CANADA WESTERN RED SPRING WHEAT

As grain yields increase, protein content generally decreases. Some of the newer varieties have both higher protein and grain yield. To control true *loose smut* of wheat only a systemic fungicide will work as the pathogen is found inside the seed. To control the other types of smut (*covered* , *false loose* and *bunt*) a non-systemic fungicide seed treatment will work as the disease pathogen is on the outside of the seed.

CWRS Wheat — Yield as % of Katepwa

Variety	Dawson Creek 2002 Yield bus / acre		Dawson Creek 2002 Yield % of Check	Dawson Creek 1994-2002 Avg. (%)	Dawson Creek 1994-2002 Station Years	Fort St. John 2002 Yield bus / acre		Fort St. John 2002 Yield % of Check	Fort St. John 1994-2002 Avg. (%)	Fort St. John 1994-2002 Station Years	B.C. Peace 2002 Avg. (%)	B.C. Peace 1994-2002 Avg. (%)	B.C. Peace 1994-2002 Station Years
5500 HR (BW 245)	47	gh	94	101	[3]	58	b-f	100	101	[4]	97	101	[7]
5600 HR	49	efg	98	103	[3]	60	abc	103	108	[4]	100	106	[7]
*5601HR (BW 256)**	45	h	89	89	[1]	59	a-f	100	100	[1]	95	95	[2]
AC ABBEY	54	abc	107	104	[4]	65	ab	110	110	[6]	109	107	[10]
AC BARRIE	48	gh	95	99	[6]	59	a-f	101	94	[9]	98	97	[15]
AC ELSA	52	b-f	103	110	[5]	60	a-d	102	107	[7]	102	109	[12]
AC INTREPID	54	ab	108	104	[4]	59	a-e	102	103	[6]	105	103	[10]
AC SPLENDOR	50	d-g	99	97	[5]	58	b-f	100	94	[7]	100	95	[12]
ALIKAT	48	fgh	96	98	[3]	58	c-f	99	97	[4]	97	97	[7]
*ALSEN (BW 316)**	47	gh	94	94	[1]	56	c-f	96	96	[1]	95	95	[2]
CDC BOUNTY	53	a-d	106	103	[3]	56	c-f	96	103	[4]	101	103	[7]
CDC IMAGINE (BW 758)	53	a-d	106	110	[2]	57	c-f	98	105	[2]	102	108	[4]
CDC TEAL	50	c-g	100	103	[5]	53	fg	90	97	[8]	95	100	[13]
HARVEST (BW 259)	50	c-g	100	102	[2]	57	c-f	98	100	[2]	99	101	[4]
JOURNEY (BW 243)	53	a-d	105	107	[2]	53	efg	91	92	[2]	98	100	[4]
KANATA (BW 263)**	40	i	79	88	[2]	49	g	83	84	[3]	81	86	[5]
KATEPWA	**50**	**c-g**	**100**	100	[6]	**59**	**a-f**	**100**	100	**[9]**	100	100	**[15]**
*LOVITT (PT 205)**	53	a-d	106	106	[1]	65	a	111	111	[1]	109	109	[2]
PRODIGY	52	b-e	104	112	[3]	60	abc	103	101	[5]	103	106	[8]
ROBLIN	53	a-d	106	95	[5]	53	d-g	91	94	[8]	99	95	[13]
SNOWBIRD (BW 264)**	50	d-g	99	105	[2]	59	a-e	101	96	[3]	100	100	[5]
SUPERB	56	a	112	109	[2]	64	ab	110	108	[2]	111	108	[4]
LSD (P=.05) =	3.74					6.40							
CV value (%) =	5.27					7.79							
Varieties not tested in 2002 (1989 - 2001)											**Last Year Tested**		
AC CADILLAC				97	[4]				83	[6]	(2001)	90	[10]
AC CORA				100	[3]				102	[6]	(2000)	101	[9]
AC DOMAIN				94	[4]				90	[7]	(2000)	92	[11]
AC EATONIA				99	[4]				99	[7]	(2000)	99	[11]
AC MAJESTIC				109	[4]				102	[7]	(2001)	106	[11]
AC MICHAEL				100	[4]				100	[7]	(2000)	100	[11]
AC MINTO				103	[5]				103	[7]	(1995)	103	[12]
BW 755				121	[1]				95	[2]	(2001)	108	[3]
CDC MAKWA				100	[6]				100	[7]	(1995)	100	[13]
CDC MERLIN				98	[3]				95	[3]	(1995)	97	[6]
COLUMBUS				97	[7]				99	[3]	(1992)	98	[10]
INVADER				95	[4]				99	[7]	(2000)	97	[11]
LAURA				101	[4]				105	[7]	(2000)	103	[11]
McKENZIE				103	[3]				101	[5]	(2001)	102	[8]
NEEPAWA				97	[9]				101	[8]	(1996)	99	[17]
PARK				87	[7]				95	[5]	(1993)	91	[12]
PASQUA				99	[4]				93	[6]	(1995)	96	[10]
PT 551				126	[1]				105	[1]	(2001)	116	[2]

Means followed by the same letter do not significantly differ (P=.05, LSD)

KATEPWA - check variety

* first year tested, very limited data available

**HWSW Hard White Spring Wheat

CWRS Wheat

Variety Descriptions

	Variety	B.C.Peace Averages 1994-2002 Whole Head % Moist.	Whole Head +/- check***	Height cm	Bushel Weight lbs/bu	Protein % [st.yrs]	B.C. Peace 2001-02 0-9 scale (0=nil)** Septoria complex	Powdery Mildew	Lodging	Alberta Agdex 100/32 Resistance to Shatter	Root Rot	Loose Smut	Common Bunt	Sprouting	Distributor
■	5500 HR (BW 245)	26.4	1.8	88	65.4	13.5 [5]	3.8	1.8	0.0	G	F	F	F	G	Agricore United
■	5600 HR	27.8	3.1	96	64.1	12.7 [5]	2.9	3.6	0.1	G	F	G	G	G	Agricore United
□	*5601 HR (BW 256)**	36.1	-1.0	81	63.6	14.2 [2]	2.0								Agricore United
■	AC ABBEY	22.4	-0.1	84	62.7	12.6 [5]	3.7	0.6	0.1	G	F	G	G	P	Semiarid Prairie Ag
■	AC BARRIE	23.6	2.8	91	62.5	14.1 [5]	3.7	2.8	0.0	G	F	G	G	F	SeCan
■	AC ELSA	24.8	3.1	88	61.0	13.8 [5]	2.7	0.8	0.1	G	F	G	F	F	SeCan
■	AC INTREPID	20.8	-1.6	92	62.8	13.3 [5]	3.8	1.2	0.5	G	F	F	G	P	Semiarid Prairie Ag
□	AC SPLENDOR	20.1	-1.6	91	61.7	14.0 [5]	3.8	1.4	0.9	G	F	P	F	F	SeCan
	ALIKAT	20.2	-4.4	87	63.7	13.8 [5]	5.5	2.6	0.9	G	F	G	G	F	Canterra
■	*ALSEN (BW 316)**	37.7	0.7	71	63.9	13.3 [2]	2.0								Canterra
	CDC BOUNTY	25.2	0.6	93	65.4	13.7 [5]	3.7	1.3	2.6	G	F	G	G	F	Canterra
	CDC IMAGINE (BW 758)	28.5	-1.5	90	63.3	13.7 [4]	3.6	1.0	0.0						Sask Wheat Pool
	CDC TEAL	19.6	-0.8	78	63.2	14.1 [2]	2.3		G	G	F	F	F	F	Quality Assured Seeds
□	HARVEST (BW 259)	26.8	-3.2	89	65.0	14.1 [4]	5.0	0.6	0.0						Quality Assured Seeds
□	JOURNEY (BW 243)	33.5	3.5	87	64.0	14.6 [4]	3.3	2.0	0.0						Sask Wheat Pool
□	KANATA (BW 263)	22.3	-1.8	86	64.1	13.2 [5]	3.9	1.4	0.0						Quality Assured Seeds
	KATEPWA	20.8	0.0	93	61.5	13.4 **[5]**	4.0	**1.4**	**1.2**	**G**	**F**	**G**	**G**	**F**	SeCan
■	*LOVITT (PT 205)**	38.9	1.8	79	64.0	13.4 [2]	2.7								Canterra
□	PRODIGY	25.7	1.9	93	64.7	13.3 [5]	2.6	3.3	0.0	G	F	F	F	F	Sask Wheat Pool
	ROBLIN	19.9	-0.5	73	62.8	14.7 [2]	4.2		VG	G	F	G	P	F	SeCan
□	SNOWBIRD (BW 264)	24.1	0.1	94	63.5	13.0 [5]	3.9	0.4	0.1						Quality Assured Seeds
□	SUPERB	34.8	4.7	87	63.6	13.0 [4]	4.2	0.4	0.0	G	F	F	G	G	SeCan
	Varieties not tested in 2002 (Averages 1989-2001)														
■	AC CADILLAC	20.3		99	62.8	13.5 [3]	3.88	0.69	1.82	G	F	G	G	F	Quality Assured Seeds
	AC CORA	17.6		93	61.6	13.3			G	G	G	G	G	F	SeCan
	AC DOMAIN	19.5		85	62.4	14.2			VG	G	F	G	G	F	SeCan
	AC EATONIA	23.1		92	61.1	12.9			F	G	F	F	G	F	Agricore United
□	AC MAJESTIC	23.2		96	61.8	12.7 [3]	2.19	2.32	0.63	G	F	F	G	F	SeCan
	AC MICHAEL	18.5		93	60.6	12.8			G	G	F	G	G	F	SeCan
	AC MINTO	14.6		94	62.5				G	G	F	G	G	F	SeCan
	CDC MAKWA	14.9		89	61.9				G	G	P	G	F	P	SeCan
	CDC MERLIN	14.9		96	62.1				G	G	F	F	G	F	SeCan
	COLUMBUS	25.5		88	63.2				G	G	F	F	G	F	SeCan
	CONWAY	21.4		85	62.8				G	G	F	G	F	F	Agricore United
	LAURA	24.1		92	61.1	13.0			G	G	F	F	P	F	SeCan
	NEEPAWA	20.0		91	60.9				G	G	F	G	F	F	CRC
	McKENZIE	16.4		91	62.9	12.8 [3]	3.88	2.26	0	G	F	P	G	EX	Agricore United
	PARK	17.1		81	62.7				F	G	F	G	F	F	LRC
	PASQUA	15.8		87	61.8				G	G	P	P	F	P	SeCan
	PT 551	22.2		108	64.5	13.1 [2]	3.32	1.01	0.13						Agricore United

KATEPWA - check variety

□ **Protection under Plant Breeders' Rights applied for**

■ **Protected by Plant Breeders' Rights**

EX = excellent, VG = very good, G = good

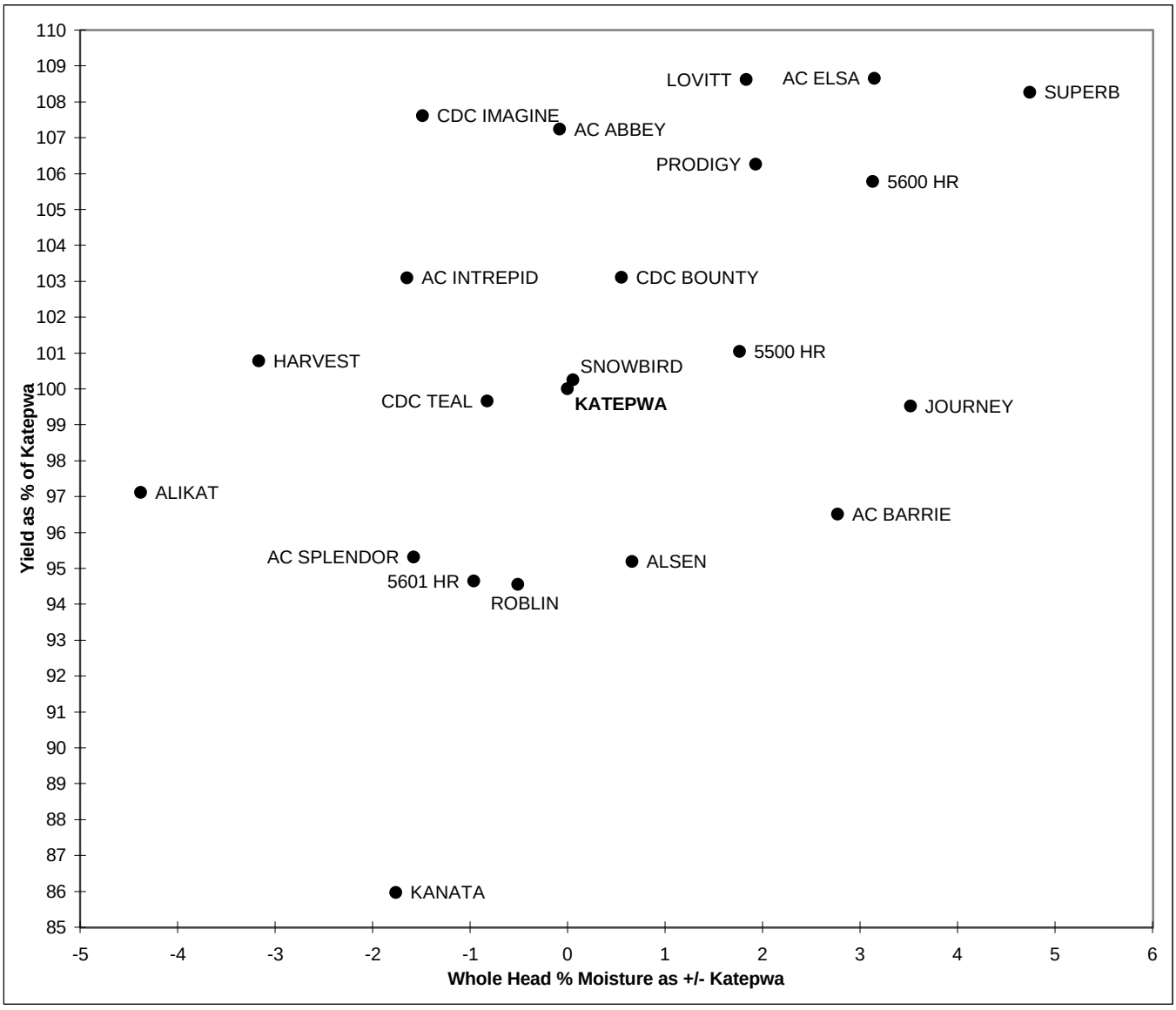
F = fair, P = poor (susceptible)

* first year tested, very limited data available

** 0 - 9 scale; 0 = none, 9 = 100% affected

Note: ***Whole Head %Moisture = To accommodate a more accurate system of comparing maturity *between years* , maturity data (given as whole head % moisture), is now compared as *relative to the check (+ / -)* in a similar fashion as yield data. Whole head % moisture is a tangible (quantitative) measurement, not an assigned relative value (qualitative), and thus a more accurate value. The values displayed here show how much "wetter" or "drier" a given variety is as compared to the check variety, at the time of head collection. Head collection occurs when the earliest lines are below 20% moisture.

CWRS Wheat — Regional Variety Performance 1994-2002



Protected by Plant Breeders' Rights :

AC ABBEY	AC ELSA	ALSEN	5500 HR
AC BARRIE	AC INTREPID	LOVITT	5600 HR

Protection under Plant Breeders' Rights applied for :

AC SUPERB	HARVEST	KANATA	SNOWBIRD
5601HR	JOURNEY	PRODIGY	SUPERB

CANADA PRAIRIE SPRING WHEAT

CANADA WESTERN EXTRA STRONG WHEAT

All current Canada Prairie Spring varieties are awned and should be treated with a systemic fungicide seed treatment to control smut. Canada Western Extra Strong wheats have unique gluten properties. Avoid deep seeding CPS or CWES wheats. Seeding rates for these wheats should be increased 20 to 25% due to the larger kernel size. [The CPS and CWES wheats are traditionally grown together in the same trial]

CPS Wheat

Yield as % of AC Taber

		Dawson Creek				Fort St. John				B.C. Peace		
		2002 Yield		1993-2002		2002 Yield		1994-2002		2002	1993-2002	
Variety	Type	bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
5700PR (HY 961)	CPS red	51 bc	106	104	[3]	53 cde	85	99	[4]	95	101	[7]
5701PR (HY962)	CPS red	58 a	120	120	[1]	54 cd	86	90	[2]	103	105	[3]
AC CRYSTAL	CPS red	47 cd	97	104	[5]	56 bc	90	97	[7]	93	100	[12]
AC FOREMOST	CPS red	50 bc	104	98	[6]	58 b	92	99	[8]	98	99	[14]
AC TABER	**CPS red**	**48 c**	**100**	**100**	**[7]**	**63 a**	**100**	**100**	**[9]**	**100**	**100**	**[16]**
AC 2000	CPS white	54 ab	113	102	[3]	60 ab	95	100	[4]	104	101	[7]
AC BARRIE	CWRS	42 de	88	82	[2]	48 f	76	71	[2]	82	77	[4]
LSD (P=.05) =		4.60				3.91						
CV value (%) =		6.52				5.03						
		Varieties not tested in 2002 (Averages 1989-2001)							Last Year Tested			
AC KARMA	CPS white			96	[5]			102	[7]	(2000)	99	[12]
AC VISTA	CPS white			110	[4]			101	[6]	(2001)	105	[10]
CUTLER	CPS red			90	[5]			89	[7]	(1999)	90	[12]

Means followed by the same letter (both charts as grown together) do not significantly differ (P=.05, LSD)

AC TABER - check variety

* first year tested, very limited data available

CWES Wheat

Yield as % of AC Taber

		Dawson Creek				Fort St. John				B.C. Peace		
		2002 Yield		1993-2002		2002 Yield		1994-2002		2002	1993-2002	
Variety	Type	bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
AC TABER	**CPS red**	**48 c**	**100**	**100**	**[7]**	**63 a**	**100**	**100**	**[9]**	**100**	**100**	**[16]**
AMAZON	CWES	40 e	82	95	[3]	43 g	69	83	[5]	76	89	[8]
CDC RAMA (ES21)	CWES	49 c	101	105	[2]	51 def	82	81	[2]	91	93	[4]
GLENAVON	CWES	47 c	98	100	[2]	50 ef	79	88	[3]	89	94	[5]
AC BARRIE	CWRS	42 de	88	82	[2]	48 f	76	71	[2]	82	77	[4]
LSD (P=.05) =		4.60				3.91						
CV value (%) =		6.52				5.03						
		Varieties not tested in 2002 (Averages 1989-2001)							Last Year Tested			
AC CORINNE	CWES			102	[1]			95	[3]	(2000)	99	[4]
BLUESKY	CWES			93	[5]			90	[7]	(2000)	92	[12]
GLENLEA	CWES			97	[5]			93	[7]	(2000)	95	[12]
LASER	CWES			87	[2]			83	[4]	(2000)	85	[6]
WILDCAT	CWES			78	[5]			79	[7]	(1999)	79	[12]

CPS / CWES Wheat — Variety Descriptions

	Variety	Type	B.C.Peace Averages 1994-2002 ***Whole Head % Moist.	***Whole Head +/- check***	Height cm	Bushel Weight lbs/bu	Protein % [st.yrs]	B.C. Peace 2001-02 0-9 scale (0=nil)** Septoria complex	Powdery Mildew	Lodging	data Alberta Agdex 100/32 Resistance to Shatter	Root Rot	Loose Smut	Common Bunt	Sprouting	Distributor
■	5700PR (HY961)	CPS red	26.7	-3.3	74	70	11.7 [4]	3.65	0.88	0	G	F	P	G	P	Agricore United
□	5701PR(HY962)	CPS red	39.0	-5.1	72	61	12.9 [2]	3.33			G		F	P	P	Agricore United
■	AC CRYSTAL	CPS red	26.8	1.4	79	67	11.8 [4]	2.35	1.76	0.63	G	P	F	G	P	SeCan
	AC FOREMOST	CPS red	20.0	-2.6	70	61	12.9 [2]	3			G	F	G	G	F	SeCan
	AC TABER	**CPS red**	23.9	0.0	80	65	11.7 [4]	2.43	**1.44**	**0.32**	**G**	**F**	**P**	**G**	**P**	**SeCan**
	AC2000	CPS white	30.4	0.4	78	69	11.3 [4]	3.28	2.19	0.19	G	F	F	G	F	SeCan
□	AMAZON	CWES	31.5	2.9	98	67	13.2 [4]	3.36	1.25	2.63	G	F	G	F	P	U of Manitoba
	CDC RAMA(ES21)	CWES	38.2	-0.1	98	80	13.7 [4]	2.9	0.94	1.75						U of S
■	GLENAVON	CWES	30.5	-0.1	103	72	13.1 [4]	3.06	1.07	2.88	G	F	G	F		SeCan
■	AC BARRIE	CWRS	32.5	-5.8	89	65	14.5 [4]	4.58	3.07	0	G	F	G	G	G	SeCan
	Varieties not tested in 2002 (Averages 1989-2001)															
	AC CORINNE	CWES	27.4		91	61				G	G	F	G	G	F	CRC
	AC KARMA	CPS white	15.8		83	62				G	G	F	G	G	P	SeCan
■	AC VISTA	CPS white	18.9		88	68	10.1 [2]	2.94	2.63	0.38	G	F	F	G	P	QA / Value Added
	BLUESKY	CWES	17.8		99	61				F	G	G	G	F	F	SeCan
	CUTLER	CPS red	13.9		77	62				G	G	F	P	P	F	UofA
	GLENLEA	CWES	24.6		102	61				G	G	G	G	F	G	U of M
■	LASER	CWES	18.1		90	61				EX	G	F	G	P	G	U of A
	WILDCAT	CWES	16.0		89	59				F	G	F	G	P	F	SeCan

AC TABER - check variety

□ Protection under Plant Breeders' Rights applied for

■ Protected by Plant Breeders' Rights

EX = excellent, VG = very good, G = good

F = fair, P = poor (susceptible)

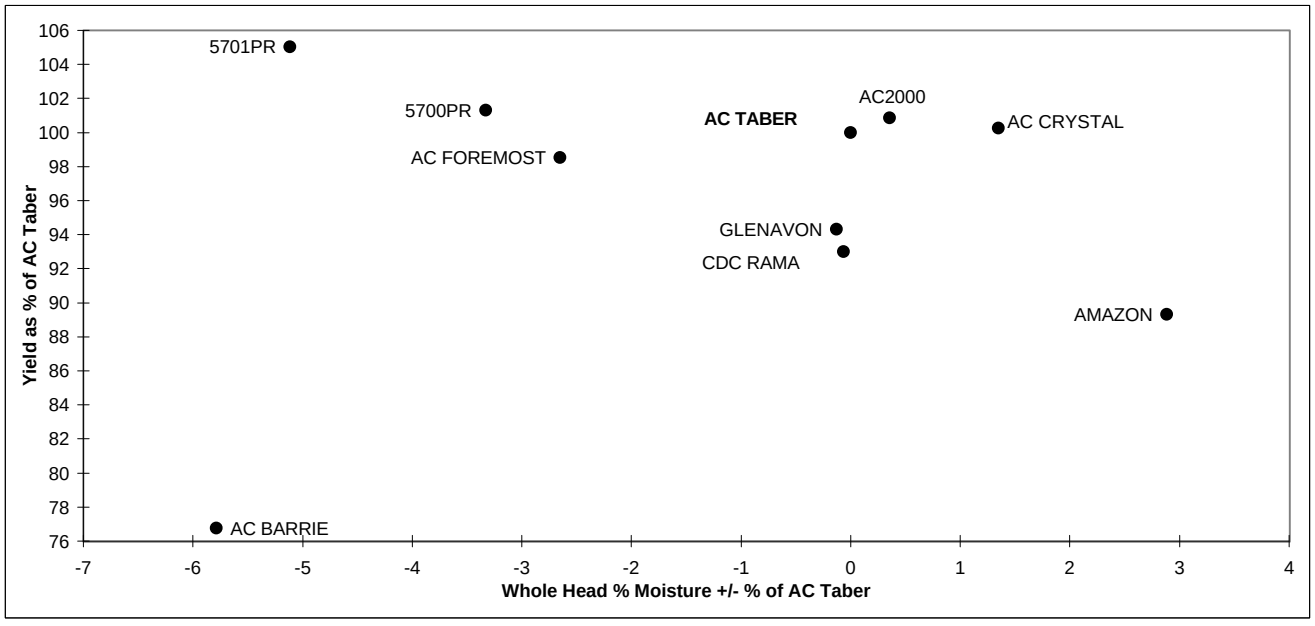
* first year tested, very limited data available

** 0 - 9 scale; 0 = none, 9 = 100% affected

(no lodging or Powdery Mildew occurred in 2002 to record)

*** Whole Head %Moisture = see note bottom of page 8

CPS / CWES Wheat — Regional Variety Performance 1994-2002



BARLEY

Hulless barley varieties have significantly less fibre and higher protein levels than conventional barley and therefore produce a higher level of digestible energy for monogastric animals. In hulless varieties approximately 12% of the lower yield can be attributed to the lack of a hull. Note that some new lines of hulless are actually surpassing the traditional 2-row barley Harrington in yield. Hulless bushels displayed already adjusted. Two row malting barleys are more susceptible to sprouting. Some malting varieties have interim registration and are only grown under contract for plant scale malting tests.

Six Row Barley — Yield as % of Harrington

Variety	Type	Dawson Creek 2002 Yield bus / acre	Dawson Creek 2002 Yield % of check	Dawson Creek 1993-2002 Avg.	Dawson Creek 1993-2002 Stn. Yrs.	Fort St. John 2002 Yield bus / acre	Fort St. John 2002 Yield % of check	Fort St. John 1993-2002 Avg. (%)	Fort St. John 1993-2002 Stn. Yrs.	B.C. Peace 2002 Avg. (%)	B.C. Peace 1993-2002 Avg. (%)	B.C. Peace 1993-2002 Stn. Yrs.
AC ALBRIGHT	feed	73 fgh	101	100	[6]	88 e	98	98	[9]	99	99	[15]
AC HARPER	feed	76 e-h	105	114	[5]	98 cde	108	109	[7]	106	111	[12]
AC LACOMBE	feed	83 b-e	114	120	[7]	109 a-d	121	110	[10]	117	115	[17]
AC RANGER	forage	93 a	128	126	[2]	125 a	139	127	[2]	134	126	[4]
AC ROSSER	feed	81 b-f	112	117	[5]	125 a	139	117	[7]	126	117	[12]
B1602	malt(white)	71 gh	97	103	[6]	94 cde	104	94	[8]	101	98	[14]
*BT954**	malt(white)	68 h	93	93	[1]	97 cde	107	107	[1]	100	100	[2]
*CDC BATTLEFORD**	malt	86 abc	118	118	[1]	111 a-d	123	123	[1]	120	120	[2]
CDC SISLER	malt(white)	78 c-g	107	104	[4]	112 abc	124	105	[6]	116	105	[10]
*CDC SPRINGSIDE (BT478)**	malt(white)	85 a-d	117	117	[1]	108 a-e	120	120	[1]	119	119	[2]
*CDC TISDALE**	malt	84 b-e	116	116	[1]	121 ab	135	135	[1]	125	125	[2]
EXCEL	malt (white)	77 d-g	106	113	[2]	108 a-e	120	110	[3]	113	111	[5]
HARRINGTON	**2R malt**	**73 gh**	**100**	**100**	**[7]**	**90 de**	**100**	**100**	**[10]**	**100**	**100**	**[17]**
KASOTA	feed(sd)	78 b-g	108	122	[7]	95 cde	105	112	[10]	107	117	[17]
LEGACY	malt (white)	78 c-g	107	109	[2]	103 b-e	114	110	[2]	110	109	[4]
MAHIGAN	feed(sd)	76 e-h	104	120	[4]	93 cde	103	111	[6]	103	116	[10]
NISKA	feed(sd)	87 ab	119	120	[3]	119 ab	132	116	[4]	125	118	[7]
ROBUST	malt (white)	68 h	93	101	[2]	98 cde	108	97	[2]	101	99	[4]
TROCHU	feed	77 c-g	106	118	[2]	101 b-e	112	110	[3]	109	114	[5]
VIVAR	feed(sd)	83 b-e	114	128	[2]	103 b-e	114	123	[3]	114	126	[5]
LSD (P=.05) =		8.72				20.85						
CV value (%) =		7.83				14.06						

Varieties not tested in 2002 (Averages 1989-2001)

Variety	Type	1993-2002 Avg.	1993-2002 Stn. Yrs.	Last Year Tested	Avg. (%)	Stn. Yrs.
AC STACEY	feed	116	[3]	(1996)	107	[6]
ARGYLE	malt	107	[8]	(1994)	103	[11]
BT 435	malt	111	[1]	(2000)	107	[3]
BONANZA	malt	93	[6]	(1992)	95	[7]
BRIER	feed	117	[8]	(1995)	116	[12]
BRONCO	feed	103	[3]	(1998)	104	[6]
CDC EARL	feed(sd)	111	[5]	(1999)	109	[12]
CDC YORKTON	malt	113	[1]	(2000)	109	[4]
FOSTER	malt	104	[2]	(2000)	100	[6]
DUEL	malt	100	[6]	(1995)	97	[9]
DUKE	feed(sd)	101	[8]	(1995)	110	[12]
*GAMINE **		120	[1]	(2001)	110	[2]
HEARTLAND	feed	104	[8]	(1994)	100	[11]
JACKSON	feed	92	[8]	(1995)	93	[12]
LEDUC	feed	108	[8]	(1995)	109	[12]
PROSPECT	malt	93	[2]	(1997)	95	[4]
*WESTFORD **	forage	84	[1]	(2001)	81	[1]
STANDER	malt	102	[3]	(2000)	100	[8]
STETSON	feed(sd)	112	[4]	(2000)	108	[11]
TANKARD	malt	85	[3]	(1996)	84	[6]
TUKWA	feed(sd)	121	[5]	(1999)	111	[12]

Means followed by the same letter do not significantly differ (P=.05, LSD)

HARRINGTON - check variety

* first year tested, very limited data available

(sd) semi-dwarf variety

Two Row Barley — Yield as % of Harrington

Variety	Type	Dawson Creek 2002 Yield bus / acre		Dawson Creek 2002 Yield % of check	Dawson Creek 1993-2002 Avg. (%)	Dawson Creek 1993-2002 Stn. Yrs.	Fort St. John 2002 Yield bus / acre		Fort St. John 2002 Yield % of check	Fort St. John 1993-2002 Avg. (%)	Fort St. John 1993-2002 Stn. Yrs.	B.C. Peace 2002 Avg. (%)	B.C. Peace 1993-2002 Avg. (%)	B.C. Peace 1993-2002 Stn. Yrs.
AC METCALFE	malt	70	hi	99	115	[7]	71	de	93	108	[10]	96	111	[17]
CALDER (TR262) *	malt	80	b-e	114	114	[1]	77	bcd	101	101	[1]	108	108	[2]
CDC BOLD	feed(sd)	75	c-h	106	111	[3]	81	b	105	116	[4]	106	113	[7]
CDC COPELAND	malt	81	bcd	115	100	[3]	82	b	107	110	[4]	111	105	[7]
CDC DOLLY	feed	73	fgh	103	118	[7]	77	bcd	100	112	[10]	102	115	[17]
CDC HELGASON	feed	77	b-h	109	108	[2]	77	bcd	101	110	[3]	105	109	[5]
CDC KENDALL	malt	73	e-h	104	102	[5]	71	de	93	97	[9]	98	100	[14]
CDC SELECT (TR153)	malt	77	b-g	110	110	[1]	76	b-e	99	107	[2]	105	108	[3]
HARRINGTON	**malt**	**70**	**f-i**	**100**	**100**	**[7]**	**76**	**b-e**	**100**	**100**	**[10]**	**100**	**100**	**[17]**
MERIT	malt	89	a	127	115	[3]	92	a	120	112	[5]	124	113	[8]
NEWDALE (TR258)	malt	81	bc	115	111	[2]	76	b-e	100	102	[2]	108	107	[4]
NIOBE (TR651) *	feed	78	b-f	111	111	[1]	69	e	90	90	[1]	100	100	[2]
ROBUST	6R malt	65	i	92	93	[2]	73	cde	95	92	[2]	94	93	[4]
SEEBE	feed	70	ghi	99	120	[7]	80	bc	105	111	[10]	102	116	[17]
TR256	feed	74	d-h	105	104	[2]	78	bcd	102	102	[2]	103	103	[4]
*TR359**	feed	74	c-h	105	105	[1]	73	cde	95	95	[1]	100	100	[2]
XENA	feed	84	ab	119	112	[3]	78	bcd	102	112	[4]	110	112	[7]
LSD (P=.05) =		7.51					7.64							
CV value (%) =		6.92					6.95							
Varieties not tested in 2002 (Averages 1989-2001)												Last Year Tested		
AC BOUNTIFUL	malt				103	[3]				107	[5]	(2001)	105	[8]
AC OXBOW	malt				114	[4]				98	[5]	(1998)	106	[9]
B1215	malt				102	[3]				105	[5]	(2000)	103	[8]
CDC FLEET	feed				101	[3]				83	[4]	(1999)	92	[7]
CDC STRATUS	malt				117	[5]				102	[8]	(2000)	110	[13]
CDC THOMPSON	malt(sd)				91	[5]				106	[7]	(2001)	98	[12]
MANLEY	malt				119	[5]				105	[5]	(1998)	112	[10]

Means followed by the same letter do not significantly differ (P=.05, LSD)

HARRINGTON - check variety

(sd) semi-dwarf variety

* first year tested, very limited data available

Hulless Barley — Yield as % of Harrington

Variety	Type	Dawson Creek 2002 Yield bus / acre		Dawson Creek 2002 Yield % of check	Dawson Creek 1993-2002 Avg. (%)	Dawson Creek 1993-2002 Stn. Yrs.	Fort St. John 2002 Yield bus / acre		Fort St. John 2002 Yield % of check	Fort St. John 1994-2002 Avg. (%)	Fort St. John 1994-2002 Stn. Yrs.	B.C. Peace 2002 Avg. (%)	B.C. Peace 1993-2002 Avg. (%)	B.C. Peace 1993-2002 Stn. Yrs.
AC BACON	6 row	60	b	113	99	[3]	66	bc	96	96	[5]	104	98	[8]
CDC FREEDOM	2 row	50	cd	95	86	[3]	58	e	84	79	[5]	90	82	[8]
CDC McGWIRE	2 row	57	b	108	102	[3]	67	b	98	95	[4]	103	99	[7]
CDC SILKY	6 row	44	e	82	96	[6]	60	de	87	89	[7]	84	93	[13]
FALCON	6 row	51	c	96	102	[7]	64	bcd	93	89	[9]	94	96	[16]
HARRINGTON	**2R malt**	**66**	**a**	**100**	**100**	**[7]**	**86**	**a**	**100**	**100**	**[9]**	**100**	**100**	**[16]**
PEREGRINE	6 row	35	f	65	77	[3]	52	f	75	76	[4]	70	76	[7]
TYTO (HB 513)	6 row	47	de	88	88	[1]	62	cde	90	90	[1]	89	89	[2]
LSD (P=.05) =		3.58					4.68							
CV value (%) =		4.75					4.96							
Varieties not tested in 2002 (Averages 1989-2001)												Last Year Tested		
AC HAWKEYE	6 Row				99	[3]				96	[3]	(1999)	98	[6]
CDC DAWN	2 row				94	[3]				94	[5]	(2000)	94	[8]
CDC GAINER	2 row				76	[2]				78	[4]	(2000)	77	[6]
CDC SPEEDY *	2 row									92	[1]	(2000)	92	[1]
CONDOR	2 Row				84	[5]				80	[5]	(1997)	82	[10]
HB 805	2 row				88	[2]				87	[3]	(2001)	88	[5]
JAEGER	6 row				88	[2]				93	[4]	(2000)	90	[6]
PHOENIX	2 Row				85	[5]				75	[5]	(1998)	80	[10]
TERCEL	2 row				75	[2]				85	[4]	(2000)	80	[6]

Feed Barley — Variety Descriptions

	Variety	Type	B.C. Peace 2001-02 ***Whole Head %Moist	1993-2002 B.C.Peace Averages Days to Maturity	Height cm	Bushel Weight lbs/bu	Protein % [st.yrs]	B.C. 2001-2002 0-9 scale (0=nil)** Scald	Net Blotch	Lodging (2001)	Alberta Agdex 100/32 Resistance to Root Rot	Loose Smut	False Smut	Distributor
	Eligible for General Purpose Grades Only													
	AC ALBRIGHT	6 row	-15.1	93	86	52	12.2 [2]	0.7	1.7		P	P	P	SeCan
■	AC HARPER	6 row	3.6	101	80	49	12.7 [4]	2.0	2.0	0.3	F	P	F	SeCan
■	AC LACOMBE	6 row	-0.2	99	85	50	11.7 [4]	1.4	1.5	0.6	P	P	G	SeCan
■	AC ROSSER	6 row	6.9	101	83	51	11.5 [4]	2.6	1.7	2.4	F	P	G	SeCan
	CDC DOLLY	2 row	2.3	101	75	55	13.0 [4]	1.9	2.4	0.1	F	P	G	SeCan
□	CDC HELGASON *	2 row	-1.9	96	82	55	12.9 [4]	2.0	2.3	0.1	F	G	G	SeCan
	*NIOBE (TR651)**	2 row	-2.6	91	63	54	13.7 [2]	0.7	1.5					SeCan
	SEEBE	2 row	12.2	104	88	54	14.2 [4]	0.8	2.2	0.8	P	P	G	SeCan
	TR 256	2 row	-4.1	94	80	54	12.6 [4]	2.9	1.7	0.0	P	G	G	Canterra
	*TR359**		-5.0	89	59	55	13.6 [2]	2.7	1.8					SeCan
□	TROCHU	6 row	2.6	97	82	52	11.3 [4]	1.8	1.2	0.3	G	P	G	SeCan
□	XENA	2 row	0.2	98	74	55	12.6 [4]	2.5	2.2	0.0	G	P	P	Agricore United
	Semi-dwarf varieties													
	CDC BOLD	2 row	1.8	99	69	55	13.0 [4]	0.9	2.4	0.0	F	P	G	Canterra
■	KASOTA	6 row	-5.6	97	71	52	12.3 [4]	1.6	3.4	0.0	F	P	G	SeCan
■	MAHIGAN	6 row	-3.2	97	68	52	12.6 [4]	1.8	3.6	0.0	F	P	G	SeCan
□	NISKA	6 row	9.0	102	70	53	11.3 [4]	1.2	1.4	0.8	P	P	G	Canterra
□	VIVAR	6 row	5.3	99	76	52	11.6 [4]	1.7	1.9	0.1	G	F	G	SeCan
	Forage varieties													
	AC RANGER	6 row	7.1	100	84	51	11.3 [4]	2.4	1.5	1.7				Brandon Res. Center
	Varieties not tested in 2002 (Averages 1989-2001)													
	AC STACEY	6 row		93	65	51.8					P	P	G	SeCan
	BRIDGE	2 row		99	70	54.6					F	P	F	SeCan
	BRIER	6 row		99	80	50.4					P	P	G	SeCan
	BRONCO	6 row		102	90	53.5					F	P	F	Value Added
	CDC EARL	6 row(sd)		101	69	50.2					F	P	G	SeCan
	CDC FLEET	2 row		97	77	55.3					P	P	P	Quality Assured
	DUKE	6 row(sd)		98	72	51.2					F	P	F	SeCan
	*GAMINE **	6 row		106	97	49	11.9 [2]	6.0	3.1	0.0				ProMark Seed
	JACKSON	6 row		92	66	52.3					P	P	P	SeCan
	JOHNSTON	6 row		102	77	51.5					P	P	P	SeCan
	LEDUC	6 row		97	77	50.0					F	F	G	SeCan
	OTAL	6 row		88	66	52.4					P	P	F	public
	STETSON	6 row(sd)		102	53	50.9					F	P	G	Agricore United
■	STANDER	6 row		103	77	53.1					F	P	F	Agricore United
	TUKWA	6 row(sd)		100	73	51.2					F	P	G	SeCan
	*WESTFORD **	6 row		102	112	47	11.25 [2]	3.4	2.4	0.3		P		Agricore United
	WINTHROP	2 row		100	75	55.2					P	P	G	Agricore United

□ Protection under Plant Breeders' Rights applied for

■ Protected by Plant Breeders' Rights

(sd) semi-dwarf variety

** 0 - 9 scale; 0 = none, 9 = 100% affected

EX = excellent, VG = very good, G = good

F = fair, P = poor (susceptible)

* first year tested, very limited data available

(no lodging present to record in 2002)

Note: ***Whole Head %Moisture = To accommodate a more accurate system of comparing maturity *between years* , maturity data (given as whole head % moisture), is now compared as *relative to the check (+ / -)* in a similar fashion as yield data. Whole head % moisture is a tangible (quantitative) measurement, not an assigned relative value (qualitative), and thus a more accurate value. The values displayed here show how much "wetter" or "drier" a given variety is as compared to the check variety, at the time of head collection. Head collection occurs when the earliest lines are below 20% moisture.

Malt Barley

Variety Descriptions

Variety	Type	2001-02 B.C. Peace ***% Moist. +/- of Check	1994-2002 B.C. Peace Averages Days to Maturity	Height cm	Bushel Weight lbs/bu	Protein % [st.yrs]	2001-02 B.C. Avr. 0-9 scale (0=nil)** Scald	Net Blotch	Lodging (2001)	Alberta Agdex 100/32 Resistance to Root Rot	Loose Smut	False Smut	Distributor
■ AC METCALFE	2 row	1.4	100	82	54.5	12.9 [4]	2.1	2.1	0.5	F	G	F	SeCan
B1602	6 row	-3.6	98	84	53.0	11.3 [2]	1.1	1.4	G	F	P	F	Agricore United
□ *BT954**	6 row	-3.8	88	68	51.9	12.4 [2]	2.3	1.0					Busch Ag
□ *CALDER (TR262)**	2 row	-1.2	90	59	54.1	13.1 [2]	1.7	1.4					SeCan
■ *CDC BATTLEFORD**	6 row	-0.6	91	68	52.1	11.6 [2]	1.0	1.0					Quality Assured
■ CDC COPELAND	2 row	1.7	99	81	54.1	12.4 [4]	3.4	2.1	0.3	F	P	G	SeCan
■ CDC KENDALL	2 row	-3.1	98	77	54.5	13.2 [4]	2.1	2.3	0.3	F	P	P	Agricore United
■ CDC SELECT(TR 153)	2 row	5.3	93	69	54.3	13.2 [2]	1.4	1.2		F	G	G	Agricore United
■ CDC SISLER	6 row	2.8	100	90	51.7	11.8 [2]	1.3	1.0	G	F	P	P	Agricore United
□ *CDC SPRINGSIDE (BT478)**	6 row	-0.5	91	71	51.4	11.3 [2]	1.3	1.4					Agricore United
□ *CDC TISDALE**	6 row	4.0	94	72	50.4	11.4 [2]	0.7	0.8					Quality Assured
EXCEL	6 row	4.9	99	81	51.7	11.7 [4]	2.4	1.6	0.7	F	P	G	Agricore United
HARRINGTON	**2 row**	0.0	100	74	54.3	12.9 **[8]**	4.0	2.8	0.8	**F**	**P**	**P**	SeCan
■ LEGACY	6 row	1.6	97	85	51.6	12.3 [4]	2.7	2.0	1.2	G	F	G	Agricore United
■ MERIT	2 row	11.0	102	75	54.4	12.1 [4]	2.3	2.2	0.0	F	P	G	Agricore United
□ NEWDALE (TR 258)	2 row	0.7	97	77	54.3	13.2 [4]	2.5	1.9	0.0	G	P	G	Quality Assured
ROBUST	6 row	1.5	96	81	52.9	13.2 [6]	2.1	1.9	1.1	F	F	F	Cargill
Varieties not tested in 2002 (Averages 1989-2001)													
AC BOUNTIFUL	2 row		102	85	54.8	12.5 [2]	4.0	2.6	0.3	F	G	G	Quality Assured
AC OXBOW	2 row		100	87	53.7				VG	F	G	F	SeCan
ARGYLE	6 row		96	93	50.8				G	F	P	P	SeCan
B1215	2 row		103	75	54.2				VG	F	P	F	Agricore United
BONANZA	6 row		95	77	50.2				P	F	P	P	public
CDC STRATUS	2 row		101	74	54.1				G	F	F	F	Quality Assured
CDC THOMPSON	2 row		103	59	55.4	12.4 [2]	1.8	3.7	0.0	F	P	G	Quality Assured
■ CDC YORKTON	6 row		103	71	52.4				G	G	P	G	Agricore United
DUEL	6 row		98	89	50.3				G	F	P	F	Agricore United
■ FOSTER	6 row		101	79	50.5				G		P		Agricore United
MANLEY	2 row		104	78	53.4				G	F	P	F	SeCan
STEIN	2 row		99	70	54.8				F	F	P	F	Agricore United
TANKARD	6 row		103	80	63.4				G	F	P	P	SeCan

Hulless Barley

Variety Descriptions

Variety	Type	2001-02 B.C. Peace ***%Moist. +/- of Check	1994-2002 B.C.Peace Averages Days to Maturity	Height cm	Bushel Weight lbs/bu	2001-2002 Average 0-9 scale (0=nil)** Scald	Net Blotch	Resistance to Root Rot	Loose Smut	False Smut	Distributor
AC BACON	6 row	0.5	99	81	60.7	2	1.5	F	P	G	SeCan
CDC FREEDOM	2 row	-1.5	98	86	63.1	3.7	2.5	F	P	G	SeCan
■ CDC McGWIRE	2 row	5.3	101	78	63.8	0.8	2.2	G	P	G	SeCan
CDC SILKY	6 row	5.5	102	76	59.8	1.3	1.3	F	F	F	Value Added
■ FALCON	6 row	2.1	99	66	61.9	1.3	2.1	F	P	G	Progres./SeCan
■ PEREGRINE	6 row	-2.7	97	58	62.1	2.2	2.3	F	P	F	Progressive
□ *TYTO (HB 513)**	6 row	-1.1	89	59	62.4	0.7	1.9				Progressive
Varieties not tested in 2002 (Averages 1989-2001)											
■ AC HAWKEYE	6 row		102	100	61.9			F	P	P	Agricore United
CDC DAWN	2 row		101	81	62.3			F	P	P	SeCan
CDC GAINER	2 row		97	81	62.4			F	P	F	Quality Assured
*CDC SPEEDY **	2 row			82	63.7						Value Added
HB 805	2 row		100.0	77	61	3.7	2.6				Agricore United
JAEGER	2 row		103	65	60.2			P	P	P	Progressive
PHOENIX	2 row		101	83	62.3			F	P	F	Progres./SeCan
TERCEL	6 row		99	76	61.7			F	P	F	Progressive

□ Protection under Plant Breeders' Rights applied for

■ Protected by Plant Breeders' Rights

(sd) semi-dwarf variety

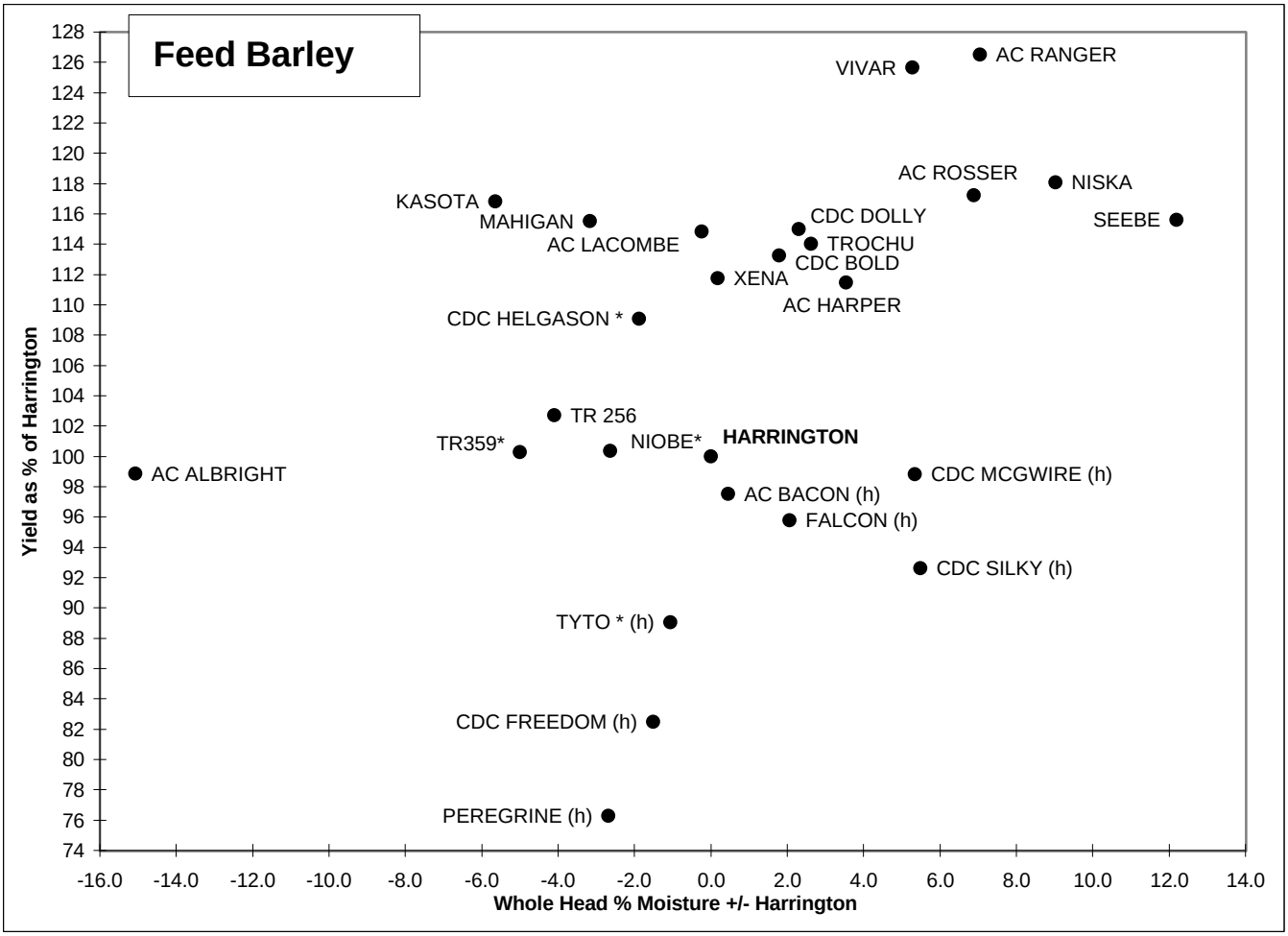
*** Whole Head %Moisture = see note bottom of page 14

EX = excellent, VG = very good, G = good

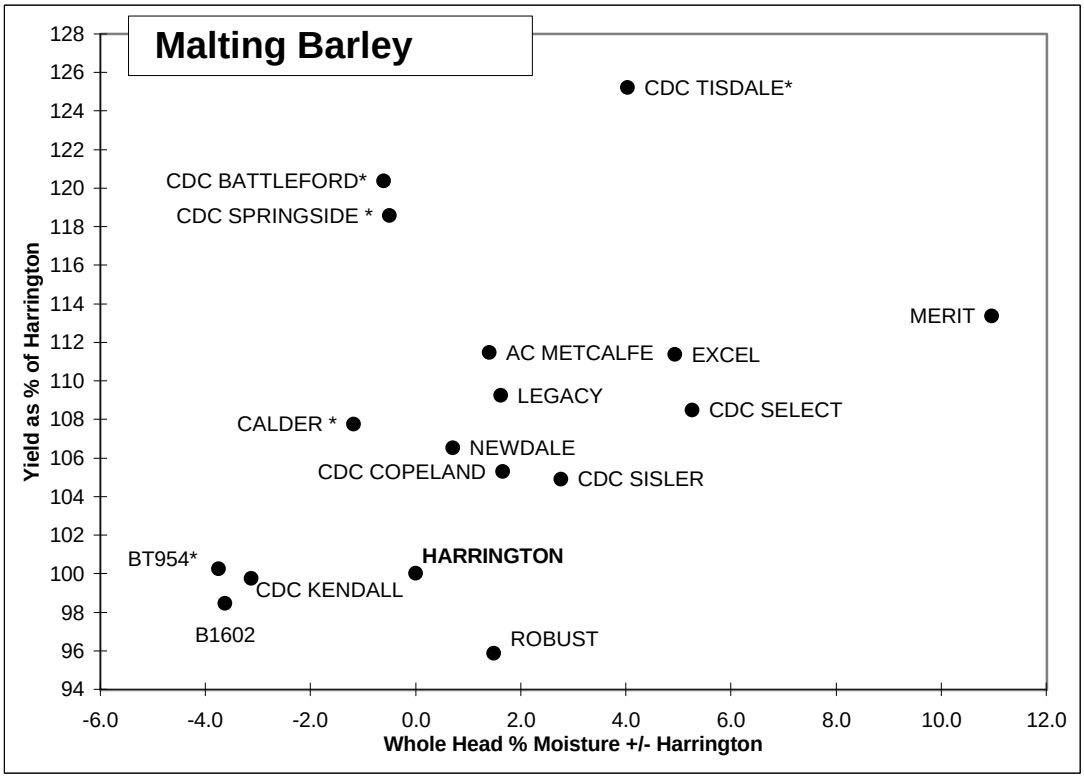
F = fair, P = poor (susceptible)

* first year tested, very limited data available

** 0 - 9 scale; 0 = none, 9 = 100% affected


Feed Barley
Yield as % of Harrington
Whole Head % Moisture +/- Harrington
VIVAR
AC RANGER
AC ROSSER
NISKA
KASOTA
MAHIGAN
CDC DOLLY
SEEBE
AC LACOMBE
TROCHU
CDC BOLD
XENA
AC HARPER
CDC HELGASON *
TR 256
TR359*
NIOBE*
HARRINGTON
AC ALBRIGHT
CDC MCGWIRE (h)
AC BACON (h)
FALCON (h)
CDC SILKY (h)
TYTO * (h)
CDC FREEDOM (h)
PEREGRINE (h)

(h) Hulless


Malting Barley
Yield as % of Harrington
Whole Head % Moisture +/- Harrington
CDC TISDALE*
CDC BATTLEFORD*
CDC SPRINGSIDE *
MERIT
AC METCALFE
EXCEL
LEGACY
CDC SELECT
CALDER *
NEWDALE
CDC COPELAND
CDC SISLER
BT954*
HARRINGTON
CDC KENDALL
B1602
ROBUST

OATS

Oats are usually a feed crop but some varieties are also suitable for higher value feed and food markets. The milling industry prefers higher protein varieties with plump kernels and lower hull content, while the horse industry prefers white hulled varieties. Hulless oat varieties have excellent feed and food value but need to be stored drier than normal varieties (<12% moisture) and do not flow as well in the bin due to their pubescence (hairs), which seem to "lock together". Yield values for hulless oat varieties are expressed after hull removal, which reduces the seed weight by 20-25% compared to the normal varieties. Keep this in mind while comparing yields of hulless oats to hulled varieties.

Oats — Yield as % of Cascade

Variety	Colour	Dawson Creek 2002 Yield bus / acre		Dawson Creek 2002 Yield % of check	Dawson Creek 1993-2002 Avg. (%)	Dawson Creek 1993-2002 Stn. Yrs.	Fort St. John 2002 Yield bus / acre		Fort St. John 2002 Yield % of check	Fort St. John 1994-2002 Avg. (%)	Fort St. John 1994-2002 Stn. Yrs.	B.C. Peace 2002 Avg. (%)	B.C. Peace 1993-2002 Avg. (%)	B.C. Peace 1993-2002 Stn. Yrs.
AC ASSINIBOIA	tan	76	c	86	86	[4]	108	b	88	88	[8]	87	87	[12]
AC GWEN (OT 297) (h)	white	44	d	79	75	[2]	66.2	c	86	81	[3]	82	78	[5]
AC JUNIPER	white	73	c	82	106	[5]	124	ab	101	102	[9]	92	104	[14]
AC MORGAN	white	90	a	101	112	[3]	136	a	111	108	[4]	106	110	[7]
AC MUSTANG	white	91	a	103	107	[6]	127	ab	104	106	[10]	103	107	[16]
AC RONALD	yellow	82	abc	93	93	[2]	116	b	95	96	[2]	94	95	[4]
BOUDRIAS (OT 799) (h)	white	52	d	93	84	[2]	70.8	c	92	85	[2]	92	85	[4]
CASCADE	**yellow**	**88**	**ab**	**100**	**100**	**[6]**	**123**	**ab**	**100**	**100**	**[10]**	**100**	**100**	**[16]**
CDC BOYER	yellow	73	c	82	100	[6]	116	b	95	97	[9]	88	98	[15]
CDC DANCER	yellow	76	c	86	90	[2]	111	b	90	95	[3]	88	92	[5]
*CDC ORRIN**	white	93	a	105	105	[1]	127	ab	104	104	[1]	104	104	[2]
DERBY	white	72	c	81	97	[5]	124	ab	101	97	[9]	91	97	[14]
KAUFMANN (OT 797)	yellow	76	c	86	88	[2]	114	b	93	90	[3]	90	89	[5]
OT 7001	yellow	77	bc	87	91	[2]	116	b	94	97	[2]	91	94	[4]
*OT 7008** (h)	white	41	d	73	73	[1]	63.3	c	82	82	[1]	78	78	[2]
PINNACLE	yellow	91	a	103	105	[3]	118	ab	96	99	[4]	99	102	[7]
SW EXACTOR	white	81	abc	92	109	[3]	113	b	93	103	[5]	92	106	[8]
LSD (P=.05) =		12.05					19.63							
CV value (%) =		9.65					12.46							

Varieties not tested in 2002 (Averages 1989-2001)

Variety	Colour	1993-2002 Avg. (%)	1993-2002 Stn. Yrs.	1994-2002 Avg. (%)	1994-2002 Stn. Yrs.	Last Year Tested	B.C. Peace 1993-2002 Avg. (%)	B.C. Peace 1993-2002 Stn. Yrs.
AC ANTOINE		117	[1]	96	[2]	(2000)	107	[3]
AC BELMONT (h)		75	[4]	78	[8]	(2000)	76	[12]
AC ERNIE (h)		71	[1]	65	[2]	(1999)	68	[3]
AC HILL (h)		53	[3]	56	[4]	(1995)	55	[7]
AC MARIE		100	[3]	97	[5]	(1995)	99	[8]
AC MEDALLION		116	[2]	94	[5]	(2000)	105	[7]
AC PREAKNESS		113	[4]	102	[8]	(2000)	108	[12]
AC REBEL	yellow	104	[2]	93	[3]	(2001)	99	[5]
ATHABASCA		88	[4]	92	[2]	(1992)	90	[6]
BULLION (h)	white	73	[2]	70	[3]	(2001)	72	[5]
CALIBRE		97	[6]	105	[5]	(1995)	101	[11]
CDC PACER		103	[2]	100	[5]	(2000)	101	[7]
FOOTHILL		90	[4]	91	[2]	(1992)	91	[6]
GRIZZLY		90	[4]	87	[2]	(1992)	89	[6]
JASPER		105	[4]	96	[8]	(2000)	101	[12]
ROBERT		95	[6]	95	[4]	(1994)	95	[10]
TERRA (h)		67	[6]	68	[5]	(1995)	68	[11]
TRIPLE CROWN		110	[2]	100	[3]	(2000)	105	[5]
WALDERN		108	[5]	109	[5]	(1995)	109	[10]

Means followed by the same letter do not significantly differ (P=.05, LSD)

* first year tested, very limited data available

CASCADE - check variety

(h) hulless variety

Oats — Variety Descriptions

Variety	Type	BC Peace Avg. (1994-2002) Days to Maturity	***2002 Whole Head +/-%moist	Height cm	Bushel Weight lbs/bu	2001 Avg** Lodging 0-9 scale (0=nil)**	Resistance to Shatter	Resistance to Smuts	Distributor
■ AC ASSINIBOIA	milling	110	4.0	97	40	0.8	G	F	SeCan
AC GWEN (OT 297)	hulless	123	11.6	106	47	0.1		G	SeCan
■ AC JUNIPER	milling	108	-4.5	97	42	0.3	G	F	Agricore United
AC MORGAN	milling	113	3.1	94	42	0		F	SeCan
AC MUSTANG	feed / forage	109	4.4	106	43	0.8	G	F	Agricore United
□ AC RONALD	milling	116	4.2	90	45	0.3		G	SeCan
□ BOUDRIAS (OT 799)	hulless	119	11.9	104	45	0.3			Quality Assured
CASCADE	**feed**	109	0.0	106	40	**1.4**	**G**	**P**	**SeCan**
CDC BOYER	milling	109	4.9	103	40	0.8	G	P	SeCan
■ CDC DANCER	milling	113	-2.7	103	43	1.8		G	Cargill
■ *CDC ORRIN* *	milling	111	3.9	82	44				Quality Assured
DERBY	milling	108	5.2	101	42	G	G	P	AU/Proven Seed
□ KAUFMANN (OT 797)	milling	120	8.0	109	42	0.8			SeCan
OT 7001	feed	110	-2.6	99	44	0.1			Kibite
OT 7008 *	hulless	115	13.8	81	44				Kibite
□ PINNACLE	milling	115	7.7	94	41	2.8		G	Quality Assured
■ SW EXACTOR	milling	112	4.2	95	40	0.3		F	Quality Assured
Varieties not tested in 2002 (Averages 1989-2001)									
AC ANTOINE	milling	106		85	39.2	G		F	Quaker Oats
AC BELMONT	hulless	109		94	41.1	G	G	G	SeCan
AC ERNIE	hulless	108		85	42.4	F		G	
AC HILL	hulless	106		106	44.7	G	G	G	SeCan
AC MARIE	gen.purpose	109		100	38.6	G	G	G	SeCan
AC MEDALLION	milling	109		97	39.7	F		VG	Cargill
■ AC PREAKNESS	milling	108		101	39.9	F	G	G	Proven Seed
■ AC REBEL	milling	114		95	42	0.2		G	Canterra Seeds
ATHABASCA	feed	103		87	40.3	G	G	P	SeCan
□ BULLION	hulless	113		90	51	0		P	Agricore United
CALIBRE	milling	109		100	42.0	F	G	P	SeCan
CDC PACER	milling	108		93	41.5	F	G	F	Value Added
FOOTHILL	forage	105		99	39.0	F	G	P	SeCan
GRIZZLY	feed / forage	107		90	40.5	F	G	P	public
JASPER	milling	105		104	41.8	F	G	P	SeCan
ROBERT		106		93	39.8	G	G	G	SeCan
TERRA	hulless	108		97	42.6	G	G	P	
■ TRIPLE CROWN	milling	108		92	38.5	VG		G	Canterra
WALDERN	feed	107		106	39.7	G	G	P	SeCan

CASCADE - check variety

EX = excellent, VG = very good, G = good, F = fair, P = poor (susceptible)

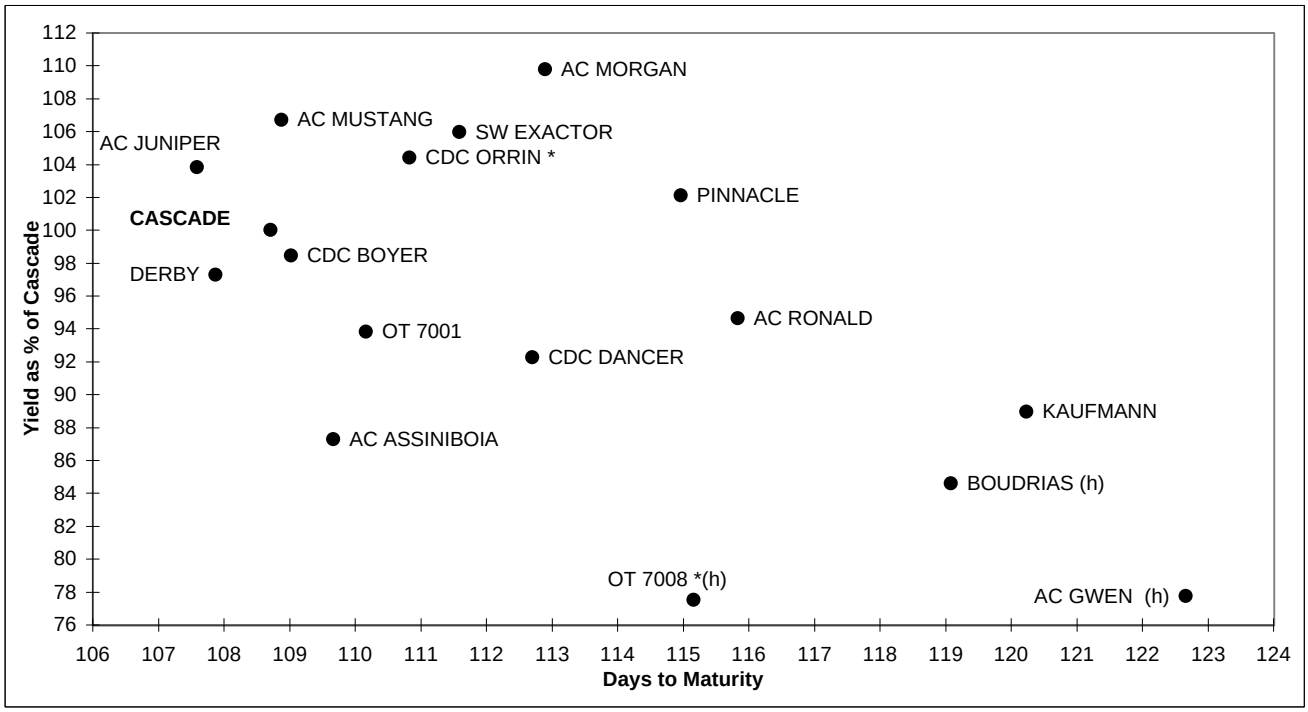
* first year tested, very limited data available

** 0 - 9 scale; 0 = none, 9 = 100% affected; no lodging occurred in 2002.

■ Protected by Plant Breeders' Rights

□ Protection under Plant Breeders' Rights applied for

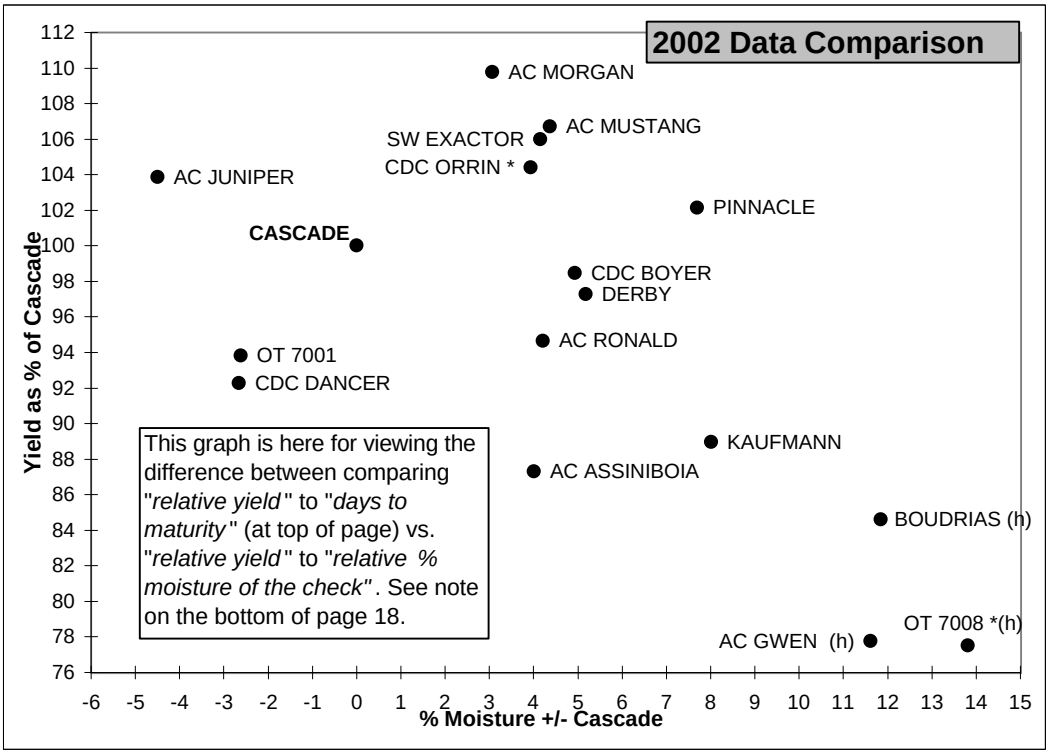
Note: ***Whole Head +/- %Moisture = To accommodate a more accurate system of comparing maturity *between years*, maturity data, is now being tested with oats to see if it can be applied to oat panicums (heads) in a similar fashion as it is now for barley and wheat heads, (see pages 7 & 11). This data is displayed above for the first time this year, and makes comparisons *relative to the check (+ / -)* in a similar fashion as yield data. Whole head % moisture is a tangible (quantitative) measurement, not an assigned relative value (qualitative), and thus should be a more accurate value. The difference is oat "heads" have a lot more tissue to seed ratio then barley or wheat. However, according to 2002 data collected and displayed above, the relationship between "days to" and "whole head + / - % moisture" seems to be good. Whole head + / - % moisture values display how much "wetter" or "drier" a given variety is as compared to the check variety, at the time of head collection. Head collection occurs when the earliest lines are below 20% moisture. The assumption is that everyone knows the abilities and or inabilities of the check variety for our area, and thus can derive how much later or earlier maturing a given variety is, based on whole head % moisture. Note this new column and corresponding graph is *one year data only*, and is displayed for interest only at this time.



Oats are often sown to provide fodder in the form of silage or greenfeed. Oats will yield more silage or greenfeed per unit area than any other cereal crop. If managed properly, it can provide 3-4.5 tons of dry matter per acre, or more, of high quality feed containing up to 10 per cent protein. Many years of comparing yields of oats with barley have shown oats to be superior in the Black and Grey Wooded soil zones. Although the per cent protein level in barley is higher than in oats, the total amount of protein produced on a given area is higher with oats than with barley. Oats have about 22-26 per cent hull whereas barley averages about 12-14 per cent hull on a weight basis. When choosing a variety, the seed yield as well as the forage yield should be considered, thereby keeping one's options open to harvest as forage or grain. It is believed by some farmers that one variety might be better than another because it appears leafier; however, tests on a number of varieties have shown very little variation in leafiness.

On heavier soils and in the more moist areas, lodging resistance should be considered. The variation in straw feed quality between oat varieties is insignificant and should not be used as a variety selection criterion. The average feed values are: protein 4%, fibre 49%, calcium 0.27%, and phosphorus 0.08%.

Source: Alberta Agriculture, Food, and Rural Development website www.agric.gov.ab.ca



SPRING TRITICALE

Triticale is a genetic cross (not a hybrid) developed by crossing wheat (Triticum turgidum or Triticum aestivum) with rye (Secale cereal). All varieties of spring triticale currently available are approximately 10 days later maturing than CWRS wheats, and as such they should not be grown in the B.C. Peace River region for grain production. All three varieties entered here in this trial are earlier than other traditional spring triticale varieties, and perhaps as breeding continues earlier lines may come along that we can grow for grain here. Their grain yields are "attention grabbers", and so it is worth watching their development. Drought tolerance is the primary advantage that spring triticales have over other spring cereal crops. Spring triticales are also a valuable alternative to barley & oats forage and feed. It is for these reasons that data is included.

Spring Triticale — Yield as % of Pronghorn

Variety	Dawson Creek 2002 Yield bus / acre		Dawson Creek 2002 Yield % of check	Dawson Creek 2001-2002 Avg. (%)	Dawson Creek 2001-2002 Stn. Yrs.	Fort St. John 2002 Yield bus / acre		Fort St. John 2002 Yield % of check	Fort St. John 2001-2002 Avg. (%)	Fort St. John 2001-2002 Stn. Yrs.	B.C. Peace 2002 Avg. (%)	B.C. Peace 2001-2002 Avg. (%)	B.C. Peace 2001-2002 Stn. Yrs.
*AC ALTA**	71.9	c	88	88	[1]	80.2	c	90	90	[1]	89	89	[2]
*AC CERTA**	75.1	bc	92	92	[1]	86.6	b	97	97	[1]	94	94	[2]
AC ULTIMA	79.4	ab	97	106	[2]	91.7	a	103	102	[2]	100	104	[4]
PRONGHORN	81.7	a	100	100	[2]	89.3	ab	100	100	[2]	100	100	[4]
LSD (P=.05) =	5.83					4.88							
CV value (%) =	4.73					3.51							
Varieties not tested in 2002 (Averages 2001)											Last Year Tested		
SANDRO				104	[1]				97	[1]	100 (2001)		[2]

Means followed by the same letter do not significantly differ (P=.05, LSD)

* first year tested, very limited data available

PRONGHORN - check variety

Spring Triticale — Variety Descriptions

Variety	Maturity (days to)	Whole Head % Moist.	Height (cm)	Bushel Weight (lbs/bus)	TKW (g / 1000)	0 - 9 scale; 0=nil Septoria complex	0 - 9 scale; 0=nil Ergot	Distributor
*AC ALTA *	118	7	81	51	56	3.0		Progressive
*AC CERTA *	113	-1	92	59	45	2.3		Progressive
AC ULTIMA	124	-7	106	59	53	3.2	0.6	Quality Assured
PRONGHORN	128	0	108	57	49	3.1	0.3	Progressive
Varieties not tested in 2002 (Averages 2001)								
SANDRO	148		117	58	50	1.5	3.1	Promark Seed

SOFT WHITE SPRING WHEAT

Soft White Spring Wheat — Yield as % of AC Reed

Variety	Dawson Creek 2002 Yield bus / acre		Dawson Creek 2002 Yield % of check	Fort St. John 2002 Yield bus / acre		Fort St. John 2002 Yield % of check	B.C. Peace 2002 Averages Yield Avg. (%)	Stn. Yrs.	Days to Maturity	Whole Head % Moist.	Bushel Weight lb/bu	Height (cm)	Distributor
*AC ANDREW (SWS 241)**	66.1	a	115	77	a	119	117	[2]	109	8.3	62	69	SeCan
*AC MEENA (SWS 234)**	66.1	a	115	77	a	119	117	[2]	109	7.6	63	70	Haney Farms
*AC NANDA**	60.6	b	106	69	b	105	106	[2]	112	12.9	62	70	Quality Assured
*AC PHIL**	61.6	ab	108	65	b	100	104	[2]	104	-0.2	62	63	Proven Seeds
AC REED*	57.3	b	100	65	b	100	100	[2]	104	0	62	66	SeCan
LSD (P=.05) =	5.36			5.26									
CV value (%) =	5.58			4.83									

Means followed by the same letter do not significantly differ (P=.05, LSD)

* first year tested, very limited data available

AC Reed - check variety

2002 is the first year of testing Soft White Spring Wheat in the BC Peace and data is presented for interest sake only. Based on our observations made in 2002 only, it appears maturity is inappropriate for our area at present. More testing will be needed however to verify this statement.