

# 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.

<b>CWRS Wheat</b>		<b>Yield as % of Katepwa</b>										
Variety	Dawson Creek					Fort St. John				B.C. Peace		
	2004 Yield		1994-2004			2004 Yield		1994-2004		2004	1994-2004	
	bus / acre	% of Check	Avg. (%)	Station Years	bus / acre	% of Check	Avg. (%)	Station Years	Avg. (%)	Avg. (%)	Station Years	
5500 HR	40 b-f	121	107	[5]	62 abc	108	101	[6]	115	104	[11]	
5601HR	41 a-e	124	105	[3]	60 a-e	105	100	[3]	115	102	[6]	
5602HR (BW 297)*	35 f-j	108	108	[1]	54 e-h	93	93	[1]	101	101	[2]	
AC Barrie	43 abc	133	104	[8]	58 b-g	100	95	[11]	117	100	[19]	
AC Intrepid	37 e-i	113	104	[6]	59 b-f	102	103	[8]	108	103	[14]	
AC Splendor	38 d-h	116	100	[7]	56 c-h	97	95	[9]	107	97	[16]	
Alikat	35 f-j	109	100	[5]	54 f-i	93	96	[6]	101	98	[11]	
CDC Go (BW 781)	34 g-j	105	103	[2]	52 ghi	91	94	[2]	98	98	[4]	
CDC Imagine	34 hij	104	105	[4]	56 c-h	98	102	[4]	101	104	[8]	
CDC Osler (PT555)	35 f-j	107	103	[2]	56 c-h	98	100	[2]	102	101	[4]	
CDC Teal	35 g-j	106	102	[7]	56 c-h	97	96	[10]	102	99	[17]	
Harvest	36 e-j	111	102	[4]	54 e-h	93	96	[4]	102	99	[8]	
Infinity (BW 799)*	42 a-d	128	128	[1]	60 a-f	103	103	[1]	116	116	[2]	
Journey	37 e-i	113	106	[4]	57 b-h	99	94	[4]	106	100	[8]	
Kanata**	34 hij	103	86	[4]	47 i	82	84	[5]	92	85	[9]	
<b>Katepwa</b>	<b>33 ij</b>	<b>100</b>	<b>100</b>	<b>[8]</b>	<b>58 b-g</b>	<b>100</b>	<b>100</b>	<b>[11]</b>	<b>100</b>	<b>100</b>	<b>[19]</b>	
Lillian	35 f-j	107	106	[2]	59 b-g	102	104	[2]	104	105	[4]	
Lovitt	38 d-h	117	117	[2]	55 d-h	96	96	[2]	106	106	[4]	
McKenzie	41 a-e	125	108	[5]	62 a-d	107	102	[7]	116	105	[12]	
Park	32 j	97	97	[8]	51 hi	88	88	[6]	92	92	[14]	
Peace (PT 416)*	37 d-i	114	114	[1]	56 c-h	97	97	[1]	106	106	[2]	
Prodigy	44 ab	134	117	[5]	56 c-h	98	99	[7]	116	108	[12]	
Snowbird**	37 d-i	114	106	[4]	61 a-d	105	98	[5]	109	102	[9]	
Superb	45 a	138	117	[4]	66 a	114	109	[4]	126	113	[8]	
LSD (P=.05) =	4.78				6.62							
CV value (%) =	9.05				8.19							
<b>Varieties not tested in 2004 (1989 - 2003)</b>								<b>Last Year Tested</b>				
5600 HR			103	[3]			108	[4]	( 2002 )	106	[7]	
AC Abbey			104	[4]			110	[6]	( 2002 )	107	[10]	
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 Elsa			110	[5]			107	[7]	( 2002 )	109	[12]	
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]	
CDC Bounty			103	[4]			103	[5]	( 2003 )	103	[9]	
CDC Makwa			100	[6]			100	[7]	( 1995 )	100	[13]	
Columbus			97	[7]			99	[3]	( 1992 )	98	[10]	
Laura			101	[4]			105	[7]	( 2000 )	103	[11]	
Neepawa			97	[9]			101	[8]	( 1996 )	99	[17]	
Pasqua			99	[4]			93	[6]	( 1995 )	96	[10]	
Roblin			95	[6]			95	[9]	( 2003 )	95	[15]	

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

\* first year tested, very limited data available

\*\*HWSW Hard White Spring Wheat

**Katepwa - check variety**

# CWRS Wheat

## Variety Descriptions

Variety	B.C.Peace Averages 1994-2004					BC Peace 2001-02			Alberta Agdex 100/32						Distributor
	Whole Head		Bushel			0-9 scale (0=nil)**			Resistance to:				Tolerance to:		
	Moist.	+/- check***	Height cm	Weight lbs/bu	Protein % [st.yrs]	Septoria complex	Powdery Mildew	Lodging	Shatter	Loose Smut	Common Bunt	Leaf Spot	Sprouting	FHB	
■ 5500 HR	28.6	2.9	84	65	13.5 [9]	3.8	1.8	F	G	I	I	P	G	F	Agricore United
■ 5601HR	34.1	3.4	81	63	13.7 [6]	2.0		G	G	I	I	P	F	F	Agricore United
■ 5602HR (BW 297)*	36.7	9.2	72	62	13.0 [2]			G	G	R	R	P	XX	F+	Agricore United
■ AC Barrie	25.0	2.8	88	63	13.9 [9]	3.7	2.8	G	G	R	R	P	G	F	SeCan
■ AC Intrepid	22.9	-1.0	88	63	13.2 [9]	3.8	1.2	G	G	I	R	F	P	P	Canterra
■ AC Splendor	21.7	-1.4	87	62	14.0 [9]	3.8	1.4	F	G	I	I	F	F	P	SeCan
Alikat	23.3	-2.4	83	63	13.8 [9]	5.5	2.6	F	G	R	R	P	F	F	Canterra
CDC Go (BW 781)	28.7	1.2	68	63	14.4 [4]			G	G	S	I	P	P	F	U of S
■ CDC Imagine	28.0	-0.7	83	63	13.5 [8]	3.6	1.0	G	G	R	R	P	F	P	Sask Wheat Pool
CDC Osler (PT 555)	26.3	-1.3	70	63	13.8 [4]			G	G	R	I	XX	F	P	U of S
CDC Teal	21.5	-0.6	77	63	13.9 [6]	2.3		G	G	I	I	P	P	VP	Quality Assured Seeds
■ Harvest	27.5	-1.3	82	64	14.1 [8]	5.0	0.6	VG	G	R	S	P	EX	VP	Quality Assured Seeds
■ Infinity (BW 799)*	31.7	4.2	63	62	12.0 [2]			G	G	R	R	P	G	P	Canterra
■ Journey	33.2	4.4	81	64	14.7 [8]	3.3	2.0	VG	G	I	R	F	G	F	Sask Wheat Pool
■ Kanata***	28.5	-0.2	81	64	13.7 [9]	3.9	1.4	G	G	I	S	P	G	F	Quality Assured Seeds
<b>Katepwa</b>	<b>22.2</b>	<b>0.0</b>	<b>91</b>	<b>62</b>	<b>13.4 [9]</b>	<b>4.0</b>	<b>1.4</b>	<b>F</b>	<b>G</b>	<b>R</b>	<b>R</b>	<b>P</b>	<b>F</b>	<b>F</b>	<b>SeCan</b>
■ Lillian	26.9	-0.7	77	63	13.6 [4]			G	G	R	I	P	G	VP	SeCan
■ Lovitt	32.9	0.7	73	62	12.8 [4]	2.7		G	G	G	I	XX	VG	P	Canterra
McKenzie	21.2	-0.5	87	63	12.9 [7]	3.9	2.3	F	G	S	R	P	EX	F	Agricore United
Park	24.4	2.1	79	63	12.6 [2]			F	G	R	I	P	G	VP	Stock Seed Distribution
Peace (PT 416)*	32.8	5.3	68	61	12.4 [2]			XX	XX	XX	XX	XX	XX	XX	Canterra
■ Prodigy	27.4	2.4	88	64	13.7 [9]	2.6	3.3	G	F	I	R	P	F	VP	Sask Wheat Pool
■ Snowbird***	30.0	1.2	88	63	13.2 [9]	3.9	0.4	G	G	R	S	P	G	P	Quality Assured Seeds
■ Superb	34.0	5.2	81	63	12.9 [8]	4.2	0.4	G	G	I	R	P	G	P	SeCan
Varieties not tested in 2004 ( Averages 1989-2003 )															
■ 5600 HR	27.8	3.1	96	64.1	12.7 [5]	2.9	3.6	G	G	R	R	P	G	P	Agricore United
■ AC Abbey	22.4	-0.1	84	62.7	12.6 [5]	3.7	0.6	F	G	I	R	P	P	F	Semiarid Prairie Ag
■ AC Cadillac	20.3		99	62.8	13.5 [3]	3.9	0.7	F	G	R	R	F	F	F	Quality Assured Seeds
AC Cora	17.6		93	61.6	13.3			F	G	R	R	G	F	F	SeCan
AC Domain	19.5		85	62.4	14.2			VG	G	G	G		F		SeCan
■ AC Eatonia	23.1		92	61.1	12.9			P	G	I	R	P	G	XX	Agricore United
■ AC Elsa	24.8	3.1	88	61.0	13.8 [5]	2.7	0.8	G	G	R	I	G	F	P	SeCan
■ AC Majestic	23.2		96	61.8	12.7 [3]	2.2	2.3	G	F	I	R	P	EX	F	SeCan
AC Michael	18.5		93	60.6	12.8			F	G	R	I	XX	F	P	SeCan
AC Minto	14.6		94	62.5				G	G	G	G		F		SeCan
CDC Bounty	26.1	0.8	92	65.4	13.7 [7]	3.7	1.3	F	G	R	I	P	F	F	Canterra
CDC Makwa	14.9		89	61.9				G	G	G	F		P		SeCan
Columbus	25.5		88	63.2				G	G	F	G		F		SeCan
Laura	24.1		92	61.1	13.0			G	G	F	P		F		SeCan
Neepawa	20.0		91	60.9				G	G	G	F		F		AB Stock Seed Distri. Comm
Pasqua	15.8		87	61.8				G	G	P	F		P		SeCan
Roblin	20.9	-0.5	73	62.8	15.1 [4]	4.2		VG	G	G	P		F		SeCan

\* first year tested, very limited data available

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

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

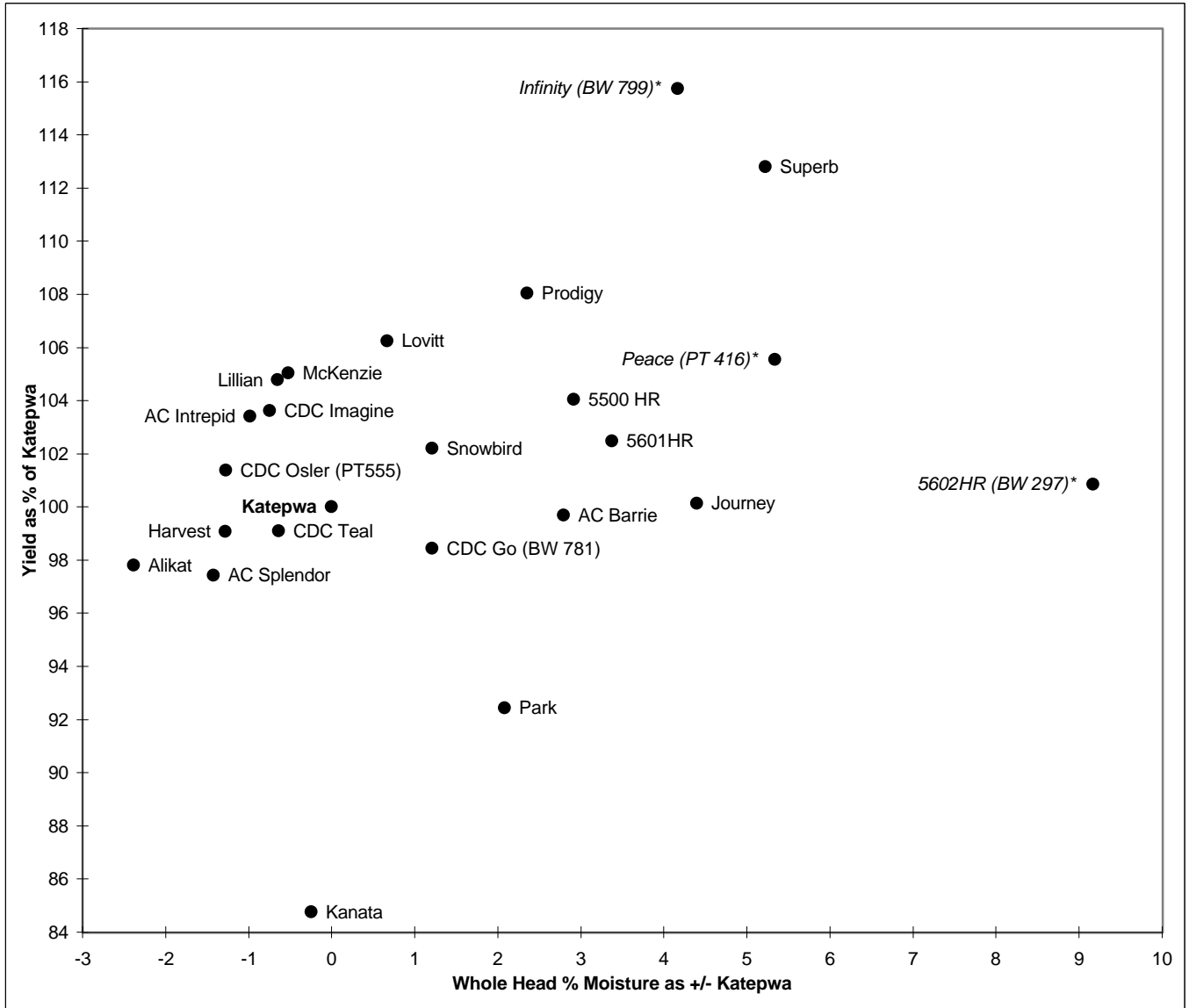
F = fair, P = poor (susceptible), VP = very poor

\*\*\*HWSW Hard White Spring Wheat

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Disease Rating: R = Resistant, I = Intermediate, S = Susceptible

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.



\* first year tested, very limited data available

## 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										
Variety	Type	Dawson Creek				Fort St. John				B.C. Peace		
		2004 Yield		1993-2004		2004 Yield		1994-2004		2004	1993-2004	
		bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
5700PR	CPS red	50 ab	101	100	[5]	72 b	106	100	[6]	104	100	[11]
5701PR	CPS red	41 de	81	104	[3]	65 cd	96	92	[4]	89	98	[7]
AC Crystal	CPS red	47 abc	94	104	[7]	67 c	100	97	[9]	97	100	[16]
AC Foremost	CPS red	51 a	102	99	[8]	64 cd	95	99	[10]	98	99	[18]
<b>AC Taber</b>	<b>CPS red</b>	<b>50 ab</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>67 bc</b>	<b>100</b>	<b>100</b>	<b>[11]</b>	<b>100</b>	<b>100</b>	<b>[20]</b>
AC Barrie	CWRS	45 bcd	90	89	[4]	55 e	82	76	[4]	86	82	[8]
Katepwa	CWRS	36 e	71	84	[4]	53 e	79	76	[4]	75	80	[8]
		LSD (P=.05) = 5.60				4.47						
		CV value (%) = 8.65				4.79						
Varieties not tested in 2004 ( Averages 1989-2003 )										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

CPS & CWES grown together in same trial.

CWES Wheat		Yield as % of AC Taber										
Variety	Type	Dawson Creek				Fort St. John				B.C. Peace		
		2004 Yield		1993-2004		2004 Yield		1994-2004		2004	1993-2004	
		bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
<b>AC Taber</b>	<b>CPS red</b>	<b>50 ab</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>67 bc</b>	<b>100</b>	<b>100</b>	<b>[11]</b>	<b>100</b>	<b>100</b>	<b>[20]</b>
Amazon	CWES	35 e	71	92	[5]	61 d	91	84	[7]	81	88	[12]
AC Barrie	CWRS	45 bcd	90	89	[4]	55 e	82	76	[4]	86	82	[8]
Katepwa	CWRS	36 e	71	84	[4]	53 e	79	76	[4]	75	80	[8]
		LSD (P=.05) = 5.60				4.47						
		CV value (%) = 8.65				4.79						
Varieties not tested in 2004 ( Averages 1989-2003 )										Last Year Tested		
AC Corrine	CWES			102	[1]			95	[3]	(2000)	99	[4]
Bluesky	CWES			93	[5]			90	[7]	(2000)	92	[12]
CDC Rama	CWES			105	[2]			81	[2]	(2002)	93	[4]
Glenavon	CWES			101	[3]			87	[4]	(2003)	94	[7]
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 1994-2004					B.C. Peace 2001-02		Data Alberta Agdex 100/32							Distributor	
		***Whole Head		Height cm	Bushel Weight lbs/bu	Protein % [st.yrs]	0-9 scale (0=nil)**		Resistance to:								
		Moist.	+/- check***				Septoria complex	Powdery Mildew	Lodging	Shatter	Root Rot	Loose Smut	Common Bunt	Tolerance to:			
■ 5700PR	CPS red	29.8	-1.3	72	67	11.9 [8]	3.65	0.88	EX	G	F	S	R	P	P	VP	Agricore United
■ 5701PR	CPS red	36.0	-0.6	70	62	12.2 [6]	3.33		G	G		I	S	P	P	VP	Agricore United
■ AC Crystal	CPS red	28.5	1.2	76	66	11.7 [8]	2.35	1.76	G	G	P	I	R	F	P	VP	SeCan
AC Foremost	CPS red	22.8	-2.1	68	62	12.0 [6]		3	EX	G	F	R	R	P	F	VP	SeCan
<b>AC Taber</b>	<b>CPS red</b>	<b>25.6</b>	<b>0.0</b>	<b>78</b>	<b>64</b>	<b>11.7 [8]</b>	<b>2.43</b>	<b>1.44</b>	<b>G</b>	<b>G</b>	<b>F</b>	<b>S</b>	<b>R</b>	<b>F</b>	<b>P</b>	<b>VP</b>	<b>SeCan</b>
■ Amazon	CWES	32.0	2.0	95	66	13.0 [8]	3.36	1.25	G	G	I	R	I	F	P	P	Canterra
■ AC Barrie	CWRS	31.0	-4.5	82	64	13.8 [8]	4.58	3.07	G	G	F	R	R	P	G	F	SeCan
Katepwa	CWRS	27.9	-7.6	90	62	12.8 [9]	4.03	1.44	F	G	F	R	R	P	F	F	SeCan
<u>Varieties not tested in 2004 ( Averages 1989-2003 )</u>																	
AC Corrine	CWES	27.4		91	61				G	G	I	R	I	F	P	P	Quality Assured
■ AC Karma	CPS white	15.8		83	62				G	G	F	I	R	P	P	VP	SeCan
■ AC Vista	CPS white	18.9		88	68	10.1 [2]	2.94	2.63	G	G	F	I	R	P	P	P	Quality Assured
Bluesky	CWES	17.8		99	61				F	G	R	R	I	P	P	P	SeCan
CDC Rama	CWES	38.2	-0.1	98	80	13.7 [4]	2.9	0.94									Quality Assured
Cutler	CPS red	13.9		77	62				G	G	F	S	S	P	F	VP	U of A
■ Glenavon	CWES	35.1	-0.3	101	70	12.7 [6]	3.06	1.07	G	G	I	R	I	P	P	P	SeCan
Glenlea	CWES	24.6		102	61				G	G	R	R	I	P	G	P	AB Stock Seed Comm.
■ Laser	CWES	18.1		90	61				EX	G	I	R	I	P	F	P	Canterra
Wildcat	CWES	16.0		89	59				F	G	F	G	P		F		SeCan

\* first year tested, very limited data available

### AC Taber - check variety

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

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

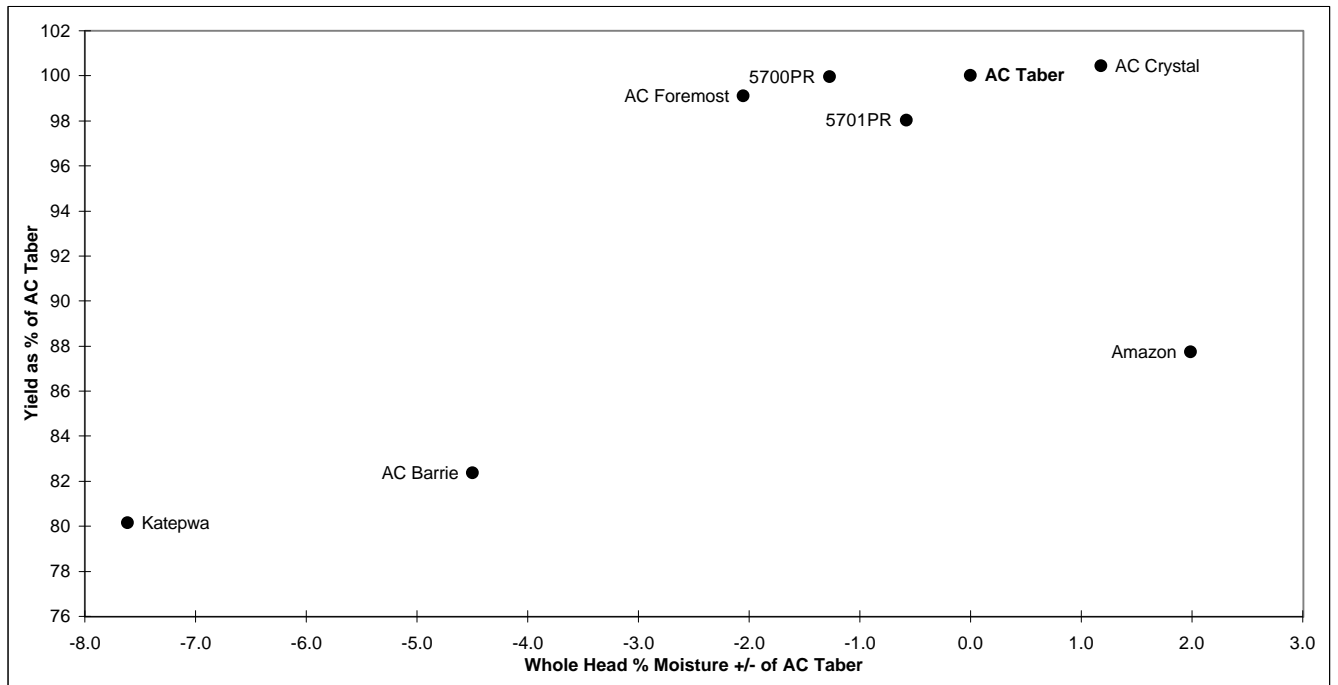
F = fair, P = poor (susceptible), VP = very poor (very susceptible)

Disease Rating: R = Resistant, I = Intermediate, S = Susceptible

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

# CPS / CWES Wheat

# Regional Variety Performance 1994-2004



# 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 have demonstrated the potential to surpass 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				Fort St. John				B.C. Peace		
		2004 Yield		1993-2004		2004 Yield		1993-2004		2004	1993-2004	
		bus / acre	% of check	Avg. Yrs.	Stn. [ ]	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
AC Albright	feed	65 de	88	97	[8]	75 hi	76	96	[11]	82	97	[19]
AC Harper	feed	79 abc	108	112	[7]	107 abc	109	109	[9]	108	110	[16]
AC Lacombe	feed	76 a-d	103	116	[9]	102 bcd	103	110	[12]	103	113	[21]
AC Metcalfe <sup>1</sup>	2R malt	84 ab	114	114	[9]	101 bcd	103	108	[12]	108	111	[21]
AC Rosser	feed	85 a	115	114	[7]	112 a	115	116	[9]	115	115	[16]
B1602	malt(white)	75 a-d	102	101	[8]	84 fgh	86	93	[10]	94	97	[18]
CDC Battleford	malt	83 abc	113	115	[3]	96 de	98	114	[3]	106	114	[6]
CDC Sisler	malt(white)	80 abc	108	103	[6]	97 cde	99	105	[8]	103	104	[14]
CDC Springside	malt(white)	82 abc	111	111	[3]	96 de	98	109	[3]	105	110	[6]
CDC Tisdale	malt	82 abc	111	109	[3]	94 def	96	113	[3]	103	111	[6]
CDC YORKTON	malt	78 abc	105	109	[2]	89 efg	91	102	[4]	98	105	[6]
<b>Harrington</b>	<b>2R malt</b>	<b>74 a-d</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>98 cde</b>	<b>100</b>	<b>100</b>	<b>[12]</b>	<b>100</b>	<b>100</b>	<b>[21]</b>
Kasota	feed(sd)	66 de	89	116	[9]	72 ij	73	108	[12]	81	112	[21]
Lacey	malt(white)	74 a-d	100	95	[2]	96 de	98	101	[2]	99	98	[4]
LEGACY	malt (white)	74 a-d	100	104	[4]	82 gh	83	101	[4]	92	103	[8]
Mahigan	feed(sd)	73 bcd	98	114	[6]	83 gh	84	108	[8]	91	111	[14]
Manny	feed	83 abc	112	119	[2]	104 a-d	106	112	[2]	109	115	[4]
Tradition (BT954)	malt(white)	72 cd	98	96	[3]	95 de	97	102	[3]	97	99	[6]
Trochu	feed	81 abc	110	113	[4]	109 ab	111	111	[5]	110	112	[9]
LSD (P=.05) =		11.80				10.18						
CV value (%) =		11.06				7.73						
Varieties not tested in 2004 ( Averages 1989-2003 )												
AC Ranger	forage			119	[3]			122	[3]	( 2003 )	120	[6]
AC Stacey	feed			116	[3]			98	[3]	( 1996 )	107	[6]
Argyle	malt			107	[8]			99	[3]	( 1994 )	103	[11]
Bonanza	malt			93	[6]			97	[1]	( 1992 )	95	[7]
Brier	feed			117	[8]			114	[4]	( 1995 )	116	[12]
Bronco	feed			103	[3]			105	[3]	( 1998 )	104	[6]
CDC EARL	feed(sd)			111	[5]			108	[7]	( 1999 )	109	[12]
Duel	malt			100	[6]			94	[3]	( 1995 )	97	[9]
Duke	feed(sd)			101	[8]			118	[4]	( 1995 )	110	[12]
Excel	malt (white)			113	[2]			110	[3]	( 2002 )	111	[5]
Foster	malt			104	[2]			96	[4]	( 2000 )	100	[6]
GAMINE *				120	[1]			100	[1]	( 2001 )	110	[2]
Jackson	feed			92	[8]			94	[4]	( 1995 )	93	[12]
Leduc	feed			108	[8]			109	[4]	( 1995 )	109	[12]
Niska	feed(sd)			120	[3]			116	[4]	( 2002 )	118	[7]
Robust	malt (white)			99	[3]			98	[3]	( 2003 )	99	[6]
Stander	malt			102	[3]			99	[5]	( 2000 )	100	[8]
Stetson	feed(sd)			112	[4]			104	[7]	( 2000 )	108	[11]
Tankard	malt			85	[3]			83	[3]	( 1996 )	84	[6]
Tukwa	feed(sd)			121	[5]			102	[7]	( 1999 )	111	[12]
Westford	forage			84	[1]			79	[1]	( 2001 )	81	[1]
Vivar <sup>2</sup>	feed(sd)			123	[3]			123	[4]	( 2003 )	123	[7]

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

\* first year tested, very limited data available

## Harrington - check variety

Vivar<sup>2</sup> was intended to be in the 2004 test but had to be pulled by co-ordinator.

AC Metcalfe<sup>1</sup> (2R malt) will be the future barley check.

(sd) semi-dwarf variety

Two Row Barley			Yield as % of Harrington										
Variety	Type	Dawson Creek				Fort St. John				B.C. Peace			
		2004 Yield		1993-2004		2004 Yield		1993-2004		2004		1993-2004	
		bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.	
AC Metcalfe <sup>1</sup>	malt	101 cde	119	114	[9]	105 bc	123	109	[12]	121	112	[21]	
Calder	malt	101 cde	119	117	[2]	101 bcd	118	110	[2]	119	113	[4]	
CDC Bold	feed(sd)	98 def	115	111	[5]	94 de	110	115	[6]	113	113	[11]	
CDC Copeland	malt	104 cd	122	104	[5]	103 bcd	120	110	[6]	121	107	[11]	
CDC Dolly	feed	102 cde	120	117	[9]	103 bcd	120	113	[12]	120	115	[21]	
CDC Helgason	feed	104 cd	122	110	[4]	107 abc	124	112	[5]	123	111	[9]	
CDC Kendall	malt	92 fg	108	102	[7]	98 cd	114	99	[11]	111	101	[18]	
CDC Select	malt	100 c-f	118	107	[3]	102 bcd	119	110	[4]	119	108	[7]	
CDC Trey	feed	94 ef	111	108	[2]	94 de	109	102	[2]	110	105	[4]	
<b>Harrington</b>	<b>malt</b>	<b>85 g</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>86 e</b>	<b>100</b>	<b>100</b>	<b>[12]</b>	<b>100</b>	<b>100</b>	<b>[21]</b>	
Merit	malt	112 ab	133	118	[5]	117 a	136	116	[7]	134	117	[12]	
Niobe	feed	94 ef	111	107	[3]	97 cd	113	106	[3]	112	106	[6]	
Ponoka	feed	117 a	138	131	[2]	117 a	136	129	[2]	137	130	[4]	
Rivers	feed	101 cde	119	107	[4]	85 e	98	101	[4]	109	104	[8]	
Seebe	feed	104 bcd	123	119	[9]	110 ab	128	113	[12]	125	116	[21]	
TR710	feed	107 bc	127	114	[2]	99 cd	115	112	[2]	121	113	[4]	
XENA	feed	101 cde	119	111	[5]	117 a	136	117	[6]	127	114	[11]	
LSD (P=.05) =		8.30				10.38							
CV value (%) =		5.75				7.12							
<u>Varieties not tested in 2004 ( Averages 1989-2003 )</u>												<u>Last Year Tested</u>	
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)			90	[6]			105	[8]	( 2003 )	98	[14]	
Manley	malt			119	[5]			105	[5]	( 1998 )	112	[10]	
Newdale	malt			106	[3]			103	[3]	( 2003 )	105	[6]	

AC Metcalfe<sup>1</sup> (2R malt) will be the future barley check.

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				Fort St. John				B.C. Peace			
		2004 Yield		1993-2004		2004 Yield		1993-2004		2004		1993-2004	
		bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.	
CDC McGwire	2 row	59 a-d	100	99	[5]	79 b-e	101	98	[6]	101	99	[11]	
Falcon	6 row	45 e	77	96	[9]	49 j	63	87	[11]	70	92	[20]	
Tyto	6 row	46 e	79	80	[3]	68 fgh	86	86	[3]	82	83	[6]	
<b>Harrington</b>	<b>2R malt</b>	<b>59 a-d</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>79 cde</b>	<b>100</b>	<b>100</b>	<b>[11]</b>	<b>100</b>	<b>100</b>	<b>[20]</b>	
LSD (P=.05) =		9.44				8.15							
CV value (%) =		11.06				7.73							
<u>Varieties not tested in 2004 ( Averages 1989-2003 )</u>												<u>Last Year Tested</u>	
AC Bacon	6 row			99	[3]			96	[5]	( 2002 )	98	[8]	
AC Hawkeye	6 row			99	[3]			96	[3]	( 1999 )	98	[6]	
CDC Dawn	2 row			94	[3]			94	[5]	( 2000 )	94	[8]	
CDC Freedom	2 row			86	[3]			79	[5]	( 2002 )	82	[8]	
CDC Gainer	2 row			76	[2]			78	[4]	( 2000 )	77	[6]	
CDC Silky	6 row			96	[6]			89	[7]	( 2002 )	93	[13]	
CDC Speedy*	2 row							92	[1]	( 2000 )	92	[1]	
Jaeger	6 row			88	[2]			93	[4]	( 2000 )	90	[6]	
Peregrine	6 row			77	[3]			76	[4]	( 2002 )	76	[7]	
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 Averages					B.C. 2001-2004			Alberta Agdex 100/32					Distributor
		2001-04	2002-04	1993-2004		0-9 scale (0=nil)**			Resistance to						
		***Whole Head %Moist	Days to Maturity	Height cm	Weight lbs/bu	Protein % [st.yrs]	Scald	Net	Blotch	Lodging	Loose Smut	False Smut	Root Rot	FHB	
Eligible for General Purpose Grades Only															
AC Albright	6 row	-4.5	95	82	52	12.6 [4]	1.6	1.7		P	P	P			SeCan
■ AC Harper	6 row	2.7	99	76	49	12.6 [6]	1.9	2.0	G	S	I	I	VP		SeCan
■ AC Lacombe	6 row	0.0	97	81	50	11.6 [6]	1.5	1.5	G	S	R	S	VP		SeCan
■ AC Rosser	6 row	8.0	102	78	50	11.6 [6]	2.8	1.7	F	S	R	I	VP		SeCan
CDC Dolly	2 row	4.7	102	72	54	13.1 [6]	1.8	2.4	F	S	R	I	F		SeCan
■ CDC Helgason	2 row	-2.6	97	75	54	13.0 [6]	2.1	2.3	G	R	R	I	P		SeCan
■ CDC Trey	2 row	-3.0	97	63	53	13.6 [2]	3.8	1.8	G	I	R	R	F		SeCan
■ Manny	6 row	2.8	103	66	50	11.3 [2]	0.5		G	I	R	S	P		SeCan
■ Niobe	2 row	-0.7	99	63	52	13.4 [4]	0.6	1.5	G	I	R	I	P		SeCan
■ Ponoka	2 row	1.7	103	70	53	12.7 [2]	1.0		G	R	R	I	F+		SeCan
■ Rivers	2 row	-2.4	99	71	52	12.6 [6]	2.9	1.7	G	R	R	R	F		Quality Assured
Seebe	2 row	11.2	105	85	54	14.2 [6]	0.6	2.2	G	S	R	S	F+		SeCan
TR710	2 row	4.2	105	57	51	13 [2]	2.9								Agricore United
■ Trochu	6 row	1.6	98	74	51	11.5 [6]	2.1	1.2	G	S	R	R	P		SeCan
■ XENA	2 row	1.9	101	71	54	12.7 [6]	2.3	2.2	G	S	I	R	F		Agricore United
Semi-dwarf varieties															
CDC Bold	2 row	1.1	99	66	53	13.0 [6]	0.9	2.4	G	S	R	I	F+		Canterra
■ Kasota	6 row	-1.5	96	67	52	12.3 [6]	1.6	3.4	EX	S	R	I	VP		SeCan
■ Mahigan	6 row	-1.3	97	64	52	12.6 [6]	1.5	3.6	EX	S	R	I	VP		SeCan
Varieties not tested in 2004 (Averages 1989-2003)															
AC Ranger	6 row(f)	6.1	97	77	51	11.4 [6]	2.8	1.5	F	XX	XX	XX	VP		Brandon Res. Center
AC Stacey	6 row		93	65	52					P	G	P			SeCan
Brier	6 row		99	80	50					P	G	P			SeCan
Bronco	6 row		102	90	54					P	F	F			Value Added
CDC EARL	6 row(sd)		101	69	50				EX	S	R	I	VP		SeCan
CDC Fleet	2 row		97	77	55					P	P	P			Quality Assured
Duke	6 row(sd)		98	72	51					P	F	F			SeCan
GAMINE *	6 row		106	97	49	11.9 [2]	6.0	3.1	G						SW Seed Canada Ltd
Jackson	6 row		92	66	52					P	P	P			SeCan
Leduc	6 row		97	77	50					F	G	F			SeCan
■ Niska	6 row	9.0	102	70	53	11.3 [4]	1.2	1.4	VG	S	R	S	VP		Canterra
■ Stander	6 row		103	77	53				G	S	S	I	VP		Agricore United
Stetson	6 row(sd)		102	53	51					P	G	F			Agricore United
Tukwa	6 row(sd)		100	73	51					P	G	F			SeCan
■ Vivar	6 row	6.0	96	71	52	11.5 [6]	2.2	1.9	VG	I	R	R	VP		SeCan
Westford *	6 row		102	112	47	11.3 [2]	3.4	2.4	F	P					Agricore United

(sd) semi-dwarf variety

\* first year tested, very limited data available

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

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

F = fair, P = poor, VP = very poor

R = Resistant I = Intermediate S = Susceptible

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													
		B.C. Peace Averages					2001-04 B.C. Avr.			Alberta Agdex 100/32					
Variety	Type	2001-2004	2002-04	1994-2004			0-9 scale (0=nil)**			Resistance to					Distributor
		***% Moist.	Days	Height	Weight	Protein	Scald	Net	Blotch	Lodging	Loose Smut	False Smut	Root Rot	FHB	
		+/- of Check	to Maturity	cm	lbs/bu	% [st.yrs]									
■ AC Metcalfe	2 row	0.7	97	78	54	13.0 [6]	1.8	2.1	F	R	I	I	F	SeCan	
B1602	6 row	-3.9	92	80	53	11.5 [4]	2.2	1.4	G	S	I	R	VP	Agricore United	
■ Calder	2 row	-3.2	97	64	52	13.1 [2]	1.8	1.4	F	R	R	I	F+	SeCan	
■ CDC Battleford	6 row	0.3	97	69	50	11.6 [4]	2.0	1.0	G	S	R	R	P	Quality Assured	
■ CDC Copeland	2 row	0.7	99	79	53	12.5 [6]	3.0	2.1	F	S	I	I	F	SeCan	
■ CDC Kendall	2 row	-2.5	95	74	54	13.3 [6]	2.1	2.3	F	S	S	I	F	Agricore United	
■ CDC Select	2 row	2.7	100	67	52	13.0 [4]	2.2	1.2	F	R	I	I	P	Agricore United	
■ CDC Sisler	6 row	0.9	95	86	51	12.0 [4]	2.4	1.0	P	S	S	I	F	Agricore United	
■ CDC Springside	6 row	-3.0	97	72	50	11.5 [4]	2.4	1.4	G	R	R	I	VP	Agricore United	
■ CDC Tisdale	6 row	-0.8	96	73	49	11.6 [4]	2.2	0.8	G	S	R	I	P	Quality Assured	
■ CDC YORKTON	6 row	-2.8	103	67	50		1.8		G	S	R	R	P	Agricore United	
<b>Harrington</b>	<b>2 row</b>	<b>0.0</b>	<b>95</b>	<b>71</b>	<b>53</b>	<b>12.8 [12]</b>	<b>3.3</b>	<b>2.8</b>	<b>F</b>	<b>S</b>	<b>S</b>	<b>I</b>	<b>F+</b>	<b>SeCan</b>	
■ Lacey	6 row	-1.7	98	63	51	12.7 [2]	2.4		G	I	R	R	VP	Newfield Seeds	
■ LEGACY	6 row	0.5	94	75	50	12.4 [6]	2.7	2.0	G	I	R	R	P	Agricore United	
■ Merit	2 row	9.7	101	73	53	12.3 [6]	2.4	2.2	F	S	R	I	F	Agricore United	
■ Tradition (BT954)	6 row	-2.9	93	66	51	12.4 [4]	3.0	1.0	G	S	R	R	XX	Busch Ag	
<b>Varieties not tested in 2004 ( Averages 1989-2003)</b>															
AC Bountiful	2 row		102	85	55	12.5 [2]	4.0	2.6	G	R	R	I	F	Quality Assured	
■ AC Oxbow	2 row		100	87	54				VG	G	F	F		SeCan	
Argyle	6 row		96	93	51				G	P	P	F		SeCan	
B1215	2 row		103	75	54				VG	P	F	F		Agricore United	
Bonanza	6 row		95	77	50				P	P	P	F		public	
CDC STRATUS	2 row		101	74	54				G	I	I	I	F	Quality Assured	
CDC THOMPSON	2 row	-1.8	95	57	55	13.2 [4]	1.5	3.7	G	P	G	F		Quality Assured	
Duel	6 row		98	89	50				G	P	F	F		Agricore United	
Excel	6 row	4.9	99	81	52	11.7 [4]	2.4	1.6	G	S	I	R	VP	Agricore United	
■ Foster	6 row		101	79	50				G	P				Agricore United	
Manley	2 row		104	78	53				G	P	F	F		SeCan	
■ Newdale	2 row					13.2 [6]		1.9	F	S	R	R	F	Quality Assured	
Robust	6 row	1.0	95	78	53	13.3 [10]	2.5	1.9	1.1	F	F	F		Cargill	
Tankard	6 row		103	80	63				G	P	P	F		SeCan	

Hulless Barley		Variety Descriptions													
		B.C. Peace Averages					2001-2004 Average			Resistance to					
Variety	Type	2001-2004	2002-04	1994-2004			0-9 scale (0=nil)**			Resistance to					Distributor
		***%Moist.	Days	Height	Weight	Protein	Scald	Net	Blotch	Lodging	Loose Smut	False Smut	Root Rot	FHB	
		+/- of Check	to Maturity	cm	lbs/bu	%									
■ CDC McGwire	2 row	4.2	98	74	65	12.7	0.77	2.19	EX	S	R	I	F	SeCan	
■ Falcon	6 row	4.6	95	63	63	14.8	1.52	2.13	EX	S	R	I	VP	Progres./SeCan	
■ Tyto*	6 row	1.1	99	61	62	13.3	1.63		EX	S	R	I	P	Progressive	
<b>Varieties not tested in 2004 ( Averages 1989-2003)</b>															
AC Bacon	6 row	0.5	99	81	61		1.95	1.47	F	S	I	I	F+	SeCan	
■ AC Hawkeye	6 row		102	100	62					P	P	F		Agricore United	
CDC Dawn	2 row		101	81	62					P	S	S	I	F+	SeCan
CDC Freedom	2 row	-1.5	98	86	63		3.66	2.55	F	S	R	I	F+	SeCan	
CDC Gainer	2 row		97	81	62					P	F	F		Quality Assured	
CDC Silky	6 row	5.5	102	76	60		1.25	1.28		F	F	F		Value Added	
CDC Speedy*	2 row			82	64									Value Added	
■ Jaeger	2 row		103	65	60					EX	S	S	I	VP	Progressive
■ Peregrine	6 row	-2.7	97	58	62		2.23	2.25	EX	S	I	I	VP	Progressive	
■ Phoenix	2 row		101	83	62					P	F	F		Progres./SeCan	
■ Tercel	6 row		99	76	62					P	F	F		Progressive	

(sd) semi-dwarf variety

\* first year tested, very limited data available

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

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

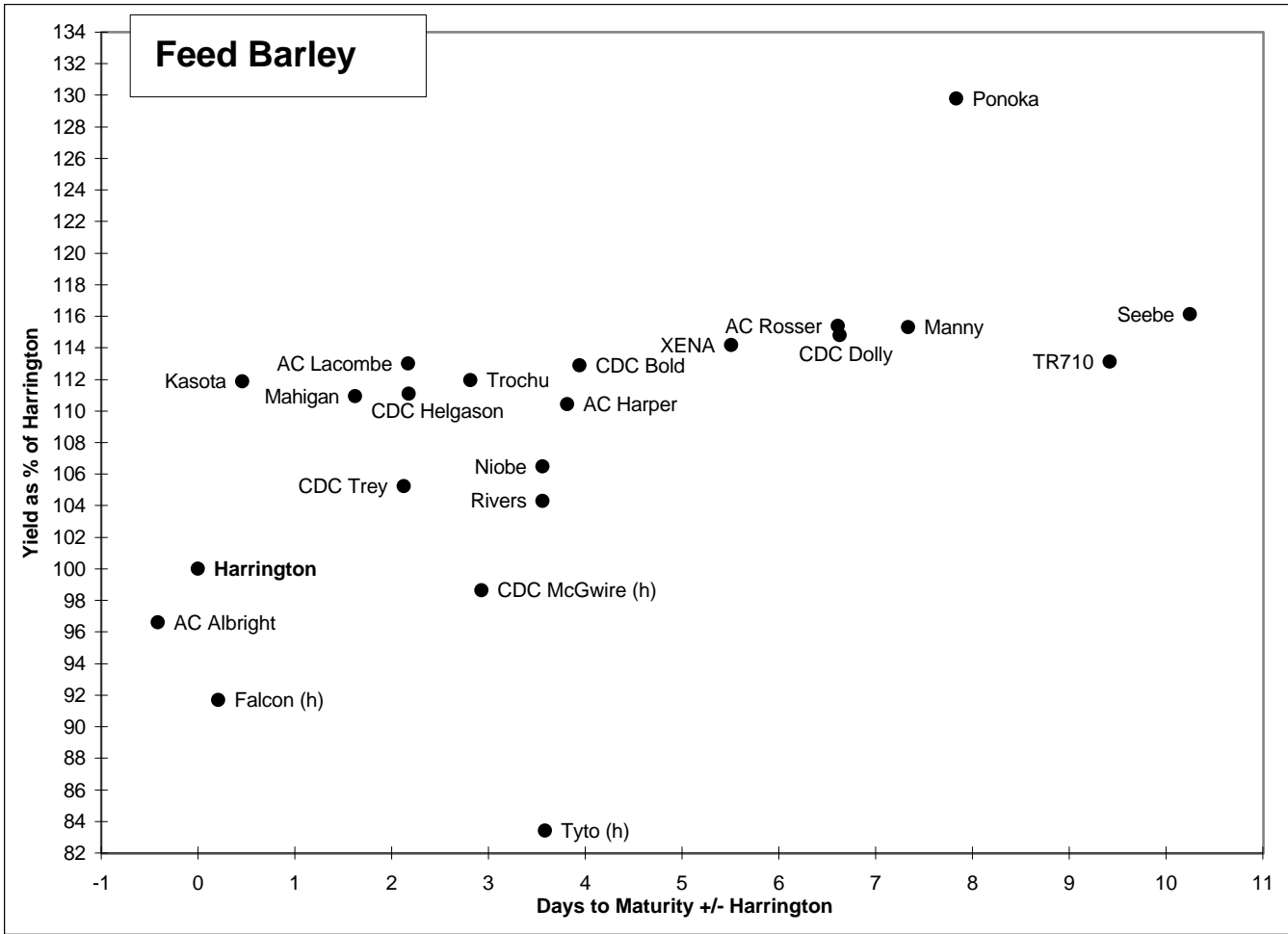
F = fair, P = poor, VP = very poor

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

R = Resistant I = Intermediate S = Susceptible

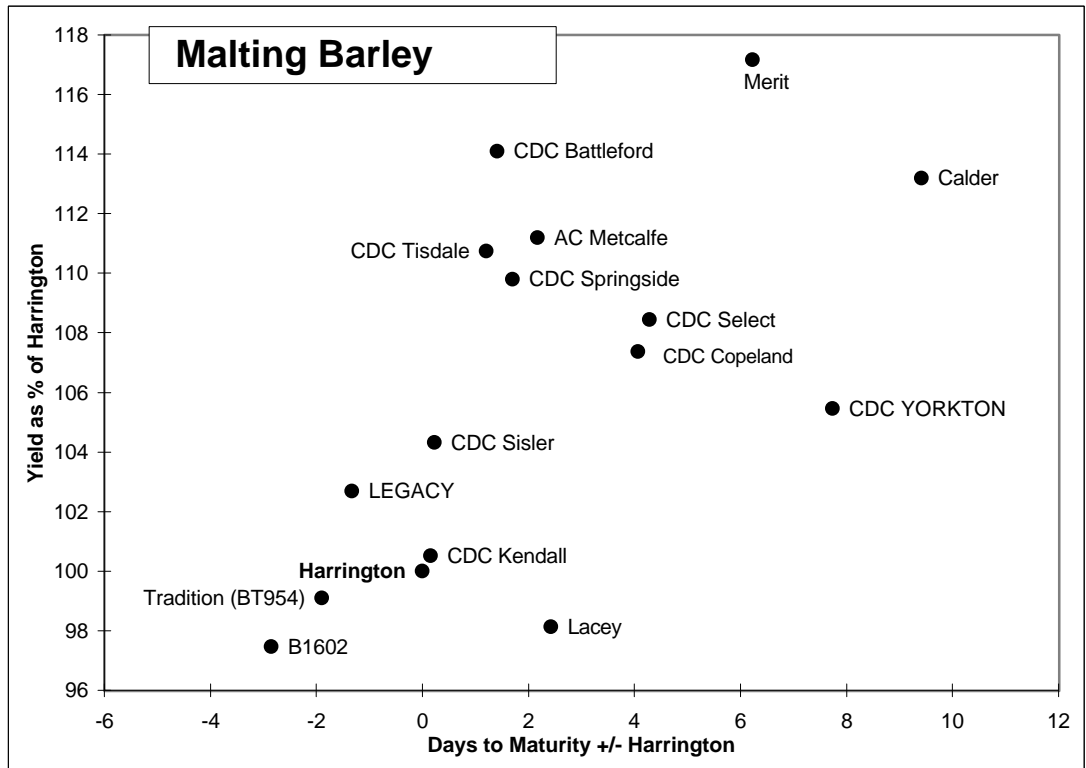
# Barley

## Regional Variety Performance 1993-2004



(h) Hulless

\* first year tested  
very limited data  
available.



# 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										
		Dawson Creek				Fort St. John				B.C. Peace		
Variety	Colour	2004 Yield		1993-2004		2004 Yield		1994-2004		2004	1993-2004	
		bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
AC Juniper	white	88 d	83	102	[7]	128 ab	104	102	[11]	93	102	[18]
AC Morgan	white	105 ab	98	108	[5]	119 b	97	107	[6]	97	107	[11]
AC Mustang	white	112 a	105	108	[8]	132 ab	107	107	[12]	106	107	[20]
<b>Cascade</b>	<b>yellow</b>	<b>107 ab</b>	<b>100</b>	<b>100</b>	<b>[8]</b>	<b>124 ab</b>	<b>100</b>	<b>100</b>	<b>[12]</b>	<b>100</b>	<b>100</b>	<b>[20]</b>
CDC Baler (forage oat)		102 abc	95	101	[2]	123 ab	99	104	[2]	97	102	[4]
CDC Orrin	white	109 a	102	107	[3]	135 a	109	110	[3]	106	109	[6]
Furlong *	tan	92 cd	86	86	[1]	126 ab	102	102	[1]	94	94	[2]
Lu (OT 7001)	yellow	91 d	85	91	[4]	124 ab	100	100	[4]	92	95	[8]
Murphy * (forage oat)		107 ab	100	100	[1]	136 a	110	110	[1]	105	105	[2]
Ronald	yellow	92 cd	87	93	[4]	135 a	109	101	[4]	98	97	[8]
	LSD (P=.05) =	10.78				14.36						
	CV value (%) =	7.47				7.81						
<b>Varieties not tested in 2004 ( Averages 1989-2003 )</b>												
										<b>Last Year Tested</b>		
AC Assiniboia	tan			86	[4]			88	[8]	( 2002 )	87	[12]
AC Belmont (h)				75	[4]			78	[8]	( 2000 )	76	[12]
AC Ernie* (h)				71	[1]			65	[2]	( 1999 )	68	[3]
AC Gwen (h)	white			75	[2]			81	[3]	( 2002 )	78	[5]
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]
Boudrais (h)	white			84	[2]			85	[2]	( 2002 )	85	[4]
Bullion (h)	white			73	[2]			70	[3]	( 2001 )	72	[5]
Calibre				97	[6]			105	[5]	( 1995 )	101	[11]
CDC Boyer	yellow			100	[6]			97	[9]	( 2002 )	98	[15]
CDC Dancer	yellow			93	[3]			97	[4]	( 2003 )	95	[7]
CDC Pacer				103	[2]			100	[5]	( 2000 )	101	[7]
Derby	white			100	[6]			98	[10]	( 2003 )	99	[16]
Foothill				90	[4]			91	[2]	( 1992 )	91	[6]
Grizzly				90	[4]			87	[2]	( 1992 )	89	[6]
Jasper				105	[4]			96	[8]	( 2000 )	101	[12]
Kaufmann	yellow			88	[2]			90	[3]	( 2002 )	89	[5]
Lee Williams (OT 7008)(h)	white			77	[2]			87	[2]	( 2002 )	82	[4]
Pinnacle	yellow			105	[3]			99	[4]	( 2002 )	102	[7]
Robert				95	[6]			95	[4]	( 1994 )	95	[10]
SW EXACTOR	white			109	[3]			103	[5]	( 2002 )	106	[8]
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. (1994-2004)			Resistance to			Distributor
		Days to Maturity	Height cm	Bushel Weight lbs/bu	Lodging	Shatter	Smuts	
■ AC Juniper	milling	107	93	42	VG	G	I	Agricore United
AC Morgan	milling	113	89	41	VG		R	SeCan
■ AC Mustang	feed / forage	109	102	42	G	G	I	Agricore United
<b>Cascade</b>	<b>feed</b>	<b>109</b>	<b>102</b>	<b>40</b>	<b>G</b>	<b>G</b>	<b>S</b>	<b>SeCan</b>
CDC Baler	forage	114	92	41			S	Quality Assured
■ CDC Orrin	milling	112	83	42	G		R	Quality Assured
■ Furlong *	milling	116	82	38	G		R	Canterra
Lu (OT 7001)	feed	108	87	42	G		R	SeCan
■ Murphy *	forage	116	98	40			S	SeCan
■ Ronald (AC Ronald)	milling	113	83	43	VG		R	SeCan
<b>Varieties not tested in 2004 ( Averages 1989-2003 )</b>								
■ AC Assiniboia	milling	110	97	40	G	G	F	SeCan
AC Gwen (OT 297)	hulless	123	106	47	VG		G	SeCan
■ AC Belmont	hulless	109	94	41	G	G	G	SeCan
■ AC Ernie	hulless	108	85	42	F		G	C&M Seed Sales
■ AC Medallion	milling	109	97	40	F		VG	Cargill
■ AC Preakness	milling	108	101	40	F	G	G	Agricore United
■ AC Rebel	milling	114	95	42	G		G	Canterra Seeds
Athabasca	feed	103	87	40	G	G	P	SeCan
■ Boudrais (OT 799)	hulless	119	104	45	VG			Quality Assured
■ Bullion	hulless	113	90	51	VG		P	Agricore United
Calibre	milling	109	100	42	F	G	P	SeCan
CDC Boyer	milling	109	103	40	G	G	P	SeCan
■ CDC Dancer	milling	110	96	43	G		R	Cargill
CDC Pacer	milling	108	93	42	F	G	F	Quality Assured
Derby	milling	108	100	42	G	G	S	Agricore United
Foothill	forage	105	99	39	F	G	P	SeCan
Grizzly	feed / forage	107	90	41	F	G	P	public
Jasper	milling	105	104	42	F	G	P	SeCan
■ Kaufmann (OT 797)	milling	120	109	42	G			SeCan
Lee Williams (OT 7008)	hulless	112	84	43				SeCan
■ Pinnacle	milling	115	94	41	F		G	Quality Assured
Robert		106	93	40	G	G	G	SeCan
■ SW EXACTOR	milling	112	95	40	VG		F	Quality Assured
■ Triple Crown	milling	108	92	38	VG		G	Canterra
Waldern	feed	107	106	40	G	G	P	SeCan

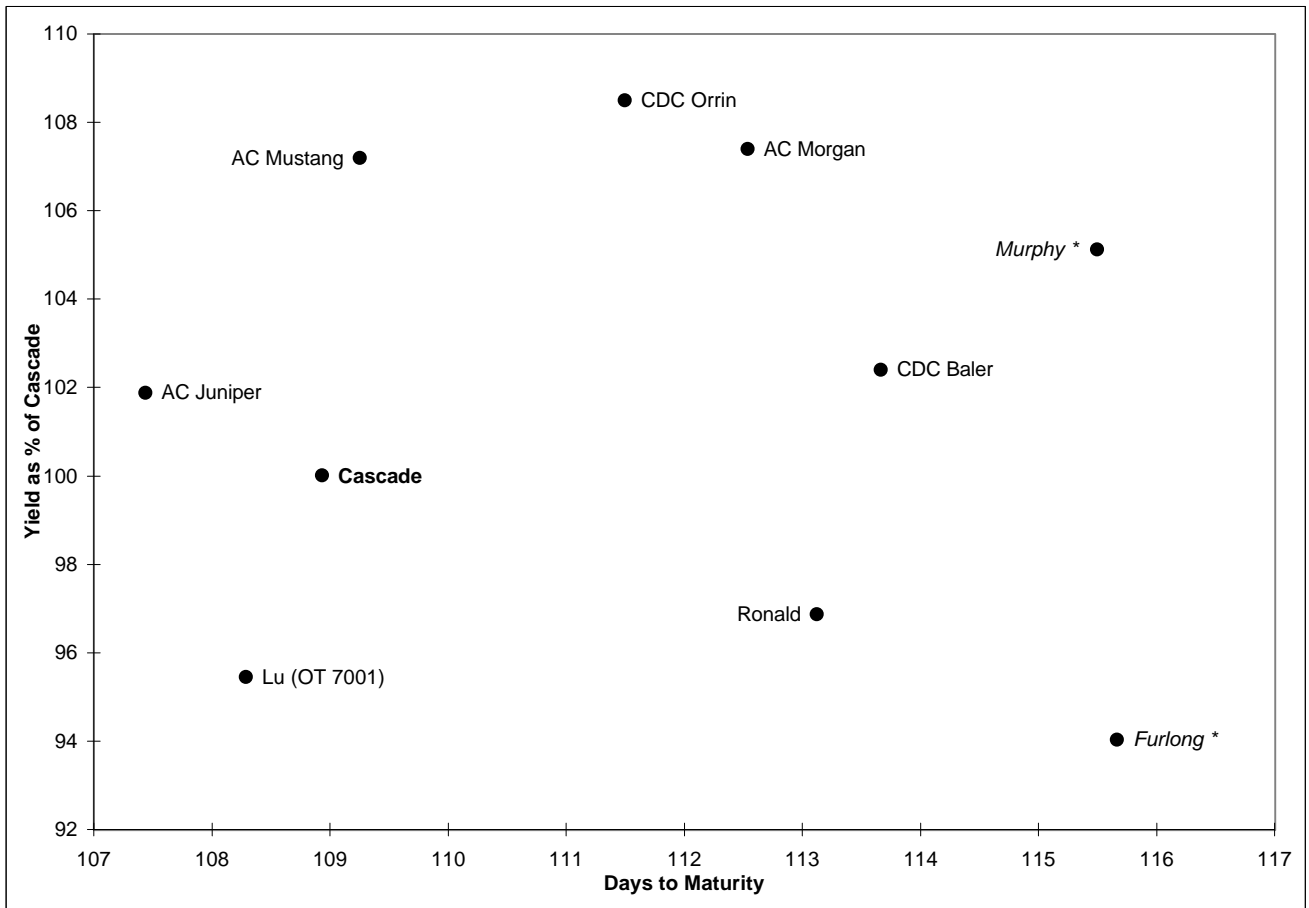
**Cascade - check variety**

\* first year tested, very limited data available

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

S = Susceptible I = Intermediate R = Resistant

■ Protected by Plant Breeders' Rights



\* First year tested, very limited data available.

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 percent 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 percent 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 percent 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](http://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. Some varieties are proving to be earlier than traditional spring triticale varieties, and perhaps as breeding continues earlier lines may come along that we can grow here for grain. Their grain yields are "attention grabbers", and so it is worth watching their development at least for now. Drought tolerance is the primary advantage that spring triticales have over other spring cereal crops. Spring triticales are also a valuable alternative or compliment to barley & oats as forage feed. It is for these reasons that data is included.

Spring Triticale		Yield as % of Pronghorn									
		Dawson Creek			Fort St. John			B.C. Peace			
Variety	2004 Yield		2001-2004		2004 Yield		2001-2004		2004	2001-2004	
	bus / acre	% of check	Avg. Stn. (%) Yrs.	bus / acre	% of check	Avg. Stn. (%) Yrs.	bus / acre	% of check	Avg. Stn. (%) Yrs.	Avg. Stn. (%) Yrs.	Avg. Stn. (%) Yrs.
AC Alta	77 a	101	104 [3]	88 a	101	102 [3]	101	103 [6]			
AC Ultima	68 b	89	98 [4]	82 ab	93	94 [4]	91	96 [8]			
<i>Companion</i> *	67 b	88	88 [1]	75 b	86	86 [1]	87	87 [2]			
<b>Pronghorn</b>	<b>76 a</b>	<b>100</b>	<b>100 [4]</b>	<b>88 a</b>	<b>100</b>	<b>100 [4]</b>	<b>100</b>	<b>100 [8]</b>			
LSD (P=.05) =	7.56			6.85							
CV value (%) =	6.57			5.15							
Varieties not tested in 2004 ( Averages 2001-2003 )						Last Year Tested					
AC Certa			88 [2]			89 [2]	( 2003 )	88 [4]			
SANDRO			104 [1]			97 [1]	( 2001 )	100 [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							
		Maturity (days to)	Whole Head % Moist.	Height (cm)	Bushel Weight (lbs/bus)	TKW (g / 1000)	0 - 9 scale; 0=nil Septoria complex Ergot		Distributor
AC Alta	126	4.9	84	52	52	3.0		Progressive	
AC Ultima	124	-6.6	98	57	48	3.2	0.6	Quality Assured	
<i>Companion</i> *	133	-1.1	103	47	43			SW Seed Canada Ltd	
<b>Pronghorn</b>	<b>128</b>	<b>0.0</b>	<b>102</b>	<b>56</b>	<b>45</b>	<b>3.1</b>	<b>0.3</b>	<b>Progressive</b>	
Varieties not tested in 2004 ( Averages 2001-2003 )									
AC Certa	118	1.2	98	60	45	2.3		Progressive	
SANDRO	148		117	58	50	1.5	3.1	SW Seed Canada Ltd	

## SOFT WHITE SPRING WHEAT

Soft White Spring Wheat		Yield as % of AC Reed and Variety Descriptions									
		Dawson Creek			Fort St. John			B.C. Peace 2002-2004 Averages			
Variety	2004 Yield		2002-2004**		2004 Yield		2002-2004		Bushel		
	bus / acre	% of check	Avg stn (%) yrs	bus / acre	% of check	Avg. Stn. (%) Yrs.	Stn. Yield Yrs. Avg %	Days to Maturity	Weight lb/bu	Height (cm)	Distributor
AC Andrew	42 b	130	123 [2]	75 a	135	122 [3]	[5] 122	118	63	72	SeCan
AC Meena	47.4 a	147	131 [2]	73 a	131	120 [3]	[5] 126	119	63	73	Haney Farms
<b>AC Reed</b>	<b>32.3 c</b>	<b>100</b>	<b>100 [2]</b>	<b>56 b</b>	<b>100</b>	<b>100 [3]</b>	<b>[5] 100</b>	<b>120</b>	<b>63</b>	<b>65</b>	<b>SeCan</b>
Bhishaj	41.8 b	129	129 [1]	68 a	122	115 [2]	[3] 122	122	62	74	Tony Croymans
LSD (P=.05) =	5.27			12.07							
CV value (%) =	8.05			11.11							
Varieties not tested in 2004 ( Averages 2002 )											
AC Nanda*		106		105		[2] 106	112	62	70		Quality Assured
AC Phil*		108		100		[2] 104	104	62	63		Proven Seeds

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

\* first year tested, very limited data available

\*\*2003 DC yield data is not included in long term average due to poor germination of check variety

### AC Reed - check variety