



B.C. GRAIN  
PRODUCERS  
ASSOCIATION

# FIELD CROP VARIETY PERFORMANCE



Cereal Plots at Fort St. John

## B.C. PEACE RIVER REGION 2002



**PEACE RIVER AGRICULTURE  
DEVELOPMENT FUND**



**Investment  
Agriculture  
Foundation**  
*of British Columbia*

# BC Grain Producers Association

## 2002 Field Crop Variety Performance

### BC Peace River Region

#### Introduction and Acknowledgements

This report summarizes the *Field Crop Variety Performance Trials* that are conducted by the *Research Committee* of the *BC Grain Producers Association*, and is the result of funding and partnering with the following organizations:

*Investment Agriculture Foundation of BC*  
*BC Peace River Grain Industry Development Council*  
*Peace River Agricultural Development Fund*

*AGRICORE UNITED* and *LOUIS DREYFUS* should also be recognized for their contribution via protein analysis, *PEACE TRACTOR* for their help with our machinery needs, as well as other help offered from the *BC Ministry of Agriculture, Food and Fisheries*. We should all thank these organizations for their financial support and or input in making our field-testing and the production of this book possible. A special thanks is also extended to the two cooperators who have generously given their support to the variety and agronomic testing program. In 2002 the cooperators were once again:

*Dennis Meier, Dawson Creek*  
*Cameron Fines, Fort St. John*

Further thanks goes out to the field and lab team who helped make this a successful year. They are Research Assistant **Colleen Giesbrecht**, and Field Technicians **Greg Anderson, Adam Boe, and Dean Mattson**.

This report, like past issues of "*Field Crop Variety Performance Trials*", reports all regional trial results from plots grown during the 2002-growing season. Readers of this report must **interpret and use one-year data with considerable caution**, particularly when viewing the scatter-point graphs on yield and maturity. A variety more often than not changes position on the graph after additional results are obtained, simply as the result of variable weather patterns averaged in over time. This publication reports the 2002 research results from both Dawson Creek and the Fort St. John site, with a summary of 1995-2002 data where available.

This book is produced without bias and is reported to the best of our ability from data collected. It should only be used as a guide, and where labels are available with your product, always follow label directions.

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## BC Grain Producers Association Reference & Terminology

### Station Years

The number of station years that the variety has been tested can be seen in the Yield tables inside the square brackets [ ]. A station year is one test site at one location in one year. For example, a canola trial conducted at two locations over three years would be six station years. We advise using caution if the data is based on less than six station years in total, or three years at any given location.

### Interpreting Yield Results

Yields are displayed as *percentage of the check varieties* and as *bushels per acre (bus/ac)*, wherever possible. Yields here are the result of *small plot production*, and the same level of production is unlikely to be achieved on a large-scale basis. Wet areas and variable soil fertility affect field scale production, in contrast to the research plots where consistency is attempted. However, the crops in this book are managed using the same level of inputs as field sized recommendations would suggest, but small plots are subject to *edge effect*. Edge effect is caused by the spaces around the individual plots allowing extra sunlight to penetrate, boosting yields on these exposed outer plants, as compared to the average plant in a field scale situation that would be shadowed by its neighbors. **The important concept here is that these effects are equal for all small plots in a given trial, and as such we can therefore compare varieties in each trial and look at resulting yields as relative to one another.** Unfortunately statistics, which are vital, cannot be used on "*percent of check variety*". Thus we elected to show *bushels per acre* where possible, for the sole purpose of displaying statistical results. Treat *all* yields, (*percent of check* and *bushels per acre*), as relative.

Agronomic information for the check variety has been bolded in all the tables.

### Plant Breeders Rights

The Plant Breeders' Rights (PBR) gives plant breeders' "copyright" protection of a new variety for up to 18 years. Once a variety has been granted PBR, the breeder has control over the multiplication and sale of seed of a new variety. The breeder can take legal action for damages if someone infringes on their right. Farmers may save some seed for seeding the next year on their own farm. Sale of the crop as seed for planting purposes is not allowed. Some new transgenic herbicide tolerant varieties have additional restrictions through '*technical use agreements*'.

Varieties protected by PBR can be identified by their PBR logo on a seed bag, seed tag or advertising material.

### Good Seed

The cost of *certified seed* is a small additional expense in relation to total crop production input costs, especially when changing to a different variety. Certified seed assures genetic purity, high germination rates and low percentage of other crop and weed seeds when compared to common seed. Certified seed can be purchased in bulk from authorized establishments, (see page 42).

### Seed Treatment

Choosing disease-resistant varieties and using certified, plump, treated seed goes a long way in the fight against plant disease. The cost of a fungicide or combined fungicide/insecticide seed treatment is a small price to pay for the amount of protection they can provide. Treated seed must not contaminate grain delivered to an elevator or be used for feed.

- ◆ Cereal seed should be treated to control *true loose smut*.
- ◆ Seed of rye, winter wheat and flax should be treated to control *seedling blight*. Winter wheat and rye also require protection against *smut*.
- ◆ Canola seed should be treated to control seed borne *blackleg*, *damping off* and early *flea beetle* attack.

### Ergot

Ergot can attack all varieties of wheat, barley, rye, triticale, and most common species of grass. Oat varieties are rarely attacked. Grain having 0.1% ergot is considered poisonous to livestock and should not be used as feed grain.

### Seed Inoculation

Peas can make much of their nitrogen (N) requirement from the air through a partnership with soil bacteria called Rhizobium. The pea seed must be inoculated immediately before or during seeding with a proper strain of bacteria specific to peas. Granular formulations placed with the seed, have had good results in our Peace soils. Rhizobium is living organisms so check the expiry date on the package and follow inoculant label directions carefully. High soil nitrogen levels (over 60 kg N/ha) will reduce nodulation in the field. Cool, dry, or excessively wet soils, provide a harsh environment for proper inoculation and under these conditions, a low level of nodulation formation will be seen. Granular inoculant placed with the seed was used on all pea trials seen here.

### Seeding Rates

While the following range of seeding rates has given equal yields for each crop in trials, experience has shown that the top end of the range provides more consistent results. Risk can be reduced under conditions of stress that impair emergence by increasing seeding rates. In addition, higher seeding rates can reduce the amount of secondary tillering, produce earlier and more uniform maturity, and reduce the amount of green kernels.

Tests conducted by the Beaverlodge Research Station several years ago throughout the Peace showed that by increasing the seeding rate of wheat from 80 to 120 lbs/ac (90 to 134 kg/ha) that the time to maturity was reduced by two days.

Suggested Rates of Seeding		
Wheat	90 - 120 lb/ac	100 - 135 kg/ha
CPS Wheat	130 - 180 lb/ac	145 - 200 kg/ha
Barley	75 - 100 lb/ac	85 - 110 kg/ha
Oats	70 - 90 lb/ac	85 - 100 kg/ha
Flax	26 - 40 lb/ac	30 - 35 kg/ha
Rye	65 - 85 lb/ac	73 - 95 kg/ha
Peas	150 - 300 lb/ac	165 - 330 kg/ha
Argentine Canola	5 - 8 lb/ac	6 - 9 kg/ha
Polish Canola	5.5 lb/ac	6 kg/ha

Due to large differences in seed size with a crop like peas, seeding rates can vary considerably. A preferred way of dealing with seeding rate is to base it on a *target number of viable seeds per square foot*. Using the 1000 kernel weights, adjusting for percent germination and allowing for seed decay (3%), calculate the number of pounds of seed required per acre.

Crop	Type	Seeds / sq.ft	1000 K wt
Wheat	CWRS	24 - 25	35 - 44 g
	CPS/CWES	24 - 25	44 - 52 g
Barley	6 Row	24 - 25	35 - 43 g
	2 Row	24 - 25	44 - 53 g
Oats (Hulled)		24 - 25	38 - 47 g
Rye		24	30 - 35 g
Peas		8	200 - 345 g

#### Example

Target **8** pea plants per square foot, the variety has a 1000 K wt. of **250** grams, and you estimate that between seed decay and percent germination of the seed lot that you will have **90%** of the seeds grow into healthy plants.

$$\frac{8 \text{ plants/sq.ft} \times 250 \text{ (g/1000 K)}}{90 (\%)} \times 10 = 222 \text{ lb/acre}$$

You would plant 222 lbs. of pea seed/acre.

## BC Grain Producers Association 2002 Growing Conditions

The spring of 2002 was delayed in the BC Peace River region by about three weeks due to late spring moisture and cool backward weather. However, most crops made up for the lost time rapidly during the month of June, when above normal warm weather set in. Heading and flowering dates were only a day or two off from last year's calendar dates within the research plots.

Unfortunately two things then happened. In the South Peace precipitation stopped after June, giving a total of only some 149 mm of rainfall over the entire barley-growing period for example. The second thing to happen for the whole BC Peace region was to see a return to cool weather for the months of July and August. Crops were once again set back in growth, although drought induced stress in the South Peace area "helped" force crops to catch up at the expense most often of quality.

Drought brought outbreaks of *Thrips*, (very small plant-juice sucking insect), to barley and wheat mainly in southern areas, which brought an early death to those all so important flag leaves. Their presence often went unnoticed as the pest congregated under the leaf sheath of the flag leaf, but the final result was a noticeable downgrading of seed quality, (such as frost-like symptoms reducing plumpness, color, and bushel weights).

Late season moisture, although minimal in total amounts, came in September and October, which caused a lot of re-growth issues to develop across the entire BC Peace, and even delayed maturity further. In the fall harvest was delayed due to this continued dampness, which took the form mainly as heavy prolonged fog, but also some early snow.

The lack of strong rains meant lodging was never a large issue, nor was disease on most crops. Some *Scald* on barley and *Septoria* on wheat was present in plots in the North Peace, and results have been used here to add to the database.

2002 was a tough year all around, but one that can be used to help screen out late lines for most crops.

Refer to the back of this report for a total weather report via graphs.

## Interpreting Data

The yield for each variety is reported on a regional basis for the Dawson Creek and Fort St. John areas as well as an average for the entire BC Peace. Also, the number of years each variety has been tested is given for each of the two regions. In the following examples, the number of years is indicated in [ ] right after the yield. "Station years" are the total number of times a variety has been tested in these trials.

Six Row Barley		Yield as % of Harrington								
Variety	Type	Dawson Creek			Fort St. John			B.C. Peace		
		2001 Yield	1993-2001 Avg.	Stn.Yrs.	2001 Yield	1993-2001 Avg.	Stn.Yrs.	2001 Yield	1993-2001 Avg.	Stn.Yrs.
AC HARPER	feed	113		[3]	125	105	[5]	125	109	[8]

Number of years the variety was tested at each station

**Statistical Values** Entries into the Regional trials in 2002 were replicated (or repeated) four times at both locations. Replication is used to derive an overall average per entry per trial, and allow for statistics.

**Coefficient of Variance (CV value)**, is a number given as a percentage, that basically tells us how statistically sound or reliable a given data set is. Generally, any value less than or equal to 15% is considered to be acceptable or "sound" data. This means if you were to repeat the trial under similar conditions, you would likely get the same results, or at least we are 95% confident that we would. We tend to be a little more lenient on this 15% for such things as disease or insect data, as such things are normally highly variable due the nature of the beast, but we do not like to see yield data from a single trial with a high CV value. Anything less than 10% is considered excellent, which most of 2002 data is.

**Least Significant Difference test (LSD value)**, are those little letters behind the *data means*. Basically, if two or more *data means* (or averages) have the same letter behind their number, they are NOT significantly different from one another according to statistics. Therefore means or averages with the same letter should not be viewed as one being "superior" or "inferior" from the other or others of the same letter. LSD takes variability into account, and compares "apples" to "apples".

Example:

Variety	Dawson Creek		
	2001 Yield	1993-2001 Avg.	Stn.Yrs.
Super X	105 ab	102	[3]
Superdooper Y	107 a	105	[3]
So-So 101	100 b	98	[2]
Old Goody	95 c	97	[6]

← In this example some people might think variety "Superdooper Y" is superior to variety "Super X" and "So-So 101". This is not true according to statistics, "Superdooper Y" is superior to variety "So-So 101", but is equivalent to "Super X" in yield because both "Superdooper" and "Super X" have the letters "a" with them. In this example "Super X" is not superior (or significantly different), from variety

"So-So 101" either, as both have a "b" behind their means. Also, "Superdooper Y", "Super X", and "So-So 101" are superior to, (or a better term is significantly different from), "Old Goody". Note in this report we only have LSD values for 2002 data, and thus you should still take great notice of the long term averages. **For any varieties with less than three station years of data, you must compare data with caution.**

## Fertilizer Rates

Fort St. John, B.C.					Legal Description: SW19 Tp84 R18 W6								
Estimated available					Fertilizer Applied	kg/ha	Placement	Product: Recom. vs. Applied	Enviro-Test Labs				
N	P	K	S	N					P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S		
<b>Canola</b>													
kg/ha					27-0-0-12	214	banded	Recommended =	50	30	15	12	
lb/ac					6-26-30	100	banded	Actually applied =	76	47	34	29	
					12-52-0	30	in-furrow	(soil sampling results came in after planting)					
<b>Flax</b>													
kg/ha	40	46	1345	55	20-10-10-5	171	banded	Recommended =	40	30	15	0	
lb/ac	36	41	1200	49				Actually applied =	42	37	19	10	
pH 6.4					12-52-0	30	in-furrow						
<b>Wheat &amp; Barley</b>													
kg/ha	85	33	751	37	20-10-10-5	151	banded	Recommended =	30	35	10	5	
lb/ac	76	29	670	33				Actually applied =	38	34	17	8	
pH 6.1					12-52-0	30	in-furrow						
<b>Oats</b>													
					20-10-10-5	100	banded	Actually applied =	21	23	9	4	
<b>Peas</b>													
kg/ha	28	15	628	22	20-0-0-24	75	banded	Recommended =	25	40	15	15	
lb/ac	25	13	560	20	6-26-30	75	banded	Actually applied =	26	39	25	20	
pH 6.2					12-52-0	12	in-furrow						

Dawson Creek, B.C.					Legal Description: NE18 Tp78 R14 W6								
Estimated available					Fertilizer Applied	kg/ha	Placement	Product: Recom. vs. Applied	Enviro-Test Labs				
N	P	K	S	N					P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S		
<b>Canola</b>													
kg/ha	93	50	706	30	27-0-0-12	214	banded	Recommended =	50	30	15	12	
lb/ac	83	45	630	27	6-26-30	100	banded	Actually applied =	76	47	34	29	
pH 5.7					12-52-0	30	in-furrow	(soil sampling results came in after planting)					
<b>Flax</b>													
kg/ha	62	35	829	34	20-10-10-5	123	banded	Recommended =	12	30	12	5	
lb/ac	55	31	740	30				Actually applied =	32	31	14	7	
pH 6.3					12-52-0	30	in-furrow						
<b>Wheat &amp; Barley</b>													
kg/ha	117	49	740	38	20-10-10-5	137	banded	Recommended =	30	30	15	10	
lb/ac	104	44	660	34	0-0-62	20	banded	Actually applied =	35	54	29	8	
pH 5.7					12-52-0	30	in-furrow						
<b>Oats</b> (20-10-10-5 not applied with oats)													
								Actually applied =	8	33	15	0	
<b>Peas</b>													
kg/ha	161	66	729	39	20-0-0-24	45	banded	Recommended =	0	30	15	15	
lb/ac	144	59	650	35				Actually applied =	11	14	0	10	
pH 5.6					15-52-0	30	in-furrow						

## Herbicide Applications

Fort St. John, B.C.		Legal Description:	SW19 Tp84 R18 W6	
Crop	Date Applied	Product Used		Rate
Canola	13-Jun-02	Muster (ethametsulfuron methyl)		12 g/ac
		Poast Ultra (sethoxydim)		190 ml/ac
		Lontrel (clopyralid)		227 ml/ac
		Merge		400 ml/ac
	13-Jun-02	Decis (Insecticide for Flea Beetle)		60 ml/ac
	8-Jul-02	Matador (Insecticide for Lygus Bug)		40 ml/ac
	25-Sep-02	Reglone (diquat)		1 L/ac
		AgSurf		150 ml/ac
Flax	22-Jun-02	Buctril M (bromoxynil + MCPA)		400 ml/ac
		Poast Ultra (sethoxydim)		220 ml/ac
		Merge		400 ml/ac
Wheat, Barley, Oats, Triticale	12-Jun-02	Buctril M (bromoxynil + MCPA)		400 ml/ac
Peas	14-Jun-02	Odessey (imazamox 35% & imazethapyr 35%)		17 g/ac
		Poast Ultra (sethoxydim)		190 ml/ac
		Merge		400 ml/ac

Dawson Creek, B.C.		Legal Description:	NE18 Tp78 R14 W6	
Crop	Date Applied	Product Used		Rate
Canola	14-Jun-02	Lontrel (clopyralid)		337 ml/ac
		Decis (Insecticide for Flea Beetle)		60 ml/ac
	8-Jul-02	Matador (Insecticide for Lygus Bug)		40 ml/ac
Flax	22-Jun-02	Buctril M (bromoxynil + MCPA)		400 ml/ac
		Poast Ultra (sethoxydim)		430 ml/ac
Wheat, Barley, Triticale	12-Jun-02	Curtail M (clopyralid + MCPA ester)		800 ml/ac
Oats	11-Jun-02	Curtail M (clopyralid + MCPA ester)		800 ml/ac
Peas	14-Jun-02	Odessey (imazamox 35% & imazethapyr 35%)		17 g/ac
		Poast Ultra (sethoxydim)		190 ml/ac
		Merge		400 ml/ac

## Planting and Harvest Information

Loc.	Crop	Seeding rate		Date Planted	Air/Soil Temp (C°) @ plant	Seeding Depth	Harvest Date	Harvesting Method
		lbs/ac	kg/ha					
<b>FSJ</b>	Napus Canola	8	8.9	20-May-02	12 / 9	0.5 inch	8-Oct-02	desiccate/direct
	Rapa Canola	5.8	6.5	20-May-02	12 / 9	0.5 inch	20-Sep-02	desiccate/direct
	Flax	38	43	25-May-02	18 / 12	0.75 inch	30-Oct-02	direct cut
	Barley	77	86	23-May-02	6 / 8	0.5 - 1 inch	17-Sep-02	direct cut
	CWRS Wheat	90	101	23-May-02	6 / 8	0.5 - 1 inch	8-Oct-02	direct cut
	CPS/CWES	90	101	23-May-02	6 / 8	0.5 - 1 inch	14-Oct-02	direct cut
	Oats	81	90	23-May-02	6 / 8	0.5 - 1 inch	20-Sep-02	direct cut
	Triticale	117	131	23-May-02	6 / 8	0.5 - 1 inch	14-Oct-02	direct cut
	Peas	149	149	23-May-02	12 / 9	1.5 inch	5-Oct-02	desiccate/direct
<b>DC</b>	Napus Canola	8	8.9	17-May-02	12 / 9	0.5 inch	--	
	Rapa Canola	5.8	6.5	17-May-02	12 / 9	0.5 inch	18-Sep-02	desiccate/direct
	Flax	38	43	27-May-02	23 / 16	1 inch	5-Nov-02	direct cut
	2Row Barley	77	86	22-May-02	10 / 8	1-1.5 inch	9-Sep-02	direct cut
	6Row Barley	77	86	22-May-02	10 / 8	1-1.5 inch	11-Sep-02	direct cut
	Hulless Barley	77	86	22-May-02	10 / 8	1-1.5 inch	11-Sep-02	direct cut
	CWRS Wheat	90	101	22-May-02	10 / 8	1-1.5 inch	24-Sep-02	direct cut
	CPS/CWES	90	101	22-May-02	10 / 8	1-1.5 inch	4-Oct-02	direct cut
	Oats	81	90	22-May-02	10 / 8	1.5 inch	17-Sep-02	direct cut
	Triticale	117	131	22-May-02	10 / 8	1.5 inch	4-Oct-02	direct cut
	Peas	149	149	23-May-02	8 / 9	2 inch	25-Sep-02	desiccate/direct

# 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		
	2002 Yield		1994-2002			2002 Yield		1994-2002		2002		1994-2002
	bus / acre	% of Check	Avg. (%)	Station Years	Avg. Station (%) Years	bus / acre	% of Check	Avg. (%)	Station Years	Avg. (%)	Avg. (%)	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]	
<b>KATEPWA</b>	<b>50 c-g</b>	<b>100</b>	<b>100</b>	<b>[6]</b>	<b>59 a-f</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>100</b>	<b>100</b>	<b>[15]</b>	
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							
<b>Varieties not tested in 2002 (1989 - 2001)</b>												
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)

\* first year tested, very limited data available

\*\*HWSW Hard White Spring Wheat

**KATEPWA - check variety**



# CWRS Wheat

## Variety Descriptions

Variety	B.C.Peace Averages 1994-2002					B.C. Peace 2001-02				Alberta Agdex 100/32					Distributor
	Whole Head		Bushel			0-9 scale (0=nil)**				Resistance to					
	Moist.	+/- check***	Height cm	Weight lbs/bu	Protein % [st.yrs]	Septoria complex	Powdery Mildew	Lodging	Shatter	Root Rot	Loose Smut	Common Bunt	Sprouting		
■ 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	
<b>KATEPWA</b>	20.8	0.0	93	61.5	13.4 [5]	4.0	1.4	1.2	<b>G</b>	<b>F</b>	<b>G</b>	<b>G</b>	<b>F</b>	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	F	SeCan	
AC DOMAIN	19.5		85	62.4	14.2				VG	G	F	G	F	SeCan	
AC EATONIA	23.1		92	61.1	12.9				F	G	F	F	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	F	SeCan	
AC MINTO	14.6		94	62.5					G	G	F	G	F	SeCan	
CDC MAKWA	14.9		89	61.9					G	P	G	F	P	SeCan	
CDC MERLIN	14.9		96	62.1					G	G	F	F	G	SeCan	
COLUMBUS	25.5		88	63.2					G	G	F	F	G	SeCan	
CONWAY	21.4		85	62.8					G	G	F	G	F	Agricore United	
LAURA	24.1		92	61.1	13.0				G	G	F	F	P	SeCan	
NEEPAWA	20.0		91	60.9					G	G	F	G	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	LRC	
PASQUA	15.8		87	61.8					G	G	P	P	F	SeCan	
PT 551	22.2		108	64.5	13.1 [2]	3.32	1.01	0.13						Agricore United	

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

F = fair, P = poor (susceptible)

\* first year tested, very limited data available

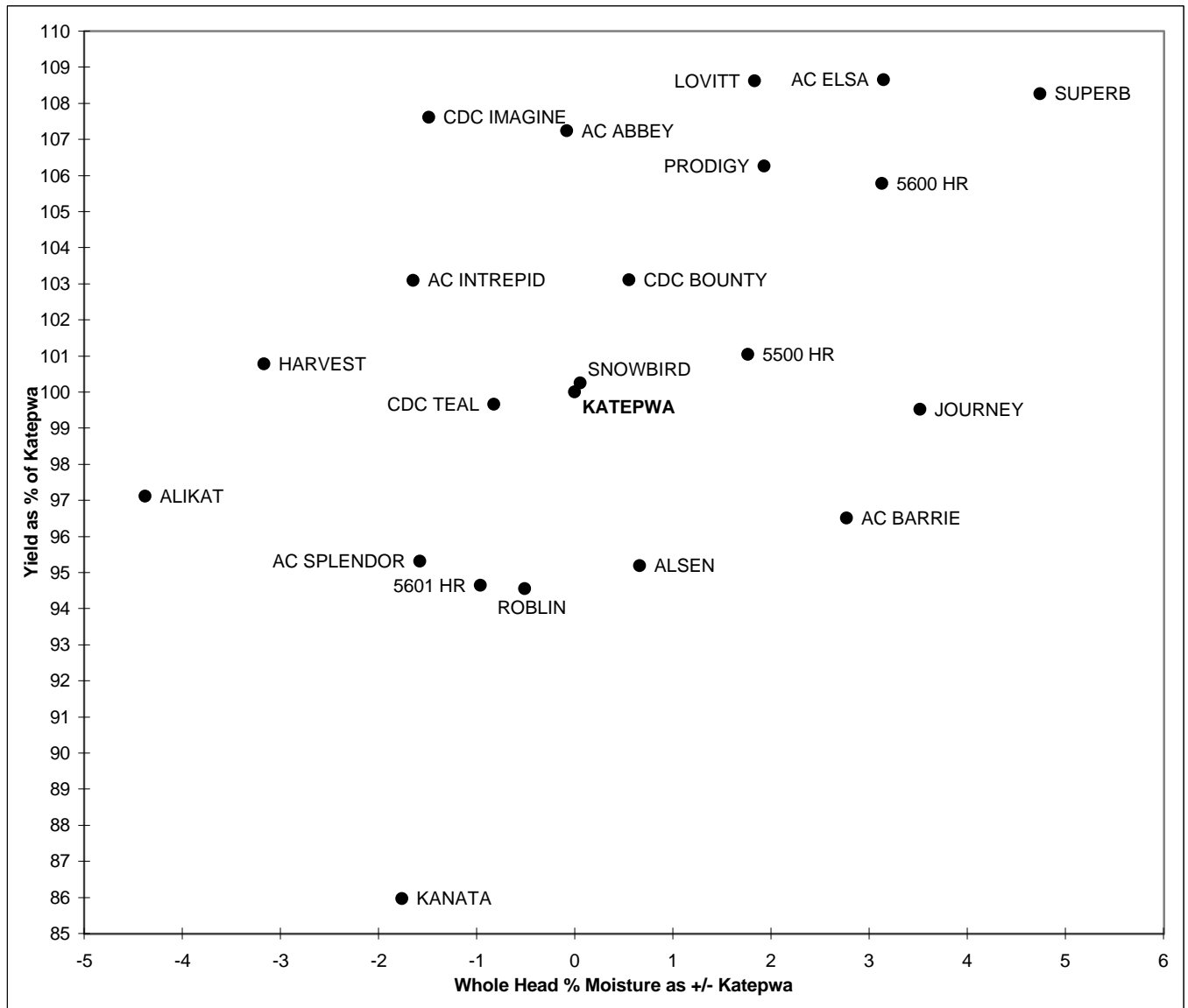
\*\* 0 - 9 scale; 0 = none, 9 = 100% affected

### KATEPWA - check variety

□ Protection under Plant Breeders' Rights applied for

■ Protected by Plant Breeders' Rights

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.



**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										
Variety	Type	Dawson Creek				Fort St. John				B.C. Peace		
		2002 Yield		1993-2002		2002 Yield		1994-2002		2002	1993-2002	
		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]
<b>AC TABER</b>	<b>CPS red</b>	<b>48 c</b>	<b>100</b>	<b>100</b>	<b>[7]</b>	<b>63 a</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>100</b>	<b>100</b>	<b>[16]</b>
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						
<u>Varieties not tested in 2002 ( Averages 1989-2001 )</u>									<u>Last Year Tested</u>			
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										
Variety	Type	Dawson Creek				Fort St. John				B.C. Peace		
		2002 Yield		1993-2002		2002 Yield		1994-2002		2002	1993-2002	
		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>48 c</b>	<b>100</b>	<b>100</b>	<b>[7]</b>	<b>63 a</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>100</b>	<b>100</b>	<b>[16]</b>
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						
<u>Varieties not tested in 2002 ( Averages 1989-2001 )</u>									<u>Last Year Tested</u>			
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					B.C. Peace 2001-02				data Alberta Agdex 100/32					Distributor
		***Whole Head		Height cm	Bushel		0-9 scale (0=nil)**				Resistance to					
		% Moist.	+/- check***		Weight lbs/bu	Protein % [st.yrs]	Septoria complex	Powdery Mildew	Lodging	Shatter	Root Rot	Loose Smut	Common Bunt	Sprouting		
■ 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	
<b>AC TABER</b>	<b>CPS red</b>	<b>23.9</b>	<b>0.0</b>	<b>80</b>	<b>65</b>	<b>11.7 [4]</b>	<b>2.43</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>	
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	F	CRC
AC KARMA	CPS white	15.8		83	62					G	G	F	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	F	F	SeCan
CUTLER	CPS red	13.9		77	62					G	G	F	P	F	UofA
GLENLEA	CWES	24.6		102	61					G	G	G	F	G	U of M
■ LASER	CWES	18.1		90	61					EX	G	F	G	P	U of A
WILDCAT	CWES	16.0		89	59					F	G	F	G	P	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

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

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

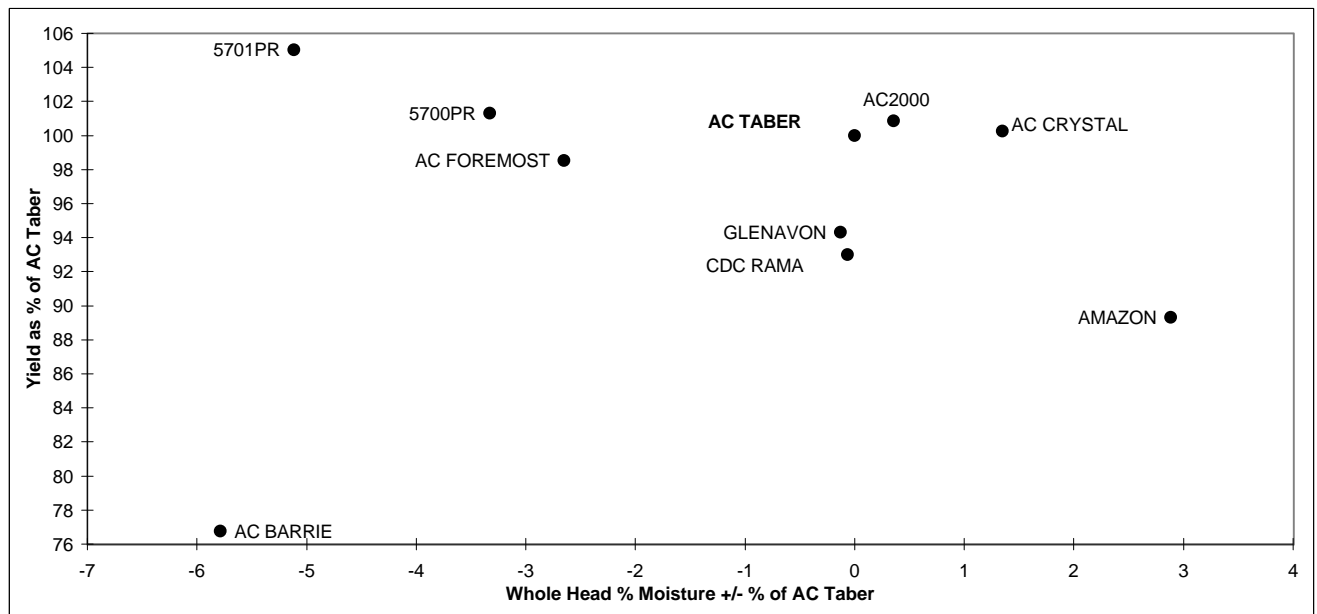
### AC TABER - check variety

□ Protection under Plant Breeders' Rights applied for

■ Protected by Plant Breeders' Rights

# 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				Fort St. John				B.C. Peace			
		2002 Yield		1993-2002		2002 Yield		1993-2002		2002	1993-2002		
		bus / acre	% of check	Avg.	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	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]	
<b>HARRINGTON</b>	<b>2R malt</b>	<b>73 gh</b>	<b>100</b>	<b>100</b>	<b>[7]</b>	<b>90 de</b>	<b>100</b>	<b>100</b>	<b>[10]</b>	<b>100</b>	<b>100</b>	<b>[17]</b>	
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							
<u>Varieties not tested in 2002 ( Averages 1989-2001 )</u>												<u>Last Year Tested</u>	
AC STACEY	feed			116	[3]			98	[3]	( 1996 )	107	[6]	
ARGYLE	malt			107	[8]			99	[3]	( 1994 )	103	[11]	
BT 435	malt			111	[1]			103	[2]	( 2000 )	107	[3]	
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]	
CDC YORKTON	malt			113	[1]			106	[3]	( 2000 )	109	[4]	
FOSTER	malt			104	[2]			96	[4]	( 2000 )	100	[6]	
DUEL	malt			100	[6]			94	[3]	( 1995 )	97	[9]	
DUKE	feed(sd)			101	[8]			118	[4]	( 1995 )	110	[12]	
GAMINE *				120	[1]			100	[1]	( 2001 )	110	[2]	
HEARTLAND	feed			104	[8]			96	[3]	( 1994 )	100	[11]	
JACKSON	feed			92	[8]			94	[4]	( 1995 )	93	[12]	
LEDUC	feed			108	[8]			109	[4]	( 1995 )	109	[12]	
PROSPECT	malt			93	[2]			98	[2]	( 1997 )	95	[4]	
WESTFORD *	forage			84	[1]			79	[1]	( 2001 )	81	[1]	
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]	

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

\* first year tested, very limited data available  
(sd) semi-dwarf variety

**HARRINGTON - check variety**

## Two Row Barley

### Yield as % of Harrington

Variety	Type	Dawson Creek				Fort St. John				B.C. Peace				
		2002 Yield		1993-2002		2002 Yield		1993-2002		2002	1993-2002			
		bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	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]		
<b>HARRINGTON</b>	<b>malt</b>	<b>70 f-i</b>	<b>100</b>	<b>100</b>	<b>[7]</b>	<b>76 b-e</b>	<b>100</b>	<b>100</b>	<b>[10]</b>	<b>100</b>	<b>100</b>	<b>[17]</b>		
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								
<u>Varieties not tested in 2002 ( Averages 1989-2001 )</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)			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				Fort St. John				B.C. Peace				
		2002 Yield		1993-2002		2002 Yield		1994-2002		2002	1993-2002			
		bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	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]		
<b>HARRINGTON</b>	<b>2R malt</b>	<b>66 a</b>	<b>100</b>	<b>100</b>	<b>[7]</b>	<b>86 a</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>100</b>	<b>100</b>	<b>[16]</b>		
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								
<u>Varieties not tested in 2002 ( Averages 1989-2001 )</u>												<u>Last Year Tested</u>		
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					B.C. 2001-2002				Alberta Agdex 100/32				Distributor
		2001-02	1993-2002	B.C. Peace Averages			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 (2001)	Root Rot	Loose Smut	False Smut	Smut		
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

(no lodging present to record in 2002)

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

F = fair, P = poor (susceptible)

\* first year tested, very limited data available

**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												
		2001-02		1994-2002 B.C. Peace Averages				2001-02 B.C. Avr.			Alberta Agdex 100/32			Distributor
Variety	Type	B.C. Peace		Days to Maturity	Height cm	Weight lbs/bu	Protein % [st.yrs]	0-9 scale (0=nil)**			Resistance to			
		***% Moist.	+/- of Check					Scald	Net Blotch	Lodging (2001)	Root Rot	Loose Smut	False Smut	
■ 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	
<b>HARRINGTON</b>	<b>2 row</b>	<b>0.0</b>	<b>100</b>	<b>74</b>	<b>54.3</b>	<b>12.9 [8]</b>	<b>4.0</b>	<b>2.8</b>	<b>0.8</b>	<b>F</b>	<b>P</b>	<b>P</b>	<b>SeCan</b>	
■ 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											
		2001-02		1994-2002				2001-2002 Average			Resistance to		
Variety	Type	B.C. Peace		Days to Maturity	Height cm	Weight lbs/bu	Protein % [st.yrs]	0-9 scale (0=nil)**			Resistance to		
		***%Moist.	+/- of Check					Scald	Net Blotch	Lodging (2001)	Root Rot	Loose Smut	False Smut
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)

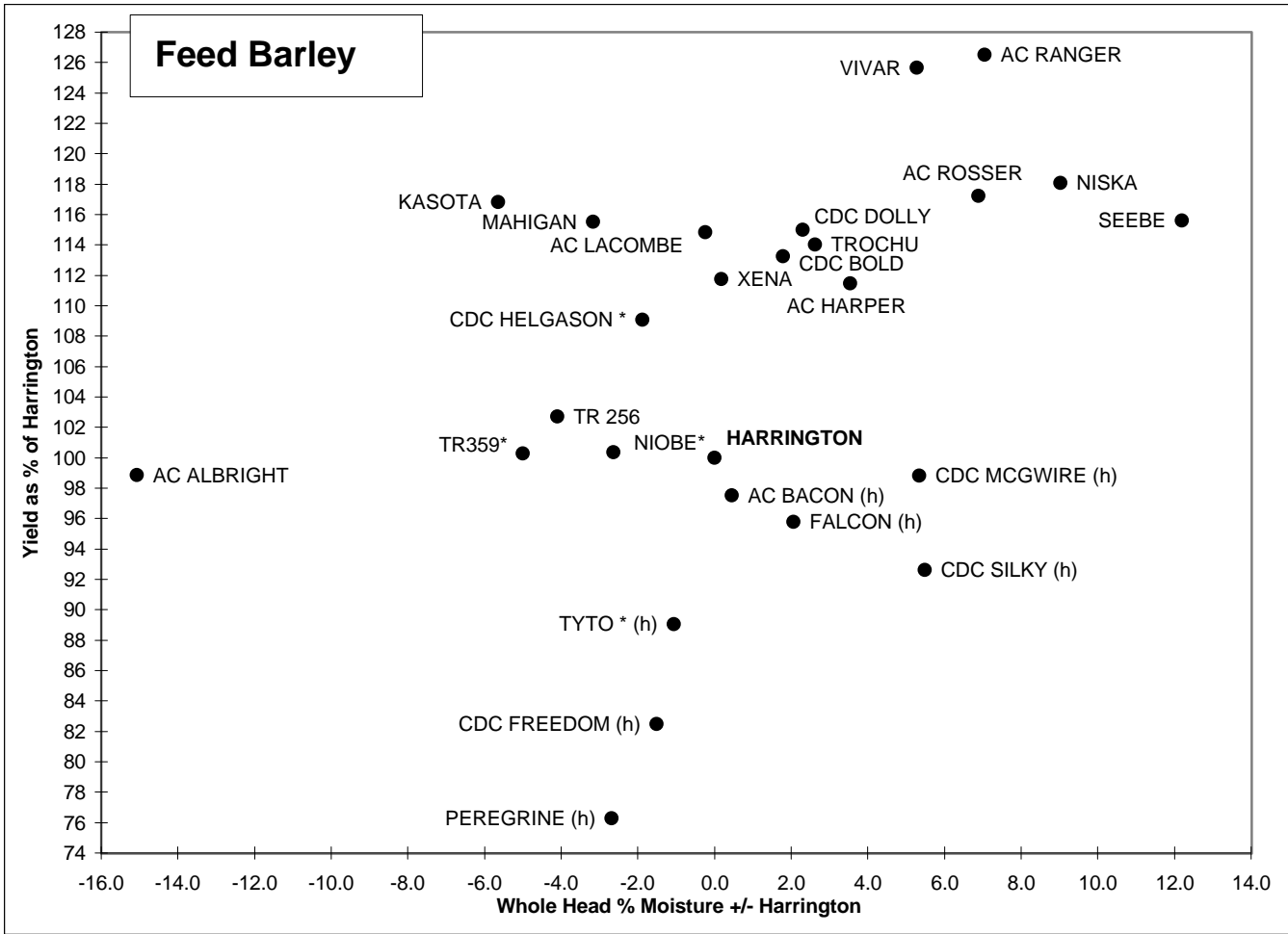
\* first year tested, very limited data available

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

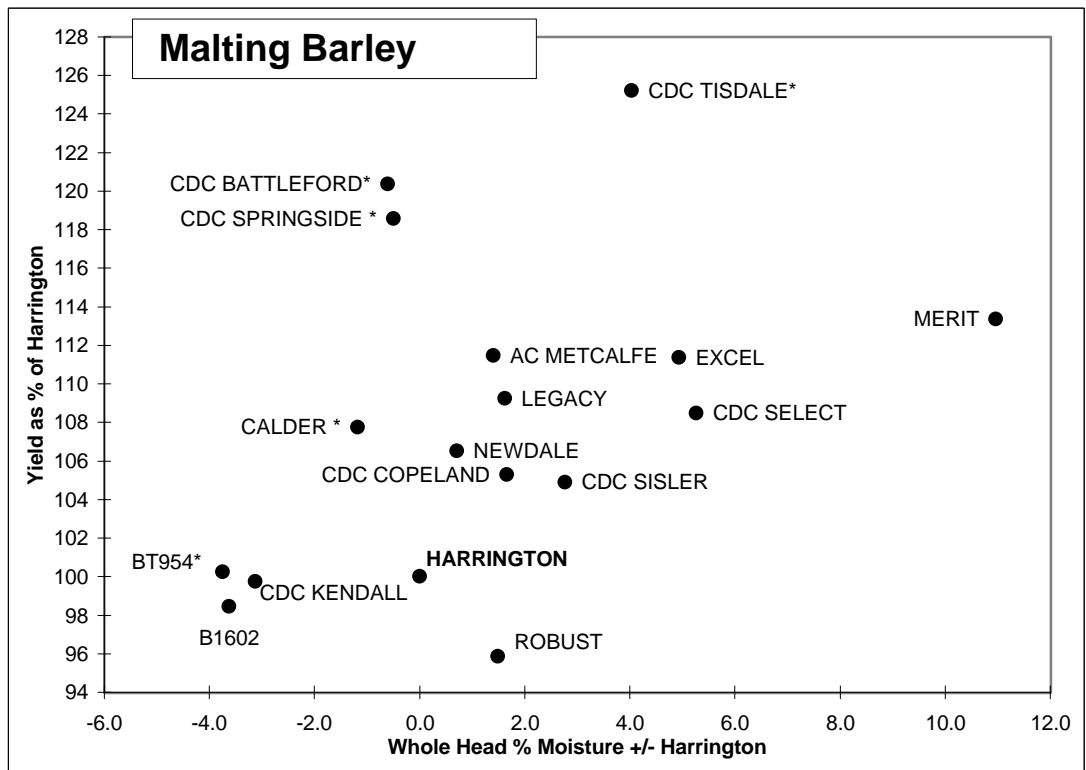


# Barley

## Regional Variety Performance 1993-2002



(h) Hulless



# 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	2002 Yield		1993-2002		2002 Yield		1994-2002		2002	1993-2002	
		bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	(%)	Avg. (%)	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]
<b>CASCADE</b>	<b>yellow</b>	<b>88 ab</b>	<b>100</b>	<b>100</b>	<b>[6]</b>	<b>123 ab</b>	<b>100</b>	<b>100</b>	<b>[10]</b>	<b>100</b>	<b>100</b>	<b>[16]</b>
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						
<u>Varieties not tested in 2002 ( Averages 1989-2001 )</u>						<u>Last Year Tested</u>						
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)				2001 Avg**	Resistance to		Distributor
		Days	***2002	Height cm	Bushel Weight lbs/bu	Lodging 0-9 scale (0=nil)**	Shatter	Smuts	
		to Maturity	Whole Head +/-%moist						
■ 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
<b>CASCADE</b>	<b>feed</b>	<b>109</b>	<b>0.0</b>	<b>106</b>	<b>40</b>	<b>1.4</b>	<b>G</b>	<b>P</b>	<b>SeCan</b>
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
<u>Varieties not tested in 2002 ( Averages 1989-2001 )</u>									
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

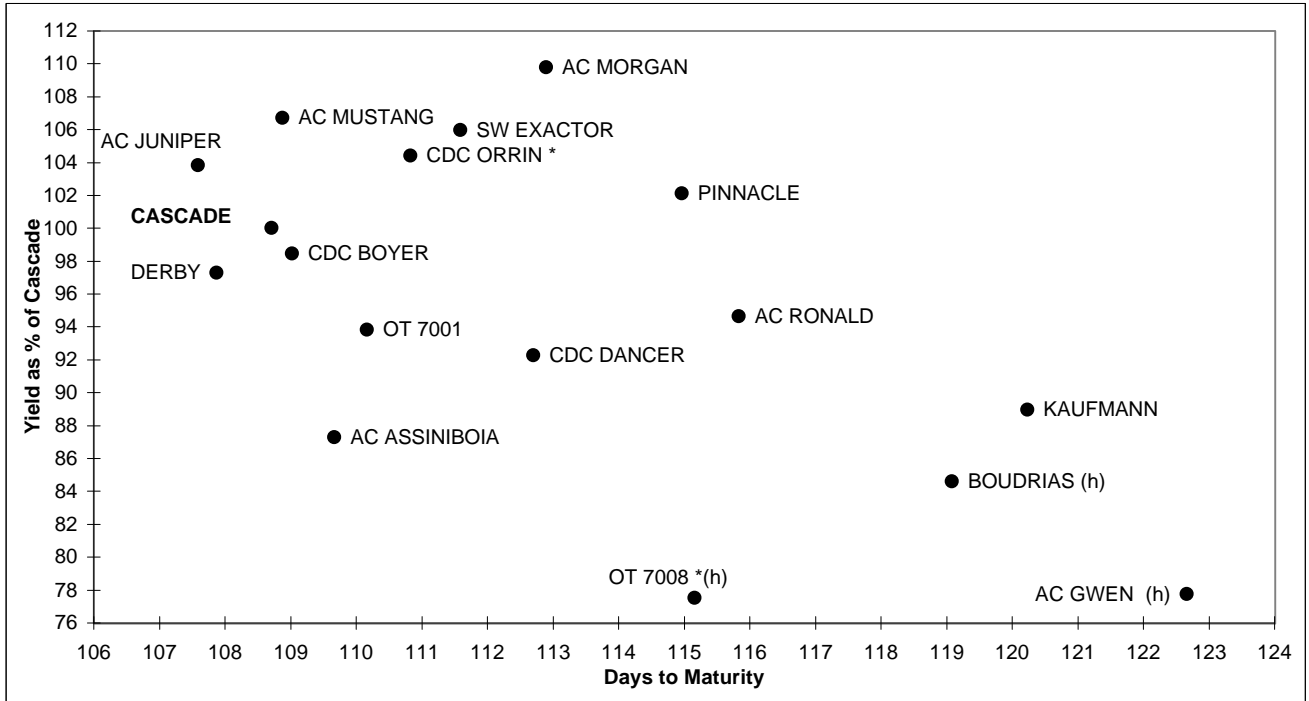
■ Protected by Plant Breeders' Rights

□ Protection under Plant Breeders' Rights applied for

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

no lodging occurred in 2002.

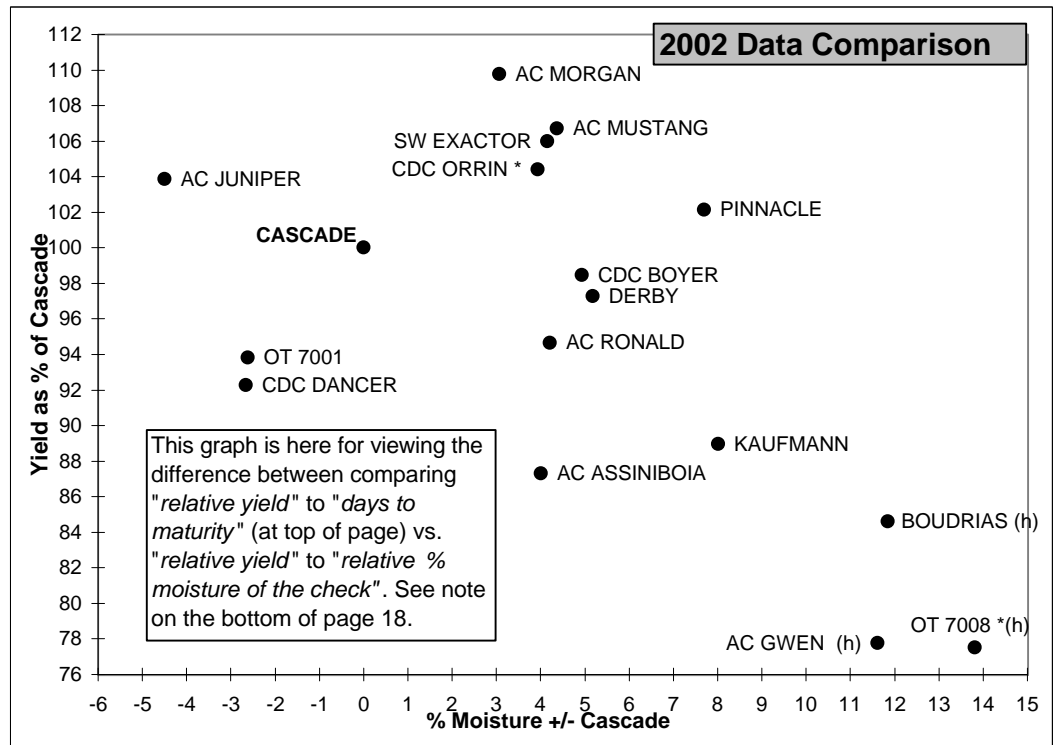
Note: \*\*\*Whole Head +/- %Moisture = To accommodate a more accurate system of comparing maturity *between years*, maturity data, is now being tested with oats to see if it can be applied to oat panicles (heads) in a similar fashion as it is now for barley and wheat heads, (see pages 7 & 11). This data 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 than 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](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. 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				Fort St. John				B.C. Peace		
	2002 Yield		2001-2002		2002 Yield		2001-2002		2002	2001-2002	
	bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	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]	
<b>PRONGHORN</b>	<b>81.7 a</b>	<b>100</b>	<b>100 [2]</b>		<b>89.3 ab</b>	<b>100</b>	<b>100 [2]</b>		<b>100</b>	<b>100 [4]</b>	
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	Height (cm)	Bushel	TKW (g / 1000)	0 - 9 scale; 0=nil		Distributor
		Head % Moist.		Weight (lbs/bus)		Septoria complex	Ergot	
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
<b>PRONGHORN</b>	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		Fort St. John		B.C. Peace 2002 Averages			Whole Head % Moist.	Bushel Weight lb/bu	Height (cm)	Distributor
	2002 Yield		2002 Yield		Yield						
	bus / acre	% of check	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Days to Maturity				
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
<b>AC REED*</b>	<b>57.3 b</b>	<b>100</b>	<b>65 b</b>	<b>100</b>	<b>100 [2]</b>		<b>104</b>	<b>0</b>	<b>62</b>	<b>66</b>	<b>SeCan</b>
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.

## POLISH CANOLA

Polish canola ( *Brassica rapa* ) varieties generally yield considerably less than Argentine ( *Brassica napus* ) types, but mature two to three weeks earlier than the majority of Argentine types. Polish varieties are more resistant to shattering and have seeds that are yellow-brown with generally less chlorophyll than Argentine canola. Polish varieties are more susceptible to *root maggot* and *brown girdling root rot* damage. *Brown girdling root rot* is a concern for Polish Canola in the B.C. Peace region, as it reduces yield and causes problems for swathing.

*Blackleg* has occurred in both the BC and Alberta Peace region, but has never become a big concern. Polish canola is susceptible to *blackleg*, but is not as susceptible to it as Argentine canola due to the fact Polish canola matures earlier reducing the impact of this disease. Even though *Blackleg* is not a big concern, to keep it that way, all canola seed should be treated with the full rate of a seed treatment that controls *seed borne blackleg*, such as the following active ingredients: *benomyl*, *carbathiin*, *iprodione* or *thiabendazole*. Two races of *white rust* (staghead) exist in the area, *Race 7a* and *7v*. All Polish varieties are susceptible to race *7v*. Another strain, *2a*, has been identified in the Peace, and is still being watched for.

Seeding depth, like all canolas, should be shallow, (0.5 to 1.5 inches), and seed should be placed only deep enough to reach moisture. If soil is dry down to two inch depth, it is better to seed shallow and let seed germination wait for rain.

Polish Canola Variety	Combined Regional & WCC/RRC test in 2002								Yield as % of Reward		
	Dawson Creek				Fort St. John				B.C. Peace		
	2002 Yield		1994-2002		2002 Yield		1994-2002		2002	1993-2002	
	bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
ACS-C7*	24 b	78	78	[1]	23 b	77	77	[1]	78	78	[2]
AC Parkland (last tested '92)	24 b	79	91	[2]	23 b	76	90	[4]	78	90	[6]
AC Sunbeam (last tested '00)	24 b	77	99	[2]	23 b	77	103	[5]	77	101	[7]
SW E3255 <sup>1*</sup> experimental	33 a	107	2	[1]	32 a	108	5	[1]	108	3	[2]
<b>REWARD</b>	<b>31 a</b>	<b>100</b>	<b>100</b>	<b>[6]</b>	<b>30 ab</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>100</b>	<b>100</b>	<b>[15]</b>
	LSD (P=.05) = 3.68				5.77						
	CV value (%) = 6.43				**21.93						
** FSJ data kept as backed up by DC data											
	<u>Varieties not tested in 2002 ( Averages 1989-2001)</u>						<u>Last Year Tested</u>				
41P55			90	[1]			101	[3]	( 2001 )	96	[4]
AC SUNSHINE			93	[3]			89	[3]	( 1996 )	91	[6]
CASH			102	[4]			97	[6]	( 2000 )	99	[10]
CHINOOK			81	[2]			91	[2]	( 1995 )	86	[4]
COLT			98	[2]			95	[4]	( 1994 )	97	[6]
ELDORADO			92	[3]			97	[5]	( 1995 )	95	[8]
FAIRVIEW			108	[2]			107	[5]	( 2000 )	107	[7]
FOOTHILLS			93	[2]			92	[4]	( 2001 )	92	[6]
GOLDRUSH			87	[3]			93	[3]	( 1996 )	90	[6]
HORIZON			98	[2]			90	[4]	( 1994 )	94	[6]
HYSYN 100			91	[3]			94	[3]	( 1996 )	93	[6]
HYSYN 110			104	[3]			101	[5]	( 2000 )	102	[8]
HYSYN 111			114	[2]			107	[4]	( 2000 )	111	[6]
HYSYN 120 CS			106	[1]			104	[3]	( 2000 )	105	[4]
KLONDIKE			97	[2]			97	[2]	( 1995 )	97	[4]
MAVERICK			97	[4]			99	[7]	( 2000 )	98	[11]
NORWESTER							106	[2]	( 1998 )	106	[2]
SHAMROCK			83	[1]			98	[2]	( 1999 )	90	[3]
SW C3467			102	[1]			118	[1]	( 2001 )	110	[2]
SW HIGH LEVEL			108	[1]			107	[2]	( 2002 )	107	[3]
VALLEYVIEW			105	[1]			96	[4]	( 2000 )	100	[5]
WESTWIN			94	[2]			108	[4]	( 1998 )	101	[6]

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

\* first year tested, very limited data available

**REWARD - check variety**

SW E3255<sup>1</sup> = not currently registered

Polish Canola		Combined Regional & WCC/RRC test in 2002					Variety Descriptions	
Variety	Type	B.C.Peace Averages (1994 - 2002)		Straw Strength	Blackleg Tolerance	White Rust Resistance	Distributor	
		Maturity (days to)	Height (cm)					
ACS-C7*	SYN	115 [1]	70 [2]				AAFC Sask	
AC Parkland		101 [5]	77 [6]				SeCan	
AC Sunbeam	OP	103 [6]	80 [7]	F	4	1	SeCan	
SW E3255 <sup>1</sup> exper.		122 [1]	73 [2]				Svalof Weibull	
<b>REWARD</b>	<b>OP</b>	<b>105 [14]</b>	<b>93 [15]</b>	<b>F</b>	<b>4</b>	<b>1</b>	<b>SeCan</b>	
Varieties not tested in 2002 ( Averages 1989-2001 )								
<input type="checkbox"/> 41P55	OP	103	115	F	4	2	Proven Seeds	
CASH	SYN	104	100	F	4	1	Moore Seed	
CHINOOK		105	105	F	4	1	Monsanto	
COLT		99	84				Agricore United	
ELDORADO		101	85	F	4	4	Proven Seed	
FAIRVIEW	SYN	104	97	F	4	3	Agricore United	
FOOTHILLS	OP	107	86	F	4	1	Svalof Weibull	
GOLDRUSH		102	84	F	4	1	Proven Seed	
HORIZON		99	79	F	4	4	Agricore United	
HYSYN 110		102	107	F	4	1	Advanta	
HYSYN 111		105	103	F	4	3	Advanta	
HYSYN 120 CS		104	87	F	4	2	Advanta	
KLONDIKE		107	111	F	4	1	Proven Seed	
<input type="checkbox"/> MAVERICK	OP	104	99	F	4	1	Agricore United	
NORWESTER		101	112	F	4	2	Prairie Seeds	
SHAMROCK		103	55	F	4	1	Svalof Weibull	
SW C3467	OP	109		F	4	1	Svalof Weibull	
SW HIGH LEVEL	OP	112	94	F	4	1	Svalof Weibull	
<input type="checkbox"/> VALLEYVIEW	OP	104	91	F	4	2	Agricore United	
<input type="checkbox"/> WESTWIN	SYN	102	106	F	4	1	Libred	

**REWARD - check variety**

SW E3255<sup>1</sup> = not currently registered

[ ] = No. of Station Years

Maturity in Dawson Creek not used in 2002  
due to drought induced regrowth affecting results.

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

1 = tolerant, 2 = moderately tolerant, 3 = moderately susceptible, 4 = susceptible, 5 = highly susceptible

OP = open pollinated, SYN = synthetic, HYB = hybrid

\* first year tested, very limited data available

■ Protection by Plant Breeders' Rights

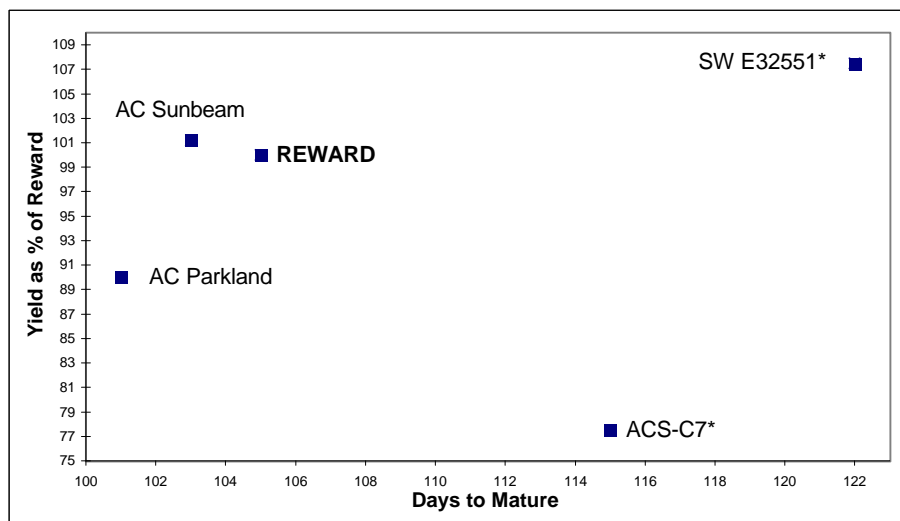
□ Protection under Plant Breeders' Rights applied for

**Polish Canola**

**Regional Variety**

**Performance**

**1996 - 2002**



# ARGENTINE CANOLA

Argentine Canola (conventional)		Yield as % of Legacy									
Variety	Type	Dawson Creek			Fort St. John			B.C. Peace			
		2002**	1997-2002		2002	1996-2002		2002	1996-2002		
		% of check	Avg. (%)	Stn. Yrs.	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.	
46A65	OP	-	113	[2]	101	100	[6]	101	106	[8]	
46H02 (NS4442) *	HYB	-			103	103	[1]	103	103	[1]	
BIANCA II <sup>1</sup>	OP	-	91	[1]	95	97	[2]	95	94	[3]	
<b>LEGACY</b>	<b>OP</b>	-	<b>100</b>	<b>[4]</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>100</b>	<b>100</b>	<b>[13]</b>	
LO-LINDA *		-			80	80	[1]	80	80	[1]	
MILLENIUM 03 <sup>2</sup> *	HEAR	-			84	84	[1]	84	84	[1]	
PEACE (A99-5N)	OP	-	102	[1]	84	92	[3]	84	97	[4]	
Q2	OP	-	103	[3]	89	102	[7]	89	102	[10]	
SKYHAWK	OP	-	107	[1]	99	104	[3]	99	105	[4]	
SP ARMADA	OP	-	110	[1]	114	112	[2]	114	111	[3]	
<u>Varieties not tested in 2002 (Averages 1996-2001)</u>						<u>Last Year Tested</u>					
ASCENT			100	[1]		106	[2]	( 2000 )	103	[3]	
AGASSIZ			88	[1]		100	[3]	( 2000 )	94	[4]	
BATTLEFORD *			109	[1]		101	[1]	( 1999 )	105	[2]	
CANTERRA 1134CA *			96	[1]		101	[1]	( 1999 )	98	[2]	
CANTERRA 1174CA *			104	[1]		109	[1]	( 1999 )	106	[2]	
CANTERRA 1492			110	[2]		105	[4]	( 2001 )	107	[6]	
DEFENDER			92	[2]		94	[4]	( 1999 )	93	[6]	
FOREMOST			83	[1]		102	[2]	( 2000 )	93	[3]	
HERALD *						103	[1]	( 2000 )	103	[1]	
Hi-Q			94	[2]		102	[3]	( 2001 )	98	[5]	
HUDSON			85	[2]		92	[3]	( 1999 )	88	[5]	
HYCORE 601			113	[1]		114	[2]	( 2001 )	114	[3]	
HY-PER Star 100			89	[1]		104	[3]	( 2000 )	96	[4]	
IMC 105 *			107	[1]		105	[1]	( 2001 )	106	[2]	
IMPULSE			105	[2]		105	[4]	( 1999 )	105	[6]	
LG 3220 *			90	[1]		93	[1]	( 1999 )	91	[2]	
LG3311			108	[2]		102	[3]	( 2001 )	105	[5]	
LG 3333			95	[1]		94	[2]	( 1999 )	94	[3]	
LG3366			84	[1]		102	[2]	( 2000 )	93	[3]	
LG 3369			107	[1]		86	[2]	( 1999 )	96	[3]	
LG3525 *			104	[1]		101	[1]	( 2001 )	102	[2]	
LG5347 *						112	[1]	( 2000 )	112	[1]	
LIBRED 279 *			112	[1]		107	[1]	( 2001 )	110	[2]	
MAGELLAN			71	[1]		99	[2]	( 2000 )	85	[3]	
MAGNUM			81	[1]		93	[5]	( 2000 )	87	[6]	
OAC DYNAMITE *			80	[1]		99	[1]	( 1999 )	90	[2]	
PGS.3640 *			109	[1]		109	[1]	( 1999 )	109	[2]	
QUANTUM			93	[1]		106	[4]	( 1999 )	100	[5]	
SENTRY			84	[1]		107	[2]	( 1999 )	95	[3]	
SWB5001			107	[1]		101	[2]	( 2001 )	104	[3]	
SW HOTSHOT *						97	[1]	( 2000 )	97	[1]	
SYNBRID 220 *			93	[1]		101	[1]	( 1999 )	97	[2]	
THUNDER			119	[1]		106	[2]	( 2001 )	112	[3]	
BIANCA II <sup>1</sup> =white flowered variety		**DC 2002=no data available			SYN = Synthetic			HYB = Hybrid			
MILLENIUM 03 <sup>2</sup> = High Erucic Acid Rapeseed (HEAR)					OP = Open Pollinated						
<b>LEGACY - check variety</b>		* caution, first year tested and or very limited data available									
Note that in 2002, 44A89, Clavet, Eagle, Optimum 500, Sprint, SW Hotshot, removed from older data set.											



# HERBICIDE TOLERANT CANOLA

Argentine Canola (herbicide tolerant)		Yield as % of Legacy								
Variety	Type	Dawson Creek			Fort St. John			B.C. Peace		
		2002**	1998-2002		2002	1998-2002		2002	1998-2002	
		% of check	Avg. (%)	Stn. Yrs.	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
<b>LEGACY</b>	<b>conventional</b>	<b>100</b>	<b>100</b>	<b>[4]</b>	<b>100</b>	<b>100</b>	<b>[9]</b>	<b>100</b>	<b>100</b>	<b>[13]</b>
45A55	Roundup-Ready	-	113	[1]	96	97	[2]	96	105	[3]
45H21 (NS4451) *	Roundup-Ready	-	-		116	116	[1]	116	116	[1]
45H22 (NS4422HC) *	Roundup-Ready	-	-		105	105	[1]	105	105	[1]
505RR *	Roundup-Ready	-	-		114	114	[1]	114	114	[1]
519RR *	Roundup-Ready	-	-		110	110	[1]	110	110	[1]
CANTERRA 1812	Roundup-Ready	-	112	[1]	105	105	[2]	105	109	[3]
CANTERRA 1841*	Roundup-Ready	-	-		130	130	[1]	130	130	[1]
CANTERRA 1849*	Roundup-Ready	-	-		85	85	[1]	85	85	[1]
CANTERRA 1862*	Roundup-Ready	-	-		106	106	[1]	106	106	[1]
CANTERRA 1867	Roundup-Ready	-	104.5	[1]	95	99	[3]	95	102	[4]
CONQUEST	Roundup-Ready	-	98	[2]	98	102	[4]	98	100	[6]
DKL32-35 (LG3235)	Roundup-Ready	-	97	[2]	105	99	[4]	105	98	[6]
DKL34-55 (LG3455)	Roundup-Ready	-	113	[1]	97	97	[3]	97	105	[4]
DKL35-85 *	Roundup-Ready	-	-		103	103	[1]	103	103	[1]
DS ROUGHRIDER	Roundup-Ready	-	104	[1]	91	99	[3]	91	102	[4]
FIELDKING811RR*	Roundup-Ready	-	-		111	111	[1]	111	111	[1]
HYLITE 225RR	Roundup-Ready	-	109	[1]	112	108	[3]	112	109	[4]
KELSEY (A99-15NR)	Roundup-Ready	-	113	[1]	77	88	[3]	77	101	[4]
IMC 109RR *	Roundup-Ready	-	-		93	93	[1]	93	93	[1]
IMC 208RR *	Roundup-Ready	-	-		77	77	[1]	77	77	[1]
LBD561RR	Roundup-Ready	-	111	[1]	103	103	[2]	103	107	[3]
LBD612RR *	Roundup-Ready	-	-		113	113	[1]	113	113	[1]
LBD799RR-S	Roundup-Ready	-	115	[1]	96	104	[2]	96	109	[3]
PRAIRIE499RR (4.99RR)	Roundup-Ready	-	116	[1]	109	111	[3]	109	114	[4]
PRAIRIE715RR *	Roundup-Ready	-	-		104	104	[1]	104	104	[1]
SP ADMIRABLE RR <sup>1</sup> (ARCHER) *	Roundup-Ready	-	119	[1]	109	108	[2]	109	114	[3]
SP BANNER *	Roundup-Ready	-	-		99	99	[1]	99	99	[1]
SP BUCKY (NR98-6647)*	Roundup-Ready	-	-		101	101	[1]	101	101	[1]
SW ARROW	Roundup-Ready	-	94	[1]	107	104	[4]	107	99	[5]
SW D5113RR *	Roundup-Ready	-	-		118	118	[1]	118	118	[1]
SW GLADIATORR	Roundup-Ready	-	125	[1]	111	116	[2]	111	121	[3]
SW RAZOR	Roundup-Ready	-	106	[1]	107	108	[3]	107	107	[4]
SW RIDER	Roundup-Ready	-	107	[2]	106	108	[4]	106	107	[6]
SW WARRIOR*	Roundup-Ready	-	-		91	95	[2]	91	95	[2]
INVIGOR2573	Liberty Link	-	126	[1]	115	120	[3]	115	123	[4]
INVIGOR2663	Liberty Link	-	126	[1]	118	121	[3]	118	123	[4]
INVIGOR2733	Liberty Link	-	126	[1]	116	122	[2]	116	124	[3]
SW FLARE LL	Liberty Link	-	109	[1]	110	111	[2]	110	110	[3]
289 CL *	Clearfield	-	-		93	93	[1]	93	93	[1]
45A71 (NS4571) *	Clearfield	-	-		93	93	[1]	93	93	[1]
45A77*	Clearfield	-	116	[1]	96	109	[2]	96	113	[3]
CANTERRA 1604 CL *	Clearfield	-	-		105	105	[1]	105	105	[1]
HYLITE 243 CL	Clearfield	-	106	[1]	98	106	[2]	98	106	[3]
SP BOBCAT *	Clearfield	-	-		104	103.7	[1]	104	104	[1]

**LEGACY - check variety**

\* caution, first year tested and or very limited data available

SP ADMIRABLE RR<sup>1</sup>(ARCHER) = was Archer, then Admire

\*\*DC 2002=no data available

**Note:** "System Varieties", (Clearfield, Roundup-Ready, or Liberty Link), are grown together in with "conventional" argentine varieties, (actually as one "early" & one "late" napus trial with a common check), and thus conventional herbicides are used for weed control. (See page 6 for herbicides used). The way results are displayed here however means statistical analysis cannot be shown.

<b>Argentine Canola (herbicide tolerant)</b>		<b>Yield as % of Legacy</b>					
Variety	Type	Dawson Creek		Fort St. John		B.C. Peace	
		1998-2001		1998-2001		1998-2001	
		Avg. (%)	Stn. Yrs.	Avg. (%)	Stn. Yrs.	Avg. (%)	Stn. Yrs.
<u>Varieties not tested in 2002 ( Averages 1997-2001 )</u>		<u>Last Year Tested</u>					
2631LL	Liberty Link	71	[1]	86	[3]	( 2000 )	79 [4]
295 BX	Navigator/Compas	95	[2]	101	[3]	( 2001 )	98 [5]
44A53 *	Round-Up Ready			97	[1]	( 2000 )	97 [1]
45A51	Round-Up Ready	88	[1]	97	[2]	( 1999 )	93 [3]
45A54 *	Round-Up Ready			102	[1]	( 2000 )	102 [1]
45A71	Smart Trait	97	[1]	94	[3]	( 1998 )	96 [4]
46A72	Smart Trait	115	[1]	100	[2]	( 1997 )	108 [3]
46A73	Smart Trait	90	[1]	93	[2]	( 1999 )	92 [3]
46A76	Clearfield	93	[1]	110	[2]	( 2000 )	101 [3]
46A52	Round-Up Ready	83	[1]	101	[1]	( 1999 )	92 [2]
A99-13NR *	Roundup-Ready	108	[1]	103	[1]	( 2001 )	105 [2]
ADMIRAL BX	Navigator/Compas	81	[1]	109	[1]	( 1999 )	95 [2]
ARMOR BX	Navigator/Compas	108	[2]	102	[3]	( 2001 )	105 [5]
CANTERRA 1867	Roundup-Ready	104	[1]	100	[2]	( 2001 )	102 [3]
CARTIER BX	Navigator/Compas	84	[2]	101	[3]	( 2001 )	92 [5]
EXCEED	Liberty Link	91	[1]	102	[2]	( 1999 )	96 [3]
HERITAGE	Roundup-Ready	103	[1]	94	[2]	( 2001 )	98 [3]
HYLITE 215 CL *	Clearfield	101	[1]	109	[1]	( 2001 )	105 [2]
HYOLA454RR	Roundup-Ready	105	[1]	105	[2]	( 2001 )	105 [3]
IMC 106RR *	Roundup-Ready	109	[1]	92	[1]	( 2001 )	101 [2]
INDEPENDENCE	Liberty Link	100	[1]	106	[2]	( 1997 )	103 [3]
INNOVATOR	Liberty Link	95	[1]	105	[3]	( 1997 )	100 [4]
INVIGOR2153	Liberty Link	101	[1]	104	[3]	( 2000 )	103 [4]
INVIGOR2273	Liberty Link	106	[1]	114	[2]	( 2000 )	110 [3]
INVIGOR 2463	Liberty Link	109	[1]	101	[1]	( 1999 )	105 [2]
INVIGOR 2473	Liberty Link	89	[1]	93	[1]	( 1999 )	91 [2]
INVIGOR 2563 *	Liberty Link			107	[1]	( 2000 )	107 [1]
INVIGOR 2673 *	Liberty Link			119	[1]	( 2000 )	119 [1]
LBD449RR *	Roundup-Ready	105	[1]	98	[1]	( 2001 )	102 [2]
LG3295	Round-Up Ready	77	[1]	92	[2]	( 1999 )	84 [3]
LG3345	Round-Up Ready	92	[1]	109	[2]	( 2000 )	100 [3]
LG DAWN	Round-Up Ready	107	[1]	105	[2]	( 2000 )	106 [3]
QUEST	Round-Up Ready	96	[2]	95	[4]	( 1999 )	95 [6]
RENEGADE BX *	Navigator/Compas	109	[1]	108	[1]	( 2001 )	109 [2]
RR CHAMPION *	Roundup-Ready	105	[1]	99	[1]	( 2001 )	102 [2]
SW LEGION LL	Liberty Link	90	[1]	101	[1]	( 1999 )	96 [2]
SW LIBERATOR *	Liberty Link			96	[1]	( 2000 )	96 [1]
SW VULCAN LL *	Liberty Link			110	[1]	( 2000 )	110 [1]
ZODIAC BX	Navigator/Compas	94	[1]	100	[2]	( 2001 )	97 [3]

**LEGACY - check variety**

\* caution, first year tested and or very limited data available

# Argentine Canola

## Variety Descriptions

Variety	Type	Herbicide Tolerance	B.C. Peace Avg. (1996-2002**)		Data from Alberta Agdex 100/32		Distributor
			Days to Mature	Height cm	Straw Strength	Blackleg Tolerance	
289CL*		Clearfield	125	88	G	1	Advanta
45A55	OP	Roundup-Ready	131	85	G	1	Proven Seeds
■ 45A71 (NS4571)*	OP	Clearfield	115	95	G	3	Proven Seeds
■ 45A77	OP	Clearfield	133	90			Proven Seeds
45H21 (NS4451)*	HYB	Roundup-Ready	118	93			Proven Seeds
45H22 (NS4422HC)*	HYB	Roundup-Ready	125	92			Proven Seeds
■ 46A65	OP	(conventional)	120	98	G	1	Proven Seeds
46H02 (NS4442)*	HYB	(conventional)	126	85	VG	1	Proven Seeds
505RR*	HYB	Roundup-Ready	133	102			Advanta
519RR	HYB	Roundup-Ready	127	90			Advanta
□ BIANCA II	OP	(conventional)	136	88	EX	1	Agriprogress
CANTERRA 1604 CL*	OP	Clearfield	138	90	EX	2	Canterra
CANTERRA 1812	SYN	Roundup-Ready	132	97	EX	2	Canterra
CANTERRA 1841*	HYB	Roundup-Ready	125	97	EX	1	Canterra
CANTERRA 1849*	OP	Roundup-Ready	126	82	VG	1	Canterra
CANTERRA 1862*	OP	Roundup-Ready	133	78	VG	2	Canterra
CANTERRA 1867	OP	Roundup-Ready	128	106	VG	3	Canterra
CONQUEST	OP	Roundup-Ready	125	118	EX	1	Agricore United
■ DKL32-35 (LG3235)	OP	Roundup-Ready	123	110	G	2	Monsanto
□ DKL34-55(LG3455)	OP	Roundup-Ready	126	113	VG	2	Monsanto
□ DKL35-85*	OP	Roundup-Ready	128	92	EX	1	Monsanto
□ DS-ROUGH RIDER	OP	Roundup-Ready	130	112	EX	3	SeCan
FIELDKING811RR*		Roundup-Ready	128	96	EX	1	DSV Canada Inc
□ HYLITE 225RR	OP	Roundup-Ready	122	106	EX	2	Advanta
HYLITE 243 CL	OP	Clearfield	135	88	EX	3	Advanta
IMC 109RR*	OP	Roundup-Ready	138	82	VG	1	IMC Cargill
IMC208RR*	OP	Roundup-Ready	138	90	VG	1	IMC Cargill
INVIGOR 2573	HYB	Liberty Link	133	111	VG	1	Bayer Crop Science(Aventis)
INVIGOR 2663	HYB	Liberty Link	128	113	VG	1	Bayer Crop Science(Aventis)
INVIGOR 2733	HYB	Liberty Link	129	90	VG	2	Bayer Crop Science(Aventis)
KELSEY (A99-15NR)	OP	Roundup-Ready	124	103	EX	2	Agricore United
LBD561RR	OP	Roundup-Ready	130	92	VG	2	Libred
LBD612RR*	OP	Roundup-Ready	128	93	VG	2	Libred
LBD799RR-S	SYN	Roundup-Ready	135	90	VG	2	Libred
LEGACY	OP	(conventional)	122	108	G	3	Agricore United
■ LO-LINDA*	OP	(conventional)	138	85	VG	1	Bonis & Co.
MILLENIUM 03*	HEAR	(conventional)	128	80			CanAmera Foods
□ PEACE (A99-5N)	OP	(conventional)	117	104	VG	2	Sask Wheat Pool
PRAIRIE499RR (4.99RR)	HYB	Roundup-Ready	125	112	VG	1	Prairie Seeds
PRAIRIE715RR*		Roundup-Ready	125	95	VG	1	Prairie Seeds
■ Q2	OP	(conventional)	126	101	EX	1	Agricore United
■ SKYHAWK	OP	(conventional)	125	104	G	1	Seed-Link Inc.
SP ADMIRABLE RR <sup>1</sup> (ARCHER)	SYN	Roundup-Ready	133	93	VG	2	Sask Wheat Pool
SP ARMADA	OP	(conventional)	131	88	VG	2	Sask Wheat Pool
□ SP BANNER*		Roundup-Ready	116	92	EX	1	Sask Wheat Pool
□ SP BOBCAT*	OP	Clearfield	123	93			Sask Wheat Pool
□ SP BUCKY (NR98-6647)*		Roundup-Ready	131	83	VG	1	Sask Wheat Pool
□ SW ARROW	OP	Roundup-Ready	119	101	G	3	Agricore United
SWD5113RR*		Roundup-Ready	121	92	G	2	Bonis & Co.
□ SW FLARE LL*	OP	Liberty Link	128	93	VG	2	Bonis & Co.
SW GLADIATORR*	SYN	Roundup-Ready	129	90	VG	2	Quality Assured Seeds
SW RAZOR	SYN	Roundup-Ready	125	106	VG	2	Bonis & Co.
SW RIDER	SYN	Roundup-Ready	125	111	VG	3	Agricore United
SW WARRIOR*	OP	Roundup-Ready	117	106	VG	2	Quality Assured Seeds

1996-2002\*\* = averaged data period for conventional types, 1998-2002 for herbicide tolerant types.

EX = excellent, VG = very good, G = good, F = fair, P = poor  
 1 = tolerant, 2 = moderately tolerant, 3 = moderately susceptible, 4 = susceptible, 5 = highly susceptible  
 OP = open pollinated, SYN = synthetic, HYB = hybrid

■ Protection by Plant Breeders' Rights  
 □ Protection under Plant Breeders' Rights applied for

Argentine Canola				Variety Descriptions				
Variety	Type	Herbicide Tolerance	B.C.Peace Avg. ( 1996-2001** )		Data from Alberta <u>Agdex 100/32</u>			Distributor
			Mature	Height cm	Straw Strength	Blackleg Tolerance		
Varieties not tested in 2002 ( Averages 1996-2001 ** )								
2631LL	OP	Liberty Link	115	111	G	3		Bonis & Co.
295 BX	OP	Navigator/Compas	125	122	G	3		Bonis & Co.
■ 44A53 *	OP	Roundup-Ready	111	124	G	1		Proven Seed
■ 45A54 *	OP	Roundup-Ready	122	129	G	1		Proven Seed
■ 46A76	OP	Clearfield	124	124	G	1		Proven Seed
A99-13NR *	-	Roundup-Ready	137					
Agassiz	OP	(conventional)	125	124	G	2		Libred
□ ARMOR BX	OP	Navigator/Compas	123	120	G	3		Bonis & Co.
ASCENT	OP	(conventional)	120	128	G	3		Libred
CANTERRA1492	HYB	(conventional)	125	118	VG	3		Canterra
CARTIER BX	OP	Navigator/Compas	123	121	G	2		Bonis & Co.
■ FOREMOST	OP	(conventional)	121	124	VG	2		Seed-Link
HERALD *		(conventional)	112	127				Brett Young
HERITAGE	OP	Roundup-Ready	127	124	VG	2		IMC Cargill
■ Hi-Q	OP	(conventional)	126	121	EX	1		Agricore United
HYCORE 601	HYB	(conventional)	131	129	VG	2		Agricore United
HYLITE 215 CL*	OP	Clearfield	137		EX	3		Advanta
HYOLA 454RR	HYB	Roundup-Ready	126	127	VG	2		Advanta
HY-PER Star 100	HYB	(conventional)	119	117	VG	3		Agriprogress
IMC 105	OP	(conventional)	133		VG	3		IMC Cargill
IMC 106RR *	OP	Roundup-Ready	134		VG	2		IMC Cargill
INVIGOR 2153	HYB	Liberty Link	118	117	G	3		Bayer CropScience
INVIGOR 2273	HYB	Liberty Link	122	131	G	2		Bayer CropScience
INVIGOR 2563 *	HYB	Liberty Link	119	126				Bayer CropScience
INVIGOR 2673 *	HYB	Liberty Link	125	127				Bayer CropScience
LBD449RR *	OP	Roundup-Ready	129		EX	1		Libred
LG DAWN	OP	Roundup-Ready	114	117	VG	2		Agricore United
LG3311	OP	(conventional)	123	118	G	1		Monsanto
■ LG3345	OP	Roundup-Ready	117	117	VG	2		Monsanto
LG3366	OP	(conventional)	118	118	G	1		Monsanto
□ LG3525 *	-	Roundup-Ready	134		VG	2		Monsanto
LG5347 *	OP	(conventional)	111	129				Monsanto
LIBRED 279 *	OP	(conventional)	135		VG	2		Libred
MAGELLAN	OP	(conventional)	123	126	G	3		IMC Cargill
■ MAGNUM	OP	(conventional)	120	116	G	2		Monsanto
□ RENEGADE BX *	OP	Navigator/Compas	134		VG	2		Bonis & Co.
□ RR CHAMPION *	OP	Roundup-Ready	134		VG	2		Monsanto
SW HOTSHOT *		(conventional)	105	126				
SW LIBERATOR *		Liberty Link	108	125				
SW VULCAN LL *		Liberty Link	101	126				
SWB5001	HYB	(conventional)	126	130	VG	1		Bonis & Co.
THUNDER	OP	(conventional)	126	126	G	2		DSV Canada
□ ZODIAC BX	OP	Navigator/Compas	127	127	G	2		Bonis & Co.

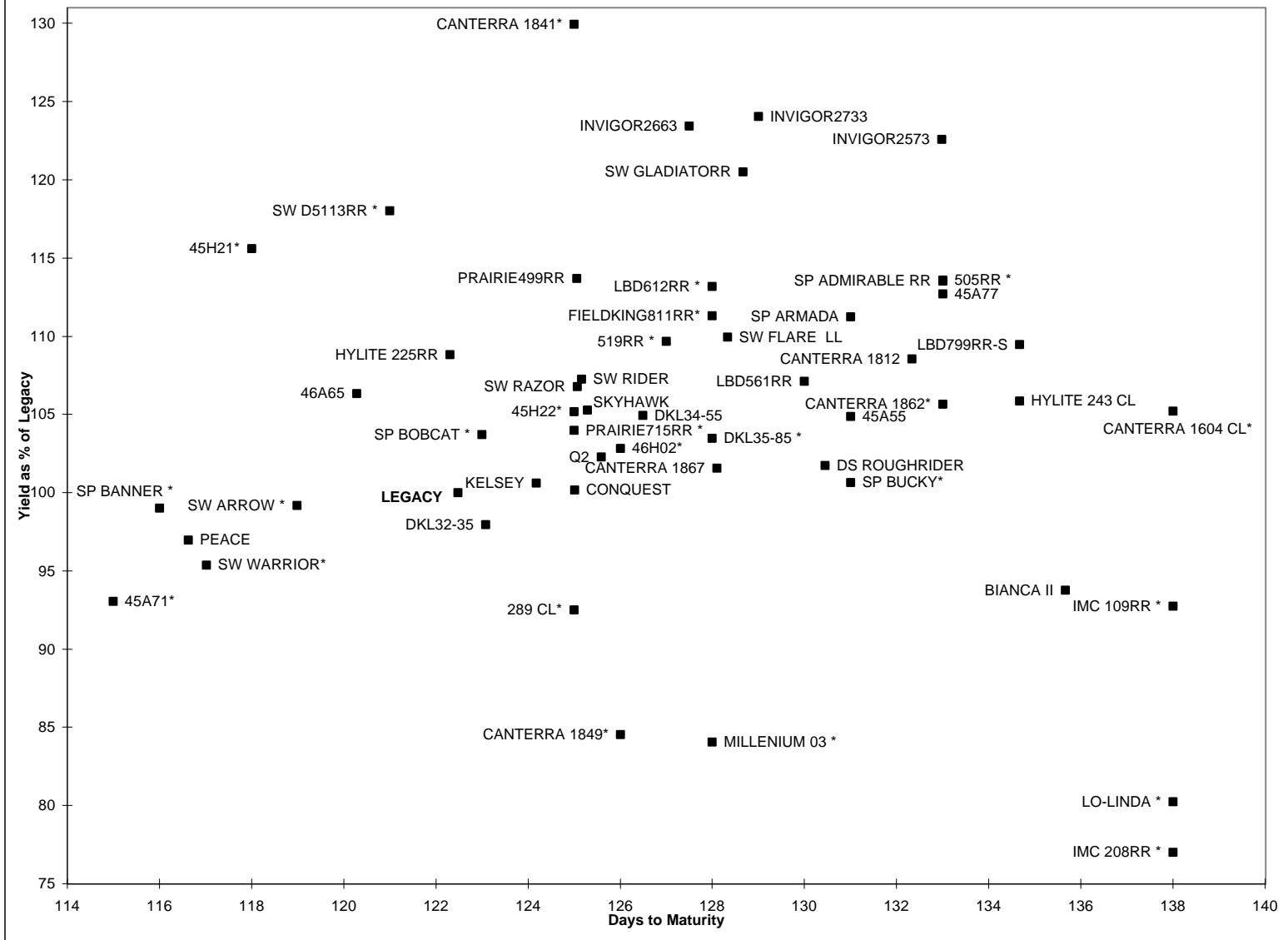
1996-2001\*\* = averaged data period for conventional types, 1998-2001 for herbicide tolerant types.

OP = Open Pollinated      SYN = Synthetic      HYB = Hybrid

<b>Protected by Plant Breeders' Rights :</b>	46A65	FOREMOST	Hi-Q	Q2
44A53	45A71	46A76	LO-LINDA	MAGNUM
45A54	45A77	DKL32-35	LG 3345	SKYHAWK

<b>Protection under Plant Breeders' Rights has been applied for :</b>				
ARMOR BX	DS-ROUGH RIDER	PEACE (A99-5N)	SP BOBCAT	ZODIAC BX
BIANCA II	HYLITE 215 CL*	RENEGADE BX *	SP BUCKY	
DKL34-55	HYLITE 225RR	RR CHAMPION *	SW ARROW	
DKL35-85	LG 3525	SP BANNER	SW FLARE LL *	

## Argentine Canola Regional Variety Performance 1996-2002



# FIELD PEAS

Field Pea		Yield as % of Carneval										
<b><u>YELLOW SEED</u></b>												
Variety	**Designated	Dawson Creek				Fort St. John				B.C. Peace		
	Powdery	<u>2002 Yield</u>		<u>1997-2002</u>		<u>2002 Yield</u>		<u>1997-2002</u>		<u>2002</u>	<u>1997-2002</u>	
	Mildew	bus /	% of	Avg.	Stn.	bus /	% of	Avg.	Stn.	Avg.	Avg.	Stn.
	Resistant	acre	check	(%)	Yrs.	acre	check	(%)	Yrs.	(%)	(%)	Yrs.
ALFETTA		41 e	72	92	[2]	42 bcd	103	110	[4]	87	101	[6]
BADMINTON		49 b-e	87	87	[1]	37 d	89	107	[2]	88	97	[3]
<b>CARNEVAL</b>		<b>56 ab</b>	<b>100</b>	<b>100</b>	<b>[3]</b>	<b>41 bcd</b>	<b>100</b>	<b>100</b>	<b>[5]</b>	<b>100</b>	<b>100</b>	<b>[8]</b>
CARRERA		54 abc	95	104	[3]	45 a-d	108	113	[5]	102	108	[8]
CROMA		53 a-d	93	92	[2]	38 cd	93	109	[4]	93	100	[6]
DELTA		45 cde	79	87	[2]	44 bcd	107	117	[4]	93	102	[6]
DS ADMIRAL	yes	48 b-e	84	84	[1]	42 bcd	101	101	[1]	93	93	[2]
DS STALWARTH	yes	55 ab	97	95	[2]	40 cd	98	106	[3]	97	100	[5]
ECLIPSE	yes	59 a	105	105	[1]	47 abc	114	122	[2]	109	114	[3]
MARIBU (CEB 1484)		44 de	77	77	[1]	43 bcd	105	105	[1]	91	91	[2]
SABRE*		56 ab	100	100	[1]	37 d	89	89	[1]	94	94	[2]
SW BRAVO		49 b-e	86	86	[2]	44 a-d	107	105	[4]	97	95	[6]
SW CAPRI*		43 de	77	77	[1]	43 bcd	104	104	[1]	90	90	[2]
SW CIRCUS*		49 b-e	86	86	[1]	45 a-d	108	108	[1]	97	97	[2]
SW SALUTE		57 ab	100	100	[1]	51 ab	123	123	[1]	112	112	[2]
SWING		49 b-e	86	94	[2]	54 a	130	111	[4]	108	102	[6]
^TOPEKA (CEB 1489)	yes	48 b-e	86	86	[1]	42 bcd	101	101	[1]	93	93	[2]
		LSD (P=.05) = 10.05				9.60						
		CV value (%) = 14.02				15.55						
<b><u>GREEN SEED</u></b>												
Variety	**Designated	Dawson Creek				Fort St. John				B.C. Peace		
	Powdery	<u>2002 Yield</u>		<u>1997-2002</u>		<u>2002 Yield</u>		<u>1997-2002</u>		<u>2002</u>	<u>1997-2002</u>	
	Mildew	bus /	% of	Avg.	Stn.	bus /	% of	Avg.	Stn.	Avg.	Avg.	Stn.
	Resistant	acre	check	(%)	Yrs.	acre	check	(%)	Yrs.	(%)	(%)	Yrs.
AP9540-43		53 abc	103	103	[1]	45 a	104	104	[1]	103	103	[2]
BLUEBIRD	yes	45 bc	88	88	[1]	38 ab	88	88	[1]	88	88	[2]
<b>CARNEVAL</b>		<b>51 abc</b>	<b>100</b>	<b>100</b>	<b>[3]</b>	<b>43 a</b>	<b>100</b>	<b>100</b>	<b>[5]</b>	<b>100</b>	<b>100</b>	<b>[8]</b>
CRUISER*		51 bc	100	100	[1]	45 a	103.3	103	[1]	101	101	[2]
ESPACE		55 abc	107	106	[2]	46 a	107	116	[4]	107	111	[6]
FABIA		52 abc	102	102	[1]	45 a	104	104	[1]	103	103	[2]
LOGAN		57 ab	110	110	[1]	41 ab	94	106	[2]	102	108	[3]
MADOC*		53 abc	103	103	[1]	45 a	104	104	[1]	104	104	[2]
MILLENNIUM		51 bc	99	99	[1]	41 ab	95	121	[2]	97	110	[3]
NITOUCHE		52 abc	101	104	[2]	42 ab	96	101	[3]	99	103	[5]
^STRATUS (CEB1171)	yes	64 a	124	124	[1]	35 b	82	82	[1]	103	103	[2]
TOLEDO		43 c	84	94	[2]	34 b	79	95	[3]	82	94	[5]
		LSD (P=.05) = 12.59				7.89						
		CV value (%) = 17.03				13.01						

Means followed by the same letter do not significantly differ (P=.05, LSD) ^ proposed name  
 \* first year tested, very limited data available \*\*Powdery Mildew resistance (data: SEED MANITOBA 2003)

Research from Beaverlodge Research Station, Alberta, has shown that in Peace Country soils, granular inoculant gives improved performance as compared to other forms of inoculant, while soils are under environmental stress. Such stresses to be considered are soils that are too wet, too dry, or under low pH.

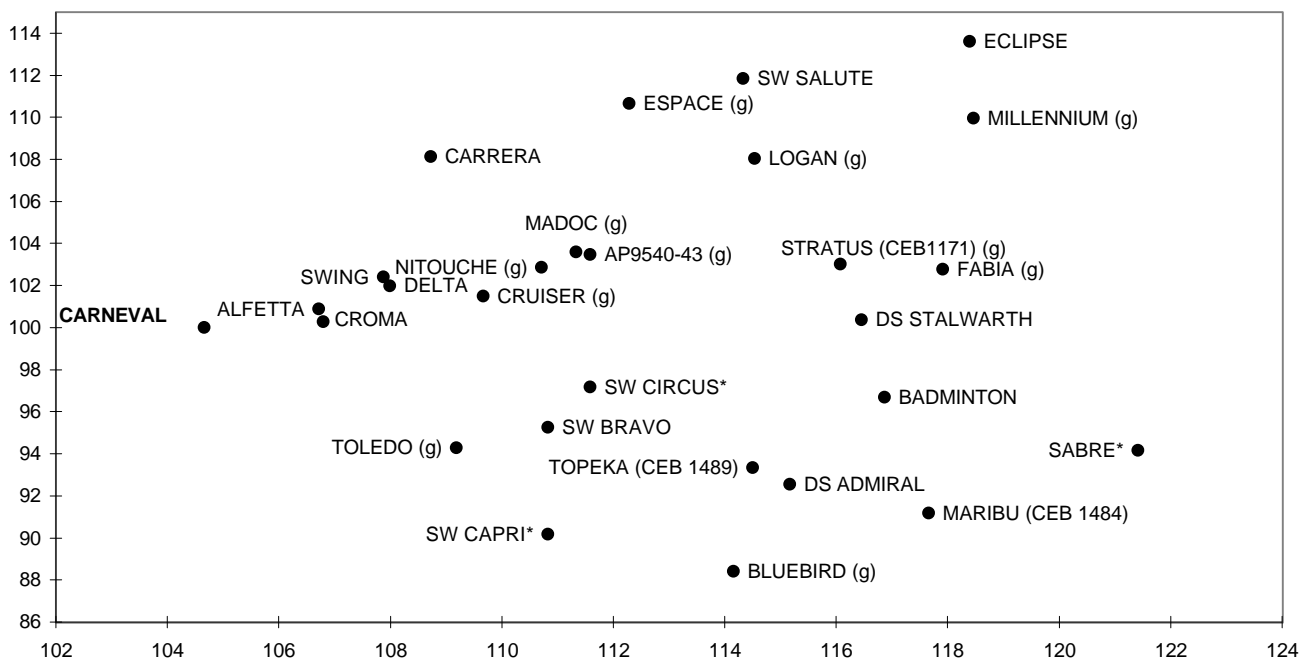
# Field Pea Varieties not tested in 2002

## Yield as % of Carneval

Variety	Dawson Creek		Fort St. John		B.C.Peace		Days to Mature	Height cm	1000 k grams	Lodging 1-9 (flat)	Distributor	
	1992-2000		1992-2000		1992-2000							
	Average Yield	Stn.Yrs	Average Yield	Stn.Yrs	Average Yield	Stn.Yrs						
Varieties not tested in 2001												
Last Year Tested												
AC ADVANTAGE (g)	79	[1]	89	[1]	(2000)	84	[3]	106	45	240	5	SeCan
AC MELFORT	81	[1]	102	[3]	(2000)	91	[4]	105	40	208	4	Canterra
ASTINA (g)	104	[1]	96	[2]	(1999)	100	[3]	102	50	245	2	Canseed
CANIS			106	[2]	(1998)	106	[2]	105	67	216	2	Svalof Weibull
CDC HANDEL	107	[1]	107	[2]	(2000)	107	[3]	103	54	192	3	CDC
CDC MOZART	106	[1]	133	[2]	(2000)	120	[3]	103	49	230	4	CDC
CDC WINFIELD	100	[1]	100	[1]	(1997)	100	[2]	109	66	282	6	SeCan
CELESTE	94	[3]	100	[3]	(1995)	97	[6]	101	72	271	6	Agricore
CPB CONCORDE	84	[2]	94	[2]	(1997)	89	[4]	97	56	296	9	CPB Canada
CPB PHANTOM (g)	107	[2]	90	[3]	(1998)	98	[5]	103	59	328	5	CPB Canada
DISCOVERY	103	[2]	106	[2]	(1997)	104	[4]	104	80	333	6	Bonis & Co.
EIFFEL	107	[1]	92	[2]	(1998)	100	[3]	104	72	313	3	Agriprogress
EXPLORER (g)			100	[2]	(1998)	100	[2]	105	71	275	5	Svalof Weibull
EXPRESS	104	[3]	114	[3]	(1995)	109	[6]	111	83	237	7	Bonis & Co.
GRANDE	108	[3]	128	[3]	(1997)	118	[6]	107	91	266	7	Bonis & Co.
HIGHLIGHT	101	[3]	98	[3]	(1995)	100	[6]	108	85	219	4	Bonis & Co.
INTEGRA	103	[1]	98	[1]	(1999)	100	[2]	101	52	231	2	St. Denis Seed Farm
KEOMA (g)	102	[4]	103	[4]	(1998)	102	[8]	101	68	233	5	Agricore United
MAJORET (g)	96	[3]	93	[3]	(1997)	94	[6]	106	85	270	2	Bonis & Co.
MARCO	102	[1]	97	[1]	(1997)	100	[2]	104	68	280	3	Bonis & Co.
MONTANA	99	[4]	118	[3]	(1996)	109	[7]	101	60	314	4	Canseed
MUSTANG	97	[2]	94	[2]	(1997)	95	[4]	100	79	218	6	Brett-Young Seeds
OLIVIN (g)	98	[1]	85	[1]	(1997)	91	[2]	107	86	322	8	Terramax Holdings
PEKISKO (g)	102	[1]	95	[3]	(2000)	99	[4]	96	55	171	2	Agricore United
PROFI	96	[2]	85	[2]	(1997)	91	[4]	100	80	281	6	SeCan
TENOR	101	[1]	94	[1]	(1997)	97	[2]	107	86	294	5	Agriprogress
TOTEM (g)	99	[2]	99	[2]	(1997)	99	[4]	106	68	263	8	Bonis & Co.
YORKTON	101	[2]	95	[2]	(1997)	98	[4]	107	85	272	7	Bonis & Co.

(g) green seed

### Field Peas - % of Carneval



Field Peas			Variety Descriptions						
Variety	B.C.Peace Averages			1997-		DC Site 2001-2002			Distributor
	Days to Mature	1996-2002		2002	2001	0-9 scale (0=nil)**			
		Height cm	Lodging 0-9(flat)	1000 k grams	Protein %	Mycosphaerella Blight	Powdery Mildew		
<b>Yellow Seed</b>									
■ ALFETTA	107	55	2	331		2.0	2.0	Quality Assured	
BADMINTON	117	59	4	279	26.1	3.8	3.7	West-Sun	
■ CARNEVAL	104	68	2	233		1.0	2.7	<b>Bonis &amp; Co</b>	
■ CARRERA	109	52	3	282	<b>26.7</b>	3.8	3.6	<b>Canseed</b>	
■ CROMA	107	44	3	309		2.3	5.2	Canterra	
■ DELTA	108	59	2	257	27.3	3.5	2.7	Quality Assured	
□ DS ADMIRAL	115	78	2	261	26.6	2.0	0.2	Agriprogress	
DS STALWARTH	116	77	2	249	26.0	2.8	0.9	Agriprogress	
■ ECLIPSE	118	72	2	266	22.9	2.8	0.2	Quality Assured	
□ MARIBU (CEB 1484)	118	73	2	283	25.5	2.5	2.3	St. Denis	
SABRE*	121	63	1	273		1.0	0.0		
■ SW BRAVO	111	67	1	266	27.0	2.6	3.4	Agricore United	
□ SW CAPRI*	111	65	0	243		2.3	2.8	Bonis & Co	
□ SW CIRCUS*	112	67	0	266		2.0	2.7	Bonis & Co	
□ SW SALUTE	114	79	3	245	26.2	2.7	0.0	Bonis & Co	
■ SWING	108	63	3	262	26.3	2.8	3.7	Canseed	
□ TOPEKA (CEB 1489)	115	60	5	293	26.2	2.8	0.5	Canterra	
<b>Green Seed</b>									
■ AP9540-43	112	72	1	232	26.2	2.7	3.0	Agricore United	
□ BLUEBIRD	114	55	3	275	26.2	3.2	0.2	St. Denis	
■ CARNEVAL	105	68	2	234		1.0	1.7	<b>Bonis &amp; Co</b>	
CRUISER	110	59	0	248		1.7	2.5	Canterra	
■ ESPACE	112	63	2	243	25.7	2.3	4.6	St. Denis	
FABIA	118	75	1	256	26.1	2.3	4.3	St. Denis	
LOGAN	115	73	1	201	27.0	2.3	2.9	Agricore United	
■ MADOC	111	52	0	302		1.0	1.8	Terramax	
■ MILLENNIUM	118	51	2	280	27.3	3.2	2.8	Terramax	
■ NITOUCHE	111	68	2	285	<b>27.3</b>	<b>3.5</b>	<b>4.5</b>	<b>Canseed</b>	
□ STRATUS (CEB1171)	116	57	4	290	27.2	4.2	1.2	Canterra	
■ TOLEDO	109	65	2	293	26.7	3.3	2.6	Canterra	
<b>Varieties not tested in 2002 ( Averages 1997-2001)</b>									
CDC MINUET	118	81	4	194	26.5	3.7	0.0	CDC Saskatoon	
COBRA	109	68	3	240	26.5	3.7	3.0	Canterra	
■ INTEGRA	106	68	2	278	26.5	3.0	1.7	St. Denis	
■ MIAMI	106	66	2	244	26.4	3.3	4.7	Quality Assured	
■ NICOLE	106	44	4	273	26.3	5.3	2.3	Quality Assured	
CASCADE (g)	117	79	3	228	27.2	4.0	4.5	Canterra	
CDC MONTERO(g)	117	76	5	206	27.0	4.0	3.0	CDC Saskatoon	
□ DS DOMINATOR(g)	120	72	2	209	24.9	3.3	0.0	Quality Assured	
M98 * (g)	111	67	2	260	27.3	3.7	3.3	Terramax	
■ SCUBA (g)	110	68	2	231	26.4	4.0	4.0	Quality Assured	
SW Cabaret*	118	79	1	214	25.5	3.5	1.4	Canterra	
■ SW PARADE	111	64	4	203	26.7	4.0	2.7	Sask Pool	
□ VENTURE (g)	120	76	3	229	26.3	5.0	4.5	Johnson Seeds	

Some varieties may not be suitable for the human consumption market. Producers should contact their intended buyer/processor before seeding to ensure the marketability of specific varieties. Many green seeded varieties will bleach if exposed to periods of wetting and drying in the field near harvest. Uncleaned, damaged seed is considered to be low quality and is only suitable for the feed market. The amount of seed coat damage suffered during harvest varies with variety. Splitting may be reduced if peas are harvested tough ( 20% moisture ) & dried slowly in an aeration bin.

□ Protection under Plant Breeders' Rights applied for

■ Protected by Plant Breeders' Rights

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

\* first year tested, very limited data available



# Field Pea (Yellow Seed)

Yield as % of Carrera \*\*

Variety	***Designated Powdery Mildew Resistant	Dawson Creek				Fort St. John				B.C. Peace		
		2002 Yield		1999-2002		2002 Yield		1999-2002		2002	1999-2002	
		bus /	% of	Avg.	Stn.	bus /	% of	Avg.	Stn.	Avg.	Avg.	Stn.
		acre	check	(%)	Yrs.	acre	check	(%)	Yrs.	(%)	(%)	Yrs.
ALFETTA		41 e	75	75	[1]	42 bcd	95	100	[1]	85	88	[2]
BADMINTON		49 b-e	91	89	[2]	37 d	83	91	[3]	87	90	[5]
CARNEVAL		56 ab	105	99	[1]	41 bcd	93	85	[1]	99	92	[2]
<b>CARRERA</b>		<b>54 abc</b>	<b>100</b>	<b>100</b>	<b>[3]</b>	<b>45 a-d</b>	<b>100</b>	<b>100</b>	<b>[4]</b>	<b>100</b>	<b>100</b>	<b>[7]</b>
CROMA		53 a-d	98	91	[1]	38 cd	86	96	[1]	92	93	[2]
DELTA		45 cde	83	88	[3]	44 bcd	99	98	[4]	91	93	[7]
DS ADMIRAL	yes	48 b-e	88	90	[2]	42 bcd	94	94	[2]	91	92	[4]
DS STALWARTH	yes	55 ab	102	93	[2]	40 cd	91	92	[3]	96	93	[5]
ECLIPSE	yes	59 a	110	92	[2]	47 abc	105	92	[3]	108	92	[5]
MARIBU (CEB 1484)		44 de	81	87	[2]	43 bcd	97	97	[2]	89	92	[4]
SABRE*		56 ab	104	104	[1]	37 d	82	82	[1]	93	93	[2]
SW BRAVO		49 b-e	90	81	[3]	44 a-d	99	87	[4]	95	84	[7]
SW CAPRI*		43 de	80	80	[1]	43 bcd	96	96	[1]	88	88	[2]
SW CIRCUS*		49 b-e	90	90	[1]	45 a-d	100	100	[1]	95	95	[2]
SW SALUTE		57 ab	105	94	[2]	51 ab	114	98	[2]	110	96	[4]
SWING		49 b-e	91	93	[3]	54 a	121	97	[4]	106	95	[7]
^TOPEKA (CEB 1489)	yes	48 b-e	90	88	[2]	42 bcd	94	83	[2]	92	86	[4]
LSD (P=.05) =		10.05				9.60						
CV value (%) =		14.02				15.55						

Varieties not tested in 2002 (Averages 1999-2001)

Last Year Tested

4-0409-027			103	[1]	95	[2]	(2000)	99	[3]
AC MELFORT	yes		75	[1]	77	[2]	(2000)	76	[3]
BACCARA			98	[1]	98	[2]	(2000)	98	[3]
CDC HANDEL	yes				88	[1]	(2000)	88	[1]
CDC MINUET (CDC 9805)	yes		72	[1]	82	[2]	(2001)	77	[3]
CDC MOZART	yes				112	[1]	(2000)	112	[1]
COBRA			96	[2]	95	[3]	(2001)	96	[5]
INTEGRA			97	[2]	95	[3]	(2001)	96	[5]
MIAMI			94	[2]	95	[3]	(2001)	94	[5]
NICOLE			94	[2]	92	[3]	(2001)	93	[5]
SW 955180 *					79	[1]	(2000)	79	[1]
SW Cabaret*			95	[1]	107	[1]	(2001)	101	[2]

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

\* first year tested, very limited data available.

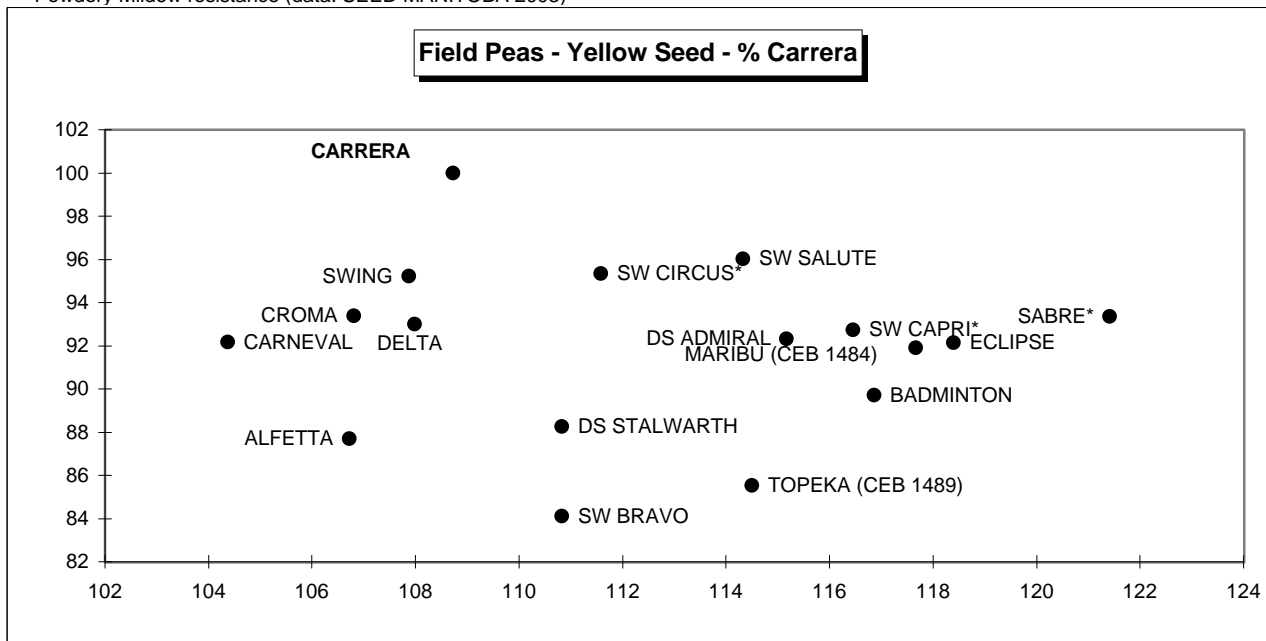
\*\*New check variety as of 2001. Historical data on this page has been updated to reflect this change.

^ Proposed name

See Page 30 for more extensive listing of varieties no longer tested as compared against Carneval.

**CARRERA - check variety**

\*\*\*Powdery Mildew resistance (data: SEED MANITOBA 2003)



Field Pea (Green Seed)		Yield as % of Nitouche **										
Variety	***Designated	Dawson Creek				Fort St. John				B.C. Peace		
	Powdery	2002 Yield		1999-2002		2002 Yield		1999-2002		2002	1999-2002	
	Mildew Resistant	bus / acre	% of check	Avg. Stn. (%)	Yrs.	bus / acre	% of check	Avg. Stn. (%)	Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
AP9540-43		53 abc	102	102	[2]	45 a	108	105	[2]	105	104	[4]
BLUEBIRD	yes	45 bc	88	88	[2]	38 ab	92	85	[2]	90	86	[4]
CARNEVAL		51 abc	99	96	[2]	43 a	104	109	[2]	101	102	[4]
CRUISER*		51 bc	99	99	[1]	45 a	107	107	[1]	103	103	[2]
ESPACE		55 abc	106	98	[3]	46 a	110	110	[4]	108	104	[7]
FABIA		52 abc	101	110	[2]	45 a	108	105	[2]	104	108	[4]
LOGAN		57 ab	109	93	[2]	41 ab	98	98	[3]	104	96	[5]
MADOC*		53 abc	102	102	[1]	45 a	108	108	[1]	105	105	[2]
MILLENNIUM		51 bc	98	104	[2]	41 ab	98	108	[3]	98	106	[5]
<b>NITOUCHE</b>		<b>52 abc</b>	<b>100</b>	<b>100</b>	<b>[3]</b>	<b>42 ab</b>	<b>100</b>	<b>100</b>	<b>[4]</b>	<b>100</b>	<b>100</b>	<b>[7]</b>
^STRATUS (CEB1171)	yes	64 a	123	104	[2]	35 b	85	83	[2]	104	93	[4]
TOLEDO		43 c	84	94	[3]	34 b	82	95	[4]	83	94	[7]
LSD (P=.05) =		12.59				7.89						
CV value (%) =		17.03				13.01						
Most recent varieties not tested in 2002 ( Averages 1999-2001 )												
Last Year Tested												
AC ADVANTAGE	yes							87	[1]	( 2000 )	87	[1]
ADAGIO				110	[1]			116	[2]	( 2000 )	113	[3]
CASCADE				100	[2]			90	[1]	( 2001 )	95	[3]
CDC MONTERO	yes			63	[1]			72	[1]	( 2001 )	68	[2]
DS DOMINATOR *	yes			21	[1]			52	[2]	( 2001 )	37	[3]
M98 *				96	[1]			104	[1]	( 2001 )	100	[2]
PEKISKO				95	[1]			103	[1]	( 2000 )	99	[2]
SCUBA				88	[2]			99	[3]	( 2001 )	94	[5]
SW PARADE	yes			93	[2]			98	[3]	( 2001 )	95	[5]
VENTURE				100	[1]			96	[2]	( 2001 )	98	[3]

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

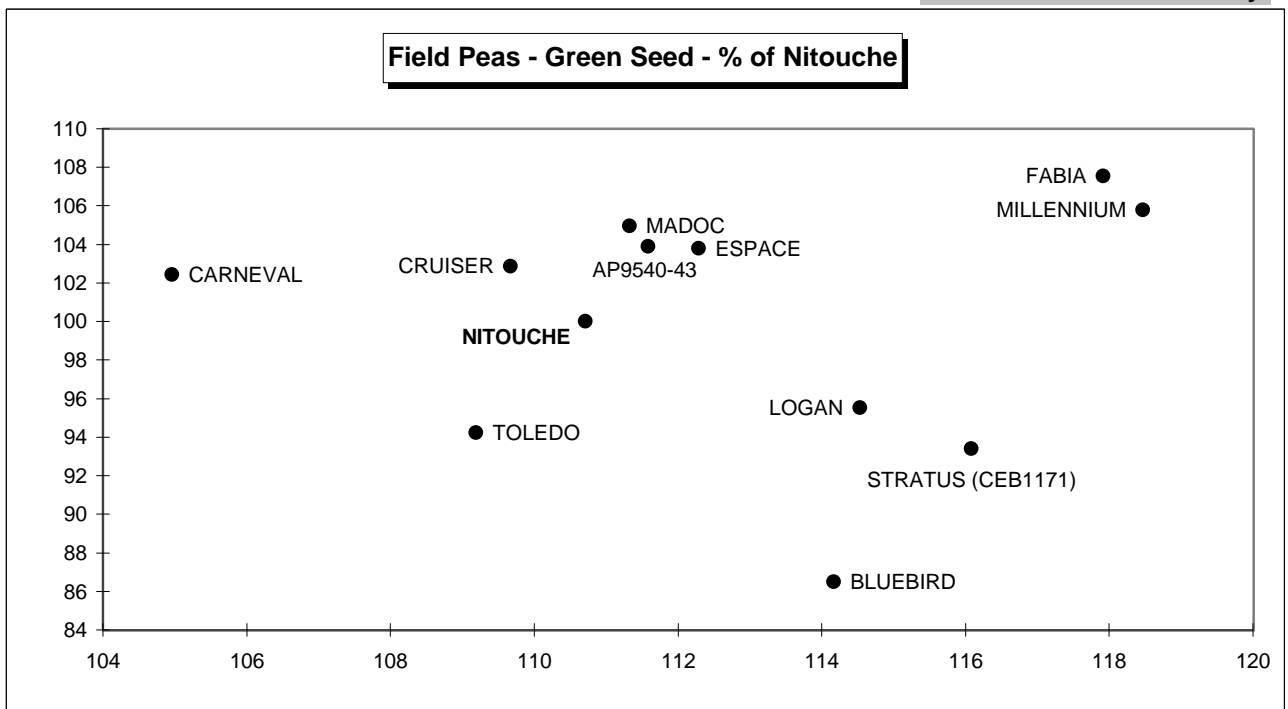
\* first year tested, very limited data available

\*\*New check variety as of 2001. Historical Data has been updated to reflect this change as of 1999.

See Page 30 for more extensive listing of varieties no longer tested as compared against Carneval. ^ proposed name

\*\*\* Powdery Mildew Resistance Designation data: SEED MANITOBA 2003

**NITOUCHE - check variety**



# FLAX

Fields of flax have been successfully grown in our region for many years, however growing flax in the B.C. Peace River region is still at present a risky venture. Large acreage should be discouraged until further breeding programs has resulted in earlier maturing varieties. The B.C. Grain Producers Association is looking into the development of earlier varieties, and therefore this information is being provided here.

Variety	Yield as % of NORLIN														Variety Descriptions	
	Dawson Creek				Fort St. John				B.C. Peace				Maturity Height		Distributor	
	2002 Yield	2001-2002	2002 Yield	2001-2002	2002	2001-2002	2002	2001-2002	Avg. stn	Maturity	Height					
bus / acre	% of Check	Avg. (%)	stn yrs	bus / acre	% of Check	Avg. (%)	stn yrs	Avg. (%)	Avg. (%)	stn yrs	(days to)	(cm)				
■ ^1084 (LINOLA 1084)	12 b	104	105	[2]	27 def	92	95	[2]	98	100	[4]	141	60	Agricore United		
■ ^2047 (LINOLA 2047)*	11 b	99	99	[1]	24 f	83	83	[1]	91	91	[2]	134	53	Agricore United		
■ AC HANLEY *	13 ab	112	112	[1]	28 cde	97	97	[1]	105	105	[2]	126	52	SeCan		
□ AC LIGHTNING	13 ab	115	107	[2]	30 b-e	102	100	[2]	109	104	[4]	137	59	Canterra		
■ CDC BETHUNE	15 a	130	120	[2]	31 abc	106	102	[2]	118	111	[4]	136	58	SeCan		
■ CDC MONS *	13 ab	112	112	[1]	29 cde	98	98	[1]	105	105	[2]	132	49	Quality Assured		
■ CDC NORMANDY	12 b	104	101	[2]	32 ab	111	105	[2]	108	103	[4]	132	60	Western Growers		
■ CDC VALOUR	11 b	99	98	[2]	34 a	116	107	[2]	108	102	[4]	134	54	SeCan		
■ FP 2024 *	13 ab	111	111	[1]	26 ef	90	90	[1]	100	100	[2]	139	53	Morden AAFC		
■ MACBETH (FP1096)*	11 b	99	99	[1]	30 a-d	104	104	[1]	102	102	[2]	132	56	Agricore United		
<b>NORLIN</b>	<b>12 b</b>	<b>100</b>	<b>100</b>	<b>[2]</b>	<b>29 b-e</b>	<b>100</b>	<b>100</b>	<b>[2]</b>	<b>100</b>	<b>100</b>	<b>[4]</b>	<b>133</b>	<b>57</b>	<b>SeCan</b>		
■ TAURUS	12 ab	108	102	[2]	28 cde	96	96	[2]	102	99	[4]	139	58	Performance		
LSD (P=.05) =		2.83		3.61												
CV value (%) =		13.45		8.66												
Varieties not tested in 2002 (1989 - 2001)				Last Year Tested												
□ AC CARNDUFF			101	[1]			99	[1]	2001		100	[2]	136	63		

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

**NORLIN - check variety**

■ Protected by Plant Breeders' Rights

\* first year tested, very limited data available

□ Protection under Plant Breeders' Rights applied for

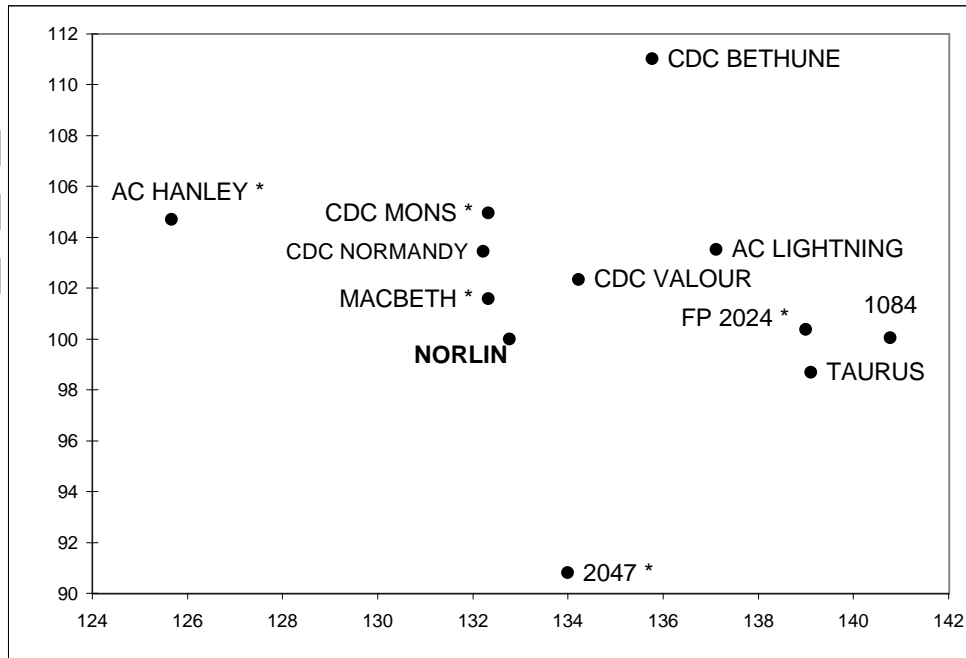
<sup>A</sup> Solin type

# FLAX

## Regional Variety

## Performance

2002



# Flax

## **Where to Place Flax in Crop Rotations:**

Flax is quickly becoming a stubble-sown crop. However, with better weed control options out there now, conventional planting will work too, as long as it is a fairly clean field to start with. In fact, flax has now often been referred to as a "clean-up crop" in rotations.

Flax does well after cereals, but research has shown that in many parts of the prairies flax can do poorly after canola or mustard crops. This is due to toxic compounds in mature canola and mustard plants and their seedling residues. The problem is most evident where straw and trash from the previous canola crop has not been adequately spread on the soil surface. Canola straw should, therefore, be spread uniformly, and spring volunteer seedlings should be controlled at an early stage in order to minimize possible toxic effects. Seeding into untilled canola stubble can also minimize the problem. Flax does do well after legume crops, but *Rhizoctonia* disease can become a problem. Wheat has shown to be the most acceptable crop to follow flax, but barley also performed well on flax stubble.

## **Environmental Stress and Disorders:**

There are some environmental disorders that can effect your flax crop, which are associated with an imbalance of nutrient elements in the plant during environmental stress. Such disorders are often found in soils under high moisture conditions where leaf chlorosis (yellowing) may occur. Terminal bud dieback and the development of basal branching may or may not accompany the yellowing. As well, cankers on the stems can form, which are caused by very high or freezing temperatures when the crop is in early stages of growth. This latter situation may commonly be inconspicuous, but stands may be reduced by as much as 50%. Canker damage is usually most severe in thin stands on light soils, while leaf chlorosis is usually on heavier saturated soils. Placing seed and fertilizer properly, as well as picking varieties more tolerant to our Peace River spring conditions, will help prevent the situation. If either situation does occur, delaying herbicide applications during the recovery period is also very important, as herbicides will only compound the problem and delay maturity possibly beyond recoverable limits here in the Peace River region.

## **Fertilizer Placement:**

Flax is very sensitive to seed-placed fertilizer with even low rates sometimes causing seedling injury. Some provinces recommend a low rate of phosphate - not more than 20 kg/ha (18 lb./ac.) of P<sub>2</sub>O<sub>5</sub> - may be seed-placed, while others recommend that no fertilizer be placed with the seed. Considerable research evidence has shown that placement of phosphate 25 mm (1 inch) to the side and 25 mm (1 inch) below the seed is an effective method to supply phosphorus requirements of the flax plant. Nitrogen (N) should not be placed directly with the seed. These practices are followed by BC Grain Producers Association.

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Adapted from *Growing Flax*, published in 2001 by the *Flax Council of Canada*, and *Alberta Agriculture Food and Rural Development "Roping the Net"* website. For most complete and up to date information on growing flax, visit the Flax Council of Canada's website at: [www.flaxcouncil.ca](http://www.flaxcouncil.ca).

## Summary of 2002 Trials

(Information used for this report)

Regional Variety Trials	Site	Varieties	Replicates	Plots	Source
Regional 2 Row Barley	DC	17	4	68	Steven Dusek - AAFCDC Lacombe
Regional 6 Row Barley	DC	20	4	80	Steven Dusek - AAFCDC Lacombe
Regional Hulless Barley	DC	8	4	32	Steven Dusek - AAFCDC Lacombe
Regional Oats	DC	17	4	68	Steven Dusek - AAFCDC Lacombe
Regional CWRS Wheat (HRSW)	DC	22	4	88	Steven Dusek - AAFCDC Lacombe
Regional CPS / CWES Wheat	DC	10	4	40	Steven Dusek - AAFCDC Lacombe
Regional Soft White Spring Wheat	DC	5	4	20	Steven Dusek - AAFCDC Lacombe
Regional Triticale	DC	4	4	16	Steven Dusek - AAFCDC Lacombe
Regional Rapa Canola	DC	5	4	20	Steven Dusek - AAFCDC Lacombe
Regional Flax	DC	12	4	48	Collin Wildschut - CDCSD Brooks
Regional Green Field Pea	DC	13	4	52	Collin Wildschut - CDCSD Brooks
Regional Yellow Field Pea	DC	17	4	68	Collin Wildschut - CDCSD Brooks
Regional 2 Row Barley	FSJ	17	4	68	Steven Dusek - AAFCDC Lacombe
Regional 6 Row Barley	FSJ	20	4	80	Steven Dusek - AAFCDC Lacombe
Regional Hulless Barley	FSJ	8	4	32	Steven Dusek - AAFCDC Lacombe
Regional Oats	FSJ	17	4	68	Steven Dusek - AAFCDC Lacombe
Regional CWRS Wheat (HRSW)	FSJ	22	4	88	Steven Dusek - AAFCDC Lacombe
Regional CPS / CWES Wheat	FSJ	10	4	40	Steven Dusek - AAFCDC Lacombe
Regional Soft White Spring Wheat	FSJ	5	4	20	Steven Dusek - AAFCDC Lacombe
Regional Triticale	FSJ	4	4	16	Steven Dusek - AAFCDC Lacombe
Regional Napus Canola #1	FSJ	29	4	116	Steven Dusek - AAFCDC Lacombe
Regional Napus Canola #2	FSJ	29	4	116	Steven Dusek - AAFCDC Lacombe
Regional Rapa Canola	FSJ	5	4	20	Steven Dusek - AAFCDC Lacombe
Regional Flax	FSJ	12	4	48	Collin Wildschut - CDCSD Brooks
Regional Green Field Pea	FSJ	13	4	52	Collin Wildschut - CDCSD Brooks
Regional Yellow Field Pea	FSJ	17	4	68	Collin Wildschut - CDCSD Brooks

(Data used for Plant Breeding and Variety Registration Support)

Varietal Development	Site	Varieties	Replicates	Plots	Source
B-y5 Barley Pre-Co-op (Jim Helm)	DC	22	3	66	Donna Westling - AAFCDC Lacombe
2-Row Western Co-op Barley	DC	44	3	132	Bryan Harvey - U of S Malt B Prgm
6-row Western Co-op Barley	DC	25	3	75	Mario Therrien - Ag Canada Brandon
Private flax F2FSJ1AQ	FSJ	10	3	30	Rob Doel - AgQuest / Svalof Wiebull
Early Wheat CWES-A2 (3m plots)	FSJ	42	2	84	Gavin Humphreys - AAFC Winnipeg
Early Wheat CBW-A2 (3m plots)	FSJ	30	2	60	Steve Fox - AAFC Winnipeg
Early Wheat PEF6PR (3m plots)	FSJ	84	1	84	Gavin Humphreys - AAFC Winnipeg
Early Oat Pre-Co-op (3m plots)	DC	20	3	60	Jennifer Mitchell-Fetch - AAFC Winnipeg
Early Wheat PEF8PR3 (3m plots)	FSJ	56	1	56	Gavin Humphreys - AAFC Winnipeg
Field Pea Co-op "A"	FSJ	25	3	75	Dr. Dengjin Bing - MRC Morden
Field Pea Co-op "B"	FSJ	25	3	75	Dr. Dengjin Bing - MRC Morden
Northern Solin Trials	DC	16	3	48	Dr. Paul Dribnenki - Agricore United
Northern Solin Trials	FSJ	16	3	48	Dr. Paul Dribnenki - Agricore United
Early Flax CFET A	DC	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax CFET B	DC	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax CFET C	DC	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax CFET D	DC	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax CFET E	DC	16	3	48	Dr. Scott Duguid - MRC Morden
Early Flax CFET A	FSJ	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax CFET B	FSJ	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax CFET C	FSJ	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax CFET D	FSJ	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax CFET E	FSJ	16	3	48	Dr. Scott Duguid - MRC Morden
Early Flax PREFTSJ BK 02	FSJ	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax PRFFTSJ BK 02	FSJ	25	3	75	Dr. Scott Duguid - MRC Morden

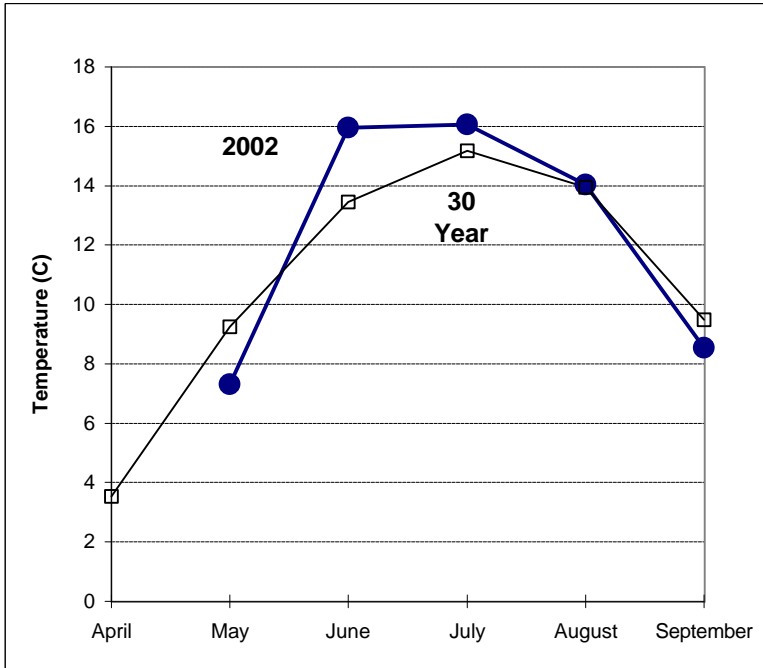
<b>Varietal Development continued ...</b>	<b>Site</b>	<b>Varieties</b>	<b>Replicates</b>	<b>Plots</b>	<b>Source</b>
Early Flax PRGFTSJ BK 02	FSJ	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax PRHFTSJ BK 02	FSJ	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax PRKDAW BK 02	DC	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax PRLDAW BK 02	DC	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax PRMDAW BK 02	DC	25	3	75	Dr. Scott Duguid - MRC Morden
Early Flax PRNDAW BK 02	DC	25	3	75	Dr. Scott Duguid - MRC Morden
Parkland 'C' Wheat Co-op	DC	25	3	75	Alanna Olson - AAFC Beaverlodge
Parkland 'C' Wheat Co-op	FSJ	25	3	75	Alanna Olson - AAFC Beaverlodge
AGRICORE UNITED Wheat Marketing	DC	23	4	92	Kevin McCallum -AgricoreUnited(Calgary)
AGRICORE UNITED Barley Co-op 1	DC	20	3	60	Jim Anderson - AgricoreUnited (Calgary)
AGRICORE UNITED Barley Co-op 2	DC	16	3	48	Jim Anderson -Agricore United (Calgary)
AGRICORE UNITED Northern Solin Flax Co-op	DC	16	3	48	Dr. Paul Dribnenki - Agricore United (MB)
AGRICORE UNITED Northern Solin Flax Co-op	FSJ	16	3	48	Dr. Paul Dribnenki - Agricore United (MB)
Soybeans	DC	15	4	60	BCGPA
Forage Seed Association	BALD	50	4	200	Sandra Burton

Other studies in Agronomy and Privately Contracted work amounts to an additional 760 plots.

**Site:** FSJ = Cameron Fines, Fort St. John  
DC = Dennis Meier, Dawson Creek  
BAL = Sandra Burton (Site Manager), Baldonnel

**Sources:** AAFC = Agriculture & Agrifood Canada  
AAFCDL = Agriculture & Agrifood Crop Development Centre  
CDCSD = Crop Development Centre, South Division, Brooks Alberta  
MRC = Morden Research Centre, Agriculture & Agrifood Canada, Morden, Manitoba  
UofA = University of Alberta, Edmonton, Alberta

# Dawson Creek Weather Information 2002



## TEMPERATURE

Month	Monthly Avg. Temp. (C)	Temp.* 30 year Avg. (C)
April		3.5
May	7.3	9.2
June	16.0	13.5
July	16.0	15.2
August	14.0	14.0
September	8.5	9.5

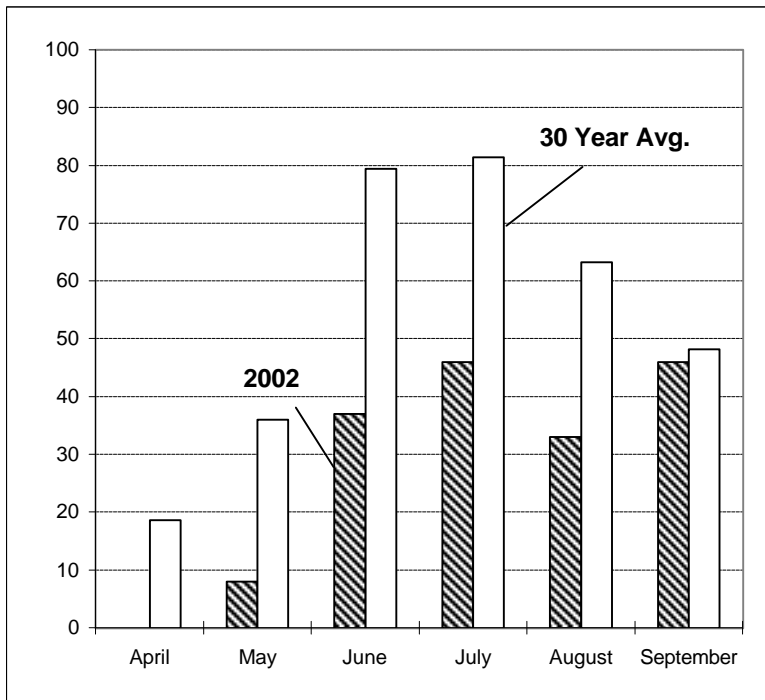
**Frost Events:** May 17 -2.5  
**May 19 -2.5**  
 May 25 -2.0  
 Sept. 6 -1.4  
**Sept 25 -3.0**

**Killing Frost Free Period: 129 days**  
 (May 19 - September 25)

\* 30 year average DC from 1968-1997  
 Source: Environment CANADA

## PRECIPITATION

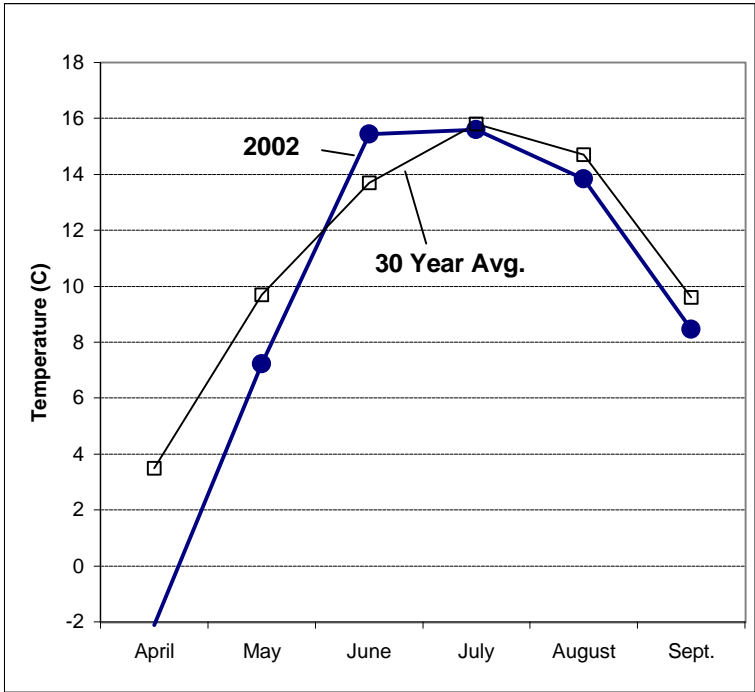
Month	Monthly Precipitation (mm)	Precipitation* 30 year Avg. (mm)
April		19
May	8	36
June	37	79
July	46	81
August	33	63
September	46	48



Data is provided by an on site weather station maintained by the Agriculture Risk Management Branch of the BC Ministry of Agriculture, Food and Fisheries.



## Fort St. John Weather Information 2002



### TEMPERATURE

Month	Monthly Avg. Temp. (C)	Temp.* 30 year Avg. (C)
April	-2.1	3.5
May	7.2	9.7
June	15.4	13.7
July	15.6	15.8
August	13.8	14.7
Sept.	8.4	9.6

**Frost Events:** May 9 -4.0    Sept 6 -1.7  
 May 10 -1.5    Sept 7 -2.0  
 May 25 -0.7    **Sept 22 -2.8**

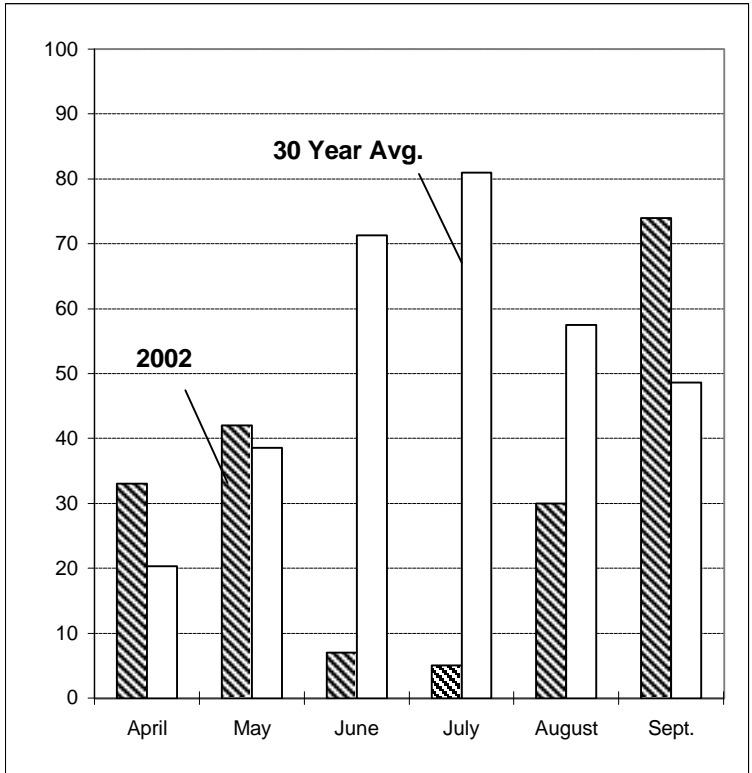
**Killing Frost Free Period: 136 days**  
 (May 9 - September 22)

\* 30 year average FSJ from 1968-1997  
 source: Environment CANADA

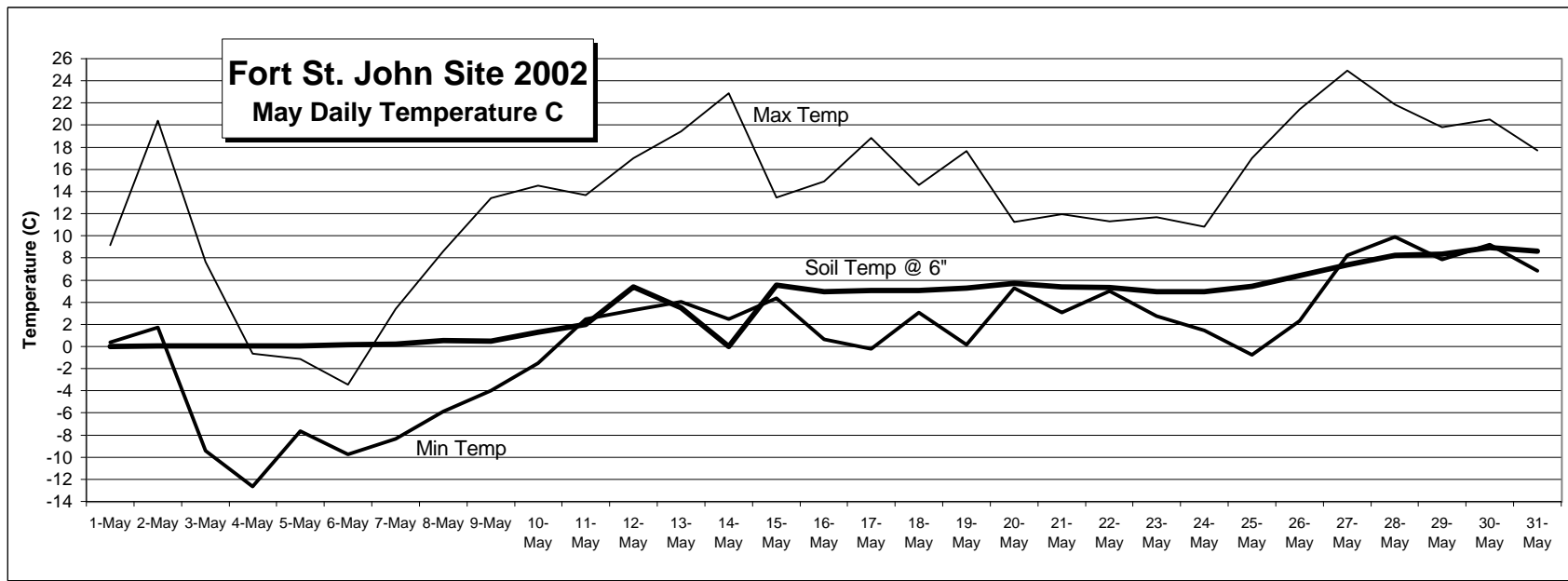
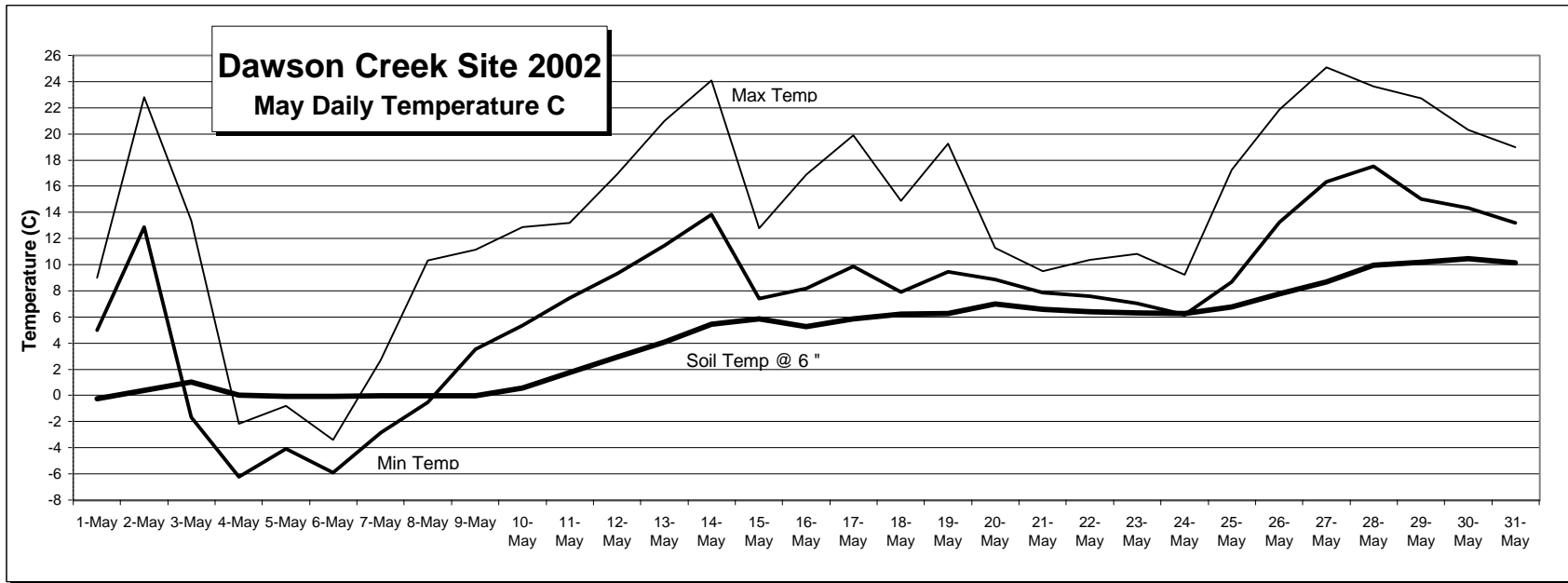
### PRECIPITATION

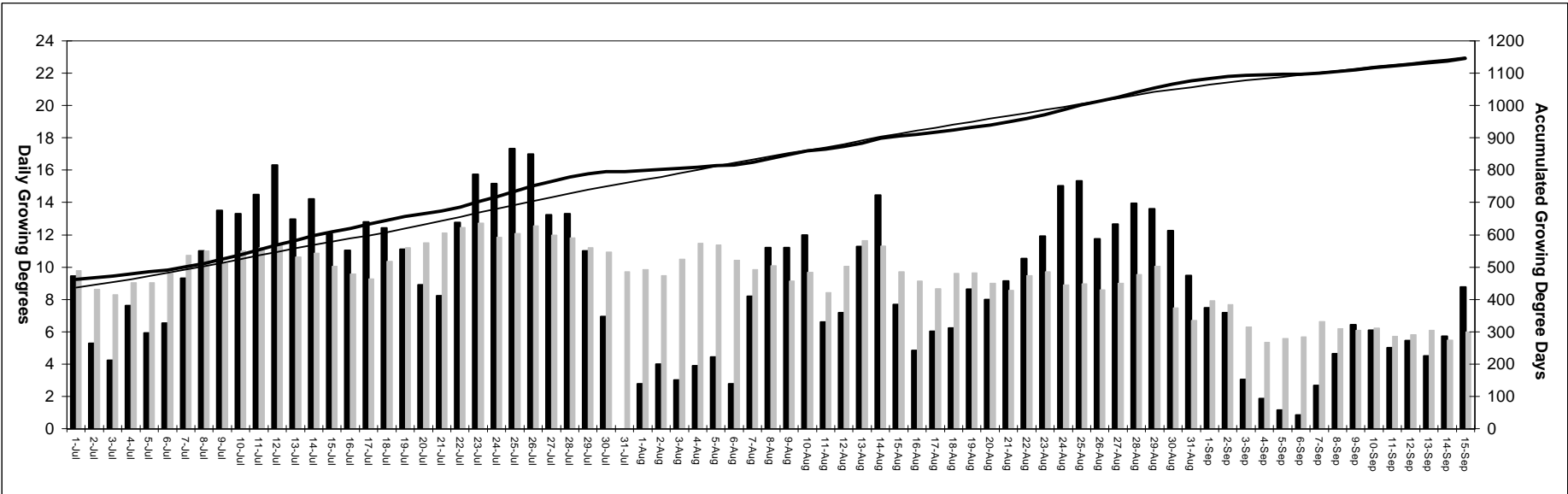
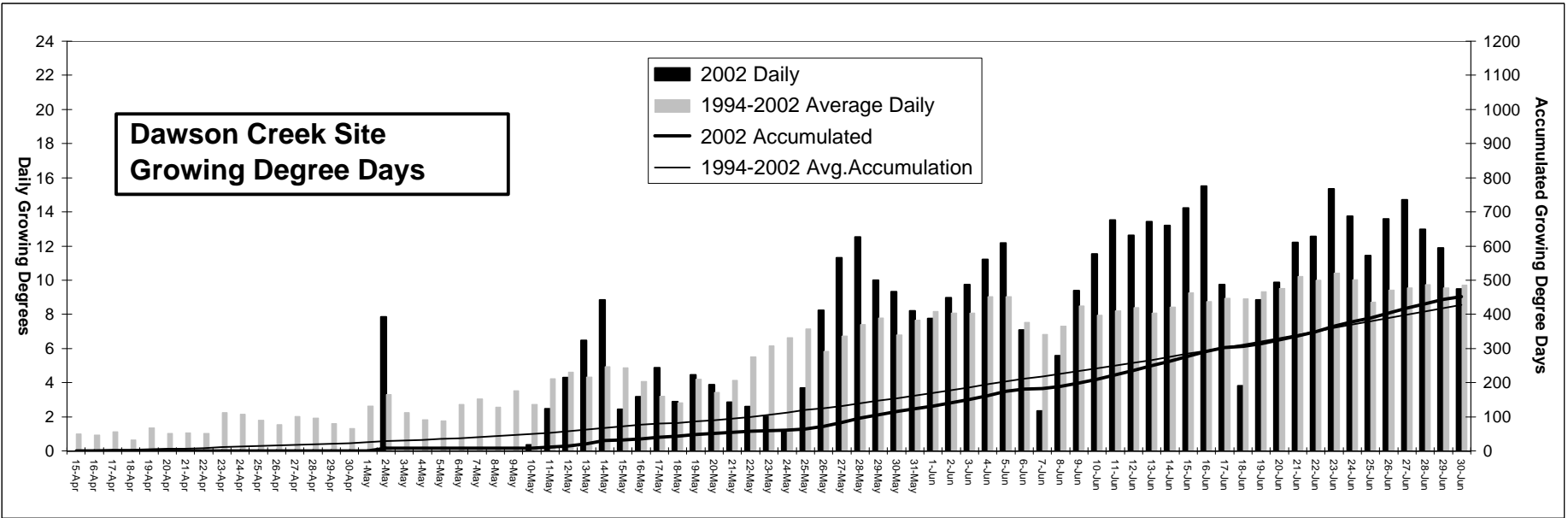
Month	Monthly Precipitation (mm)	Precipitation * 30 year Avg. (mm)
April	33	20.3
May	42	38.5
June	7	71.3
July	5	80.9
August	30	57.5
Sept.	74	48.6

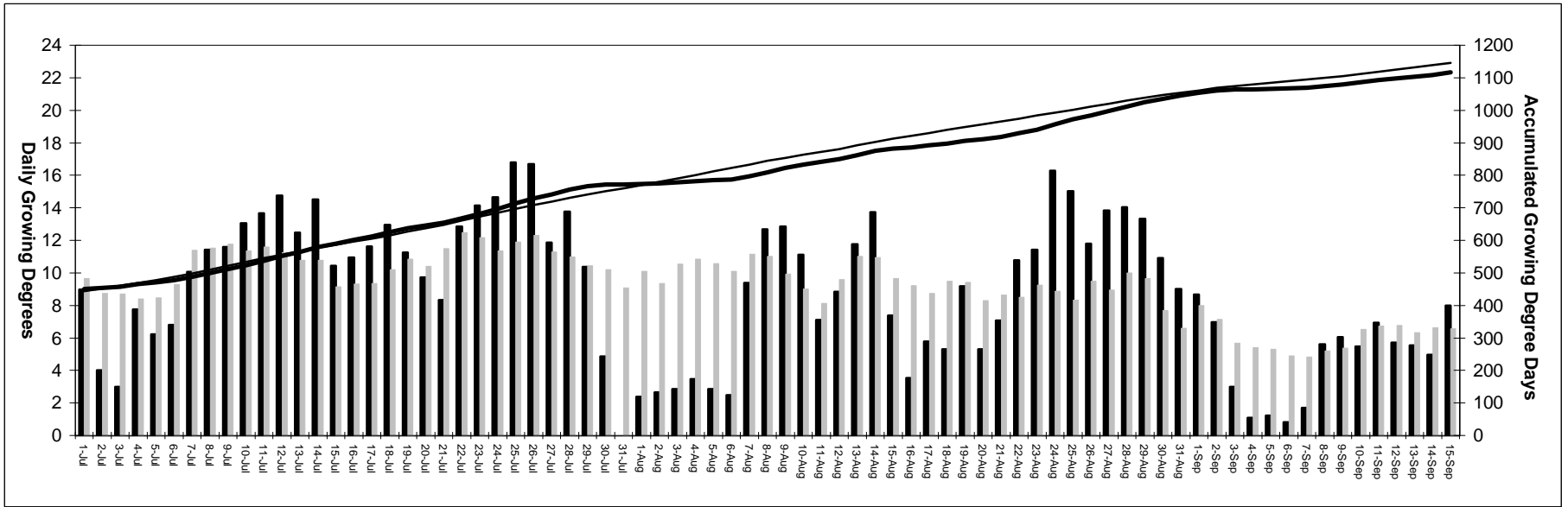
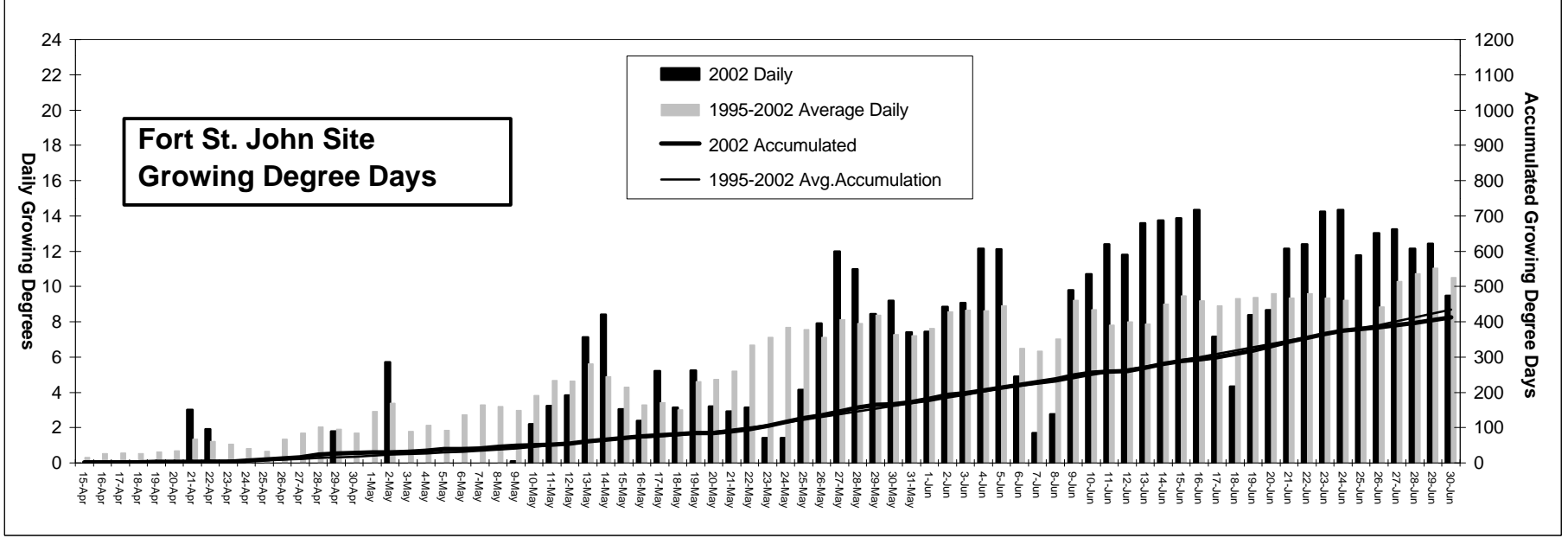
Data is provided by an on site weather station maintained by the Agriculture Risk Management Branch of the BC Ministry of Agriculture, Food and Fisheries.











## List of Certified Seed Distributors

### **Advanta Canada Inc.**

PO Box 181, Rycroft, AB T0H-3A0  
Tel: (780) 518-3963 Nick Sekulic  
Tel: (800) 661-9000  
[www.advantacan.com](http://www.advantacan.com)

### **Agricore United / Proven Seeds**

Dawson Creek Tel: (250) 782-9264  
Fort St. John Tel: (250) 785-3445  
Proven Seeds Tel: (800) 565-7333  
[www.provenseed.com](http://www.provenseed.com)  
[www.agricoreunited.com](http://www.agricoreunited.com)

### **AgriPro**

Tel: (877) 247-4746 (USA)  
[www.agripro.com](http://www.agripro.com)

### **Agriprogress Inc.**

Box 2499 Morden, MB R6M-1C2  
Tel: (204) 822-4956

### **Bayer CropScience Canada Co. (Aventis)**

#100, 3131-114 Ave. SE Calgary AB T2Z-3X2  
Tel: (888) 283-6847  
[www.bayercropscience.ca](http://www.bayercropscience.ca)

### **Bonis & Company Ltd.**

P.O. Box 217 Lindsay, ON K9V-5Z4  
Tel: (705) 324-0544

### **Brett - Young Seeds Ltd.**

Box 99, St. Norbert Postal Station,  
Winnipeg, MB R3V-1L5  
Tel: 1-800-665-5015  
[www.byseeds.com](http://www.byseeds.com)

### **Canseed Ltd.**

Tel: (403) 742-0621

### **Canterra Seeds Ltd.**

Tel: (204) 992-2727  
[www.canterra.com](http://www.canterra.com)

### **Cargill**

6711-93 Ave., Fort St. John, BC V1J-6K8  
Tel: (250) 787-0638  
[www.cargill.com](http://www.cargill.com)

### **Columbia Seed Co. Ltd.**

Tel: (403) 654-2158  
[www.klempnauer.ab.ca/cseed](http://www.klempnauer.ab.ca/cseed)

### **Dekalb Canada Seeds (Monsanto)**

Tel: (800) 667-4944  
[www.dekalb.com](http://www.dekalb.com)

**DSV Canada Inc.** Tel: (204) 261-7932

### **Prairie Seeds Ltd.**

1805 - 8 Street, Nisku AB T9E-7S8  
Tel: (780) 955-7906 or (800) 222-6443  
[www.prairieseeds.com](http://www.prairieseeds.com)

### **Progressive Seeds Ltd.**

Tel: (403) 443-9661

### **Pioneer Hybrid**

Box 730 Country Rd 264  
Chatham, ON N7M-5L1  
Tel: (250) 782-4800 or (800) 265-9435  
[www.pioneer.com/canada](http://www.pioneer.com/canada)

### **Quality Assured Seeds**

422 McDonald St. Regina SK S4N-6E1  
Tel: (877) 791-0500  
[www.qualityassuredseeds.com](http://www.qualityassuredseeds.com)

### **SeCan Association**

201-52 Antares Dr. Ottawa ON K2E-7Z1  
Tel: (613) 225-6891 or (800) 764-5487  
[www.secan.com](http://www.secan.com)

### **Seed-Link Inc.**

Tel: (705) 324-0544  
[www.seed-link.ca](http://www.seed-link.ca)

### **S.S. Johnson Seeds Ltd.**

Tel: (204) 376-5228  
[www.johnsonseeds.com](http://www.johnsonseeds.com)

### **St. Denis Seed Farm Inc.**

Tel: (780) 961-3368

### **Svalof Weibull Ltd.**

2-411 Downey Rd., Saskatoon SK  
S7N-4L8 Tel: (306) 477-5230  
[www.swseed.ca](http://www.swseed.ca)

### **Syngenta**

Tel: (403) 327-2411  
[www.syngenta.com](http://www.syngenta.com)

### **University of Alberta**

114 St.-89 Ave. Edmonton AB T6G-2M7  
Tel: (403) 492-3239  
[www.ualberta.ca](http://www.ualberta.ca)

### **Western Growers Seed Corp.**

Tel: (306) 373-2400