

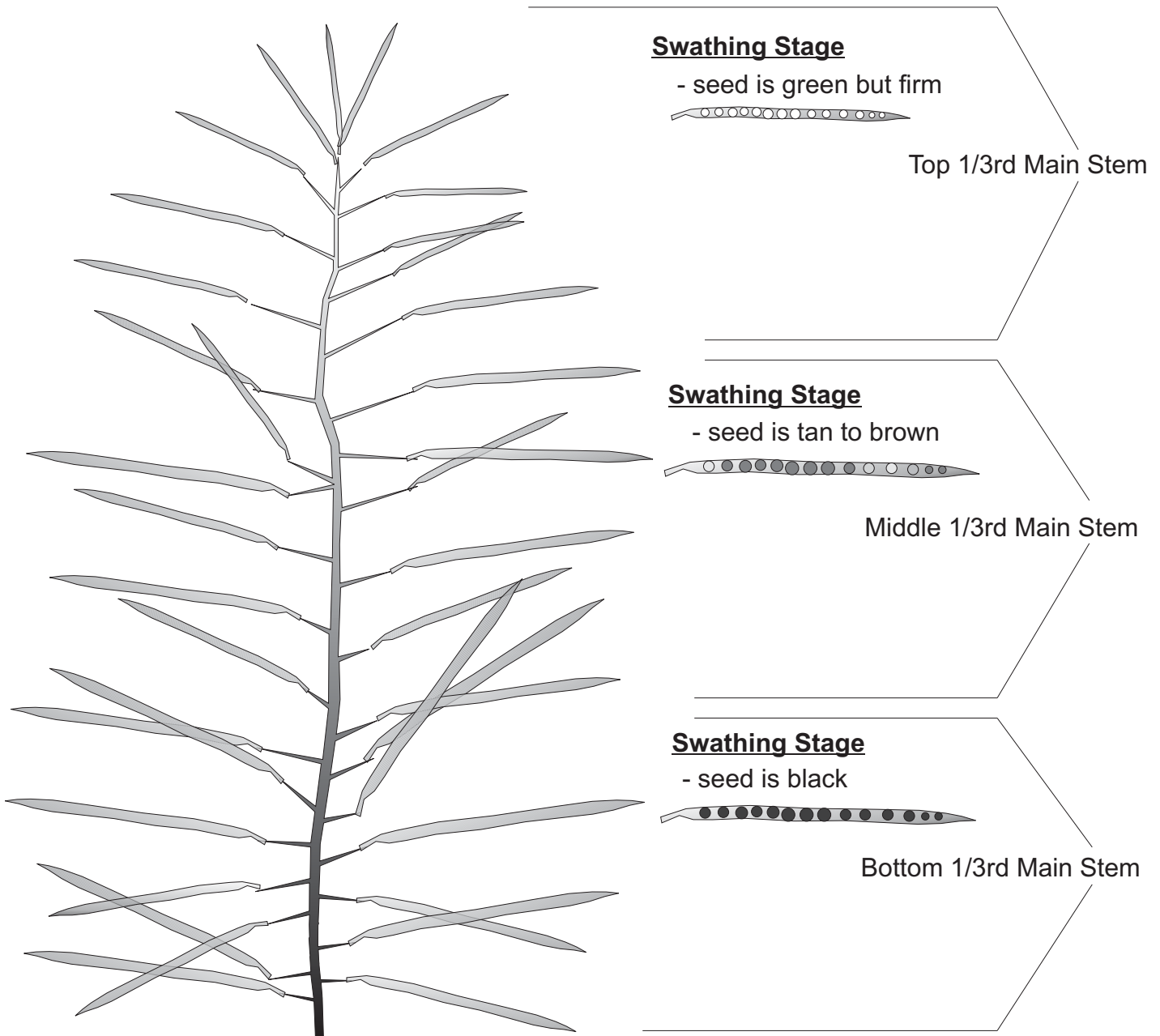
Funding for this project has been provided by Agriculture and Agri-Food Canada through the Canadian Agricultural Adaptation Program (CAAP). In British Columbia, this program is delivered by the Investment Agriculture Foundation of BC.

Agriculture and Agri-Food Canada (AAFC) is committed to working with industry partners. Opinions expressed in this document are those of the BC Grain Producers Association and not necessarily those of AAFC.

# 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.



## 2012 Crop Pest Status in the BC Peace Region

**Clubroot of canola:** 2012 saw an expansion of the number of infected fields in Alberta, confirmation of the disease spreading to Saskatchewan, and detection of clubroot DNA (but not plant symptoms) in Manitoba. So far, it has NOT been found in the BC Peace.



Ministry of  
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Although progress is being made in breeding varieties 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 2012 can be seen at the following link [http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/prm14255](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/prm14255) Club root could easily be transferred from there to here with a little bit of soil. It may be a good idea for you as a landowner having energy or construction equipment visiting (perhaps for pipeline work), to get an agreement that the equipment be cleaned prior to it coming on to your property. Check out the problem on the Internet: Alberta Clubroot Management Plan [http://www1.agric.gov.ab.ca/\\$Department/deptdocs.nsf/all/agdex11519](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.

**Aster yellows:** canola plants with misshapen “bladder” pods and reduced seeds, showed up in the BC Peace this year. The disease is spread by leafhoppers, which may have survived a milder winter or been blown in to the area by spring winds. Something to consider in future. <http://www.canolawatch.org/2012/11/07/aster-yellows-qa/>

**Hawkweeds:** 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. They have flowers and seeds like dandelions, but 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. See [http://www.bcinvasives.ca/images/stories/documents/tips/Invasive\\_Hawkweeds\\_TIPS.pdf](http://www.bcinvasives.ca/images/stories/documents/tips/Invasive_Hawkweeds_TIPS.pdf) or ask for a poster at the Agriculture office. The NorthEast Invasive Plant Committee with your help is working hard to keep these and other species out of the region.

It is worth knowing the pest players and risks. Further information is available from agriculture service suppliers (id. booklets), and on websites such as Canola Council’s “**canola watch**” <http://www.canolawatch.org/#sign-up-inner> . 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.

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BC Ministry of Agriculture

Dawson Creek 250 784 2559

Argentine Canola		Yield as % of 45H21								
		Dawson Creek			Fort St. John			B.C. Peace		
Variety	Type	2012	2007-2012		2012	2007-2012		2012	2007-2012	
		% of check	Avg. (%)	Stn. Yrs.	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
1918*	Roundup Ready®	90	90	[1]	95	95	[1]	93	93	[2]
43E01	Roundup Ready®	96	97	[3]	95	95	[3]	95	96	[6]
43E02*	Roundup Ready®	103	103	[1]	99	99	[1]	101	101	[2]
<b>45H21</b>	Roundup Ready®	100	100	[9]	100	100	[10]	100	100	[19]
45H26	Roundup Ready®	93	104	[3]	99	104	[3]	96	104	[6]
45H29 ***	Roundup Ready®	104	111	[3]	111	111	[3]	107	111	[6]
45H31	Roundup Ready®	100	103	[2]	108	109	[2]	104	106	[4]
45S51	Roundup Ready®	100	103	[2]	107	105	[2]	104	104	[4]
45S52	Roundup Ready®	98	103	[2]	113	111	[2]	105	107	[4]
6040 RR	Roundup Ready®	100	100	[2]	100	95	[2]	100	97	[4]
6050 RR*	Roundup Ready®	113	113	[1]	105	105	[1]	109	109	[2]
CSC-12-001* Δ	Roundup Ready®	105	105	[1]	113	113	[1]	109	109	[2]
Fusion	Roundup Ready®	94	97	[2]	103	102	[2]	98	99	[4]
Rugby	Roundup Ready®	93	101	[3]	94	95	[4]	94	98	[7]
5440	LibertyLink®	113	116	[3]	109	116	[4]	111	116	[7]
L120*	LibertyLink®	109	109	[1]	109	109	[1]	109	109	[2]
L130	LibertyLink®	107	117	[2]	109	108	[2]	108	112	[4]
L150	LibertyLink®	106	119	[2]	113	115	[2]	110	117	[4]
Peace	conventional	70	76	[4]	69	72	[4]	70	74	[8]
5525 CL	Clearfield®	104	102	[4]	98	98	[4]	101	100	[8]
5535 CL	Clearfield®	102	99	[2]	107	102	[2]	105	101	[4]

**45H21 - check variety**

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

Δ = not currently registered

\*\*\* 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 (as only one napus trial per site with a common check in 2012) and thus conventional herbicides are used for weed control. (See page 6 for herbicides used).

Coefficient of Variance (CV) values of the napus trials for 2012 were as follows: DC = 8.9 FSJ = 5.9

# Argentine Canola

## Variety Descriptions

Variety	Type	Herbicide Tolerance	B.C. Peace Avg.		Blackleg Rating (Data from Various info.)	Distributor
			Days to Swathing <sup>1</sup>			
			as +/- check			
			2012	2007-2012		
1918*	HYB	Roundup Ready®	2.5	2.5	MR	Canterra Seeds
43E01	HYB	Roundup Ready®	-3.8	-3.1	MR	Pioneer Hi-Bred
43E02*	HYB	Roundup Ready®	-3.5	-3.5	MR	Pioneer Hi-Bred
<b>45H21</b>	HYB	Roundup Ready®	0.0	0.0	MR	Pioneer Hi-Bred
45H26	HYB	Roundup Ready®	2.5	0.2	R	Pioneer Hi-Bred
45H29***	HYB	Roundup Ready®	1.3	0.9	R	Pioneer Hi-Bred
45H31	HYB	Roundup Ready®	2.8	1.4	R	Pioneer Hi-Bred
45S51	HYB	Roundup Ready®	1.3	0.6	R	Pioneer Hi-Bred
45S52	HYB	Roundup Ready®	0.8	0.6	MR	Pioneer Hi-Bred
6040 RR	HYB	Roundup Ready®	2.8	1.5	R	Brett Young
6050 RR*	HYB	Roundup Ready®	2.0	2.0	R	Brett Young
CSC-12-001* Δ	HYB	Roundup Ready®	3.8	3.8	R	Canterra Seeds
Fusion	HYB	Roundup Ready®	1.5	1.0	R	SeCan
■ Rugby	OP	Roundup Ready®	3.3	1.7	R	SeCan
5440	HYB	LibertyLink®	1.3	2.1	R	Bayer Crop Science
L120*	HYB	LibertyLink®	0.5	0.5	R	Bayer CropScience
L130	HYB	LibertyLink®	1.5	0.8	R	Bayer CropScience
L150	HYB	LibertyLink®	2.3	1.4	R	Bayer CropScience
■ Peace	OP	conventional	-7.3	-3.9	R	Viterra
5525 CL	HYB	Clearfield®	2.8	3.2	R	BrettYoung
5535 CL	HYB	Clearfield®	0.8	0.6	R	Brett Young

■ Protection by Plant Breeders' Rights

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

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

Average 'days to swathing' for **45H21** is **98** days for **2012**

Overall average 'days to swathing' for **45H21** is **108** days

R = Resistant, MR = Moderately Resistant, MS = Moderately Susceptible

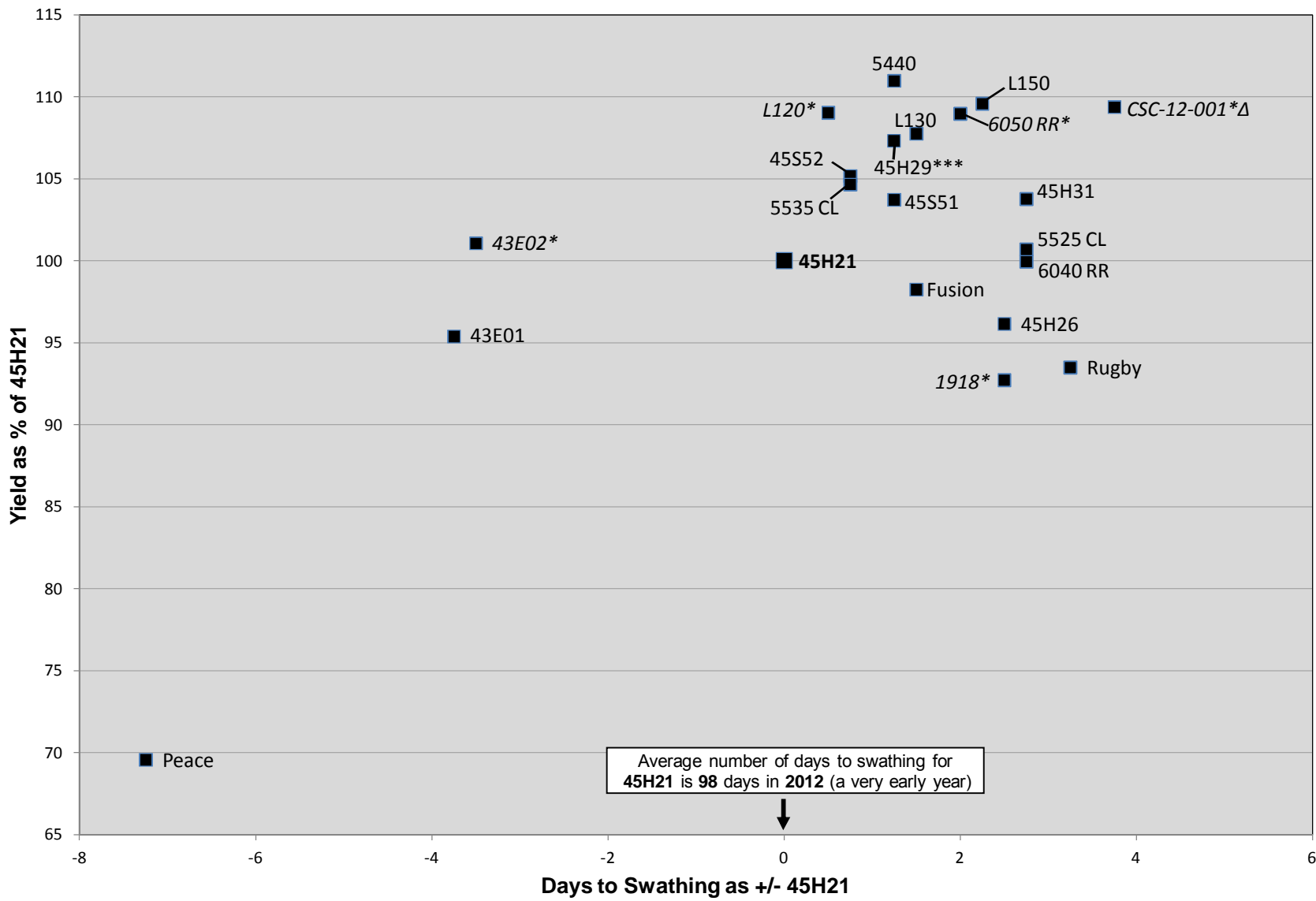
OP = open pollinated, SYN = synthetic, HYB = hybrid

<sup>1</sup>For full description of "Days to swathing" see page 23.

Δ = not currently registered

\*\*\* Club-root Resistance

# Argentine Canola Variety Performance 2012



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\*\*\* Club-root Resistance

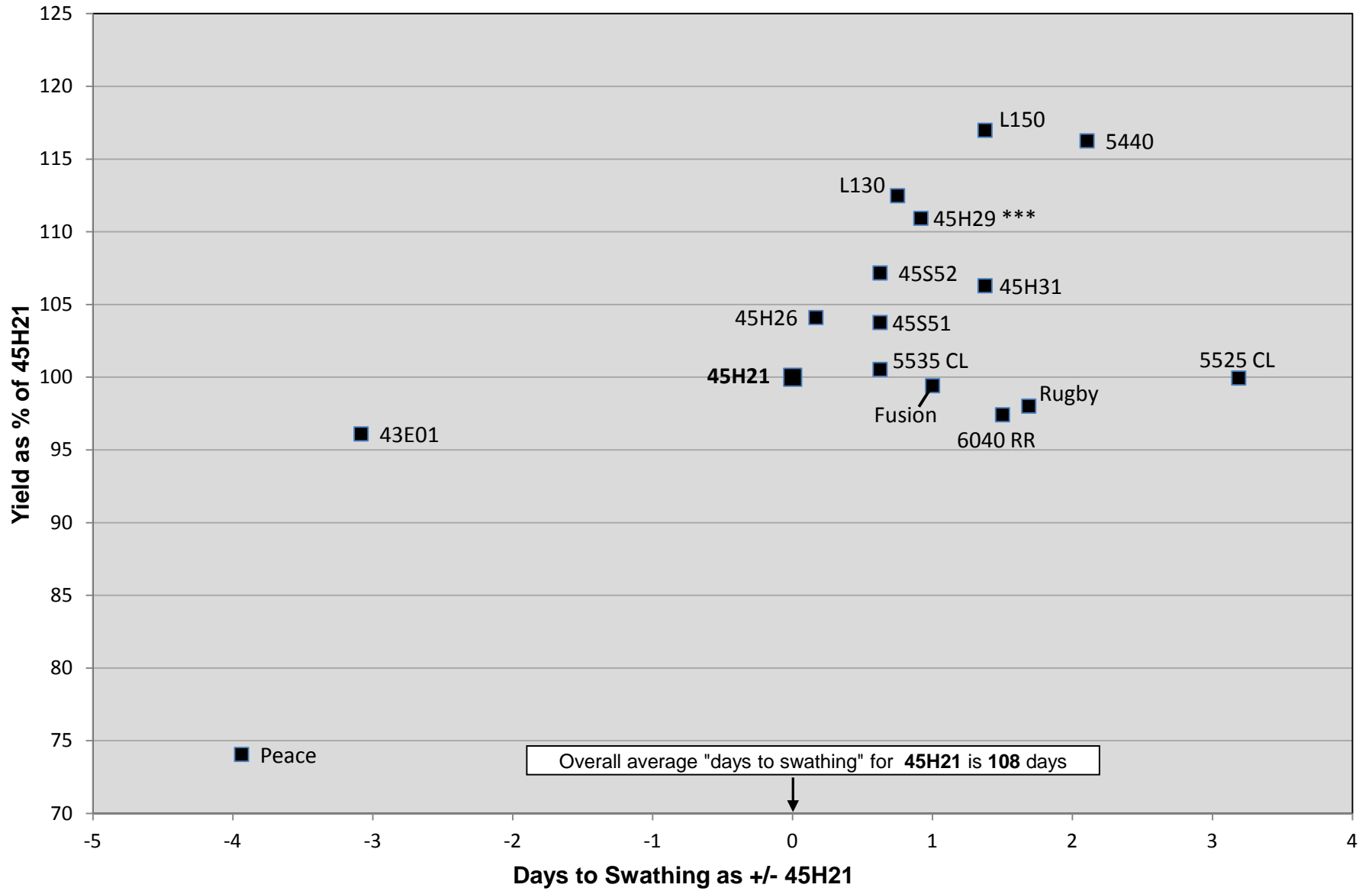
Δ = not currently registered

\* first year tested materials

# Argentine Canola

# Variety Performance

# 2007-2012



\*\*\* Club-root Resistance

# CANOLA

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

Please refer to [www.CanolaPerformanceTrials.ca](http://www.CanolaPerformanceTrials.ca) for further short-season information involving other CPT site results.

Canola Performance Trial (CPT)				B.C. Peace Sites				2012	
Variety	Type	Herbicide Tolerance	Dawson Creek		Fort St. John		B.C. Peace		Distributor
			2012		2012		2012 Avg.		
			YIELD bu/ac	Maturity Days to	YIELD bu/ac	Maturity Days to	YIELD bu/ac	Maturity Days to	
<b>Clearfield® herbicide tolerant system</b>									
5525 CL	HYB	Clearfield®	45 a	100.3	52 e	100.0	49	100	Brett Young
5535 CL	HYB	Clearfield®	49 a	95.7	57 b-e	98.7	53	97	Brett Young
VR 9560 CL	HYB	Clearfield®	48 a	101.3	58 b-e	101.0	53	101	Viterra
<b>LibertyLink® herbicide tolerant system</b>									
5440	HYB	LibertyLink®	43 a	98.0	56 b-e	98.7	50	98	Bayer CropScience
L120	HYB	LibertyLink®	46 a	97.0	58 b-e	98.0	52	98	Bayer CropScience
L130	HYB	LibertyLink®	41 a	98.7	57 b-e	98.0	49	98	Bayer CropScience
L150	HYB	LibertyLink®	46 a	99.0	63 ab	99.3	55	99	Bayer CropScience
L154	HYB	LibertyLink®	46 a	100.3	61 a-d	99.3	53	100	Bayer CropScience
L159	HYB	LibertyLink®	43 a	98.7	56 cde	100.0	49	99	Bayer CropScience
<b>Roundup Ready® herbicide tolerant system</b>									
1990	HYB	Roundup Ready®	47 a	100.7	60 a-d	100.7	54	101	Canterra Seeds
6050 RR	HYB	Roundup Ready®	50 a	100.0	59 bcd	99.0	55	100	Brett Young
6060 RR	HYB	Roundup Ready®	42 a	101.0	56 cde	101.7	49	101	Brett Young
72-65 RR	HYB	Roundup Ready®	48 a	97.0	57 b-e	100.7	52	99	Dekalb
73-15 RR	HYB	Roundup Ready®	48 a	97.3	58 b-e	98.0	53	98	Dekalb
73-45 RR	HYB	Roundup Ready®	51 a	99.0	60 bcd	97.7	56	98	Dekalb
73-75 RR	HYB	Roundup Ready®	48 a	98.0	62 abc	100.3	55	99	Dekalb
74-44 BL	HYB	Roundup Ready®	50 a	98.7	59 bcd	100.0	55	99	Dekalb
74-47 CR	HYB	Roundup Ready®	50 a	101.0	65 a	100.3	57	101	Dekalb
94H04	HYB	Roundup Ready®	44 a	97.3	54 de	96.7	49	97	FP Genetics
V12-1 **	HYB	Roundup Ready®	43 a	98.0	57 b-e	99.3	50	99	Cargill Specialty Oils
VR 9559 G	HYB	Roundup Ready®	48 a	100.7	58 b-e	99.7	53	100	Viterra
VT-OU 08-11008 Δ	HYB	Roundup Ready®	39 a	99.7	55 de	101.0	47	100	Viterra
LSD (P=.05)			7.36		3.64				
Standard Deviation			5.20		2.57				
CV			11.26		4.4				

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Δ not currently registered

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

Caution, one year data so very limited data

\*\* specialty oil

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The following description of the CPT trials was provided by: [seed.ab.ca](http://seed.ab.ca) publication (Winter, 2011). Italics are minor changes by BCGPA to be current with 2012.

**Canola Performance Trials are coordinated by the Canola Council of Canada**

**Note: The CPT system is not affiliated with provincial regional variety testing.**

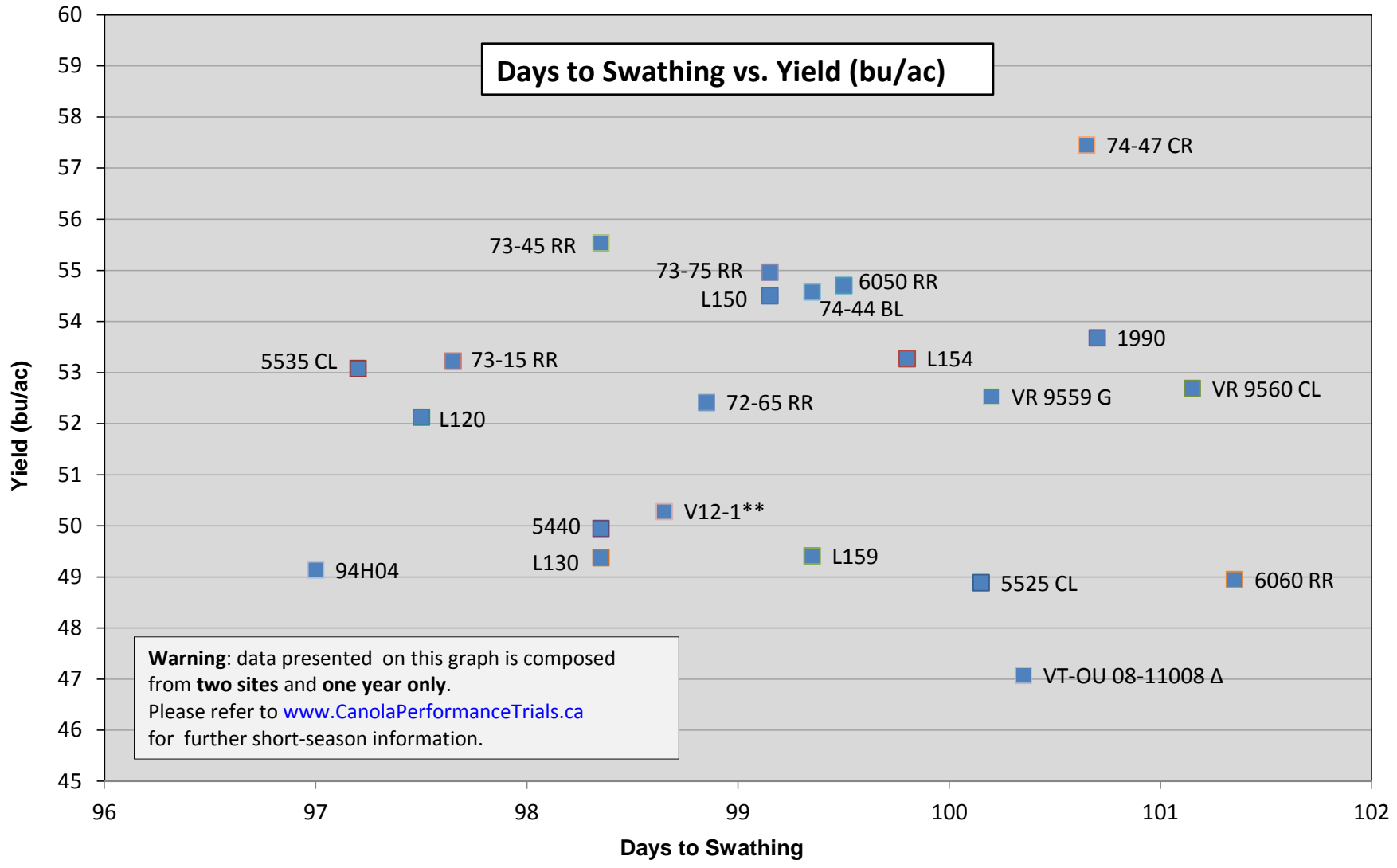
This canola variety table summarizes the performance of selected registered canola varieties available for planting in spring 2013. The post-registration Canola Performance Trial (CPT) testing in 2012 was designed to be more reflective of field practices. The appropriate herbicide products have been 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.CanolaPerformanceTrials.ca](http://www.CanolaPerformanceTrials.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 2012 and 2011 are not considered comparable to previous trials.

Detailed notes on other agronomic attributes of varieties and trials management are at [www.CanolaPerformanceTrials.ca](http://www.CanolaPerformanceTrials.ca)



**Canola Performance Trial (CPT) B.C. Peace Sites 2012**

**Days to Swathing vs. Yield (bu/ac)**



**Warning:** data presented on this graph is composed from **two sites** and **one year only**. Please refer to [www.CanolaPerformanceTrials.ca](http://www.CanolaPerformanceTrials.ca) for further short-season information.

\*\* specialty oil