

# 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.

Variety	Yield as % of Katepwa											
	Dawson Creek				Fort St. John				B.C. Peace			
	2001 Yield		1994-2001		2001 Yield		1994-2001		2001		1994-2001	
	bus / acre	% of Check	Avg. (%)	Station Years	bus / acre	% of Check	Avg. (%)	Station Years	Avg. (%)	Avg. (%)	Station Years	
5500 HR (BW245)	61 f-i	105	105	[2]	77 d-k	97	101	[3]	101	103	[5]	
5600 HR	66 def	113	106	[2]	82 b-g	103	110	[3]	108	108	[5]	
AC ABBEY	60 g-j	103	103	[3]	88 abc	110	110	[5]	106	107	[8]	
AC BARRIE	61 f-i	105	100	[5]	77 e-k	96	93	[8]	100	97	[13]	
AC CADILLAC	63 e-h	107	97	[4]	72 i-l	90	83	[6]	99	90	[10]	
AC ELSA	76 b	130	112	[4]	92 a	115	108	[6]	122	110	[10]	
AC INTREPID	57 ijk	98	102	[3]	82 c-g	102	103	[5]	100	102	[8]	
AC MAJESTIC	84 a	143	109	[4]	81 c-h	102	102	[7]	123	106	[11]	
AC SPLENDOR	46 l	79	96	[4]	71 jkl	88	93	[6]	84	95	[10]	
AC SUPERB	62 e-i	106	106	[1]	84 a-e	105	105	[1]	106	106	[2]	
ALIKAT	53 k	91	99	[2]	69 kl	87	96	[3]	89	97	[5]	
BW 243	63 e-h	108	108	[1]	75 f-k	94	94	[1]	101	101	[2]	
BW 259	60 g-j	103	103	[1]	81 c-h	102	102	[1]	102	103	[2]	
BW 263 (HWSW)	56 jk	96	96	[1]	66 l	82	85	[2]	89	91	[3]	
BW 264 (HWSW)	64 efg	110	110	[1]	74 g-k	93	93	[2]	101	102	[3]	
BW 755	70 cd	121	121	[1]	78 d-j	98	95	[2]	109	108	[3]	
BW 758	67 de	114	114	[1]	90 ab	113	113	[1]	114	114	[2]	
CDC BOUNTY	62 f-i	106	102	[2]	85 a-d	107	105	[3]	106	104	[5]	
<b>KATEPWA</b>	<b>58 hij</b>	<b>100</b>	<b>100</b>	<b>[5]</b>	<b>80 c-i</b>	<b>100</b>	<b>100</b>	<b>[8]</b>	<b>100</b>	<b>100</b>	<b>[13]</b>	
McKENZIE	60 g-j	103	103	[3]	87 abc	108	101	[5]	106	102	[8]	
PRODIGY	78 b	134	116	[2]	73 h-l	91	100	[4]	113	108	[6]	
PT 551	74 bc	126	126	[1]	84 a-f	105	105	[1]	115	116	[2]	
LSD (P=.05) =	4.91				8.53							
CV value (%) =	5.45				7.58							
	<u>Varieties not tested in 2001 (1989 - 2000)</u>								<u>Last Year Tested</u>			
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 MICHAEL			100	[4]			100	[7]	( 2000 )	100	[11]	
AC MINTO			103	[5]			103	[7]	( 1995 )	103	[12]	
CDC MAKWA			100	[6]			100	[7]	( 1995 )	100	[13]	
CDC MERLIN			98	[3]			95	[3]	( 1995 )	97	[6]	
CDC TEAL			103	[4]			98	[7]	( 2000 )	100	[11]	
COLUMBUS			97	[7]			99	[3]	( 1992 )	98	[10]	
INVADER			95	[4]			99	[7]	( 2000 )	97	[11]	
LAURA			101	[4]			105	[7]	( 2000 )	103	[11]	
NEEPAWA			97	[9]			101	[8]	( 1996 )	99	[17]	
PARK			87	[7]			95	[5]	( 1993 )	91	[12]	
PASQUA			99	[4]			93	[6]	( 1995 )	96	[10]	
ROBLIN			91.69	[4]			95	[7]	( 2000 )	93	[11]	

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 1994-2001				2001 Average				Resistance to						Distributor
	Whole Head %Moist.	Height cm	Bushel Weight lbs/bu	Protein % [st.yrs]	0-9 scale (0=nil)**				Shatter	Root Rot	Loose Smut	Common Bunt	Sprouting		
					Septoria complex	Powdery Mildew	Lodging								
5500 HR (BW 245)	22.0	93	65.6	13.0	[3]	3.82	1.76	0							AgriPro / Proven Seed
<input type="checkbox"/> 5600 HR	23.4	102	64.1	12.6	[3]	3.32	3.57	0.13	G	F	G	G	G		Proven Seed
<input checked="" type="checkbox"/> AC ABBEY	18.5	87	62.5	12.6	[3]	3.88	0.63	0.13	G	F	G	G	P		Canterra
<input checked="" type="checkbox"/> AC BARRIE	21.2	93	62.2	13.8	[3]	4	2.82	0	G	F	G	G	F		SeCan
<input checked="" type="checkbox"/> AC CADILLAC	20.3	99	62.8	13.5	[3]	3.88	0.69	1.82	G	F	G	G	F		QA / Value Added
<input checked="" type="checkbox"/> AC ELSA	21.4	91	60.7	13.6	[3]	3.07	0.76	0.13	G	F	G	F	F		SeCan
<input checked="" type="checkbox"/> AC INTREPID	17.1	94	62.5	13.2	[3]	4.44	1.19	0.5	G	F	F	G	P		Canterra
AC MAJESTIC	23.2	96	61.8	12.7	[3]	2.19	2.32	0.63	G	F	F	G	F		SeCan
AC SPLENDOR	17.4	94	61.3	13.7	[3]	4.26	1.38	0.94	G	F	P	F	F		SeCan
<input type="checkbox"/> AC SUPERB	29.1	99	63.2	12.8	[2]	5.01	0.38	0	G	F	F	G	G		SeCan
ALIKAT	13.9	93	63.5	13.4	[3]	6.38	2.63	0.88	G	F	G	G	F		Canterra
BW 243	27.2	99	64.3	14.4	[2]	3.51	2	0							Agricore United
BW 259	20.8	102	64.5	14.7	[2]	5.44	0.57	0							CRC Winn
BW 263 (HWSW)	13.9	96	64.2	12.9	[3]	4.32	1.44	0							Quality Assured Seeds
BW 264 (HWSW)	17.0	103	63.3	12.9	[3]	4.19	0.38	0.13							Quality Assured Seeds
BW 755	19.2	107	64.0	13.1	[3]	4.69	0.57	0.44							Agricore United
BW 758	21.1	104	63.1	13.9	[2]	3.94	1	0							Agricore United
CDC BOUNTY	20.8	98	65.3	13.2	[3]	4.07	1.32	2.63	G	F	G	G	F		Canterra
<b>KATEPWA</b>	<b>18.3</b>	<b>95</b>	<b>61.2</b>	<b>13.4</b>	<b>[3]</b>	<b>4.63</b>	<b>1.44</b>	<b>1.19</b>	<b>G</b>	<b>F</b>	<b>G</b>	<b>G</b>	<b>F</b>		<b>SeCan</b>
McKENZIE	16.4	91	62.9	12.8	[3]	3.88	2.26	0	G	F	P	G	EX		Agricore United
PRODIGY	22.0	96	64.2	12.8	[3]	2.69	3.32	0	G	F	F	F	F		Agricore United
PT 551	22.2	108	64.5	13.1	[2]	3.32	1.01	0.13							Agricore United

### Varieties not tested in 2001 ( Averages 1989-2000 )

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	Proven Seed
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
CDC TEAL	16.5	90	61.1	13.3					G	G	F	F	F	F	Value Added
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
INVADER	21.7	90	60.7	13.9					G	G	F	F	F	F	Proven Seed
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	public
PARK	17.1	81	62.7						F	G	F	G	F	F	public
PASQUA	15.8	87	61.8						G	G	P	P	F	P	SeCan
ROBLIN	17.5	86	60.5	14.0					VG	G	F	G	P	F	SeCan

#### KATEPWA - check variety

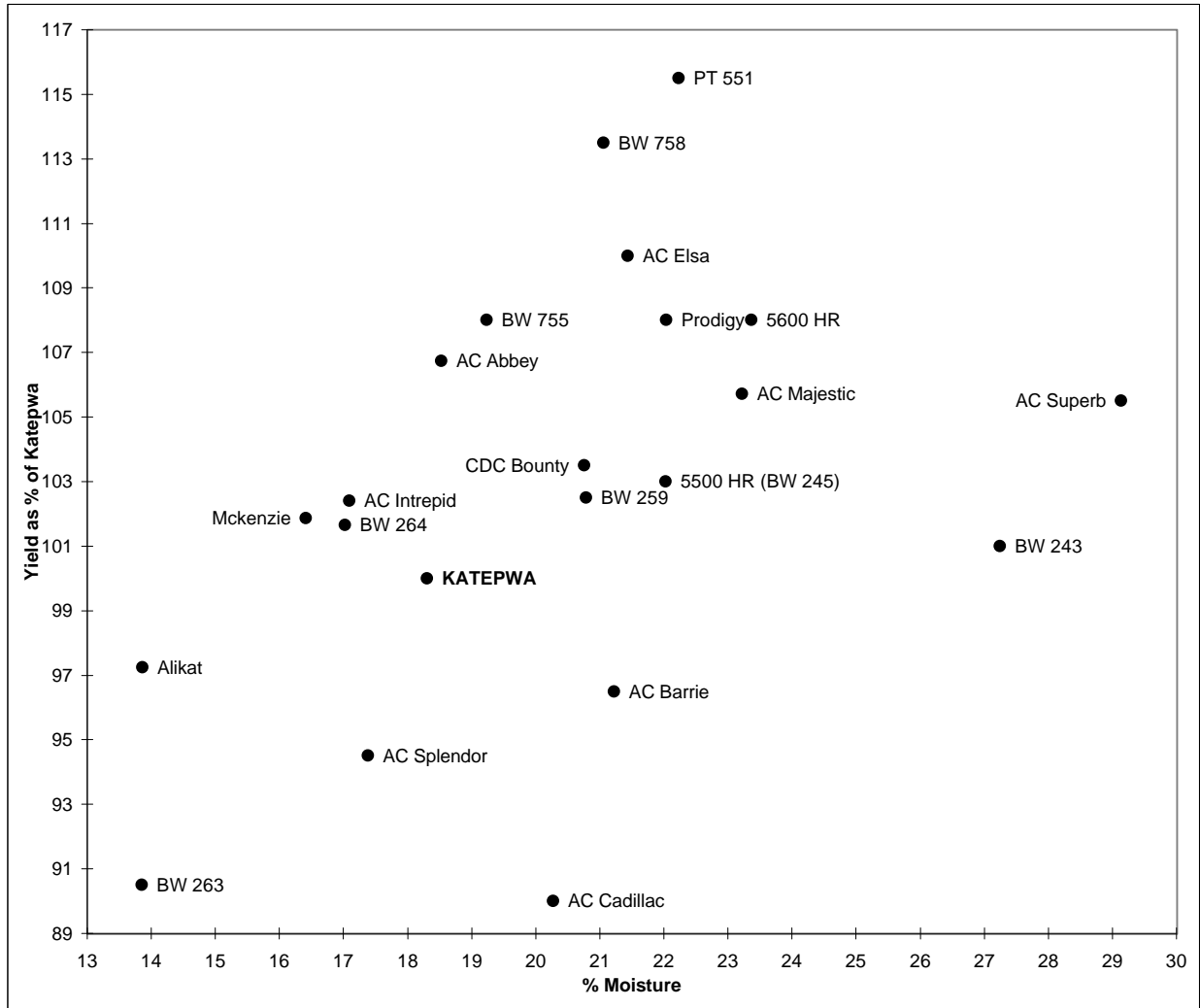
- Protection under Plant Breeders' Rights applied for
- Protected by Plant Breeders' Rights

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



**Protected by Plant Breeders' Rights :**

AC BARRIE            AC ABBEY            AC INTREPID  
 AC CADILLAC      AC ELSA

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

AC SUPERB  
 5600HR

## 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 ( formerly utility 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]

<b>CPS Wheat</b>		<b>Yield as % of AC Taber</b>										
Variety	Type	Dawson Creek				Fort St. John				B.C. Peace		
		2001 Yield		1993-2001		2001 Yield		1994-2001		2001	1993-2001	
		bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
5700PR (HY 961)	CPS red	81 cd	96	103	[2]	94 ab	92	103	[3]	94	103	[5]
AC CRYSTAL	CPS red	100 a	120	106	[4]	100 a	98	98	[6]	109	102	[10]
<b>AC TABER</b>	<b>CPS red</b>	<b>84 cd</b>	<b>100</b>	<b>100</b>	<b>[6]</b>	<b>102 a</b>	<b>100</b>	<b>100</b>	<b>[8]</b>	<b>100</b>	<b>100</b>	<b>[14]</b>
AC VISTA	CPS white	105 a	125	110	[4]	86 b	84	101	[6]	105	105	[10]
AC 2000	CPS white	79 d	94	96	[2]	95 ab	93	101	[3]	94	99	[5]
AC BARRIE	CWRS	64 e	76	76	[1]	68 c	67	67	[1]	71	71	[2]
		LSD (P=.05) = CV value (%) =		6.63 5.27		14.09 10.97						
<b>Varieties not tested in 2001 ( Averages 1989-2000 )</b>										<b>Last Year Tested</b>		
5701PR (HY962)*	CPS red							95	[1]	(2000)	95	[1]
AC FOREMOST	CPS red			96	[5]			100	[7]	(2000)	98	[12]
AC KARMA	CPS white			96	[5]			102	[7]	(2000)	99	[12]
BIGGAR	CPS red			102	[5]			107	[6]	(2000)	105	[11]
CUTLER	CPS red			90	[5]			89	[7]	(1999)	90	[12]

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

**AC TABER - check variety**

\* first year tested, very limited data available

<b>CWES Wheat</b>		<b>Yield as % of AC Taber</b>										
Variety	Type	Dawson Creek				Fort St. John				B.C. Peace		
		2001 Yield		1993-2001		2001 Yield		1994-2001		2001	1993-2001	
		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>84 cd</b>	<b>100</b>	<b>100</b>	<b>[6]</b>	<b>102 a</b>	<b>100</b>	<b>100</b>	<b>[8]</b>	<b>100</b>	<b>100</b>	<b>[14]</b>
AMAZON	CWES	85 cd	101	102	[2]	83 b	81	87	[4]	91	94	[6]
ES21	CWES	92 b	109	109	[1]	82 bc	80	80	[1]	95	95	[2]
AC GLENAVON	CWES	87 bc	103	103	[1]	83 b	81	93	[2]	92	98	[3]
AC BARRIE	CWRS	64 e	76	76	[1]	68 c	67	67	[1]	71	71	[2]
		LSD (P=.05) = CV value (%) =		6.63 5.27		14.09 10.97						
<b>Varieties not tested in 2001 ( Averages 1989-2000 )</b>										<b>Last Year Tested</b>		
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 1994-2001				2001 Average 0-9 scale (0=nil)**				Resistance to					Distributor
		Head %Moist.	Height cm	Bushel Weight lbs/bu	Protein % [st.yrs]	Septoria complex	Powdery Mildew	Lodging	Shatter	Root Rot	Loose Smut	Common Bunt	Sprouting		
<input type="checkbox"/> 5700PR (HY961)	CPS red	23.0	79	73	10.5 [2]	3.57	0.88	0	G	F	P	G	P	AgriPro	
<input checked="" type="checkbox"/> AC CRYSTAL	CPS red	23.6	81	69	10.2 [2]	2.44	1.76	0.63	G	P	F	G	P	SeCan	
<input checked="" type="checkbox"/> <b>AC TABER</b>	<b>CPS red</b>	<b>21.0</b>	<b>82</b>	<b>66</b>	<b>10.6 [2]</b>	<b>2.57</b>	<b>1.44</b>	<b>0.32</b>	<b>G</b>	<b>F</b>	<b>P</b>	<b>G</b>	<b>P</b>	<b>SeCan</b>	
<input checked="" type="checkbox"/> 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	
<input type="checkbox"/> AC2000	CPS white	25.8	82	72	10.7 [2]	3.5	2.19	0.19	G	F	F	G	F	SeCan	
<input type="checkbox"/> AMAZON	CWES	27.7	102	69	11.9 [2]	3.38	1.25	2.63	G	F	G	F	P	Canterra	
<input type="checkbox"/> AC GLENAVON	CWES	23.3	116	76	12.5 [2]	3	1.07	2.88	G	F	G	F		SeCan	
<input type="checkbox"/> ES21*	CWES	35.0	113	87	13.1 [2]	2.94	0.94	1.75						Quality Assured	
<input checked="" type="checkbox"/> AC BARRIE	CWRS	26.6	106	66	14.3 [2]	4.88	3.07	0	G	F	G	G	G	SeCan	
Varieties not tested in 2001 ( Averages 1989-2000 )															
<i>5701PR(HY962)*</i>	CPS red		80	61.3										Proven Seeds	
AC CORINNE	CWES	27.4	91	60.5					G	G	F	G	G	F	Performance
AC FOREMOST	CPS red	16.6	72	61.5					EX	G	F	G	G	F	SeCan
<input checked="" type="checkbox"/> AC KARMA	CPS white	15.8	83	62.1					G	G	F	G	G	P	SeCan
BIGGAR	CPS red	18.8	76	61.3					G	G	F	P	F	F	SeCan
BLUESKY	CWES	17.8	99	60.8					F	G	G	G	F	F	SeCan
CUTLER	CPS red	13.9	77	62.0					G	G	F	P	P	F	UofA
GLENLEA	CWES	24.6	102	61.2					G	G	G	G	F	G	public
LASER	CWES	18.1	90	61.3					EX	G	F	G	P	G	Canterra
WILDCAT	CWES	16.0	89	58.6					F	G	F	G	P	F	SeCan

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

### AC TABER - check variety

- Protection under Plant Breeders' Rights applied for
- Protected by Plant Breeders' Rights

# CPS / CWES Wheat

# Regional Variety Performance 1994-2001

