.
		1	2	3	4	5	6													
<b>ELIGIBLE FOR GENERAL PURPOSE GRADES ONLY</b>																				
Bridge †	109	105	106	105	109	101	98	2	R	2	53	46	75	G	F	S	I	I	S	S
CDC Dolly	106	103	108	114	110	111	97	2	R	1	53	47	76	G	F	S	R	I	I	S
CDC Fleet	95	85	96	91	101	90	102*	2	R	-2	53	44	85	G	G	S	S	S	I	I
CDC Guardian †	100	101	106	104	105	101	98	2	R	1	50	43	79	F	F	S	R	I	I	I
Seebe	93	97	102	106	108	107	105	2	R	4	52	46	87	VG	G	S	R	S	R	S
AC Albright †	93	83	100	100	104	93	97	6	R	-6	50	33	85	P	F	S	S	S	S	S
AC Harper Δ	110	110	104	117	128	106	113*	6	S	0	48	39	84	VG	F	S	I	I	I	I
AC Lacombe Δ	117	108	118	120	128	110	115	6	S	-1	48	41	85	VG	F	S	R	S	I	I
AC Rosser Δ	109	118	109	115	122	113	122*	6	S	1	49	40	87	F	P	S	R	I	I	I
Brier †	118	108	117	122	125	111	110	6	S	0	48	39	83	F	F	S	R	S	I	I
Bronco	102	95	104	110	116	102	115*	6	S	-0	50	40	94	G	F	S	I	I	I	I
Leduc †	113	104	111	113	117	102	104	6	R	-1	48	42	80	F	G	I	R	I	I	I
<b>SEMI-DWARF</b>																				
CDC Earl	113	101	114	111	117	104	108	6	R	0	47	36	72	EX	G	S	R	I	I	I
Duke †	111	97	114	110	116	99	102	6	R	2	48	38	74	EX	F	S	I	I	I	S
Kasota Δ	110	103	111	113	119	112	105	6	R	-4	50	34	73	EX	G	S	R	I	R	I
Mahigan Δ	110*	103*	109*	110*	125*	108*	XX	6	S	-3	50	34	75	EX	G	S	R	I	R	I
Stetson	107	96	101	104	116	94	88	6	S	1	49	38	59	EX	G	S	R	I	I	I
Tukwa	118	101	104	120	117	107	108	6	S	-2	50	35	76	VG	G	S	R	I	I	S
<b>HULLESS</b>																				
CDC Dawn	95	96	99	96	90	95	93	2	R	2	57	38	83	F	G	S	S	I	I	I
CDC Gainer	99*	94*	95*	92*	99*	92*	XX	2	R	0	61	39	90	F	G	S	I	I	I	I
Phoenix Δ	93	87	87	88	86	82	89	2	R	-1	58	36	83	F	G	S	I	I	S	S
Terrel Δ	93	92	94	89	97	89	XX	2	R	0	58	41	89	G	G	S	I	I	S	S
AC Hawkeye Δ	93	93	104	97	103	93	95*	6	S	2	58	39	103	F	F	S	S	I	I	I
CDC Silky †	100	91	94	101	100	93	90	6	S	0	54	33	77	VG	G	I	I	I	I	I
Falcon Δ	98	82	99	88	98	91	91	6	S	-1	58	34	67	EX	F	S	R	I	I	I
<b>ELIGIBLE FOR MALTING GRADES</b>																				
Harrington	100	100	100	100	100	100	100	2	R	96	51	42	78	F	F	S	S	I	S	S
AC Metcalfe Δ	103	99	101	107	109	107	98	2	R	1	52	44	84	G	G	R	I	I	S	I
AC Oxbow	100	96	99	98	104	97	98	2	R	0	52	44	83	VG	F	R	I	S	S	I
B1215 †	102	104	104	105	109	98	95	2	R	2	52	41	75	VG	F	S	I	S	S	I
CDC Lager Δ (I)	104	97	101	99	105	100	94	2	R	-1	52	42	82	G	G	S	S	I	S	I
CDC Stratus (I)	107	99	101	106	108	105	97	2	R	0	52	45	78	G	G	I	I	I	S	I
Manley	101	102	105	105	112	106	101	2	R	4	51	43	79	G	G	S	I	I	S	I
Stein †	102	102	101	105	107	103	100	2	R	1	52	43	73	F	F	S	I	S	S	S
TR 139 Δ (I)	107*	106*	108*	107*	113*	109*	XX	2	R	2	51	45	90	G	G	S	I	I	S	I
TR 145 Δ (I)	104*	100*	107*	106*	110*	108*	XX	2	R	0	51	44	85	G	G	I	I	I	I	I
TR 243 (I)	104*	108*	107*	111*	117*	108*	XX	2	R	1	52	45	89	G	G	R	R	I	S	I
B1602	109	97	104	104	110	96	101	6	R	-1	50	37	86	G	F	S	I	R	S	S
CDC Sisler Δ (I)	103	106	104	108	109	100	120	6	S	-1	50	35	97	G	F	S	S	I	I	S
Duel †	114	97	114	117	128	102	105	6	S	-1	48	37	90	G	F	S	I	I	S	S
Foster Δ (I)	108*	111*	108*	111*	120*	99*	86*	6	R	0	50	40	90	G	F	S	XX	XX	S	S
Stander Δ (I)	104	112	104	111	122	105	117*	6	S	1	51	40	85	VG	F	S	I	I	S	S

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 rated as intermediate and 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. AC BACON - insufficient data to describe. AC BACON, CDC GAINER, TERCEL, TR139, TR145 and TR243 - no seed available in 1999. MAHIGAN - seed supply limited in 1999.

## O A T S

Variety	Irr. 1&2	Yield as % of Cascade						Comp Mat	Te. Wt.	Kn. Wt.	Resistance to:		
		1	2	Area (See Map)			6				Ldg.	Shat.	Smuts
Cascade	100	100	100	100	100	100	100	99	38	34	G	G	S
AC Assiniboia ◊	XX	98	95	90	92	90	94	1	37	39	G	G	R
AC Juniper ◊	107	94	106	95	95	104	99	-1	39	35	VG	G	I
AC Medallion ◊	XX	105	101	93	99	96	91	3	38	37	F	XX	R
AC Mustang ▲	113	114	108	109	111	113	115	1	40	35	G	G	I
AC Preakness ◊	99	107	104	93	100	105	99	3	38	36	F	G	R
AC Rebel ▲	XX	105*	101*	93*	100*	103*	100*	3	38	32	G	G	R
Calibre	99	107	102	98	95	102	98	1	40	36	F	G	S
CDC Boyer	100	97	105	95	99	101	96	-1	38	38	G	G	S
CDC Pacer	XX	109	101	106	106	100	98	2	39	38	F	G	R
Derby	107	106	104	102	98	102	98	1	40	37	G	G	S
Foothill	91	97	86	93	89	94	89	1	38	31	F	G	S
Grizzly †	99	94	95	94	94	91	94	1	39	36	F	G	S
Jasper	107	96	98	97	94	96	94	-3	40	34	F	G	S
Triple Crown ◊	XX	107*	101*	93*	103*	97*	104*	4	38	35	G	XX	I
Waldern	109	109	110	108	107	114	111	1	37	43	G	G	S

### HULLESS

AC Belmont ◊	77	77	68	72	72	77	76	4	41	27	G	G	R
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Remarks: AC ASSINIBOIA ◊, AC JUNIPER ◊, AC MEDALLION ◊, AC PREAKNESS ◊, CALIBRE, CDC PACER, CDC BOYER, DERBY, JASPER and TRIPLE CROWN ◊ – milling varieties. AC JUNIPER ◊ and JASPER – high protein. FOOTHILL – forage variety. AC MUSTANG ▲ – dual purpose (silage/grain) oat, high hull content. AC ERNIE ▲, ELVY insufficient data to describe. Yield for hulless varieties are expressed after hull removal. Hull removal reduces weight by 20 - 25%. Large seeded varieties should have an increased seeding rate.

## F L A X

Variety	Irr. 1&2	Yield as % of Norlin						Comp Mat	Seed Size	Rust Resistance
		1	2	Area (See Map)			6			
Norlin	100	100	100	100	100	100	100	114	M	R
AC Carnduff ◊	95*	101*	111*	XX	XX	110	XX	0	S	R
AC Emerson	101*	101	103	XX	XX	94	XX	1	M-L	R
AC Linora †	92	97	100	83*	98*	101	XX	1	M	R
AC McDuff †	97	108	112	106	101*	107	XX	2	M	R
AC Watson ▲	95*	99	106*	XX	102*	110	XX	-1	L	R
Andro †	93	99	94	105	96	105	102	0	M	R
CDC Arras ▲	XX	XX	XX	XX	XX	101*	XX	4	S	R
CDC Bethune	XX	XX	XX	XX	XX	96*	XX	2	M	R
CDC Normandy	104	100	111	XX	97*	108	XX	0	M	R
CDC Valor ▲	XX	XX	XX	XX	XX	98*	XX	-1	M	R
Flanders	96	116	116	113	96*	109	XX	1	S	R
McGregor	104	121	108	118	100	111	99	3	S	R
Vimy	101	107	103	96	87	104	108	2	L	R

### SOLIN

Linola 947 ◊	89	109	112	77*	100*	103	XX	3	S	R
Linola 989 ◊	97	105	102	XX	103*	97	XX	1	M	R

Remarks: Linola 947 and Linola 989 are edible oil flax varieties and are categorized as Solin varieties. Flax is daylight sensitive and maturity will vary by the zone it is grown in.

## O T H E R C E R E A L C R O P S

**SPRING RYE – GAZELLE** - only available spring variety and has similar maturity to NEEPAWA wheat.

**WINTER TRITICALE – PIKA and WINTRI** - winter hardiness similar to NORSTAR winter wheat with 10 - 15% higher yield. 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.

## CANOLA

Variety	Irr. 1&2	Area (See Map)						Comp Mat	Straw Strength	Comp Oil (%) Content	Blackleg Tolerance	
		1	2	3	4	5	6					
		Yield as % of Legacy						ARGENTINE TYPE Brassica napus				
Legacy ◊ †	100	100	100	100	100	100	100	108	G	44.1	3	
1134 CA ▲	XX	XX	XX	XX	102	XX	XX	-2	VG	1.5	2	
1174 CA ▲	XX	XX	XX	XX	113	XX	XX	1	VG	1.7	3	
Synbrid 220 ▲	96	90	112*	97	104	98	XX	2	G	1.5	2	
Option 500 ▲	97	101*	104*	108*	101	99	XX	2	G	1.5	2	
44A89 ◊ †	101	100*	101*	112*	105	102	123*	-2	VG	0.7	1	
45A02 ▲ †	XX	XX	XX	XX	110	XX	XX	0	VG	1.2	1	
46A05 ◊	XX	XX	XX	XX	99*	103*	XX	1	G	1.3	2	
46A65 ◊ †	94	98	106*	112	109	100	XX	1	G	1.5	1	
AC Excel †	88	92*	106	96	89	87	108	0	G	0.9	3	
Agassiz	94*	XX	XX	109	112	XX	XX	3	G	0.6	2	
Allons	XX	XX	XX	83*	76*	84*	XX	1	F	0.3	5	
Apollo	79*	XX	XX	93*	72*	83*	XX	0	F	0.3	5	
Battleford ▲	92*	85*	XX	XX	98	93	113*	0	G	0.7	2	
Beacon ▲	91	90*	XX	102*	94	93	XX	0	G	0.7	2	
Challenger	XX	XX	XX	XX	101*	105*	XX	1	VG	-0.8	2	
Clavet ▲	95	98	101*	100	101	93	XX	0	G	0.4	2	
Coronet ▲	XX	XX	XX	XX	105*	101*	97*	1	G	0.9	2	
Cyclone ◊ †	100*	XX	116*	114	102	95*	100*	0	VG	0.0	2	
Dakini ▲	XX	XX	XX	103*	98	XX	XX	3	VG	3.4	3	
Eagle ▲ †	98	92	109*	99	97	97	XX	0	VG	0.1	2	
Ebony ◊ †	93	89	XX	104*	103	104	XX	2	VG	1.6	2	
Goliath	XX	XX	XX	XX	105	XX	XX	1	VG	2.9	3	
HL 99 ▲ †	92	91	99	108	98	95	83*	1	EX	-0.2	3	
Hudson ▲	92	90	103*	101	99	96	XX	-1	VG	-0.2	2	
Hyoia 401	101	116	108	115	111	108	111	1	EX	0.3	4	
Impact ◊ †	99	XX	104*	102	95	97*	105*	4	G	-0.3	3	
Impulse ▲	96	99	111*	103	112	104	XX	3	VG	-0.2	1	
Jewel ◊	98	99*	XX	108*	109	104	XX	2	G	1.4	2	
LG 3220 ◊ †	93*	94*	XX	XX	96	95	84*	-1	VG	0.7	2	
LG 3260 ▲ †	90	82*	XX	96*	96	95	XX	0	VG	2.3	4	
LG 3310 ◊ †	XX	XX	XX	XX	97*	89*	XX	1	VG	1.0	1	
LG 3333 ▲	XX	XX	XX	XX	112	XX	XX	-1	VG	0.8	2	
LG 3360 ▲	XX	XX	XX	XX	100	XX	XX	0	VG	0.8	3	
LG 3369 ▲ †	XX	XX	XX	XX	92	XX	XX	2	VG	2.5	2	
Magnum ◊ †	96	91	105*	97	104	95	XX	1	G	0.3	2	
OAC Dynamite ◊ †	94	104*	102*	107*	101	100	106*	1	VG	-0.1	1	
Polo †	81	XX	100*	82	84	81*	97*	2	G	3.6	3	
Q2 ▲	XX	XX	XX	XX	110	XX	XX	0	EX	0.8	1	
Quantum ◊	94	99	103	105	105	104	XX	0	EX	-0.1	1	
Sentry †	88*	84*	XX	XX	86	85	XX	1	VG	-0.3	1	
Settler †	91*	XX	100*	103	104	92	XX	1	VG	0.3	3	
Sprint ◊	85	93	79*	95	96	90	XX	-2	VG	-0.4	2	
Trailblazer ▲ †	100	88*	XX	103*	99	99	XX	1	G	0.6	2	
Wildcat ▲	XX	XX	XX	XX	109	XX	XX	-1	VG	0.8	2	

**Remarks:** 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. ALLONS and APOLLO are low linolenic acid canola. **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 a herbicide that is registered for the herbicide tolerant canola variety in the proper soil zone and applied at the recommended rate.**

Variety	Irr. 1&2	Area (See Map)						Comp Mat	Straw Strength	Comp Oil (%) Content	Blackleg Tolerance	Herbicide
		1	2	3	4	5	6					
<b>Yield as % of Legacy</b>												
<b>ARGENTINE TYPE Brassica napus</b>												
<b>HERBICIDE TOLERANT VARIETIES</b>												
2631 LL	XX	XX	XX	XX	97	XX	XX	-3	G	1.6	3	Liberty
45A50 ▲ †	92*	XX	XX	XX	100	XX	XX	-2	VG	0.7	3	Roundup
45A51 ▲	XX	XX	XX	XX	110	XX	XX	0	VG	1.8	3	Roundup
45A71 ◊ †	93	99	91*	108	104	100	XX	0	G	0.2	3	Smart
46A72 ◊	89	86*	89	97*	95	90	XX	2	VG	0.8	3	Smart
46A73 ▲ †	XX	XX	XX	XX	102	XX	XX	3	VG	0.8	2	Smart
46A74 ▲	XX	XX	XX	XX	104	XX	XX	2	VG	0.8	2	Smart
Exceed ▲	XX	XX	XX	XX	104	XX	XX	0	G	2.0	3	Liberty
Independence ◊ †	XX	XX	XX	XX	92*	83*	XX	-2	G	0.4	3	Liberty
Innovator ◊ †	81	81*	XX	87*	86	91	XX	-1	G	0.6	3	Liberty
Invigor 2153 ◊	112*	XX	XX	XX	120	XX	XX	-1	G	1.5	3	Liberty
LG 3295 ◊ †	XX	XX	XX	XX	112	XX	XX	-2	VG	0.4	2	Roundup
Quest ◊	92	97	92*	111	103	98	XX	0	G	0.7	2	Roundup
SW Arrow ▲	XX	XX	XX	XX	104	XX	XX	-1	G	-0.8	3	Roundup

## CANOLA

Variety	Irr. 1&2	Area (See Map)						Comp Mat	Straw Strength	Comp Oil (%) Content	Blackleg Tolerance	White Rust Resistance	
		1	2	3	4	5	6						
<b>Yield as % of Reward</b>													
<b>POLISH TYPE Brassica rapa</b>													
Reward	100	100	100	100	100	100	100	94	F	43.4	4	1	
41P04 ▲	XX	97*	XX	XX	107	105*	105*	0	F	0.5	4	1	
41P55 ▲	105*	102	101	119*	103	106*	112*	0	F	0.4	4	2	
AC Boreal †	XX	111*	XX	XX	95	92*	XX	-1	F	2.1	4	1	
AC Sunbeam	97*	99	94	109*	101	101	90*	-1	F	0.4	4	1	
Canterra 1000	XX	XX	101*	XX	101	XX	106*	0	F	0.6	4	1	
Canterra 1007 ▲	XX	XX	96*	XX	101	XX	93*	1	F	0.6	4	1	
Cash ▲ †	108	97*	98	111	107	96	120*	1	F	-0.8	4	1	
Fairview	100	105	102	117	106	106	116*	0	F	0.3	4	3	
Foothills ▲	XX	86*	XX	XX	96	99*	XX	0	F	0.1	4	1	
Hysyn 100 †	101	XX	102*	109	102	97	117*	-1	F	-0.7	4	1	
Hysyn 110 †	107	100	105	116	107	105	121*	0	F	-1.6	4	1	
Hysyn 111	106	101	106	115	111	107	120*	1	F	-1.2	4	3	
Hysyn 120 CS	96	95	102	106*	95	95	120*	1	F	0.7	4	2	
Maverick ▲	104	95	101	109	104	98	117	0	F	0.3	4	1	
Norwester	99	98	101	112*	102	103	120*	1	F	-0.5	4	2	
Shamrock	XX	XX	89*	XX	99	XX	XX	1	F	0.7	4	1	
Spectrum ▲	XX	XX	87*	XX	96	XX	XX	3	F	1.0	4	1	
Valleyview ▲	99*	95	100	110*	108	109	108*	1	F	0.0	4	2	
Westwin ▲	106	96	101	110	105	105	113*	0	F	0.2	4	1	
<b>HERBICIDE TOLERANT VARIETIES</b>													
41P51 ▲	XX	XX	96*	XX	99	XX	XX	0	F	0.3	4	1	Herbicide Roundup

Remarks: See Remarks under Argentine Canola.

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**Symbols used:** † Denotes variety may not be described in 2000; - \* Denotes variety not generally suited for area; XX Denotes insufficient test data to describe; Δ 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; (I) Denotes Interim Registration as a malt type, restricted malt market access.

**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 hectolitre;

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 centimetres;

Sprout=Sprouting; S=Susceptible, F=Fair, G=Good, Ex=Excellent;

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

5=Highly susceptible.

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**Remarks:** For further information, please contact a Cereal and Oilseed Specialist. You can reach any of our specialists toll free. Dial the RITEdirect number 310-0000 followed by the seven digit number for that specialist. Your call will be automatically connected. You can call any Alberta Agriculture, Food and Rural Development office from any location in Alberta through this Alberta Government RITE system.

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