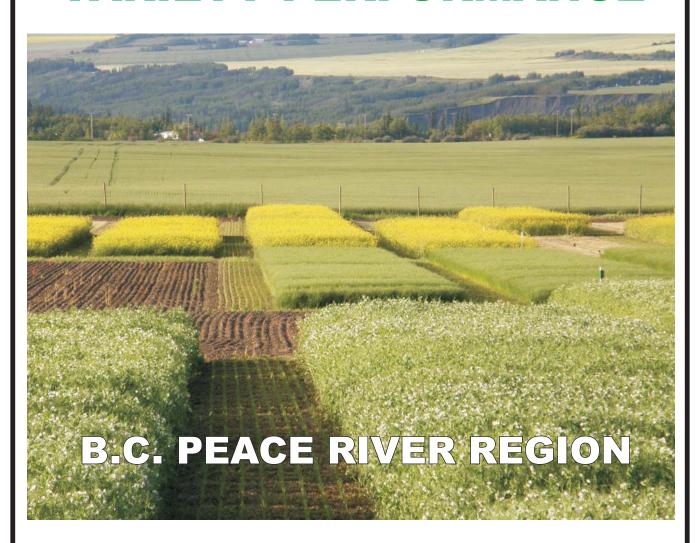


2011 FIELD CROP VARIETY PERFORMANCE



Funding provided by ...







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BC Grain Producers Association 2011 Field Crop Variety Performance BC Peace River Region

Table of Contents

Introduction & Acknowledgements	1
Reference & Terminology	2
Growing Conditions_	
Interpreting Data	
Fertilizer Rates	5
Herbicide Applications	6
Planting & Harvest Data	6
CWRS Wheat	7
CPS/CWSWS Wheat	11
Durum Wheat	13
Barley	15
Oats	19
Triticale	22
Canola Maturity Rating Chart	23
Pests of Peace River Region Canola	24
Argentine Canola	25
Field Peas	31
Flax	35
Summary of Trials	36
Weather Information_	
Seed Distributors	40

Front cover photo

Field pea research plots in the foreground, flax plots in the middle, canola at back as seen in the third week of July, 2011 at the Fort St. John research farm. Note that there is still an unusual amount of blooming going on due to lots of moisture earlier in June and early July, 2011 (see pages 38-39 on amounts).

Front cover photo credit: Clair Langlois

BC Grain Producers Association 2011 Field Crop Variety Performance BC Peace River Region

Introduction, Acknowledgements, and Cautionary Notes

This report summarizes the *Field Crop Variety Performance Trials* that were 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 British Columbia – IAF BC Peace River Grain Industry Development Council - BCPRGIDC

LOUIS DREYFUS (Dawson Creek office) should be recognized for their contribution via kernel protein analysis, **HADLAND SEED FARM LTD.** and **HILL FARMS LTD.** for bulk certified seed contributions, as well as several other anonymous local producers for their own certified seed-lot contributions, whom should all be recognized for their help with these trials and thus the results you see here. We thank these individuals/organizations for their "in-kind" support towards making our field-testing and the production of this book possible. Various other private organizations make financial contributions for field days, etc., throughout the year; an invaluable influx of funds to the support of the research department. Special thanks also extended to the site cooperators who continue to generously give their support of the program, *Vic Blanchette* for the Fort St. John site, and *School District 59* for the use of the *Hudson School Farm* near Dawson Creek, BC. A further word of thanks goes out to *Dennis Meier* of Dawson Creek who continuously and generously offers us space on his adjacent farm for all our field equipment.

We should also thank our field and lab team whom once again helped to make this year yet another successful year. They are full-time technicians *Satoru Nosho*, *Brandi Smith*, and *Michelle Whelpton* whom all worked very hard and well together. Many thanks yet once again to *Colleen Anderson* for her help this time, in the review of this report. We extend a notice of thanks as well to all our part-time workers too numerous this season to list, but whom were invaluable in a year of increased workload (largest number of plots tested historically) and with all the heavy weeding pressures associated with the intense rainfall.

This document reports all tested materials grown during the 2011 growing season from performance trials placed at both the Dawson Creek and Fort St. John research farms, and as such the **data compiled in this report is derived from "head-to-head" comparisons only**. Materials not included in 2011, but which were previously tested, may now be viewed via earlier publications and are available for viewing or downloading at www.bcgrain.com.

Multiple-year testing for any one variety is our goal, but often new materials have only been tested for one year, the current year usually. This can sometimes result in an unfair representation of the new single-year materials against statistically stronger multiple-year materials even though this report cautions readers about this possible effect. To try to resolve this issue starting in 2007 we now display the results in two graphs for each crop type, one with only the current year's results, and one with multiple-year results. In the multiple-year graphs, new one-year data is left out. Where one-year results are shown, be it in current-year graphs or in charts, readers still **must interpret and use such one-year data with considerable caution**, as a variety may change position regarding both yield and maturity as additional results are obtained. This is simply the effect of compiling data from variable weather patterns over time. The more station years, (defined as one test site at one location in one year), that can be used to produce an average, the more stable and reliable the result will be, hence the association's steadfast efforts to procure multi-year data. By providing readers now with a separate "current year graph" for each crop-type, many of the risks with looking at one-year data is still there but the chances of misrepresenting a new entry against its older neighbors is greatly reduced.

This book is produced without bias and is reported to the best of our ability from our own site data collection (except where noted as in any additional canola data). It should only be used as a guide, and where labels are available with your product, be it seed or other 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 have six station years, or [6]. We advise using caution if the data is based on *less than three station years in total*, or less than two years at both locations. This of course is a concern for canola where often a line does not even stay in the seed market for more than two years.

Crops in this book are managed using the same level of

Interpreting Yield Results

inputs as field sized recommendations would suggest. Small-plot research plots offer better consistency and can be better controlled, whereas wet areas and variable soil fertility affect field-scale crop production. However, 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 we can therefore compare varieties in each trial and look at resulting vields relative to one another. Yields here are thus the result of small plot production and the same level of production is unlikely to be achieved on a large-scale basis. Unfortunately statistics, which are vital, cannot be used on "percent of check variety" data. Thus, we elected to show bushels per acre for this current year for the sole purpose of displaying statistical results for the current year. Treat all yields, (percent of check and bushels per acre), as relative results. Agronomic information for the check variety has been bolded in all the tables to identify it.

Plant Breeders Rights

The Plant Breeders' Rights (PBR) gives plant breeders "copyright" protection of a variety for up to 18 years. Once a variety has been granted PBR, the breeder has control over the multiplication and sale of the seed. The breeder can take legal action for damages if someone infringes on their rights. Farmers may save some seed for seeding the next year on their own farm, but the sale of the crop as seed for planting purposes to others is not allowed. Many new transgenic herbicide-tolerant varieties have additional restrictions through 'technical use agreements', so be aware of these too, as they often replace PBR status and can have strong consequences if ignored. Varieties protected by PBR can be identified by their PBR logo on a seed bag, seed tag, or advertising material. This book tries to identify such PBR lines within "Variety Description" tables with a solid square box. Ultimately however, it is the responsibility of the grower to know which line is PBR.

Certified 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 foreign seed when compared to common seed. Certified seed can be purchased in bulk through authorized seed dealer networks, (see "Seed Distributors" at the back of this report).

Seed Treatment

Choosing disease-resistant varieties and using certified seed is good, but treated seed goes a long way in the fight against plant diseases too. The cost of a fungicide or a combined fungicide/insecticide seed treatment can be a small price to pay for the amount of protection and peace of mind they provide. The right seed treatment choice is important as some perform better than others for certain crop types. 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* and early season *seedling* diseases.
- 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

The fungal disease Ergot can attack the grain of 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. The black rice-like "seed mummies" can be spotted prior to harvest in heads during a field inspection.

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. Rhizobia are living organisms so check the expiry date on the package and follow inoculant label directions carefully. Generally it is a good idea prior to its use and even during use if possible, to try and reduce the inoculant's exposure to sunlight, open-air, and warmth. Granular formulations placed with the seed have traditionally offered good results in Peace soils, but new inoculants are constantly entering the market place which may offer excellent inoculation as well. Survival of residual rhizobia organisms in our cool Peace soils is not consistently reliable; making use of inoculant with seed is a good form of insurance. High soil nitrogen levels (over 60 kg N/ha) will reduce nodulation in the field regardless of inoculation. 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 at plant was used on all pea-trials seen here in this report.

Seeding Rates

While the following *range* of seeding rates has given consistent yields for each crop in these trials, experience has shown that the top end of the range provides even 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 at harvest.

For example, tests conducted by the Beaverlodge Research Station several years ago throughout the Peace region 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. Our own BCGPA trials involving seeding rates in barley did not show similar results upon conclusion. Initially our results did show that when increasing seeding rates to 2.25 to 2.5 bushels per acre for barley, it decreased maturity from 2 to even 4 days, which is significant by harvest. However, over the full 5 years of the project, results became less significant. Wheat was not tested.

Suggested Rates of	Seeding
Wheat 90 - 120 lb/ac CPS Wheat 130 - 180 lb/ac Barley 75 - 100 lb/ac Oats 70 - 90 lb/ac Flax 26 - 40 lb/ac Rye 65 - 85 lb/ac Peas 150 - 300 lb/ac	2 100 - 135 kg/ha 2 145 - 200 kg/ha 35 - 110 kg/ha 85 - 100 kg/ha 30 - 35 kg/ha 73 - 95 kg/ha
Argentine Canola 5 - 8 lb/ac Polish Canola 5.5 lb/ac	6 - 9 kg/ha 6 kg/ha

Due to large differences in seed sizes, seeding rates can vary considerably. Therefore, one should base the seeding rate 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	Avr. 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 (using peas):

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 will grow into healthy plants. Thus...

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

BC Grain Producers Association - 2011 Growing Conditions -

Our farming season started on the cool side with sufficient moisture, delaying planting by about a week from "normal", if one can still define what a "normal spring" is anymore. Good fortune occurred during planting with only a few interruptions from light rains and one significant wet snowfall, but all research plots made it into the ground prior to any significant deadlines commercial operations would face such as "crop insurance deadline" on canola. All crops emerged beautifully showing great prospects for a good crop year, however in mid-June until mid-July it all changed with heavy rains. Worst was at the Dawson Creek (DC) site but both DC and Fort St. John (FSJ) sites produced record breaking rainfall at this time. At one point the entire field at DC was under water for at least 24-36 hours. There were three such major rain events in 2011 over just three weeks, which delayed weed control from finishing or even starting (depending on the crop) and it caused significant root-rot in canola at the DC site. This root-rot eventually took its toll on over half of the canola trials at DC - fortunately without long-last affects however on those canola trials that make up the data in this publication. All other crop trials (and surviving canola trials) all seemed to pull through the flooding without any long-lasting affects and went on to produce incredibly high yields of high quality and with little to no lodging by harvest.

Harvest was of course delayed under this scenario as crops (all crops) just did not want to stop growing which put us all into the leaner daylight days of autumn with little heat to offer, morning fogs, and early evening dews, meaning a very late harvest as most producers can relate to. To our fortune however, a killing frost stayed away from both the DC and FSJ sites until well after Thanksgiving, a highly unusual event, but one that allowed harvest of all trials to finish up (however with encouragement from crop desiccation in most cases), and get any post-harvest site preparations to occur before the snow flew too. The real amazing thing through all this is that other than field peas, even with the higher than normal heights and heavy yields, lodging was a non-event.

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.

Two Roy	w Barle	ey .		Yield as % of AC Metcalfe									
Variety	Туре	Daw 2011 Yield	vson Cre 2003-2 Avg.		For 2011 Yield	t St.Johr 2003-2 Avg. S	011	B.C <u>2011</u> Yield	2003-2011 Avg. Stn.Yrs.				
XENA 2-row	feed	115	113	[3]	125	105	[5]	120	109 [8]				
note: above example	is dramatiza	tion		Number of y owas tested at			Number of times in total the variety was tested in the BC Peace .						

Statistical Values Entries into the Regional trials are replicated (or repeated) four times (three times minimum) at both locations. Replication is used to derive an overall average per entry per trial, and allow for statistical analysis.

Coefficient of Variance (CV value), given as a percentage, it 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 and indicates "sound" data. This means if you were to repeat the trial under similar conditions, you would get similar 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 these are normally highly variable due to 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.

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 vari-

Example:	Daw	son Creek
	2011	2003-2011
Variety	Yield	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]

ability into account, and compares "apples" to "apples".

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 this current year's data, and thus you should still take notice of the long term averages. Note that preferably data should have six station years, (usually meaning 3 years at each site), but that for any varieties with less than three station years of data, you must compare data with caution.

Fertilizer Rates Used In 2011

Fort St. John, B.C.	Legal Desc	ription:	SW19 Tp84	R18 W6				
	Fertilizer			lbs actual/ac	Envir	o-Tes	t Labs	3
Crop	Applied	kg/ha	Placement	Recom. vs. Applied	N	P ₂ 0 ₅	K ₂ O	S
Canola	27-0-0-12	214	banded	Recommended* =	35	25	15	25
	6-26-30	55	banded	Actually applied =	57.7	26.7	14.7	22.9
	12-52-0	30	in-furrow					
Flax	27-0-0-12	214	top dressing	Recommended* =	40	30	15	15
	6-26-30	50	banded	Actually applied =	57.4	25.5	13.4	22.9
	12-52-0	30	in-furrow					
Cereals	34.5-0-0-0	95	banded	Recommended* =	0	32	15	10
	6-26-30 12-52-0	50 30	banded in-furrow	Actually applied =	34.7	25.5	13.4	0
Peas	20-0-0-24	55	banded	Recommended* =	0	25	15	10
	6-26-30	50	banded	Actually applied =	15.7	25.5	13.4	11.8
	12-52-0	30	in-furrow					

Dawson Creek, B.C.	Legal Desc	ription:	SW20 Tp78	8 R14 W6				
	Fertilizer			lbs actual/ac	Envir	o-Tes	t Labs	3
Crop	Applied	kg/ha	Placement	Recom. vs. Applied	N	P ₂ 0 ₅	K ₂ O	S
Canola	27-0-0-12 6-26-30 12-52-0	214 55 30	banded banded in-furrow	Recommended* = Actually applied =	35 57.7	25 26.7	15 14.7	25 22.9
Flax	27-0-0-12 6-26-30 12-52-0	214 50 30	banded banded in-furrow	Recommended* = Actually applied =	0 57.4	25 25.5	20 13.4	12 22.9
Wheat & Barley	34.5-0-0-0 6-26-30 12-52-0	160 50 30	banded banded in-furrow	Recommended* = Actually applied =	50 54.4	22 25.5	20 13.4	5 0
Malt Barley & Oats	34-0-0-0 6-26-30 12-52-0	127 50 30	banded banded in-furrow	Recommended* = Actually applied =	35 44.4	22 25.5	15 13.4	10 0
Peas	20-0-0-24 6-26-30 12-52-0	55 50 30	banded banded in-furrow	Recommended* = Actually applied =	0 15.7	20 25.5	15 13.4	12 11.8

Recommended* = recommendations given by Enviro-Test Labs of Calgary, Alberta, calculated from soil samples pulled earlier in the spring of the same calendar year.

Pesticide Applications

Fort St. John, B.C.	Legal Desc	Legal Description: SW19 Tp84 R18 W6									
Crop	Date Applied	Date Applied Product Used									
Canola	18-Jun-11	Muster (ethametsulfuron methyl)	12 g/ac								
		Lontrel 360 (clopyralid)	227 ml/ac								
		Poast Ultra (sethoxydim)	200 ml/ac								
		Merge	400 ml/ac								
Field Peas	9-Jun-11	Sencor (metribuzin) 75%DF	77g/ac								
		MCPA Sodium	190ml/ac								
Flax	18-Jun-11	Buctril - M (bromoynil + MCPA)	400 ml/ac								
Wheat, Barley, Oat	18-Jun-11	Buctril - M (bromoynil + MCPA)	400 ml/ac								

Dawson Creek, B.C.	Legal Desc		
Crop	Date Applied	Product Used	Product Rate
Canola (napus & rapa)	11-Jun-11	Muster (ethametsulfuron methyl)	12 g/ac
		Lontrel 360 (clopyralid)	227 ml/ac
		Poast Ultra (sethoxydim)	200 ml/ac
		Merge	400 ml/ac
Field Peas	8-Jun-11	Sencor (metribuzin) 75%DF	77 g/ac
		MCPA Sodium	190 ml/ac
	22-Jun-11	Assure II	200ml/ac
		Sure-Mix	6L/1000L H2O
Flax	13-Jun-11	Buctril-M (bromoynil + MCPA)	400 ml/ac
	22-Jun-11	Assure II	200ml/ac
		Sure-Mix	6L/1000L H2O
Malt Barley	22-Jun-11	Refine SG	12 g/ac
Oat		Ag Surf	2L/1000L H2O
		MCPA Ester	228ml/ac
Wheat, Barley, Trit	8-Jun-11	Refine SG	12 g/ac
		Ag Surf	2L/1000L H2O
		MCPA Ester	228ml/ac

All seed was treated with seed treatment; canola with Helix Xtra®, cereal & flax with Raxil FL®, and pea seed with Apron Maxx RTA.

Planting and Harvest Information Seeding rate Date Soil Temp Seeding Harvesting kg/ha Crop lbs/ac **Planted** (C°) @ plant Depth **Harvest Date** Method Loc. Napus Canola 0.5 - 1 inch 15-Oct-11 FSJ 8 8.9 16-May-11 12 desiccate/direct 40 45 13-May-11 10 0.75 - 1 inch 19-Oct-11 desiccate/direct Flax 25-May-11 0.5 - 1 inch 19-Sep-11 desiccate/direct Barley 77 86 10 CWRS Wheat 25-May-11 0.5 - 1 inch 9-Oct-11 desiccate/direct 90 101 10 CPS/CWES 90 101 25-May-11 10 0.5 - 1 inch 24-Oct-11 desiccate/direct Oats 81 90 25-May-11 10 0.5 - 1 inch 9-Oct-11 desiccate/direct **Triticale** 25-May-11 0.5 - 1 inch 24-Oct-11 desiccate/direct 117 131 10 Peas 149 167 10-May-11 5 1 - 2 inch 8-Sep-11 desiccate/direct Napus Canola DC 8 8.9 15-May-11 10 0.5-1 inch 14-Oct-11 desiccate/direct Flax 40 45 12-May-11 7 0.5-1.25 inch 16-Oct-11 desiccate/direct Barley 77 86 21-May-11 11 0.5 - 1 inch 14-Sep-11 desiccate/direct **CWRS Wheat** 90 101 21-May-11 11 0.5 - 1 inch 7-Oct-11 desiccate/direct CPS/CWES 90 101 21-May-11 0.5 - 1 inch 20-Oct-11 desiccate/direct 11 28-May-11 8-Oct-11 desiccate/direct Oats 81 90 11 0.5 - 1.25 inch Triticale 117 131 21-May-11 11 0.5 - 1 inch 20-Oct-11 desiccate/direct

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149

Peas

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11-May-11

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167

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8

0.5-1.25 inch

desiccate/direct

12-Sep-11

CANADA WESTERN RED SPRING WHEAT

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

CWRS Whea	t					Yield as % of Katepwa							
	Da	awson C	reek			F	ort St. Jo	ohn		B.C	C. Peace)	
	2011 Y		2006-2	2011	20	2011 Yield 2006-201							
Variety	bus / acre	% of Check	Avg. (%)	Station Years	bus / acre		% of Check	Avg. (%)	Station Years	Avg. (%)	Avg. (%)	Station Years	
5603HR	106 a-d	111	105	[4]	100	ij	98	101	[4]	104	101	[8]	
5604HR CL	100 a-e	105	97	[3]	108	f-i	105	97	[3]	105	101	[6]	
AC Barrie	89 e	93	89	[6]	103	hij	101	102	[6]	97	95	[12]	
AC Splendor	101 a-e	106	91	[6]	98	j	96	91	[6]	101	94	[12]	
Alvena	102 a-e	106	98	[5]	110	d-h	108	105	[5]	107	103	[10]	
BW433* ∆	106 a-d	112	112	[1]	101	ij	98	98	[1]	105	105	[2]	
BW901* ∆	106 a-d	112	112	[1]	115	c-g	112	112	[1]	112	112	[2]	
Carberry	102 a-e	107	111	[3]	114	c-g	111	115	[3]	109	111	[6]	
CDC Abound	113 ab	118	110	[6]	126	b	123	111	[6]	121	117	[12]	
CDC Alsask	107 a-d	112	102	[6]	117	cde	114	107	[6]	113	108	[12]	
CDC Go	112 ab	117	102	[6]	118	cde	115	108	[6]	116	109	[12]	
CDC Kernen	101 a-e	106	101	[3]	116	c-f	113	113	[3]	109	107	[6]	
CDC Osler	100 a-e	105	101	[6]	110	d-h	108	105	[6]	106	104	[12]	
CDC Stanley	107 abc	113	105	[3]	115	c-g	112	105	[3]	112	109	[6]	
CDC Thrive	105 a-d	111	99	[3]	118	cde	115	114	[3]	113	107	[6]	
CDC Utmost	106 a-d	111	104	[3]	116	c-f	114	111	[3]	112	109	[6]	
Glenn	101 a-e	106	103	[3]	108	f-i	105	104	[3]	105	104	[6]	
Goodeve	103 a-e	108	102	[5]	109	e-h	107	106	[5]	108	104	[10]	
Harvest	102 a-e	107	92	[6]	111	d-h	108	102	[6]	107	100	[12]	
Infinity	116 a	121	105	[6]	122	bc	119	110	[6]	120	112	[12]	
Katepwa	95 cde	100	100	[6]	102	hij	100	100	[6]	100	100	[12]	
Muchmore	110 abc	115	107	[3]	119	bcd	117	115	[3]	116	112	[6]	
Shaw	105 a-d	110	103	[3]	113	c-g	110	111	[3]	110	106	[6]	
Snowbird**	97 b-e	101	92	[6]	106	g-j	104	102	[6]	103	98	[12]	
Snowstar**	107 abc	113	95	[6]	113	c-g	110	106	[6]	111	103	[12]	
Stettler	108 abc	113	119	[4]	126	b	123	118	[4]	118	118	[8]	
Superb	115 a	121	111	[6]	135	а	132	120	[6]	126	115	[12]	
Unity	111 abc	117	108	[4]	118	cde	115	111	[4]	116	112	[8]	
Vesper	91 de	96	100	[2]	106	g-j	104	100	[2]	100	102	[4]	
WR859 CL	107 a-d	112	107	[4]	104	hij	101	102	[4]	107	104	[8]	
LSD (P=.05) =	8.717				5.36								
CV value (%) =	5.9				3.37								

Katepwa - check variety

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

* first year tested, very limited data available

** CWHWS Canadian Western Hard White Spring Wheat

∆ denotes materials not registered, very limited data available

WR859 CL, CDC Abound and 5604HR CL

are Clearfield® tolerant varieties

Unity is a Wheat Midge Resistant variety

CWRS Whea	CWRS Wheat										/ar	iet	y Descriptions
	<u>B.</u>	C. Pea	ce Aver	ages			Alb	oerta A	gdex 1	00/32	2		
		200	3 - 2011					Resis	tance	to:			
	Days to		Bushel	Ker	nel	D		on		Leaf Spot	ing		
	Maturity	Height	Weight	Prote	ein %	Lodging	Loose Smut	ᄪ	ipe st	af S	Sprouting	В	
Variety	+/- check	cm	lbs/bu	+/- c	neck	Loc	Sm	Co	Stripe Rust	Le	Spi	FHB	Distributor
■ 5603HR	0.9	78	63	1	[8]	G	G	G	Р	F	XX	F	Viterra
■ 5604HR CL	-7.7	81	64	0	[6]	G	VG	VG	XX	Р	G	G	Viterra
AC Barrie	-2.2	77	64	1	[12]	G	G	F	VP	Р	G	F	SeCan
AC Splendor	-3.7	76	63	1	[12]	F	F	F	F	F	F	Р	SeCan
Alvena	-1.7	80	63	0	[10]	G	G	G	F	XX	F	Р	SeCan
■ <i>BW4</i> 33* ∆	-1.7	115	65	-1	[2]	XX	XX	XX	XX	XX	XX	XX	Syngenta Seeds Canada
■ BW901* ∆	-2.2	108	65	-1	[2]	XX	XX	XX	XX	XX	XX	XX	Canterra Seeds
Carberry	-1.1	75	65	0	[6]	VG	G	G	G	Ρ	F	G	SeCan
CDC Abound	-1.8	74	65	0	[12]	G	F	F	Р	Ρ	G	Р	Viterra
CDC Alsask	-2.3	80	63	0	[12]	F	G	G	F	Р	F	Р	Viterra
CDC Go	-3.3	73	64	0	[12]	G	Р	G	G	Р	Р	Р	Public Variety
CDC Kernen	0.0	86	65	0	[6]	G	VG	F	F	F	F	F	Canterra Seeds Seeds
CDC Osler	-3.2	75	63	0	[12]	G	G	G	F	F	F	VP	Public Variety
CDC Stanley	-2.2	82	64	-1	[6]	G	G	VP	XX	F	VG	Р	Viterra
CDC Thrive	-3.2	84	64	0	[6]	G	G	F	F	F	Р	Р	SeCan
CDC Utmost	-0.6	80	64	0	[6]	G	Р	VP	F	F	G	Р	FP Genetics
ı Glenn	1.2	81	66	1	[6]	VG	F	F	G	F	F	F	Canterra Seeds
Goodeve	-2.6	82	63	0	[10]	VG	G	Р	F	Р	G	VP	Alliance Seeds Corp.
Harvest	-3.2	76	65	0	[12]	VG	G	F	G	Р	VG	VΡ	FP Genetics
ı Infinity	-1.2	77	63	0	[12]	G	G	F	Р	Р	G	VP	Canterra Seeds
Katepwa	0.0	82	63	0	[12]	F	G	G	Р	Р	F	F	SeCan
Muchmore	-0.8	71	65	-1	[6]	VG	G	G	G	Р	F	Р	FP Genetics
■ Shaw	-3.1	86	65	0	[6]	G	Р	G	XX	Р	G	Р	SeCan
■ Snowbird**	-1.0	79	64	0	[12]	G	G	F	Р	Р	G	Р	FP Genetics
■ Snowstar**	-3.5	72	65	0	[12]	XX	Р	Р	Р	F	F	Р	SeCan
■ Stettler	0.3	76	65	0	[8]	G	G	G	G	Р	G	Ρ	SeCan
■ Superb	-1.5	75	65	0	[12]	G	F	G	VP	Р	G	Р	SeCan
■ Unity	-1.6	77	64	0	[8]	G	Р	VG	Р	Р	G	Р	SeCan
■ Vesper	-3.9	91	65	0	[4]	VG	F	Р	VP	G	F	G	SeCan
■ WR859 CL	-4.4	72	64	0	[8]	G	VG	VG	F	Р	XX	G	Richardson Intl.

^{*} first year tested, very limited data available

WR859 CL, CDC Abound AND 5604HR CL are Clearfield® tolerant varieties Unity is a Wheat Midge Resistant variety

■ Protected by Plant Breeders' Rights

Katepwa - check variety

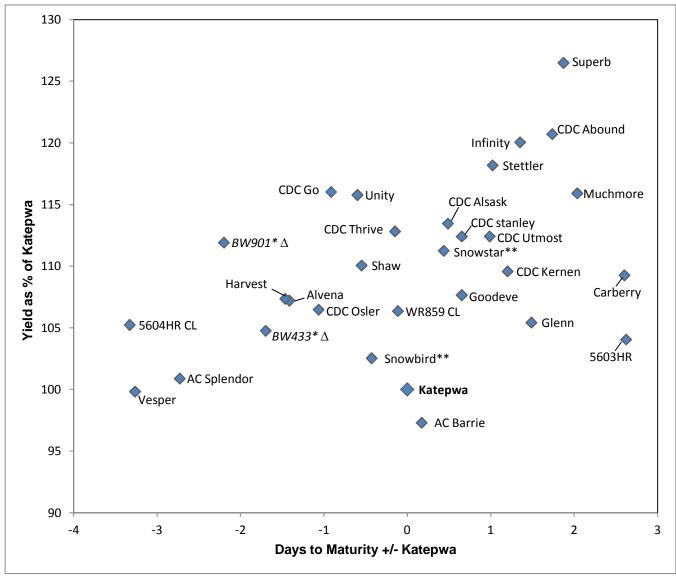
XX = insufficient data

Average protein for **Katepwa** is **13 %** Average maturity for **Katepwa** is **104 days**

VG = very good, G = good, F = fair, P = Poor, VP = very poor

^{**} CWHWS = Canadian Western Hard White Spring Wheat

 $[\]Delta$ denotes materials not registered, very limited data available



Average maturity for Katepwa is 117 days for 2011

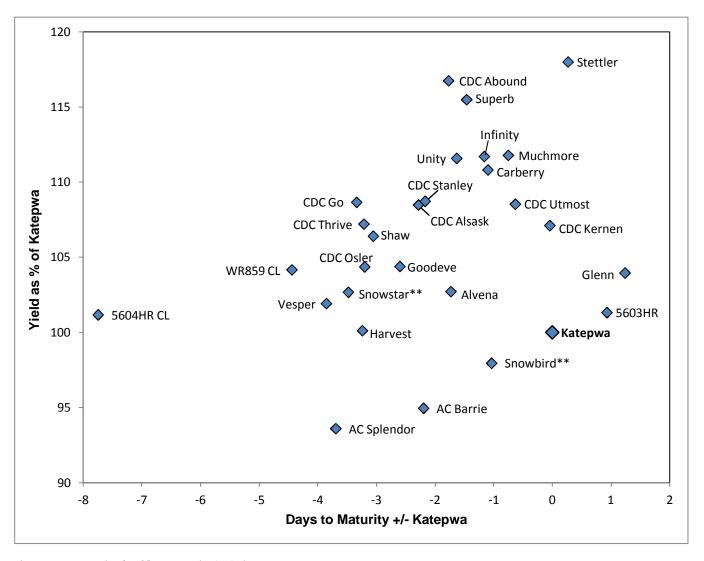
* first year tested, very limited data available

** CWHWS Canadian Western Hard White Spring Wheat

\$\Delta\$ denotes materials not registered, very limited data available

WR859 CL, CDC Abound and 5604HR CL are Clearfield® tolerant varieties

Unity is a Wheat Midge Resistant variety



Average maturity for Katepwa is 104 days

** CWHWS Canadian Western Hard White Spring Wheat

CANADA PRAIRIE SPRING WHEAT

CANADA WESTERN SOFT WHITE SPRING WHEAT

All current Canada General Purpose Spring varieties (CPS and CWSWS are in this class) should be treated with a systemic fungicide seed treatment to control smut. Avoid deep seeding General Purpose wheats. Note the long maturity periods required for the production of currently available CWSWS wheat varieties. Seeding rates for all classes of wheat covered by the new class "General Purpose" should be increased 20 to 25% due to the larger kernel size.

[For testing purposes, CPS and CWSWS wheats are grown together in the same trial and compared against a CWRS]

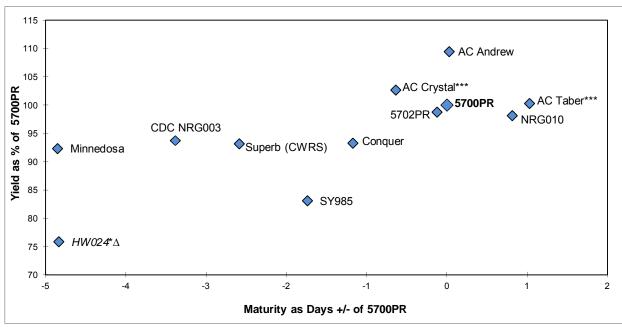
CPS / CW	SWS W		Yield as % of 5700PR												
		Dawson Creek				Fort St. John						B.C. Peace			
		20)11 Y	Yield	2006 -	2011		201	11 Y	'ield	2006 -		2011	2006	2011
Variety	Type	bus /		% of	Avg.	Stn.	bus	/		% of	Avg.	Stn.	Avg.	Avg.	Stn.
		acre		check	(%)	Yrs.	acre	!		check	(%)	Yrs.	(%)	(%)	Yrs.
5700PR	CPS-red	131	h	100	100	[6]	143	3 a	h	100	100	[6]	100	100	[12]
5700FR 5702PR	CPS-red	136	ab	103	99	[5]	135	-	-	94	105	[5]	99	102	[10]
AC Andrew	CWSWS	147	а	112	107	[5]	153			107	112	[5]	109	102	[10]
AC Crystal***	CPS-red	136	ab	104	77	[5]	145		-	101	90	[5]	103	83	[10]
AC Taber***	CPS-red	130	b	99	82	[6]	145	5 a	b	102	91	[6]	100	86	[12]
CDC NRG003	CWGP	127	b	97	94	[2]	129	Э с	;	90	94	[2]	94	94	[4]
Conquer	CPS-red	126	b	96	92	[2]	130) с	;	91	87	[2]	93	90	[4]
HW024* ∆	CWHWS	99	d	76	76	[1]	109) е	•	76	76	[1]	76	76	[2]
Minnedosa	CPS-white	126	b	96	91	[2]	127	7 C	;	89	90	[2]	92	91	[4]
NRG010	CPS-white	132	b	101	99	[3]	137	b b	С	96	97	[3]	98	98	[6]
Superb	CWRS	121	b	93	99	[4]	134	₽ b	С	94	100	[4]	93	99	[8]
SY985 (HY985)	CPS-red	110	С	84	91	[2]	117	d d	i	82	89	[2]	83	90	[4]
LSD (P=.05) CV value (%)		10.08 5.51		_			8.0 4.1			_					

^{*} first year tested, very limited data avaliable

CPS / CWSWS Wheat

Regional Variety Performance

2011



 $\Delta\,$ denotes materials not registered, very limited data available

Average maturity for 5700PR is 122 days for 2011

[∆] denotes materials not registered, very limited data available *** denotes semi-dwarf stature Conquer is a Varietal Blend

CPS / CWS	WS Whe	eat									V	ari	iety	Descriptions
		В.С		ce Avera 6-2011	ages		Da	ita fror		erta Aç		100/3	32	
Variety	Туре	Maturity in days +/- check	Height cm	Bushel Weight Ibs/bu	Kerr Prote +/- che	in %	Lodging	Loose Smut	Common Bunt	Stripe Rust	Leaf Spot	Sprouting	FHB	Distributor
5700PR	CPS-red	0	67	64	0	[12]	VG	Р	G	Р	Р	Р	VP	Viterra
5702PR	CPS-red	0	73	63	0	[10]	G	Р	F	Р	F	F	Р	Viterra
AC Andrew	CWSWS	2	72	64	-1	[10]	VG	VP	Ρ	F	G	F	VP	SeCan
AC Crystal***	CPS-red	1	67	64	1	[10]	G	F	VG	VP	F	Ρ	VP	SeCan
AC Taber***	CPS-red	3	67	64	0	[12]	G	Ρ	VG	VP	F	Ρ	VP	SeCan
CDC NRG003	CWGP	-3	81	64	0	[4]	G	G	VG	XX	VP	XX	VP	Canterra Seeds
Conquer	CPS-red	1	87	64	1	[4]	G	Р	G	XX	F	XX	Р	Canterra Seeds
HW024*Δ	CWHWS	-5	96	65	0	[2]	XX	XX	XX	XX	XX	XX	XX	SeCan
Minnedosa	CPS-white	-4	84	64	0	[4]	G	F	G	G	Р	G	Р	SeCan
NRG010	CPS-white	1	79	63	0	[6]	G	VG	VG	VG	Р	XX	VP	Canterra Seeds
Superb	CWRS	-3	74	65	1	[8]	G	F	G	VP	Р	G	Р	SeCan
SY985 (HY985)	CPS-red	-1	79	65	1	[4]	G	VG	G	XX	F	XX	F	Viterra

^{*} first year tested, very limited data available

5700PR - check variety

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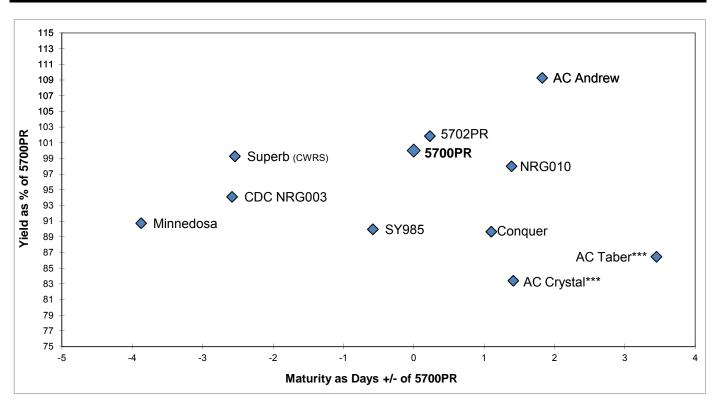
Overall average maturity for **5700PR** is **105** days. Overall average protein for **5700PR** is **11.7** %

VG = very good, G = good, F = fair, P = Poor, VP = very poor XX = insufficient data

 Δ denotes materials not registered, very limited data available *** denotes semi-dwarf stature

Numbers in square brackets [] is number of station years collected for protein

CPS / CWSWS Wheat Regional Variety Performance 2006-2011



DURUM WHEAT

Durum is a type of wheat which is used to make pasta products (macaroni, spaghetti, etc.) and Canada has become a world leader in quality durum. Durum plant breeding within Canada is also moving toward even higher protein content and is developing a brand new category of high gluten strength durum for a specialty pasta market. However, durum requires a long growing season and high heat, two things the Peace River region is not known for having. In the past, durum production has been concentrated in the southern parts of the Canadian prairies.

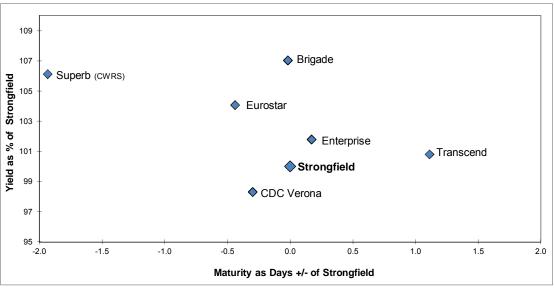
However, a few producers in northwestern Alberta have had success growing the crop and for this reason it has been tested here in the B.C. Peace. Often surprises arise in our northern long-daylight region and so it was worth investigating durum in a limited fashion. Most varieties of durum wheat currently available are suggested by literature to have approximately 10 days later maturity than CWRS wheat, but this may not be proving to be the case locally but was in 2011 (a very wet & late year). Durum should thus not be grown in large acreage within the B.C. Peace River region for grain production until more is understood about its agronomics and interest develops among the grain buyers to purchase the end product from the region - admittedly a vicious circle of acceptance and trial and error. Therefore, caution should be taken when attempting to grow durum in the B.C. Peace region, and disclosure of this data is currently not a recommendation to grow durum in the Peace.

It appears, however, that the B.C. Peace River region has one really big advantage in growing durum, as it would seem we can grow it free of fusarium, a major problem in most durum growing regions. For these reasons data so far collected within the B.C. Peace region has been disclosed as it appears that durum could hold some economic promise to our region in years to come - assuming a buyer/market develops. The test years 2009 and 2010 unfortunately were years of severe drought and poor yield potentials, but compared to other wheat yields over the same period of time at the same testing locations, durum was respectable in yield by comparison and even seemed to survive the drought better than other wheat types. 2011 was a very wet & late year but did not change its promising outlook as a new viable crop-type for our region, noting however that if a normal killing frost would have occurred it would have been bad news for anything later than a CWRS wheat no matter how many days later.

Durum Who	eat							Yield	l as %	% of Str	ongfie	eld
			Dawson (Fort St. J				C. Peac	
		2011 `	Yield	2009 -	2011	201	1 Yield	2009 -	2011	2011	2009	-2011
Variety	Туре	bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
Brigade	CWD	129 a	106	101	[3]	123 b	108	105	[3]	107	103	[6]
CDC Verona	CWD	120 b	98	97	[3]	111 c	98	108	[3]	98	102	[6]
Enterprise	CWD	125 ab	102	104	[3]	115 c	101	105	[3]	102	105	[6]
Eurostar	CWD	124 ab	101	100	[3]	121 b	107	106	[3]	104	103	[6]
Strongfield	CWD	122 ab	100	100	[3]	113 c	100	100	[3]	100	100	[6]
Superb	CWRS	119 b	98	98	[1]	130 a	115	115	[1]	106	106	[2]
Transcend	CWD	124 ab	102	95	[2]	113 c	100	102	[2]	101	99	[4]
LSD (P=.05) = CV value (%) =		5.34 2.89	_			3.17 1.81						

 Δ denotes materials not registered, very limited data available * first year tested, very limited data available

Durum Wheat Regional Variety Performance 2011



 Δ denotes materials not registered, very limited data available

Average maturity for Strongfield is 127 days for 2011

	Durum '	Wheat												٧	⁄ari	ety Descriptions
			E	3.C. Pea 200	ce Aver 9-2011	ages			Da	ata fro		erta Ag		100/3	2	
	Variety	Тур	Maturit in day	Height	Bushel Weight Ibs/bu		rnel ein % ieck	Lodging	Shatter	Loose Smut	Common Bunt	Stripe Rust	Leaf Spot	Sprouting	FHB	Distributor
	Brigade CDC Verona	CW		81 76	64 64	-1 -1	[6] [6]	G G	XX XX	P P	G G	G VG	F P	F F	P P	Viterra Alliance Seed Corp.
-	Enterprise Eurostar	CW CW		78 83	65 65	-1 -1	[6] [6]	G G	XX XX	P P	G VG	VG VG	G F	F F	P P	Canterra Seeds SeCan
-	Strongfield Superb	CW CWF		74 98	64 66	-3	[6] [2]	F G	VG XX	VP F	G G	G VP	P P	F G	VP P	SeCan SeCan
•	Transcend	CW	0.6	86	64	0	[4]	F	XX	VP	VG	VG	F	F	Р	FP-Genetics

^{*} first year tested, very limited data available

Strongfield - check variety

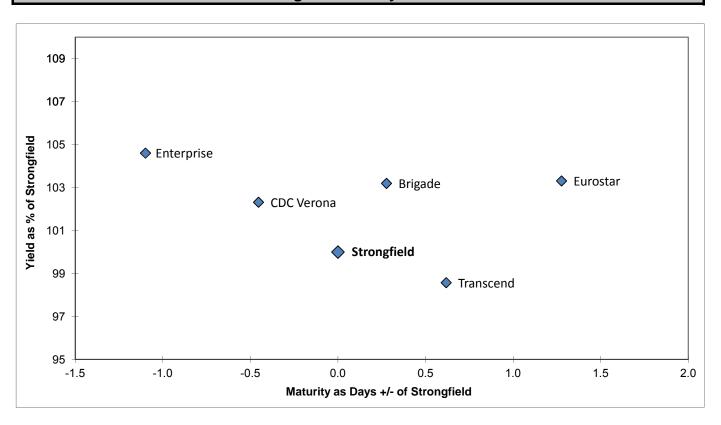
VG = very good, G = good, F = fair, P = poor, VP = very poor

XX = insufficient data

 Δ denotes materials not registered, very limited data available Numbers in square brackets [] is number of station years collected for protein

Overall average maturity for **Strongfield** is **111** days. Overall average protein for **Strongfield** is **14.2** %

Durum Wheat Regional Variety Performance 2009-2011



[■] Protected by Plant Breeders' Rights

Barley

Six Row	Barley							Yield	as % c	of AC	Metcali	fe	
			Dawson (Creek			F	ort St. Jo	ohn		В.0	C. Peac	е
		2011	Yield	2006 -	2011	20)11 Y	/ield	2006-	2011	2011	2006-	2011
Variety	Type	bus /	% of	Avg.	Stn.	bus /		% of	Avg.	Stn.	Avg.	Avg.	Stn.
		acre	check	(%)	Yrs.	acre		check	(%)	Yrs.	(%)	(%)	Yrs.
AC Albright	Feed, General	105 d	83	91	[5]	148	d	100	86	[6]	92	89	[11]
AC Lacombe	Feed, General	152 al	121	103	[5]	187	а	126	102	[6]	124	103	[11]
AC Metcalfe	Malt	126 c	100	100	[5]	148	d	100	100	[6]	100	100	[11]
CDC Anderson*	Malt	140 al	oc 111	111	[1]	166	bc	112	112	[1]	112	112	[2]
CDC Mayfair	Malt	131 bo	104	102	[4]	163	С	110	95	[4]	107	99	[8]
Celebration	Malt	126 c	100	103	[2]	151	d	102	96	[2]	101	100	[4]
Chigwell	Feed	148 al	118	104	[4]	176	ab	118	104	[4]	118	104	[8]
Muskwa*	Feed, General	145 al	oc 115	115	[1]	169	bc	114	114	[1]	115	115	[2]
Stellar-ND	Malt	135 al	oc 107	100	[4]	150	d	101	84	[5]	104	92	[9]
Sundre***	Feed	156 a	124	102	[5]	184	а	124	111	[6]	124	106	[11]
Trochu	Feed, General	155 a	124	109	[5]	182	а	123	101	[6]	123	105	[11]
Vivar**	Feed	153 al	121	105	[5]	181	а	122	103	[6]	122	104	[11]
LSD (P=.05) = CV value (%) =		14.26 7.09				9.37 3.88							

Two Row	Barley								Yield	as % c	of AC	Metcal	fe	
			Daw	son Cre	ek			Fo	rt St. Johr	ı		В.0	C. Peac	е
		20)11 Y	ield	2006 -	2011	2	011 \	rield	2006-	2011	2011	2006-	2011
Variety	Type	bus /		% of	Avg.	Stn.	bus /		% of	Avg.	Stn.	Avg.	Avg.	Stn.
		acre		check	(%)	Yrs.	acre		check	(%)	Yrs.	(%)	(%)	Yrs.
AC Metcalfe	Malt	132	de	100	100	[6]	153	a-f	100	100	[6]	100	100	[12]
Bentley	Malt	134	de	102	102	[4]	150	b-f	98	100	[4]	100	101	[8]
CDC Austenson	Feed	152	a-d	115	115	[4]	166	ab	109	106	[4]	112	110	[8]
CDC Carter ¶	Feed	110	de	104	104	[3]	121	b-f	99	98	[3]	101	101	[6]
CDC Coalition	Feed, General	144	b-e	109	109	[5]	166	ab	109	104	[5]	109	107	[10]
CDC Cowboy	Feed, Forage	142	cde	107	107	[5]	148	c-f	97	91	[5]	102	99	[10]
CDC ExPlus ¶	Malt	99	е	94	94	[2]	110	f	90	85	[2]	92	89	[4]
CDC Kindersley	Malt	137	de	104	104	[2]	150	b-f	98	98	[2]	101	101	[4]
CDC Meredith	Malt	162	ab	123	123	[4]	170	а	112	107	[4]	117	115	[8]
CDC PolarStar*	Malt	134	de	101	101	[1]	139	ef	91	91	[1]	96	96	[2]
CDC Reserve	Malt	135	de	103	103	[4]	151	b-f	99	103	[4]	101	103	[8]
Cerveza	Malt	141	cde	107	107	[3]	158	a-d	104	106	[3]	105	106	[6]
Champion	Feed, General	140	cde	106	106	[6]	144	def	95	104	[6]	100	105	[12]
CONLON	Feed, General	134	de	101	101	[6]	147	c-f	97	85	[6]	99	93	[12]
FB205* ∆	Feed, Forage	136	de	103	103	[1]	153	a-f	100	100	[1]	102	102	[2]
Gadsby	Feed, General	159	abc	120	120	[2]	168	ab	110	107	[2]	115	114	[4]
HB08304* ∆ ¶	Malt	107	de	101	101	[1]	117	c-f	96	96	[1]	99	99	[2]
Major	Malt	146	bcd	110	110	[3]	164	abc	107	99	[3]	109	105	[6]
Merit 57	Malt	166	а	125	125	[5]	170	а	111	107	[5]	118	116	[10]
Newdale	Malt	142	cde	107	107	[6]	155	а-е	102	104	[6]	104	106	[12]
Norman	Malt	131	de	99	99	[3]	139	ef	91	88	[3]	95	94	[6]
Ponoka	Feed, General	148	bcd	112	112	[6]	160	a-d	105	107	[6]	108	109	[12]
TR07728 ∆	Feed	150	a-d	114	114	[3]	168	ab	110	103	[3]	112	109	[6]
XENA	Feed, General	151	a-d	114	114	[6]	169	а	111	96	[6]	112	105	[12]
LSD (P=.05) = CV value (%) =		11.81 5.87					10.50							

AC Metcalfe - check variety for 2 row AC Metcalfe - check variety for 6 row

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

* first year tested, very limited data available

** semi-dwarf type

*** smooth-awned type

 \P denotes hulless seed types (bu/ac adjusted for hulless) Δ denotes materials not registered, very limited data available

Feed Barle	y									,	∕ar	iety	Descriptions
			B.C. Pe	ace Ave	rages		A	Alberta	Agdex	100/	'32 ir	nfo	
				6-2011				Res	sistanc	e to			
		Days to		Bushel	Ker	nel	g			\ot		FHB Tolerance	
		Maturity	Height	Weight	Prote	in %	Lodging	Loose Smut	False Smut	Root Rot	ald	B erar	
Variety	Туре	+/- check	cm	lbs/bu	+/- cl	neck	۲º	S	Fa	8	Sc	표	Distributor
			Eligible	for Gene	ral Pur	pose G	rades (Only					
AC Albright	6 row	-7.6	77	52	1	[12]	XX	Р	Р	Р	F	XX	SeCan
 AC Lacombe 	6 row	-1.3	74	50	-1	[12]	G	Р	G	Р	Р	VP	SeCan
 CDC Austenson 	2 row	5.4	69	55	0	[8]	G	VP	VG	F	VP	F	SeCan
 CDC Coalition 	2 row	4.5	69	55	0	[10]	G	VG	VG	F	VΡ	F	Canterra Seeds
CDC Cowboy	2 row	4.9	91	55	1	[10]	F	Р	G	F	Ρ	G	SeCan
■ Champion	2 row	3.2	70	55	-1	[12]	G	VP	VG	XX	VΡ	F	Viterra
■ Chigwell	6 row	3.9	72	52	0	[8]	G	Р	G	Р	G	VP	SeCan
CONLON	2 row	-4.2	71	55	0	[12]	G	F	F	G	VP	G	Seed Depot Corp.
FB205* ∆	2 row	18.2	129	58	0	[2]	XX	XX	XX	XX	XX	XX	U of S
■ Gadsby	2 row	9.8	90	56	0	[4]	F	VG	VG	F	VG	F	SeCan
■ Muskwa*	6 row	15.1	103	55	-3	[2]	XX	XX	XX	XX	XX	XX	SeedNet
Ponoka	2 row	5.9	71	55	0	[12]	G	VG	VG	F	G	Р	SeCan
■ Sundre***	6 row	4.7	81	54	-1	[12]	G	Р	VG	Р	VG	VP	Mastin Seeds, AB
■ TR07728 ∆	2 row	4.6	77	56	0	[6]	XX	Р	VG	G	Ρ	F	Viterra
■ Trochu	6 row	-4.0	72	52	-1	[12]	G	Р	G	G	F	F	SeCan
■ XENA	2 row	2.0	70	55	0	[12]	G	Р	Р	G	VP	G	Viterra
				Semi-c	lwarf	varietie	S						
■ Vivar**	6 row	-1.0	70	51	-1	[12]	VG	F	VG	G	F	VP	SeCan
				Hulle	ess va	rieties							
■ CDC Carter ¶	2 row	1.5	75	63	0	[6]	VG	VG	VG	VP	Р	F	SeCan

	Malt Barle	y									1	/ar	iety	Descriptions
				B.C. Pe	ace Aver	ages		A	Alberta	Agdex	100/	32 in	fo	
				2006	6-2011				Res	sistance	e to			
			Days to		Bushel	Ker	nel	g			\ot		JCe	
			Maturity	Height	Weight	Prote	in %	Lodging	Loose	False Smut	Root Rot	Scald	g a	
	Variety	Туре	+/- check	cm	lbs/bu	+/- cl	neck	Loc	Loose Smut	False Smut	Ro	SS	FHB Tolerance	Distributor
L	AC Metcalfe	2 row	0.0	72	55	0	[24]	G	VG	F	F	VP	F	SeCan
	Bentley	2 row	0.9	73	53	0	[8]	G	Р	G	G	VP	Р	Canterra Seeds
-	CDC Anderson*	6 row	16.3	113	53	-2	[2]	XX	XX	XX	XX	XX	XX	SeCan
•	CDC ExPlus ¶	2 row	3.3	87	63	-1	[4]	VG	Р	Ρ	VG	VG	G	U of S
	CDC Kindersley	2 row	2.9	86	56	0	[4]	G	VP	VG	F	VP	F	SeCan
	CDC Mayfair	6 row	-3.8	69	51	0	[8]	G	VP	G	F	VP	Ρ	Canterra Seeds
•	CDC Meredith	2 row	3.9	68	54	-1	[8]	G	VG	G	G	VP	F	SeCan
•	CDC PolarStar*	2 row	11.1	118	57	-1	[2]	XX	XX	XX	XX	XX	XX	Canterra Seeds
-	CDC Reserve	2 row	-2.2	71	54	0	[8]	G	VP	Р	F	Р	Р	SeCan
•	Celebration	6 row	1.6	90	53	0	[4]	VG	VG	VG	Р	VP	Р	Canterra Seeds
-	Cerveza	2 row	3.6	77	54	0	[6]	G	VG	VG	F	VP	F	Mastin Seeds, AB
	HB08304* ∆ ¶	2 row	15.2	121	65	-2	[2]	XX		XX		XX	XX	U of S
•	Major	2 row	3.1	74	54	0	[6]	G	VG	G	F	Р	F	Viterra
•	Merit 57	2 row	5.4	72	55	-1	[10]	F	Р	VP	F	Р	G	Canterra Seeds
	Newdale	2 row	0.5	70	54	0	[12]	G	VP	G	G	Р	F	FP Genetics
	Norman	2 row	-2.2	67	54	1	[6]	G	VP	VP	Р	VP	G	FP Genetics
	Stellar-ND	6 row	-5.0	76	51	0	[10]	VG	G	G	F	Р	F	Canterra Seeds

^{*} first year tested, very limited data available

VG= very good, G = good, F = fair, P = poor, VP = very poor

XX = insufficient data

Overall aversge maturity for AC Metcalfe is 93 days

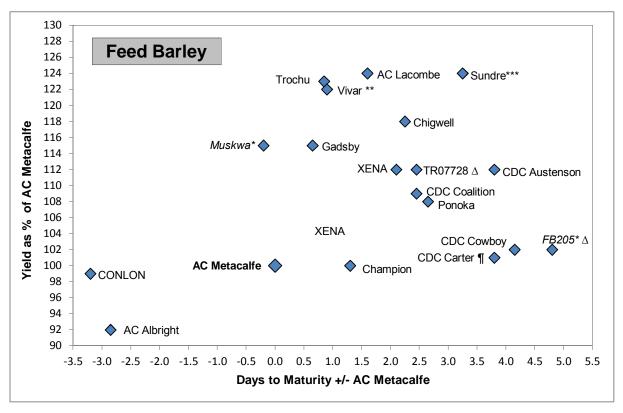
Overall average protein for AC Metcalfe is 13.7%

Numbers in square brackets [] is number of station years collected for protein ** semi-dwarf type *** smooth-awned type

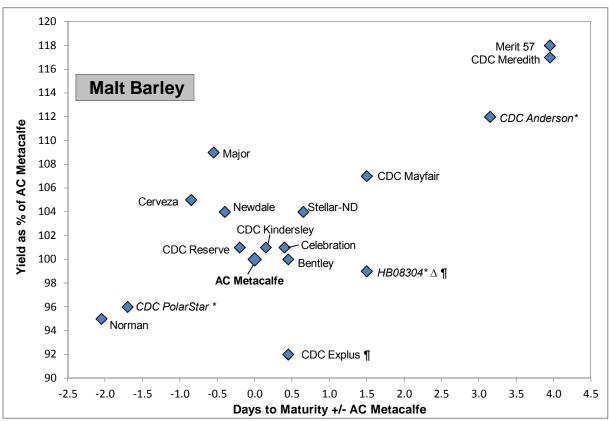
 $[\]P \ \ \text{denotes hulless seed types}$

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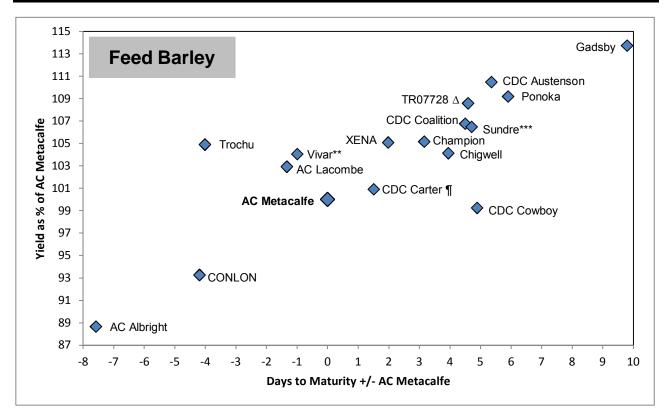
 $[\]Delta\,\,$ denotes materials not registered, very limited data available



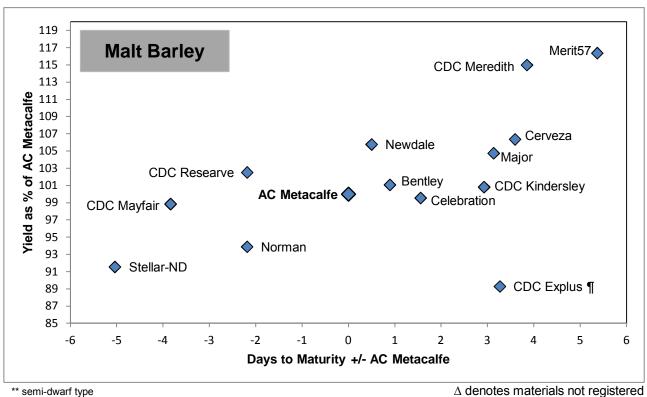
Average maturity for AC Metcalfe is **106** days in **2011** (both graphs)



* first year tested materials



Average maturity for AC Metcalfe is 93 days (both graphs)



*** smooth-awned type

 Δ denotes materials not registered ¶ denoted hulless seed types (bu/ac adjusted for hulless)

OAT

Oat is 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". The exception to this "hairy-hulless" issue is the variety *Gehl*, included for the first time this season, which is a "*low pubescence* hulless" oat aimed at a replacement for rice actually, hence the marketing slogan "prairie rice" for it. A potential contracted market in the Peace River area is a real possibility if agronomics work out for *Gehl*. 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 ratio in mind while comparing hulless to hulled, however currently (in this report) only the "*low pubescence*" hulless oat *Gehl* is being tested. (See earlier reports for more information on more "traditional hulless" types).

Oat							Yield	as % d	of CD	C Danc	er	
		D	awson C	Creek		F	ort St. Jo	ohn		В.С	C. Peac	е
	•	2011 Y	ield	2006-	2011	2011 Y	ïeld	2006-	2011	2011	2006-	2011
Variety	Colour	bus / acre	% of check	Avg. (%)	Stn. Yrs.	bus / acre	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
AC Mustang	White	179 a	112	115	[6]	240 ab	120	117	[6]	116	116	[12]
Bradley	White	127 e	80	89	[3]	217 cd	108	106	[3]	94	98	[6]
CDC Big Brown	Brown	161 abc	101	96	[2]	227 bc	113	110	[2]	107	103	[4]
CDC Dancer	White	159 abc	100	100	[6]	200 d	100	100	[6]	100	100	[12]
CDC Minstrel	White	145 cde	91	94	[5]	230 abc	115	103	[5]	103	98	[10]
CDC Seabiscuit*	Yellow	136 de	86	86	[1]	216 cd	108	108	[1]	97	97	[2]
CDC SO-I	Tan/Brown	167 abc	105	94	[2]	231 abc	115	108	[2]	110	101	[4]
Gehl*	White	43 f	43	43	[1]	65 e	51	51	[1]	47	47	[2]
Lu	Yellow	155 bcd	98	98	[6]	231 abc	115	99	[6]	106	98	[12]
Stride*	White	152 cd	95	95	[1]	212 cd	106	106	[1]	101	101	[2]
Triactor	White	177 ab	111	114	[5]	252 a	126	110	[5]	118	112	[10]
LSD (P=.05	5) =	15.89				15.67						
CV value (%	o) =	7.44				5.06						

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

* first year tested, very limited data available

 $\Delta\,$ denotes materials not registered, very limited data available

* Gehl is a "low pubescence hulless" oat intended for the whole grain oat market (see comment above chart)



Health Benefits Of Oat

Oats are mainly used for livestock feed especially horses and cows and only a small percentage of oat has been traditionally used for human consumption. However, oat are a great source of fibre which consists of more than half as soluble fibres. Oat is high in protein and mineral contents included calcium, iron, magnesium, zinc, copper, manganese, thiamin, folacin, and vitamin E. They are higher in these components than any other whole grain, such as wheat, barley, corn or rice. Rich in Vitamin B1 they can help maintain carbohydrate metabolism. Many scientific researchers have proven that eating oatmeal, oat bran and whole oat products improves both blood pressure and cholesterol levels and furthermore, it also reduces the risk of heart disease, cancer and diabetes. Thus, oat is a significant contributor to the good health of not only livestock but also to good human health as well.

Oat							Variety Descriptions
		BC Peace 2006 -		<u>es</u>		rta Agde ance to:	x 100/32 info
Variety	Туре	Maturity as days +/- check	Height cm	Bushel Weight lbs/bu	Lodging	Smuts	Distributor
 AC Mustang Bradley CDC Big Brown CDC Dancer CDC Minstrel CDC Seabiscuit* CDC SO-I Gehl* ¶ Lu Stride* 	Feed/forage Milling Milling Milling Milling Milling Feed General Purpose Feed Milling	3.0 2.0 3.5 0.0 3.2 7.9 -1.3 3.4 -2.4 5.4	87 84 94 82 79 110 90 114 78 119	43 40 43 42 42 42 40 52 41 45	G VG G VG XX XX XX G XX	VG XX	Mastin Seeds SeCan SeCan FP Genetics FP Genetics Canterra Seeds T & L Seeds Wedge Farms SeCan AAFC-Lacombe
■ Triactor	Milling/Feed	2.6	81	40	G	VG	Canterra Seeds Seeds

CDC Dancer - check variety

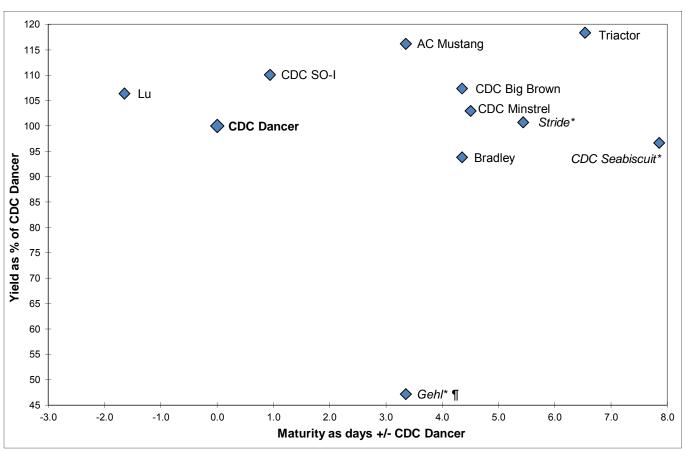
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VG = very good, G = good, F = fair, P = Poor, VP = very poor XX = insufficient data

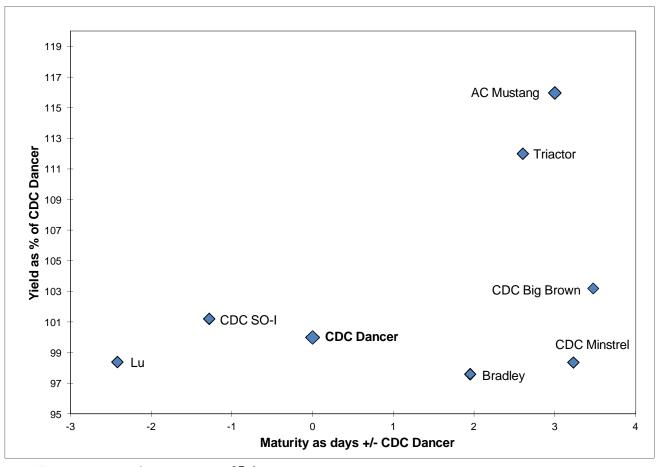
* first year tested, very limited data available

 Δ denotes materials not registered, very limited data available \P denotes low pubescence hulless

Oat Regional Variety Performance 2011



Overall average maturity for CDC Dancer is 101 days for 2011



Overall average maturity for CDC Dancer is 95 days

Oat for Feed

Oats are often sown to provide fodder in the form of silage or greenfeed. Oats will yield more silage or greenfeed per unit area than any other cereal crop. If managed properly, it can provide 3-4.5 tons of dry matter per acre, or more, of high quality feed containing up to 10 percent protein¹. Many years of comparing yields of oats with barley have shown oats to be superior in the Black and Grey Wooded soil zones¹. Although the percent protein level in barley is higher than in oats, the total amount of protein produced on a given area is higher with oats than with barley¹. Oats have about 22-26 percent hull whereas barley averages about 12-14 per cent hull on a weight basis¹. 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 grain¹. We do not currently evaluate oat varieties for forage yield in these tests.

Forage Oat

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 leafiness². Having said that however, such work has not likely included the newer lines of forage oats that are entering the market place now. These new "forage only" lines, such as *CDC Baler* and *Murphy*, have usually been much larger plants in our tests than their traditional counterparts developed for seed quality, which should translate to more biomass to be available for forage production. Note however, that traditionally our oat tests do not lodge and so it is unclear as to whether larger plants are going to be a concern for early lodging in a large-scale forage production practice in our area. Lodging data here is from Alberta Agdex 100/32.

Other Comments

On heavier soils and in the more moist areas, lodging resistance should be considered, but again, traditionally lodging has not been a concern in our BC Peace oat trials, and as mentioned above, lodging data provided here is from Alberta Agdex 100/32. The variation in straw feed quality between oat varieties is insignificant and should not be used as a variety selection criterion³. The average feed values are: protein 4%, fibre 49%, calcium 0.27%, and phosphorus 0.08%³.

Source^{1,2,3}: Alberta Agriculture, Food, and Rural Development website www.agric.gov.ab.ca

SPRING TRITICALE

Triticale is a genetic cross (not a hybrid) developed by crossing wheat (*Triticum turgidum* or *Triticum aestivum*) with rye (*Secale cereal*). Most varieties of spring triticale currently available are approximately 10 days or more later maturing than CWRS wheat, and as such they should not be grown in the B.C. Peace River region for grain production. However, a few varieties are proving to be earlier than traditional spring triticale varieties, and perhaps as breeding continues earlier lines may come along that can be grown here for grain with a consistant and early enough maturity. Their high grain yields are "attention grabbers", and so it is worth watching their development, especially as triticale seems to hold a lot of potential for ethanol production in the Peace River region if breeding efforts could produce earlier maturing lines. Drought tolerance is the primary advantage that spring triticales have over other spring cereal crops. Spring triticales are also a valuable alternative or compliment to barley & oat as forage feed, but current triticale lines do tend to have low resistance to Ergot, likely due to late maturity. This may become less of a concern as earlier lines are bred. It is for these reasons, especially its potential use as a high volume ethanol feedstock, that data is included in this report.

Spring Tr	riticale									Yield	as %	of Prong	horn	
				Dawson C	reek				Fort St. Jo	ohn		В.	C. Peace	
	•	2	011 \	Yield	2006-2	2011	20)11 Y	rield	2006-	2011	2011	2006-2	011
Variety	•	bus /		% of	Avg.	Stn.	bus /		% of	Avg.	Stn.	Avg.	Avg.	Stn.
		acre		check	(%)	Yrs.	acre		check	(%)	Yrs.	(%)	(%)	Yrs.
AC Alta		158	е	92	97	[5]	175	С	95	105	[5]	93	101	[10]
AC Ultima		185	ab	107	107	[6]	184	b	99	93	[6]	103	100	[12]
Brevis*		192	а	111	111	[1]	193	а	105	105	[1]	108	108	[2]
Bumper		164	de	95	102	[3]	171	С	93	100	[3]	94	101	[6]
Pronghorn		173	bcd	100	100	[6]	185	b	100	100	[6]	100	100	[12]
Sunray		174	bcd	100	97	[2]	185	b	100	103	[2]	100	100	[4]
Taza		169	cde	98	99	[2]	179	bc	97	97	[2]	97	98	[4]
Tyndal		177	bc	103	116	[6]	178	bc	96	100	[6]	99	108	[12]
	LSD (P=.05) =	9.49	-				5.88	-						
	CV value (%) =	3.71					2.21							

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

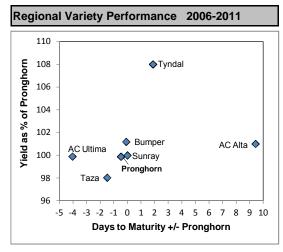
* first year tested, very limited data available Δ denotes materials not registered, very limited data available

Pronghorn - check variety

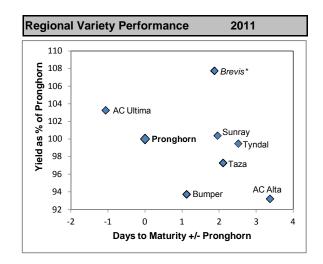
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Spring Tritica	ale						Varie	ty D	esc	riptions
						Alberta /	Agdex 1	00/32	2	
						Resi	stance t	:0:		
	Maturity as days +/- check	Height (cm)	Bushel Weight (lbs/bus)	TKW (g / 1000)	Lodging	Loose Smut	Common Bunt	Sprouting	FHB	Distributor
AC Alta	9.4	81	55	51						Progressive Seeds
AC Ultima	-4.0	85	58	45	G	VG	VG	F	F	FP Genetics
Brevis*	1.9	110	63	51	XX	XX	XX	XX	XX	Wagon Wheel Seed Corp.
■ Bumper	-0.1	82	60	45	VG	XX	VG	F	Ρ	SeCan
Pronghorn	0.0	87	57	44	G	VG	VG	F	G	Progressive Seeds
Sunray	-0.5	93	58	45	VG	VG	VG	F	VP	SeedNet
■ Taza	-1.5	103	58	46	XX	XX	VG	XX	VP	Solick Seeds
■ Tyndal	1.9	87	58	44	G	VG	VG	Р	Р	SeCan

VG= very good, G = good, F = fair, P = poor, VP = very poor; XX = insufficient data



Average long-term maturity for Pronghorn is 111 days

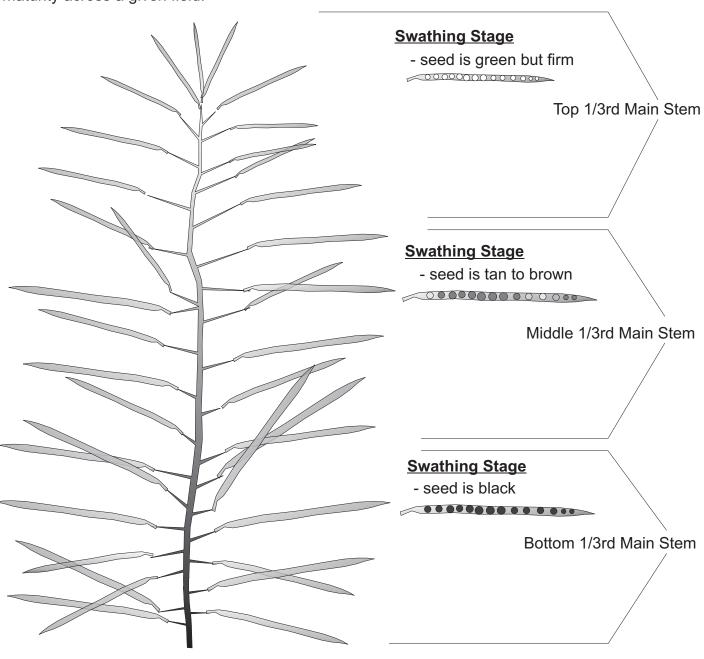


Average maturity for Pronghorn is 121 days for 2011

Definition of Canola Maturity Used In This Report

Please check with the *Canola Council of Canada* for complete definition of "swathing maturity". It is this "ready for swathing" time period that is used here to describe "maturity".

It is very important to split pods and check the seed inside as outer pod colour does not reflect the true maturity of the plant. Often the outer pod colour can still be green while seed inside has turned to black. Other times the pod colour could be pale yellow while green seed is within. One field inspection is not enough, one must visit a particular field several times to catch a progression in maturity so as not to miss the safe swathing period. Cool wet weather periods can slow or even temporarily halt the progression of maturity, especially prior to swathing. Several portions of the same field per variety must be checked as well because often minor field variations can change maturity across a given field.



Crop Pest Status in the BC Peace Region

Continuing Good News from 2011 is that clubroot of canola has NOT been found in the BC Peace. Soil samples have been examined using the sensitive PCR test (for DNA) at the BC Min. of Agriculture Plant Diagnostic lab.



There is no indication that BC canola fields have been contaminated. In spite of progress in plant breeding of a variety with some resistance to the disease, it is still far better to not have the fungus in the soil in the region. Clubroot is a canola disease that could seriously reduce the ability of BC Peace region farms to grow the crop. The distribution of infested fields continues to expand from the Edmonton area. The map of county status as of Nov 2011can be seen at the following link http://www1.agric.gov.ab.ca/\$department/deptdocs.nsf/all/prm13443) but clubroot could easily be transferred from there to here, with a little bit of soil. It may be a good idea for you as a landowner having energy or construction equipment visiting (perhaps for pipeline work), to get an agreement that the equipment be cleaned prior to it coming on to your property. Check out the problem on the Internet: Alberta Clubroot Management Plan http://www1.agric.gov.ab.ca/\$Department/deptdocs.nsf/all/agdex11519 Also see links at the bottom of that document, to: a disease fact sheet, Best Management Practices and an equipment cleaning protocol developed to disinfect machinery and equipment to prevent the spread of clubroot.

Another big threat (also not a bug) to BC Peace agriculture is a group of weed species that until recently were absent, and will still not often be seen: the hawkweeds. They have flowers and seeds like dandelions, but they are also perennial and displace other vegetation by creeping along the soil surface. Orange hawkweed is most distinctive, but there are also yellow species that at a glance may look like relatively harmless Hawksbeard. Get more information at http://www.invasiveplantcouncilbc.ca/publications/TIPS/Invasive_Hawkweeds_TIPS.pdf or ask for a poster at the Agriculture office. The NorthEast Invasive Plant Committee NEIPC with your help is working hard to keep these and other species out of the region.

The BC Peace region may not usually be an especially bad place for insect damage to canola crops, but since insecticide treatments can make the difference between a positive and a negative financial margin, and untreated insect pests in a particular year can be even more costly, it is worth knowing the players and the risks. Further information is available from agriculture service suppliers (id. booklets), and on websites such as Canola Council's "canola watch" http://www.canola-council.org/canola_watch.aspx For brief discussions of five insect pest species that have caused significant damage in the past: see "Pest" article in this spot in the 2008 BCGPA Variety Trials book, or the web version at http://www.bcgrain.com/pdf/2008/2008%20Book%20-%20canola.pdf page 22.

Contact the BC Ministry of Agriculture office if you want more information about monitoring for or controlling these pests, or for other available programs like farm business planning. Kerry.clark@gov.bc.ca Agrologist

CANOLA

Argentine Car	nola					Yiel	d as	% of 45l	1 21	
_		Daws	son Cr	eek	Fo	ort St. Jo	hn	В.	C. Pead	е
		2011	2006-	2011	201	1 2006	-2011	2011	2006-	2011
		% of	Avg.	Stn.	% (of Avg.	Stn.	Avg.	Avg.	Stn.
Variety	Type	check	(%)	Yrs.	ched	k (%)	Yrs.	(%)	(%)	Yrs.
1950*	Roundup Ready®	97	97	[1]	91	91	[1]	94	94	[2]
32-75	Roundup Ready®	81	82	[3]	72	87	[3]	77	85	[6]
43A56	Roundup Ready®	92	88	[3]	76	82	[3]	84	85	[6]
43E01	Roundup Ready®	94	97	[2]	98	96	[2]	96	96	[4]
45H21	Roundup Ready®	100	100	[11]	10	100	[12]	100	100	[23]
45H28	Roundup Ready®	108	106	[2]	109	109	[2]	108	108	[4]
45H29***	Roundup Ready®	116	114	[2]	110) 111	[2]	113	113	[4]
45H31*	Roundup Ready®	107	107	[1]	11	l 111	[1]	109	109	[2]
<i>4</i> 5S51*	Roundup Ready®	105	105	[1]	10	3 103	[1]	104	104	[2]
<i>4</i> 5S52*	Roundup Ready®	109	109	[1]	109	109	[1]	109	109	[2]
6040 RR*	Roundup Ready®	99	99	[1]	91	91	[1]	95	95	[2]
73-35 RR*	Roundup Ready®	88	88	[1]	88	88	[1]	88	88	[2]
73-55 RR*	Roundup Ready®	95	95	[1]	91	91	[1]	93	93	[2]
Café	Roundup Ready®	87	91	[4]	75	86	[4]	81	89	[8]
D3151	Roundup Ready®	96	101	[2]	89	97	[3]	92	99	[5]
D3153*	Roundup Ready®	101	101	[1]	108	3 108	[1]	104	104	[2]
Fusion*	Roundup Ready®	100	100	[1]	10	101	[1]	101	101	[2]
VR 9350 G	Roundup Ready®	90	96	[2]	98	95	[2]	94	96	[4]
VR 9553 G	Roundup Ready®	98	103	[2]	97	103	[2]	98	103	[4]
VT 500 G*	Roundup Ready®	96	96	[1]	98	98	[1]	97	97	[2]
VT Remarkable*	Roundup Ready®	105	105	[1]	10	3 103	[1]	104	104	[2]
5020	LibertyLink®	109	103	[9]	10	102	[9]	105	103	[18]
8440	LibertyLink®	127	109	[3]	109	9 111	[3]	118	110	[6]
L130*	LibertyLink®	127	127	[1]	10	7 107	[1]	117	117	[2]
L150*	LibertyLink®	132	132	[1]	11	7 117	[1]	124	124	[2]
46A65	Conventional	78	90	[6]	69	82	[6]	73	86	[12]
Peace	Conventional	75	81	[4]	71	69	[4]	73	75	[8]
5525 CL	Clearfield®	101	102	[3]	94	98	[3]	97	100	[6]
5535 CL*	Clearfield®	96	96	[1]	97	97	[1]	96	96	[2]

45H21 - check variety

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

 Δ = not currently registered
** specialty oil

*** Club-root Resistance

Roundup Ready® is a registered trademark of Monsanto Canada Inc. LibertyLink® is a registered trademark of Bayer CropScience Clearfield® is a registered trademark of BASF

Note: "System Varieties" (Clearfield®, Roundup Ready®, or LibertyLink®) are grown together in with "conventional" Argentine varieties (actually as two napus trials per site with a common check) and thus conventional herbicides are used for weed control. (See page 6 for herbicides used). However, combining the two trials to produce the chart above means statistical analysis cannot be shown for the entire group. Coefficient of Variance (CV) values of the napus trials for 2011 were as follows: DC = 10.03, 4.99 FSJ = 9.85, 7.62

Argentine C	anola				V	ariety Descriptions
Variety	Туре	Herbicide Tolerance	Da Swa	Peace Avg. yys to athing¹ - check 2006-2011	Blackleg Rating (Various info.)	Distributor
1950* 32-75 ■ 32-75 ■ 43A56 43E01 45H21 45H28 45H29 *** 45S51* 45S51* 45S52* 6040 RR* 73-35 RR* 73-55 RR* ■ Café D3151 D3153* Fusion* VR 9350 G VR 9553 G VT 500 G* VT Remarkable* 5020 8440 L130* L150* ■ 46A65	HYB OP OP HYB	Roundup Ready® LibertyLink® LibertyLink® LibertyLink® LibertyLink® LibertyLink®	0.5 -0.5 -1.8 -1.0 0.0 0.8 0.0 0.0 0.5 0.3 -0.5 -1.0 -0.3 1.0 0.5 -1.3 0.3 0.4 0.5 0.0 0.5	0.5 0.3 -1.9 -2.8 0.0 0.1 0.8 0.0 0.5 0.5 -0.5 -1.3 -0.1 1.0 0.5 -1.9 0.9 0.0 0.3 -0.2 0.7 0.0 0.5 2.4	MR KR	Canterra Seeds Monsanto Pioneer Hi-Bred BrettYoung Monsanto Monsanto SeCan Pioneer Hi-Bred Pioneer Hi-Bred Viterra Viterra Viterra Viterra Viterra Viterra Bayer Crop Science Bayer Crop Science Bayer Crop Science Pioneer Hi-Bred
■ Peace 5525 CL 5535 CL*	OP HYB HYB	conventional Clearfield® Clearfield®	-2.0 0.0 0.5	-2.8 3.3 0.5	MR R R	Viterra BrettYoung BrettYoung

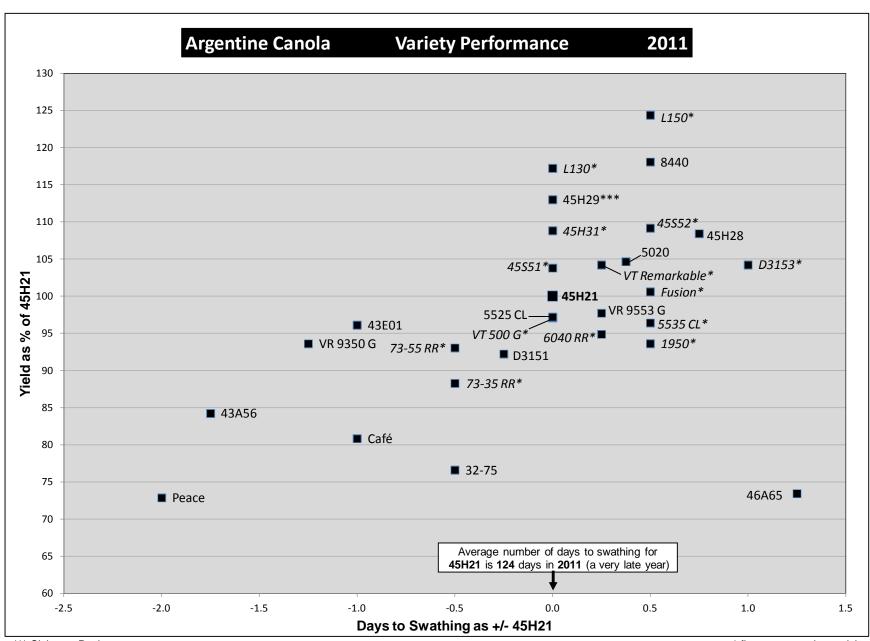
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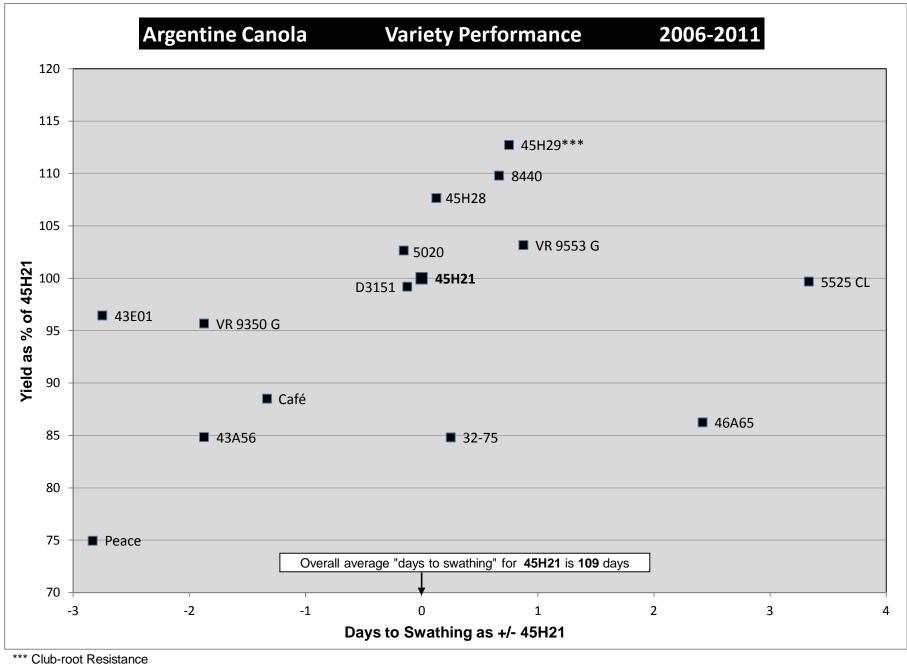
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Average 'days to swathing' for **45H21** is **124** days for **2011** Overall average 'days to swathing' for **45H21** is **109** days

R = Resistant, MR = Moderately Resistant, MS = Moderately Susceptible OP = open pollinated, SYN = synthetic, HYB = hybrid

^{*} caution, first year tested and/or very limited data.





CANOLA

Warning: data presented below is composed from two sites, one year only.

Please refer to www.CanolaPerformanceTrials.ca for further short-season information.

Canola	a Per	formance T	rial (CF	PT)		B.C. F	Peace	Sites	2011
			Dawson	Creek	Fort St.	. John	B.C.	Peace	
			201	1	201	11	201	1 Avg.	
		Herbicide	YIELD	Maturity	YIELD	Maturity	YIELD	Maturity	
Variety	Туре	Tolerance	bu/ac	Days to	bu/ac	Days to	bu/ac	Days to	Distributor
Clearfield® he	rbicede to	lerant system							
5525CL	HYB	Clearfield®	98 a-d	122.5	67 b-a	123.2	83	122.8	Brett Young
VR 9560 CL	HYB	Clearfield®	106 abc	122.3	72 abc	122.2	89	122.3	Pioneer Hi-Bred
Libortyl ink® h	orbicodo :	tolerant system							
5440	HYB	LibertyLink®	107 abc	123.0	73 ab	121.8	90	122.4	Bayer CropScience
5770	HYB	LibertyLink®	107 abc	124.7	73 ab	123.5	90	124.1	Bayer CropScience
L150	HYB	LibertyLink®	107 abc	124.2	76 a	123.3	92	123.8	Viterra
L130	HYB	LibertyLink®	109 ab	123.0	71 a-e	121.8	90	122.4	Viterra
L170S	HYB	LibertyLink®	97 a-d	124.0	60 fg	122.8	78	123.4	Bayer CropScience
L154	HYB	LibertyLink®	100 a-d	123.7	68 b-g	123.0	84	123.3	Bayer CropScience
6060 RR	•	ede tolerant system	110 -	100.7	60.5.5	104.0	91	100.0	Draft Values
1970	HYB HYB	Roundup Ready® Roundup Ready®	113 a 108 abc	123.7 123.8	69 a-e 67 b-a	124.2 123.7	87	123.9 123.8	Brett Young Canterra Seeds
v1040 **	НҮВ	Roundup Ready®	106 abc	123.6	68 a-f	123.7	86	123.6	
V1040 V12-1 **	HYB	Roundup Ready®	105 abc	124.0	72 a-d	123.5	88	124.2	Cargill Cargill
94H04	HYB	Roundup Ready®	95 bcd	123.8	72 a-u 59 g	123.7	77	123.6	FP Genetics
73-45 RR	HYB	Roundup Ready®	99 a-d	121.8	64 b-q	122.3	81	122.2	Monsanto
73-55 RR	HYB	Roundup Ready®	95 bcd	121.7	66 b-g	122.3	81	122.1	Monsanto
73-75 RR	HYB	Roundup Ready®	97 a-d	123.0	65 b-g	122.3	81	122.7	Monsanto
72-65 RR	HYB	Roundup Ready®	99 a-d	124.3	62 efg	124.0	81	124.2	Monsanto
Fusion	HYB	Roundup Ready®	92 cd	122.8	63 d-q	122.8	77	122.8	SeCan
VT 510 G	HYB	Roundup Ready®	91 cd	123.3	59 fg	122.5	75	122.9	Viterra
VR 9559 G	HYB	Roundup Ready®	105 abc	122.8	67 b-g	123.2	86	123.0	Pioneer Hi-Bred
73-15 RR	HYB	Roundup Ready®	87 d	122.0	63 c-g	121.7	75	121.8	Monsanto
'LSD (P=.05)	5	candap r.odayo	9.62		5.29	_ ' - '''	. 3	121.0	Monoanto
'Standard Deviation	on		6.80		3.74				
'CV	-		6.75		5.6				
-									

■ Protection by Plant Breeders' Rights

∆ not currently registered

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

Caution, one year data so very limited data

** specialty oil

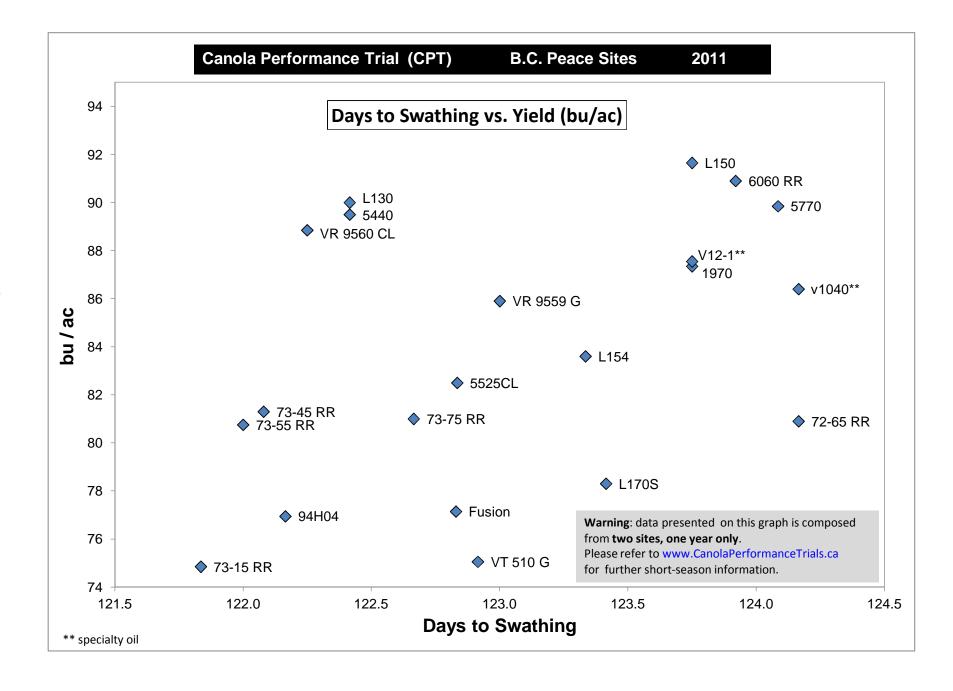
*** Club-root Resistance

The following description of the CPT trials provided by: seed.ab.ca, Winter 2011 publication.

Canola Performance Trials are coordinated by the Canola Council of Canada Note: The CPT system is not affiliated with provincial regional variety testing.

This canola variety table summarizes the performance of selected registered canola varieties available for planting in spring 2012. The post-registration Canola Performance Trial (CPT) testing in 2011 was designed to be more reflective of field practices. The appropriate herbicide products have been applied to the matching herbicide tolerant (HT) varieties in small plots, with no 'check' variety assigned. Individual location data for the small plot trials are available at www.Canola PerformanceTrials.ca, but the best performance indicator is to compare varieties over multiple sites. This also includes comparing performance of small plot trials with field scale trial results. The CPT information on-line provides both data sources which have been reviewed through a protocol and data audit process. This process assures that data was collected and trials conducted in a scientific manner and that comparisons are unbiased. With the changes in trial management and data source collection, data from 2011 is not considered comparable to previous trials.

Detailed notes on other agronomic attributes of varieties and trials management are at www.CanolaPerformanceTrials.ca

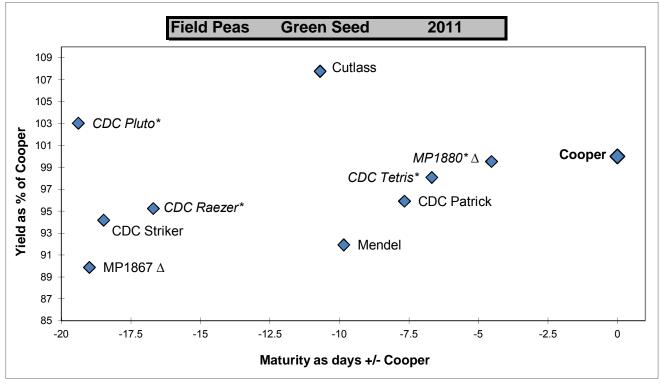


FIELD PEAS

Field Pea	Field Pea (Green Seed)								Yield as % of Cooper					
	**Designated	Da	awson C	reek			F	ort St. Jo	hn		B.C	. Peac	е	
	Powdery	2011 \	/ield	2006-2	2011	20)11 Y	'ield	2006-2	2011	2011	2006-	2011	
Variety	Mildew	bus /	% of	Avg.	Stn.	bus /		% of	Avg.	Stn.	Avg.	Avg.	Stn.	
	Resistant	acre	check	(%)	Yrs.	acre		check	(%)	Yrs.	(%)	(%)	Yrs.	
CDC Patrick	VG	103 b	95	96	[4]	97	ab	97	102	[4]	96	99	[8]	
CDC Pluto*	VG	118 a	109	109	[1]	96	ab	97	97	[1]	103	103	[2]	
CDC Raezer*	VG	108 ab	100	100	[1]	90	ab	91	91	[1]	95	95	[2]	
CDC Striker	VG	105 ab	97	84	[6]	91	ab	91	99	[6]	94	92	[12]	
CDC Tetris*	VG	110 ab	101	101	[1]	94	ab	95	95	[1]	98	98	[2]	
Cooper	VG	108 ab	100	100	[6]	100	ab	100	100	[6]	100	100	[12]	
Cutlass	VG	118 a	109	99	[4]	106	а	106	107	[4]	108	103	[8]	
Mendel	VG	102 b	95	91	[4]	89	b	89	94	[4]	92	93	[8]	
MP1867 Δ	VG	99 b	92	90	[2]	88	b	88	91	[2]	90	91	[4]	
MP1880* ∆	VG	113 ab	104	104	[1]	95	ab	95	95	[1]	100	99	[2]	
LSD (P=.05	5) =	8.64				10.08	-							
CV value (%	o) =	5.49				7.34								

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

Cooper - check variety



Overall average maturity for Cooper is 132 days for 2011

^{**}Powdery Mildew resistance **VG**=Very Good, **F**=Fair, **P**=Poor (data: Alberta Agdex 100/32)

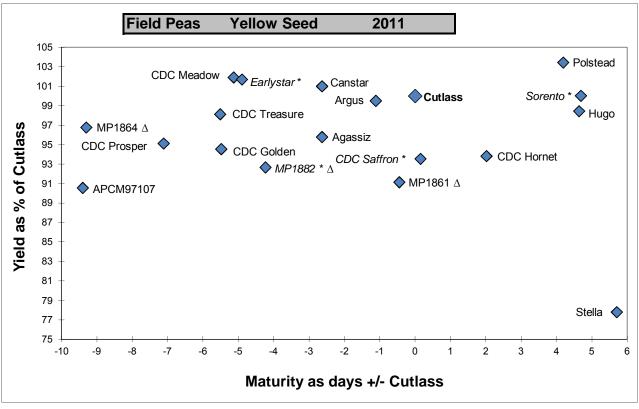
 $[\]Delta\,$ denotes materials not registered, very limited data available

^{*} first year tested, very limited data available

Field Pea	(Yellow	Sec	ed)						Yiel	d as '	% of	Cutlas	SS	
	**Designated		Da	wson Cı	reek				Fort St. Jo	hn		B.C	. Peac	е
	Powdery	20	11 Yi	eld	2006-2	2011	2	011	Yield	2006-2	2011	2011	2006-	2011
Variety	Mildew	bus /		% of	Avg.	Stn.	bus /		% of	Avg.	Stn.	Avg.	Avg.	Stn.
•	Resistant	acre		check	(%)	Yrs.	acre		check	(%)	Yrs.	(%)	(%)	Yrs.
Agassiz	VG	122	ab	94	105	[4]	107	а	98	103	[5]	96	104	[9]
APCM97107	VG	111	bc	85	94	[3]	106	а	96	102	[3]	91	98	[6]
Argus	VG	128	ab	98	100	[2]	111	а	101	118	[2]	100	109	[4]
Canstar	VG	126	ab	97	105	[5]	115	а	105	101	[6]	101	103	[11]
CDC Golden	VG	118	abc	91	95	[5]	108	а	98	97	[6]	95	96	[11]
CDC Hornet	VG	118	abc	90	102	[3]	107	а	97	104	[3]	94	103	[6]
CDC Meadow	VG	131	а	101	106	[5]	113	а	103	103	[6]	102	105	[11]
CDC Prosper	VG	126	ab	96	100	[3]	103	а	94	99	[4]	95	99	[7]
CDC Saffron*	VG	119	abc	91	91	[1]	105	а	96	96	[1]	94	94	[2]
CDC Treasure	VG	125	ab	96	99	[3]	110	а	101	102	[4]	98	100	[7]
Cutlass	VG	130	ab	100	100	[5]	110	а	100	100	[6]	100	100	[11]
Earlystar*	VG	132	а	102	102	[1]	112	а	102	102	[1]	102	102	[2]
Hugo	VG	127	ab	97	102	[3]	109	а	99	98	[4]	98	100	[7]
MP1861∆	VG	114	abc	87	86	[2]	104	а	95	95	[2]	91	91	[4]
MP1864 Δ	VG	122	ab	94	99	[2]	110	а	100	124	[2]	97	112	[4]
MP1882* ∆	VG	117	abc	90	90	[1]	105	а	95	95	[1]	93	93	[2]
Polstead	VG	131	а	101	104	[5]	117	а	106	105	[6]	103	105	[11]
Sorento*	VG	128	ab	98	98	[1]	112	а	102	102	[1]	100	100	[2]
Stella ∆	VG	103	С	79	65	[2]	85	b	77	95	[2]	78	80	[4]
LSD (P=.05 CV value (%	,	11.39 6.57					9.95 6.53							

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

Cutlass - check variety



Average maturity for Cutlass is 123 days for 2011

^{**}Powdery Mildew resistance: VG=Very Good, F=Fair, P=Poor (data: Alberta Agdex 100/32)

 $[\]Delta\,$ denotes materials not registered, very limited data available

^{*} first year tested, very limited data available

Field Peas					Variety Descriptions
	BC P	eace Aver	ages 2006-	2011	
	Maturity	Vine			•
	as days	Length	Lodging	1000 k	
Variety	+/- check	cm	1-9**	grams	Distributor
		<u>Yel</u>	low Seed		
■ Agassiz	-0.8	71	2	243	Canterra Seeds
APCM97107	-5.8	75	9	250	DL Seeds
■ Argus	-0.5	75	0	238	SeCan
■ Canstar	-1.0	70	2	263	Canseed (Canada) Ltd.
CDC Golden	-3.2	68	1	231	Sask Pulse Growers
CDC Hornet	2.1	70	1	234	Sask Pulse Growers
CDC Meadow	-2.4	74	2	223	Sask Pulse Growers
CDC Prosper	-3.7	63	1	160	Sask Pulse Growers
CDC Saffron*	0.2	95	0	287	Sask Pulse Growers
CDC Treasure	-3.2	74	1	227	Sask Pulse Growers
Cutlass	0.0	66	3	240	Sask Pulse Growers
■ Earlystar*	-4.9	114	0	240	Canterra Seeds
■ Hugo	2.4	51	2	241	FP Genetics
MP1861 Δ	-1.0	64	0	292	AAFC-Lacombe
MP1864 Δ	-4.5	78	0	229	Hadland Seed Farms
MP1882* Δ	-4.2	86	0	253	AAFC-Lacombe
Polstead	2.3	56	2	273	FP Genetics
■ Sorento*	4.7	93	0	260	FP Genetics
■ Stella ∆	4.8	85	0	247	Alliance Seeds Corp.
		<u>Gr</u>	een Seed		
CDC Patrick	-4.4	70	1	201	Sask Pulse Growers
CDC Pluto*	-19.4	101	0	188	Sask Pulse Growers
CDC Raezer*	-16.7	105	0	244	Sask Pulse Growers
CDC Striker	-10.6	67	1	245	Sask Pulse Growers
CDC Tetris*	-6.7	112	0	251	Sask Pulse Growers
■ Cooper	0.0	66	2	292	Canterra Seeds
Cutlass	-7.4	62	2	237	Sask Pulse Growers
Mendel	-5.2	75	1	244	FP Genetics
MP1867 ∆	-10.4	79	0	240	AAFC-Lacombe
MP1880* ∆	-4.5	80	0	294	AAFC-Lacombe

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 and 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.

Lodging data is becoming important criteria when selecting peas for our area, as peas still standing at harvest stand a better chance of escaping ecretia contamination from large wildlife, especially if harvested as direct-cut. Note that due to variability of lodging, numbers averaged tend to be lower than can occur in a given year.

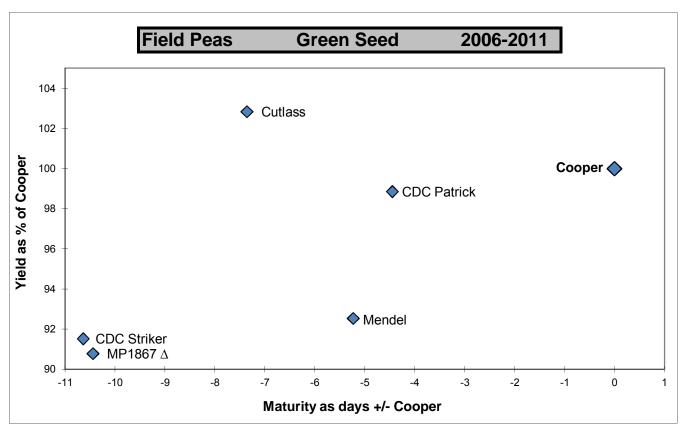
Overall average maturity for Cutlass is 100 days, and 107 days for Cooper

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 Δ denotes materials not registered, very limited data available

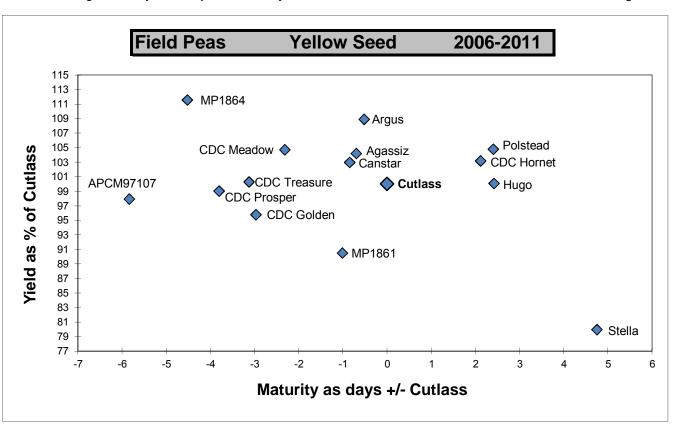
^{*} first year tested, very limited data available

^{** 1 - 9} scale; 1 = none, 9 = 100% affected



Overall average maturity for Cooper is 107 days for 2011

 Δ denotes materials not registered



Overall average maturity for Cutlass is 100 days for 2011

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, although the introduction of the new lines *Prairie Thunder* (notably so) and *Prairie Grande* has taken a lot of the risk out. Just the same, large acreage should be discouraged until further breeding programs have resulted in earlier maturing varieties. The B.C. Grain Producers Association continues to look into the development of earlier maturing varieties as well as frost-tolerant lines that can be planted earlier than traditionally. For this reason this information is being provided here. It has become apparent that it is **very important to plant flax as early as possible** (as advised by Dr. Paul Dribnenki, previous Viterra flax breeder). This seems to prevent flower abortion in heat and reduces reflowering in August. In the end this helps to delivers a more consistant and earlier maturation of the seed

Flax								Yield	as %	of N	orLin					
		Da	wson C	reek			For	t St. Jol	าท		B.C	. Peac	е	V	ariety l	Descriptions
	20	11 Y	ield	2006-	2011	20	011 Yie	eld	2006-2	2011	2011	2006-	2011	Maturity	Height	
Variety	bus / acre		% of Check	Avg. (%)	stn yrs	bus / acre		% of Check	Avg. (%)	stn yrs	Avg. (%)	Avg. (%)	stn yrs	days +/- check	(cm)	Distributor
■ CDC Bethune	43	ab	105	101	[5]	51	ab	110	95	[4]	107	98	[9]	4.6	55	SeCan
■ CDC Sanctuary	42	b	101	115	[3]	55	а	117	113	[2]	109	114	[5]	6.3	62	SeCan
Flanders	43	ab	106	99	[5]	54	а	114	98	[4]	110	98	[9]	6.5	52	SeCan
FP2270* ∆	47	а	113	113	[1]	54	а	115	115	[1]	114	114	[2]	9.0	74	FP Genetics
Hanley	40	b	96	94	[5]	50	abc	106	96	[4]	101	95	[9]	5.4	51	SeCan
Norlin	41	b	100	100	[5]	47	bcd	100	100	[4]	100	100	[9]	0.0	52	SeCan
■ Prairie Blue	40	b	98	105	[3]	48	bcd	103	102	[2]	100	103	[5]	5.8	61	SeCan
■ Prairie Grande	42	b	101	102	[5]	45	d	95	100	[4]	98.3	101	[9]	0.9	50	SeCan
■ Prairie Sapphire	35	С	86	87	[2]	46	cd	98	98	[1]	91.9	92	[3]	5.8	66	Alliance Seed
■ Prairie Thunder	43	ab	104	103	[5]	50	abc	106	107	[4]	105	105	[9]	-0.1	50	Canterra Seeds
LSD (P=.05) =	3.10	6				3.4	41	_								
CV value (%) =	5.2	3				4.7	72									

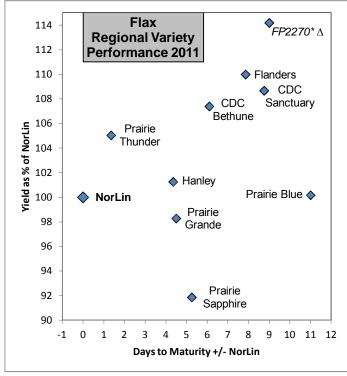
Means followed by the same letter do not significantly differ (P=.05, LSD)

NorLin - check variety

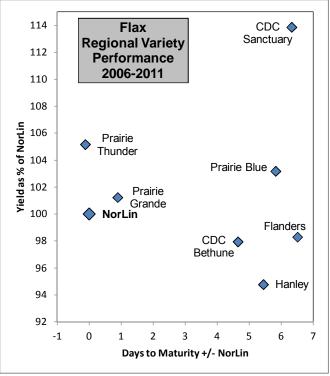
Note: No data included from 2004 & 2006 due to adverse harvest, drought, geese & deer damage.

- Protected by Plant Breeders' Rights
- $\Delta\,$ denotes materials not registered, very limited data available

* first year tested, very limited data available







Overall average maturity for NorLin is 112 days

Summary of 2011 Trials

Data used directly for the production of this report...

Regional Variety Trials	Site	Varieties	Replicates	Plots	Source
Regional 2 Row Barley	DC	24	4	96	Alex Fedko - AAFCDC Edmonton, AB *
Regional 6 Row Barley	DC	12	4	48	Alex Fedko - AAFCDC Edmonton, AB *
Regional Oats	DC	11	4	44	Alex Fedko - AAFCDC Edmonton, AB *
Regional CWRS Wheat (HRSW)	DC	30	4	120	Alex Fedko - AAFCDC Edmonton, AB *
Regional GP (General Purpose/CPS/SWS)	DC	12	4	48	Alex Fedko - AAFCDC Edmonton, AB *
Regional Durum Wheat	DC	7	4	28	Alex Fedko - AAFCDC Edmonton, AB *
Regional Triticale	DC	8	4	32	Alex Fedko - AAFCDC Edmonton, AB *
Prairie Wide Napus-CPT-NS1	DC	23	4	92	Alex Fedko - AAFCDC Edmonton, AB *
BCGPA Napus NS1 Comparison	DC	15	4	60	BCGPA Research Department **
BCGPA Napus NS2 Comparison	DC	16	4	64	BCGPA Research Department **
Regional Flax	DC	10	4	40	Alex Fedko - AAFCDC Edmonton, AB *
Regional Green Field Pea	DC	10	4	40	Alex Fedko - AAFCDC Edmonton, AB *
Regional Yellow Field Pea	DC	19	4	76	Alex Fedko - AAFCDC Edmonton, AB *
Regional 2 Row Barley	FSJ	24	4	96	Alex Fedko - AAFCDC Edmonton, AB *
Regional 6 Row Barley (& Hulless)	FSJ	12	4	48	Alex Fedko - AAFCDC Edmonton, AB *
Regional Oats	FSJ	11	4	44	Alex Fedko - AAFCDC Edmonton, AB *
Regional CWRS Wheat (HRSW)	FSJ	30	4	120	Alex Fedko - AAFCDC Edmonton, AB *
Regional GP (General Purpose/CPS/SWS)	FSJ	12	4	48	Alex Fedko - AAFCDC Edmonton, AB *
Regional Durum Wheat	FSJ	8	4	32	Alex Fedko - AAFCDC Edmonton, AB *
Regional Triticale	FSJ	7	4	28	Alex Fedko - AAFCDC Edmonton, AB *
Prairie Wide Napus-CPT-NS1	FSJ	23	4	92	Alex Fedko - AAFCDC Edmonton, AB *
BCGPA Napus NS1 Comparison	FSJ	15	4	60	BCGPA Research Department **
BCGPA Napus NS2 Comparison	FSJ	16	4	64	BCGPA Research Department **
Regional Flax	FSJ	10	4	40	Alex Fedko - AAFCDC Edmonton, AB *
Regional Green Field Pea	FSJ	10	4	40	Alex Fedko - AAFCDC Edmonton, AB *
Regional Yellow Field Pea	FSJ	19	4	76	Alex Fedko - AAFCDC Edmonton, AB *

^{*} some entries sourced by BCGPA directly

Data used for *plant breeding* and *variety registration* support, thus support for future new materials for future reports...

Variatal Davalanment	0:40	Variation	Doublectes		Cauraa
Varietal Development	Site	Varieties	Replicates	Plots	Source
Barley	1	1	1	ı	
Barley 2-Row Western Co-op	DC	30	3	90	Dr. Tom Zatorski - U of S Malt B Prgm
Barley 6-row Western Co-op	DC	21	3	63	Dr. Mario Therrien / Bill Legge - AAFC Brandon
B-S51 Barley Co-op - Silage (Jim Helm)	DC	25	3	75	Pat Justiw/J. Nyachiro - AAFCDC Lacombe
B-Y51 Barley Co-op - Gain (Jim Helm)	DC	25	3	75	Pat Justiw/J. Nyachiro - AAFCDC Lacombe
Viterra - 2-Row Barley Marketing	DC	14	3	42	Tim Ferguson - Viterra (Saskatoon)
Canola					
Ag Canada - Prelim/Public Rapa Co-op	DC	32	3	96	Dr. Kevin Falk, AAFC - Saskatoon
Ag Canada - Prelim/Public Rapa Co-op	FSJ	32	3	96	Dr. Kevin Falk, AAFC - Saskatoon
DL-Seed Napus Trial 301	DC	25	3	75	Dr. Kevin McCallum - DL Seeds, MB
DL-Seed Napus Trial 305	DC	25	3	75	Dr. Kevin McCallum - DL Seeds, MB
DL-Seed Napus Trial 900	DC	25	3	75	Dr. Kevin McCallum - DL Seeds, MB
PIONEER-Napus CCNSR-351 (early season)	DC	13	4	52	Jason Nordstrom, Pioneer Hi-Bred, Edmonton
PIONEER-Napus CCNSR-401 (Mid-Season)	DC	26	4	104	Jason Nordstrom, Pioneer Hi-Bred, Edmonton
WCC-Canola Council Napus NS1 Co-op	DC	25	3	75	Raymond Gadoua - Canola Council of Can.
WCC-Canola Council Napus NS2 Co-op	DC	25	3	75	Raymond Gadoua - Canola Council of Can.
WCC-Canola Council Napus NS3 Co-op	DC	25	3	75	Raymond Gadoua - Canola Council of Can.
Camelina					
Ag Canada - Camelina Biodiesel Feedstock	DC	10	4	40	Dr. Kevin Falk/Ryan Vetter, AAFC-Saskatoon
Ag Canada - Camelina Biodiesel Feedstock	FSJ	10	4	40	Dr. Kevin Falk/Ryan Vetter, AAFC-Saskatoon
Dry Bean	•				
Dry Bean Adaptation Demo	DC	6	4	24	Dr. Parthiba Balasubramanian - AAFC Lethr.
Dry Bean Adaptation Demo	FSJ	6	4	24	Dr. Parthiba Balasubramanian - AAFC Lethr.
Flax	•			•	
Ag Canada Flax CFET-A Co-op	DC	36	3	108	Dr. Scott Duguid - MRC Morden
Ag Canada Flax Prelim-A Co-op	FSJ	36	3	108	Dr. Scott Duguid - MRC Morden
Ag Canada Flax Prelim-A Co-op	DC	36	3	108	Dr. Scott Duguid - MRC Morden
Ag Canada/BCGPA Early Flax Co-op	DC	36	3	108	Dr. Scott Duguid - MRC Morden
	•			•	

^{**} all entries sourced by BCGPA directly or their inclusion requested by local agri-business

Flax Continued Ag Canada/BCGPA Early Flax Co-op FSJ Flax - Northern Flax - Project -N11PY -10DC DC Flax - Northern Flax - Project -N11PY -11DC DC Flax - Northern Flax - Project -N11PY -12DC DC Flax - Northern Flax - Project -N11PY -13DC DC Flax - Northern Flax - Project -N11PY -13DC DC Flax - Northern Flax - Project -N11PY -14DC DC Flax - Northern Flax - Project -N11PY -15DC DC Flax - Northern Flax - Project -N11PY -15DC DC Agronomic Trials Bayer - Flea Beetle Studies DC Bayer - Flea Beetle Studies FSJ BeckerUnderwood - Flea Beetle Studies DC BeckerUnderwood - Flea Beetle Studies FSJ IPNI - Avail® in-furrow Fertilizer Trial DC IPNI - Nutrisphere® deep-band Fert Trial DC Viterra Napus Herbicide Systems CL/LL Viterra Napus Herbicide Systems RR DC Oats Oat - F4YT- Private Co-op Oat - Regional Advanced Oat Co-op (RAT) DC Oat - WCORT Co-op DC Oat - Western Prairie Advanced Oat (WPAT) DC Oat Advantage® - Co-op B	36 25 25 25 25 25 25 25 25 11 11 6 6 9 13 10 20	3 2 2 2 2 2 2 2 2 4 4 4 4 4 4 4 4 4 4	108 50 50 50 50 50 50 50 44 44 24 24 24 36 52	Dr. Scott Duguid - MRC Morden Dr.Dribnenki, Viterra, Vegreville, AB Ryan Nielson - Bayer CropScience, Calgary Ryan Nielson - Bayer CropScience, Calgary Piran Cargrrg - Becker Underw Saskatoon Piran Cargrrg - Becker Underw Saskatoon Tom Jensen - IPNI, Saskatoon, SK
Flax - Northern Flax - Project -N11PY -10DC Flax - Northern Flax - Project -N11PY -11DC Flax - Northern Flax - Project -N11PY -11DC Flax - Northern Flax - Project -N11PY -12DC Flax - Northern Flax - Project -N11PY -13DC Flax - Northern Flax - Project -N11PY -14DC Flax - Northern Flax - Project -N11PY -14DC Flax - Northern Flax - Project -N11PY -15DC Agronomic Trials Bayer - Flea Beetle Studies Bayer - Flea Beetle Studies Bayer - Flea Beetle Studies BeckerUnderwood - Flea Beetle Studies FSJ BeckerUnderwood - Flea Beetle Studies FSJ IPNI - Avail® in-furrow Fertilizer Trial DC Viterra Napus Herbicide Systems CL/LL Viterra Napus Herbicide Systems RR DC Oats Oat - F4YT- Private Co-op Oat - Regional Advanced Oat Co-op (RAT) Oat - WCORT Co-op Oat - Western Prairie Advanced Oat (WPAT) Oct Advantage® - Co-op B	25 25 25 25 25 25 25 25 11 11 6 6 6 9 13 10 20	2 2 2 2 2 2 2 4 4 4 4 4 4 4 4 3	50 50 50 50 50 50 50 44 44 24 24 24 36	Dr.Dribnenki, Viterra, Vegreville, AB Ryan Nielson - Bayer CropScience, Calgary Ryan Nielson - Bayer CropScience, Calgary Piran Cargrrg - Becker Underw Saskatoon Piran Cargrrg - Becker Underw Saskatoon
Flax - Northern Flax - Project -N11PY -11DC DC Flax - Northern Flax - Project -N11PY -12DC DC Flax - Northern Flax - Project -N11PY -13DC DC Flax - Northern Flax - Project -N11PY -14DC DC Flax - Northern Flax - Project -N11PY -14DC DC Flax - Northern Flax - Project -N11PY -15DC DC Agronomic Trials Bayer - Flea Beetle Studies DC Bayer - Flea Beetle Studies FSJ BeckerUnderwood - Flea Beetle Studies FSJ BeckerUnderwood - Flea Beetle Studies FSJ IPNI - Avail® in-furrow Fertilizer Trial DC IPNI - Nutrisphere® deep-band Fert Trial DC Viterra Napus Herbicide Systems CL/LL Viterra Napus Herbicide Systems RR DC Oats Oat - F4YT- Private Co-op Oat - Regional Advanced Oat Co-op (RAT) DC Oat - WCORT Co-op Oat - Western Prairie Advanced Oat (WPAT) DC Oat Advantage® - Co-op B	25 25 25 25 25 25 25 11 11 6 6 9 13 10 20	2 2 2 2 2 2 4 4 4 4 4 4 4 4 3	50 50 50 50 50 44 44 24 24 36	Dr.Dribnenki, Viterra, Vegreville, AB Ryan Nielson - Bayer CropScience, Calgary Ryan Nielson - Bayer CropScience, Calgary Piran Cargrrg - Becker Underw Saskatoon Piran Cargrrg - Becker Underw Saskatoon
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IPNI - Avail® in-furrow Fertilizer Trial DC IPNI - Nutrisphere® deep-band Fert Trial DC Viterra Napus Herbicide Systems CL/LL DC Viterra Napus Herbicide Systems RR DC Oats Oat - F4YT- Private Co-op DC Oat - Regional Advanced Oat Co-op (RAT) DC Oat - WCORT Co-op DC Oat - Western Prairie Advanced Oat (WPAT) DC Oat Advantage® - Co-op B DC	9 13 10 20	4 4 3	36	1
IPNI - Nutrisphere® deep-band Fert Trial DC Viterra Napus Herbicide Systems CL/LL DC Viterra Napus Herbicide Systems RR DC Oats Oat - F4YT- Private Co-op DC Oat - Regional Advanced Oat Co-op (RAT) DC Oat - WCORT Co-op DC Oat - Western Prairie Advanced Oat (WPAT) DC Oat Advantage® - Co-op B DC	13 10 20	4 3		Tom Jensen - IPNI, Saskatoon, SK
Viterra Napus Herbicide Systems CL/LL Viterra Napus Herbicide Systems RR DC Oats Oat - F4YT- Private Co-op Oat - Regional Advanced Oat Co-op (RAT) Oat - WCORT Co-op Oat - Western Prairie Advanced Oat (WPAT) Oat Advantage® - Co-op B DC	10 20	3	52	
Viterra Napus Herbicide Systems RR Oats Oat - F4YT- Private Co-op Oat - Regional Advanced Oat Co-op (RAT) Oat - WCORT Co-op Oat - Western Prairie Advanced Oat (WPAT) Oat Advantage® - Co-op B DC	20			Tom Jensen - IPNI, Saskatoon, SK
Oats Oat - F4YT- Private Co-op DC Oat - Regional Advanced Oat Co-op (RAT) DC Oat - WCORT Co-op DC Oat - Western Prairie Advanced Oat (WPAT) DC Oat Advantage® - Co-op B DC	•	,	30	Tim Ferguson - Viterra
Oat - F4YT- Private Co-op DC Oat - Regional Advanced Oat Co-op (RAT) DC Oat - WCORT Co-op DC Oat - Western Prairie Advanced Oat (WPAT) DC Oat Advantage® - Co-op B DC	30	3	60	Tim Ferguson - Viterra
Oat - Regional Advanced Oat Co-op (RAT) DC Oat - WCORT Co-op DC Oat - Western Prairie Advanced Oat (WPAT) DC Oat Advantage® - Co-op B DC	30			
Oat - WCORT Co-op DC Oat - Western Prairie Advanced Oat (WPAT) DC Oat Advantage® - Co-op B DC		2	60	Dr. Jennifer Mitchell-Fetch - AAFC Winnipeg
Oat - Western Prairie Advanced Oat (WPAT) Oat Advantage® - Co-op B DC	36	3	108	Dr. Jennifer Mitchell-Fetch - AAFC Winnipeg
Oat Advantage® - Co-op B DC	36	3	108	Dr. Jennifer Mitchell-Fetch - AAFC Winnipeg
	36	3	108	Dr. Jennifer Mitchell-Fetch - AAFC Winnipeg
Othor	24	2	48	Jim Dyck- Advantage Seeds
Other				
PRFSA - forage seed plots (S. Burton) FSJ	25	4	100	Sandra Burton - PRFSA
Peas				
Field Pea Co-op "A" FSJ	36	3	108	Dr. Dengjin Bing - AAFC Lacombe
Field Pea Co-op "B" FSJ	36	3	108	Dr. Dengjin Bing - AAFC Lacombe
Peace Region Field Pea (PYT01) Trial FSJ	36	2	72	Dr. Dengjin Bing - AAFC Lacombe
Peace Region Field Pea (PYT02) Trial FSJ	36	2	72	Dr. Dengjin Bing - AAFC Lacombe
Triticale				
T-S51Triticale Silage DC	22	3	66	Dr. Don Salmon - AAFRD Lacombe, AB
T-Y51Triticale Grain Pre-Co-op DC	22	3	66	Dr. Don Salmon - AAFRD Lacombe, AB
T-Y52 Triticale Grain Pre-Co-op FSJ	22	3	66	Dr. Don Salmon - AAFRD Lacombe, AB
Wheat				
Early Wheat Parkland 'A1' (3m plots) FSJ	100	2	200	Dr. Gavin Humphreys -AAFC Winnpeg
Early Wheat Parkland 'A2' (3m plots) FSJ	81	2	162	Dr. Steve Fox - AAFC Winnpeg
Early Wheat Parkland 'A3' (3m plots) FSJ	49	2	98	Dr. Gavin Humphreys -AAFC Winnpeg
Early Wheat PRDHFM (3m plots) FSJ	128	1	128	Dr. Gavin Humphreys -AAFC Winnpeg
Early Wheat PRF8m2 (3m plots) FSJ	144	1	144	Dr. Gavin Humphreys -AAFC Winnpeg
Early Wheat PRF8m3 (3m plots) FSJ	180	1	180	Dr. Gavin Humphreys -AAFC Winnpeg
Ethanol Feedstocks-B Private (BCGPA) DC	23	4	92	BCGPA/Humphreys/Brown/Fox/Depauw
Ethanol Feedstocks-B Private (BCGPA) FSJ	23	4	92	BCGPA/Humphreys/Brown/Fox/Depauw
Hard White Spring Wheat Co-op DC	30	3	90	Dr. Ron DePauw - AAFC Swift Current
Hard White Spring Wheat Co-op FSJ	30	3	90	Dr. Ron DePauw - AAFC Swift Current
Parkland 'B' Wheat Co-op FSJ	25	3	75	Dr. Dean M. Spaner - U of Alberta
Parkland 'C' Wheat Co-op DC	30	3	90	Alanna Olson - AAFC Beaverlodge
Parkland 'C' Wheat Co-op FSJ	30	3	90	Alanna Olson - AAFC Beaverlodge
VITERRA Wheat Marketing DC	23	3	69	Jim Anderson - Viterra
Wheat - ORGAYT - U of A Co-op FSJ		3	75	

Site: FSJ = Vic Blanchette, Fort St. John, BC

DC = School District #59, (Hudson School Farm property), Dawson Creek, BC

= Alberta Agriculture, Food and Rural Development = Agriculture and Agri-Food Canada Sources: **AAFRD**

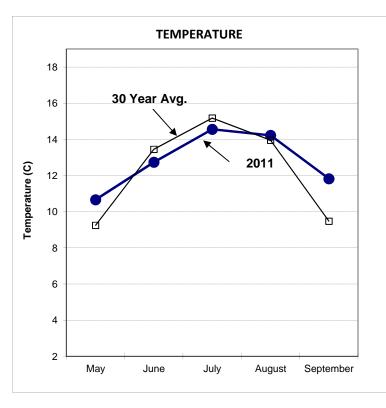
AAFC

ARECA = Agricultural Research and Extension Council of Alberta

= Morden Research Centre, Agriculture & Agrifood Canada, Morden, Manitoba = University of Saskatchewan, Saskatoon, Saskatchewan MRC **UofS**

BCGPA = British Columbia Grain Producers Association

Dawson Creek Weather Information 2011



TEMPERATURE

Month	Monthly Avg. Temp. (C)	Temp.* 30 year Avg. (C)
May	11	9
June	13	13
July	15	15
August	14	14
September	12	9

Frost Events: -1.3 May 7 -1 Sept 28 -1.8 May 8 -2.5 Oct 1

Killing Frost (-2.2 C) Free Period: 163 days April 21 - October 1

Accumulated Growing Degree Days: 2011: 1137 1994-2011 Average: 1164

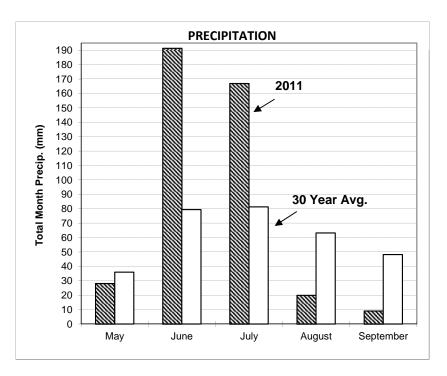
* 30 year average DC from 1968-1997 Source: Environment CANADA

PRECIPITATION

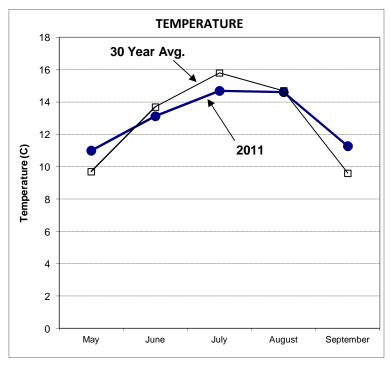
Month	Monthly Precipitation (mm)	Precipitation * 30 year Avg. (mm)
May	28	36
June	191	79
July	167	81
August	20	63
September	9	48

Data is provided by an on site weather station maintained by the Canadian Wheat Board through its Weatherfarm® program (a cooperation with WeatherBug®) and in conjunction with the BC Grain Producers Association.





Fort St. John Weather Information 2011



TEMPERATURE

Month	Monthly Avg. Temp. (C)	Temp.* 30 year Avg. (C)
May	11	10
June	13	14
July	15	16
August	15	15
September	11	10

Frost Events: -2.2 May 1 -1.9 Sept 13 -2.2 June 5 -2.3 Oct 3

Killing Frost (-2.2 C) Free Period: 120

June 5 - October 3

Accumulated Growing Degree Days: 2011: 1159
1994-2011 Average: 1152

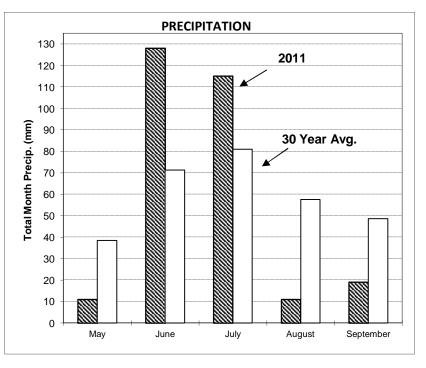
* 30 year average FSJ from 1968-1997 source: Environment CANADA

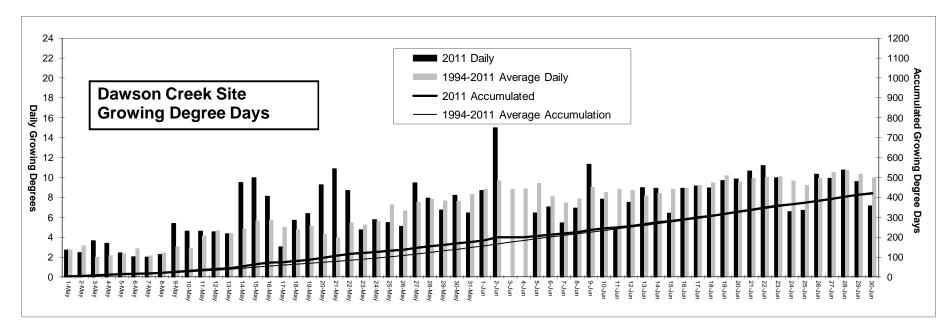
PRECIPITATION

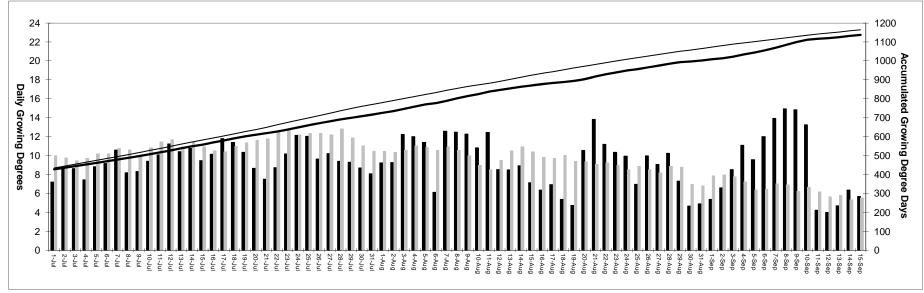
Month	Monthly Precipitation (mm)	Precipitation * 30 year Avg. (mm)
May	11	39
June	128	71
July	115	81
August	11	58
September	19	49
June July August	128 115 11	71 81 58

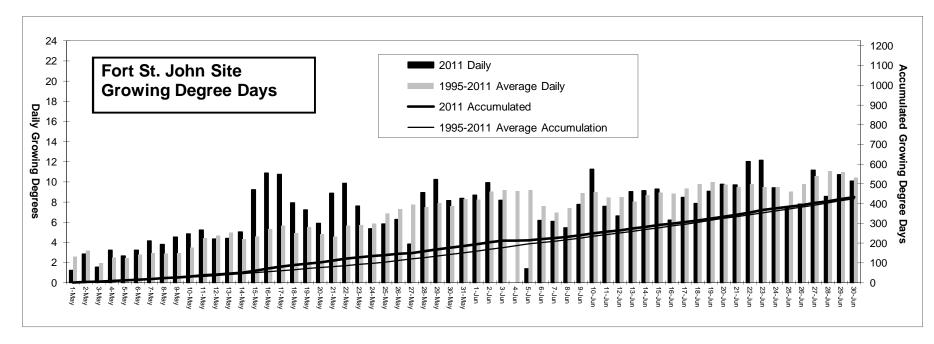
Data is provided by an on site weather station maintained by the Canadian Wheat Board through its Weatherfarm® program (a cooperation with WeatherBug®) and in conjunction with the BC Grain Producers Association.











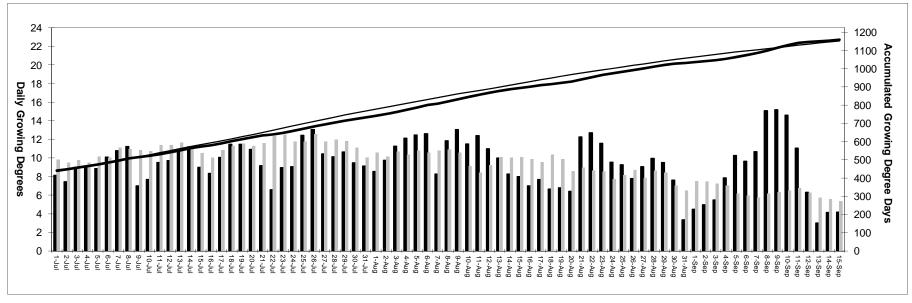




Photo above: Cereal research plots at Dawson Creek's research farm; barley in the foreground, wheat behind the barley, both in the front main cereal block. Photo was taken around late August, 2011. More canola and cereal research can be seen at the far back. 2011 was a year of excessive moisture in June and July, causing incredible yields, quality, but late maturity in the end... for those trials surviving the excessive moisture period (most trials). 2011 was also a record year in the total number of research plots, around 8,000 plots in total between both Dawson Creek and Fort St. John research farms.

List of Certified Seed Distributors

Alliance Seed Corp.

c/_o Parrish & Heimbecker 2149 Imperial Access Rd. Dawson Creek Toll-Free:1(800) 315-6336 www.allianceseed.com www.parrishandheimbecker.com

Bayer CropScience Inc. Canada

#100, 3131-114 Ave. SE Calgary, AB T2Z 3X2 Toll-Free :1(888) 283-6847 Phone:(403)-723-7400 www.bayercropscience.ca

Brett - Young Seeds Ltd.

P.O. Box 99, St. Norbert Postal Station, Winnipeg, MB R3V 1L5 Toll-Free: 1(800) 665-5015 www.brettyoung.ca

Canseed Ltd.

R.R. #1, Box 1155 Stettler, AB T0C 2L0 Phone: (403)-742-4091 Fax: (403)-742-0621

Canterra Seeds Ltd.

201-1475 Chevier Blvd. Winnipeg, MB R3T 1Y7 Phone: (204)-988-9750 Fax:(204) 487-7682 www.canterra.com

Cargill Ltd.

P.O. Box 5900 300-240 Graham Avenue Winnipeg, MB R3C 4C5 Phone:(204)-947-0141 Fax:(204)-947-6444 www.cargill.ca

DL Seeds

P.O. Box 2499 Morden, MB R6M 1C2 Phone: (204)-331-2361 Fax:(204)-325-8052 www.dlseeds.ca

FP Genetics

426 McDonald Street Regina, SK S4N 6E1 Toll Free: 1(877) 791-1045 Fax: 1(877) 791-1046 www.fpgenetics.ca

Hadland Seed Farm Ltd.

8161 253 Rd, Baldonnel BC, V0C 1C0 Phone: (250)-789-3646

Mastin Seeds

RR #1 Sundre, AB T0M 0X0 Phone:(403)-556-2609 Fax: (403)-507-2609 www.mastinseeds.com

Monsanto Canada Inc (DEKALB)

900 - 1 Research Road Winnipeg, MB R3T 6E3 Toll-Free:1(800) 667-4944 Phone: (204)-985-1000 www.monsanto.ca

Pioneer Hi-Bred Ltd. (DuPont)

P.O. Box 730, 7398 Queen's Line Chatham, ON N7M 5L1 Phone: (519)-352-6350 www.pioneer.com/canada

Richardson International

2800 One Lombard Place, Winnipeg, MB R3B 0X8 http://www.richardson.ca

Saskatchewan Pulse Growers

104 - 411 Downey Road Saskatoon, SK S7N 4L8 Phone: (306)-668-5556 Fax: (306)-668-5557 www.saskpulse.com

SeCan Association

501-300 March Road Kanata, ON K2K 2E2 Toll-Free:1(800) 764-5487 Phone: (613)-592-8600 www.secan.com

Seed Depot Corp.

P.O. Box 208 Pilot Mound, MB R0G 1P0 Phone: (204)-825-2000 www.seeddepot.ca

SeedNet

Ron Markert Phone: (403)-485-6708 http://www.seednet.ca

Solick Seeds Ltd.

Po Box 97 Halkirk, AB T0C 1M0 Phone: (403)-884-2358 Fax: (403)-884-2360

Syngenta Seeds Canada Inc.

15910 Medway Road, RR 1 Arva, ON N0M 1C0 Toll-Free:1(800) 756-7333 www.nkseed.com www.syngenta.ca

T & L Seeds

P.O. Box 216 North Battleford, SK S9A 2Y1

Viterra

P.O. Box 6600 CanWest Global Place 201 Portage Avenue Winnipeg, MB R3C 3A7 Toll Free:1(866) 569-4411 Fax: 1(866) 310-4156 Dawson Creek Phone:(250)-782-9264 Fort St.John Phone:(250)-785-3445 www.viterra.ca

Wedge Farms(Smart&Natural Foods Itd)

box 276 363 River Road Arborg, MB R0C 0A0 toll free: 1(877) 738-2144 fax: 1(204)-376-2201 www.mysmartfoods.com

Wagon Wheel Seed Corp.

Box 229 Churchbridge, SK S0A 0M0 Phone: (306)-896-2236 Fax: (306)-896-2696 http://www.wagonwheelseeds.sk.ca

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