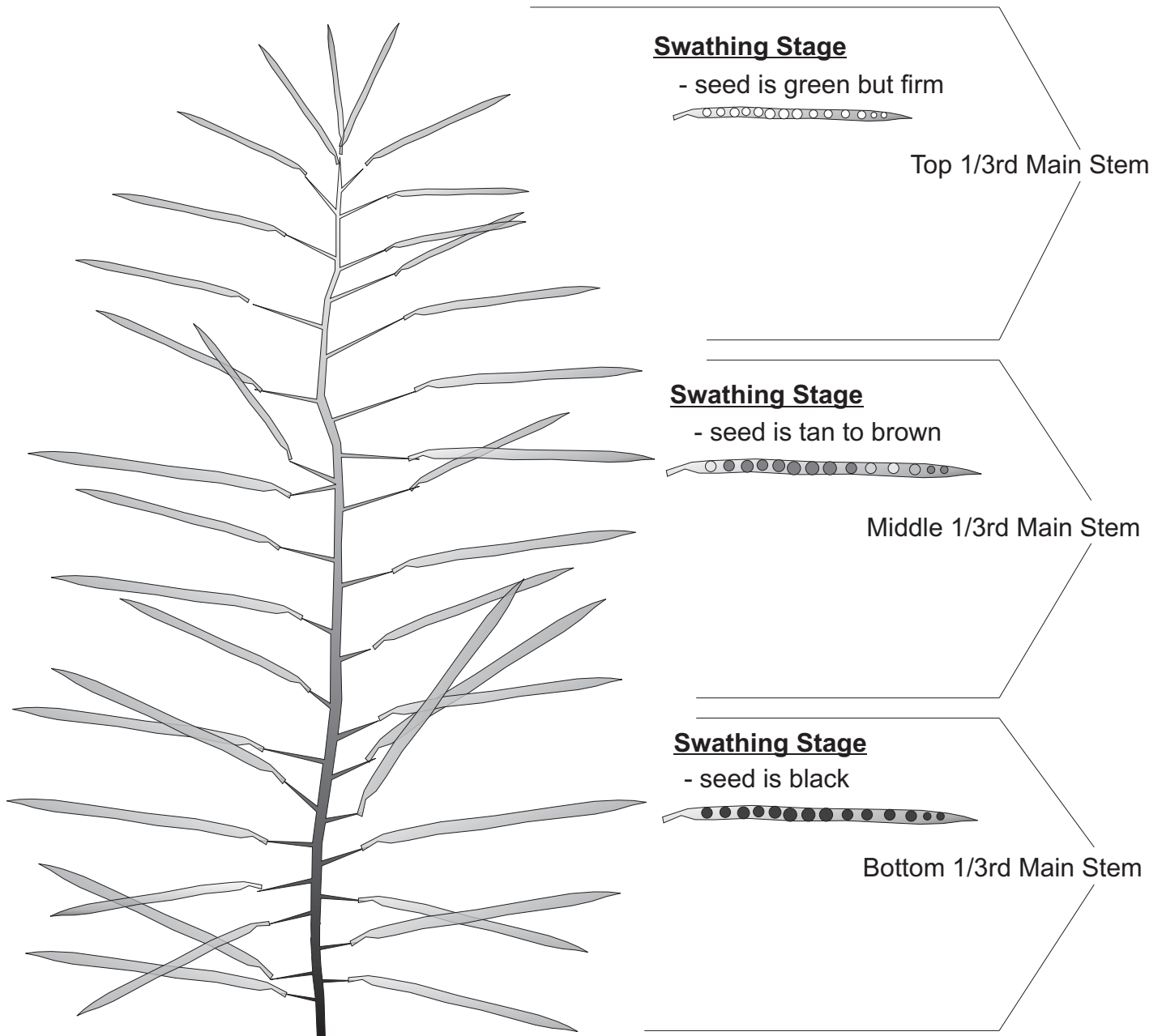


# Definition of Canola Maturity Used In This Report

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 2011 can be seen at the following link [http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/prm13443](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](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](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](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](mailto:Kerry.clark@gov.bc.ca) *Agrologist*

# CANOLA

Argentine Canola		Yield as % of 45H21								
		Dawson Creek			Fort St. John			B.C. Peace		
Variety	Type	2011	2006-2011		2011	2006-2011		2011	2006-2011	
		% of check	Avg. (%)	Stn. Yrs.	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. 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]
<b>45H21</b>	Roundup Ready®	<b>100</b>	<b>100</b>	<b>[11]</b>	<b>100</b>	<b>100</b>	<b>[12]</b>	<b>100</b>	<b>100</b>	<b>[23]</b>
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]	111	111	[1]	109	109	[2]
45S51*	Roundup Ready®	105	105	[1]	103	103	[1]	104	104	[2]
45S52*	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	108	[1]	104	104	[2]
Fusion*	Roundup Ready®	100	100	[1]	101	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]	103	103	[1]	104	104	[2]
5020	LibertyLink®	109	103	[9]	101	102	[9]	105	103	[18]
8440	LibertyLink®	127	109	[3]	109	111	[3]	118	110	[6]
L130*	LibertyLink®	127	127	[1]	107	107	[1]	117	117	[2]
L150*	LibertyLink®	132	132	[1]	117	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 Canola

# Variety Descriptions

Variety	Type	Herbicide Tolerance	B.C. Peace Avg.		Blackleg Rating (Various info.)	Distributor
			Days to Swathing <sup>1</sup>			
			as +/- check			
2011	2006-2011					
1950*	HYB	Roundup Ready®	0.5	0.5	MR	Canterra Seeds
■ 32-75	OP	Roundup Ready®	-0.5	0.3	R	Monsanto
■ 43A56	OP	Roundup Ready®	-1.8	-1.9	MR	Pioneer Hi-Bred
43E01	HYB	Roundup Ready®	-1.0	-2.8	MR	Pioneer Hi-Bred
<b>45H21</b>	HYB	Roundup Ready®	0.0	0.0	R	Pioneer Hi-Bred
45H28	HYB	Roundup Ready®	0.8	0.1	R	Pioneer Hi-Bred
45H29 ***	HYB	Roundup Ready®	0.0	0.8	R	Pioneer Hi-Bred
45H31*	HYB	Roundup Ready®	0.0	0.0	R	Pioneer Hi-Bred
45S51*	HYB	Roundup Ready®	0.0	0.0	R	Pioneer Hi-Bred
45S52*	HYB	Roundup Ready®	0.5	0.5	MR	Pioneer Hi-Bred
6040 RR*	HYB	Roundup Ready®	0.3	0.3	R	BrettYoung
73-35 RR*	HYB	Roundup Ready®	-0.5	-0.5	R	Monsanto
73-55 RR*	HYB	Roundup Ready®	-0.5	-0.5	R	Monsanto
■ Café	OP	Roundup Ready®	-1.0	-1.3	R	SeCan
D3151	HYB	Roundup Ready®	-0.3	-0.1	MR	Pioneer Hi-Bred
D3153*	HYB	Roundup Ready®	1.0	1.0	R	Pioneer Hi-Bred
Fusion*	HYB	Roundup Ready®	0.5	0.5	R	SeCan
VR 9350 G	HYB	Roundup Ready®	-1.3	-1.9	MR	Viterra
VR 9553 G	HYB	Roundup Ready®	0.3	0.9	R	Viterra
VT 500 G*	HYB	Roundup Ready®	0.0	0.0	R	Viterra
VT Remarkable*	SYN	Roundup Ready®	0.3	0.3	R	Viterra
5020	HYB	LibertyLink®	0.4	-0.2	R	Bayer Crop Science
8440	HYB	LibertyLink®	0.5	0.7	R	Bayer Crop Science
L130*	HYB	LibertyLink®	0.0	0.0	R	Bayer Crop Science
L150*	HYB	LibertyLink®	0.5	0.5	R	Bayer Crop Science
■ 46A65	OP	conventional	1.3	2.4	R	Pioneer Hi-Bred
■ Peace	OP	conventional	-2.0	-2.8	MR	Viterra
5525 CL	HYB	Clearfield®	0.0	3.3	R	BrettYoung
5535 CL*	HYB	Clearfield®	0.5	0.5	R	BrettYoung

■ 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 **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

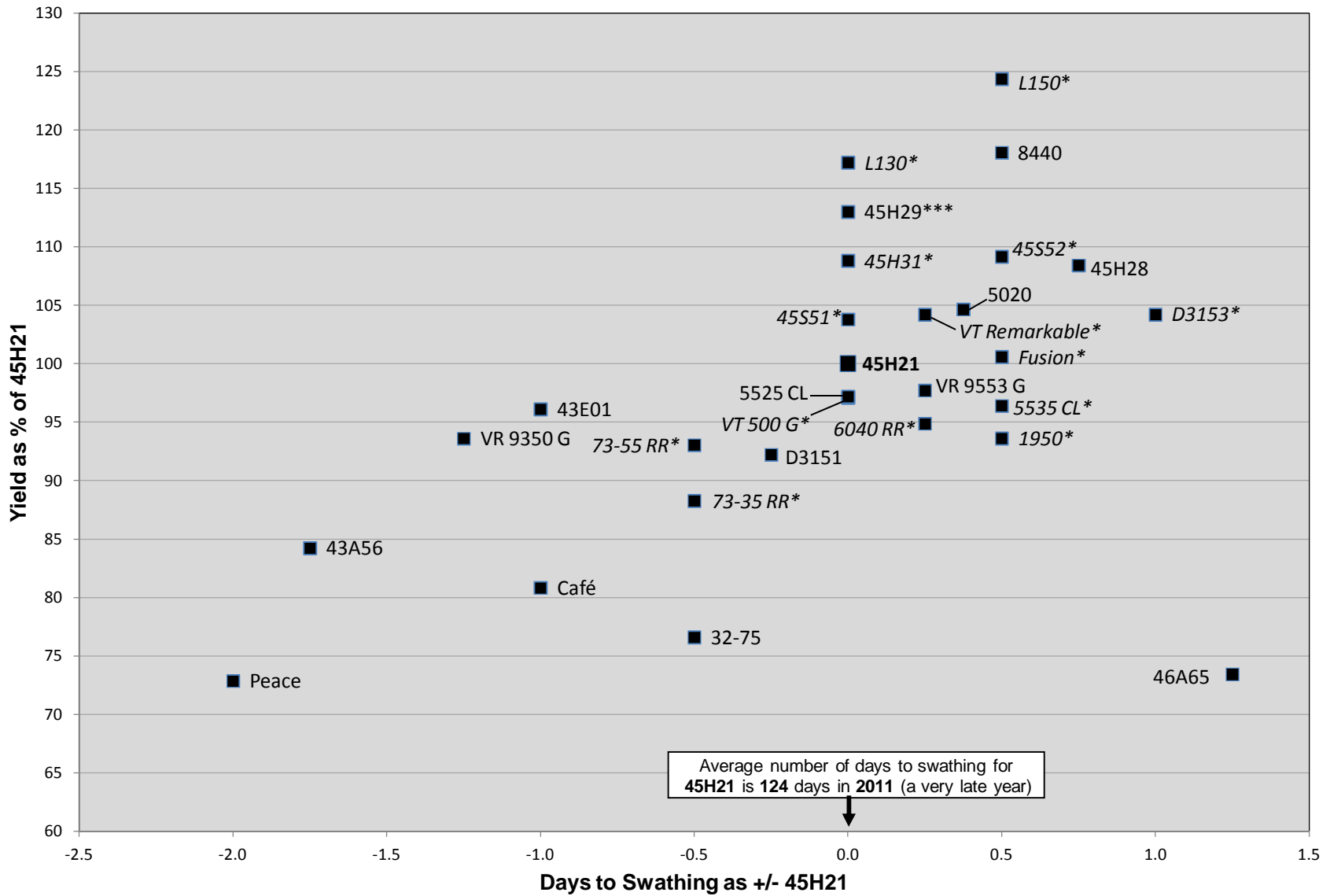
<sup>1</sup>For full description of "Days to swathing" see page 23.

Δ = not currently registered

\*\* specialty oil

\*\*\* Club-root Resistance

## Argentine Canola Variety Performance 2011



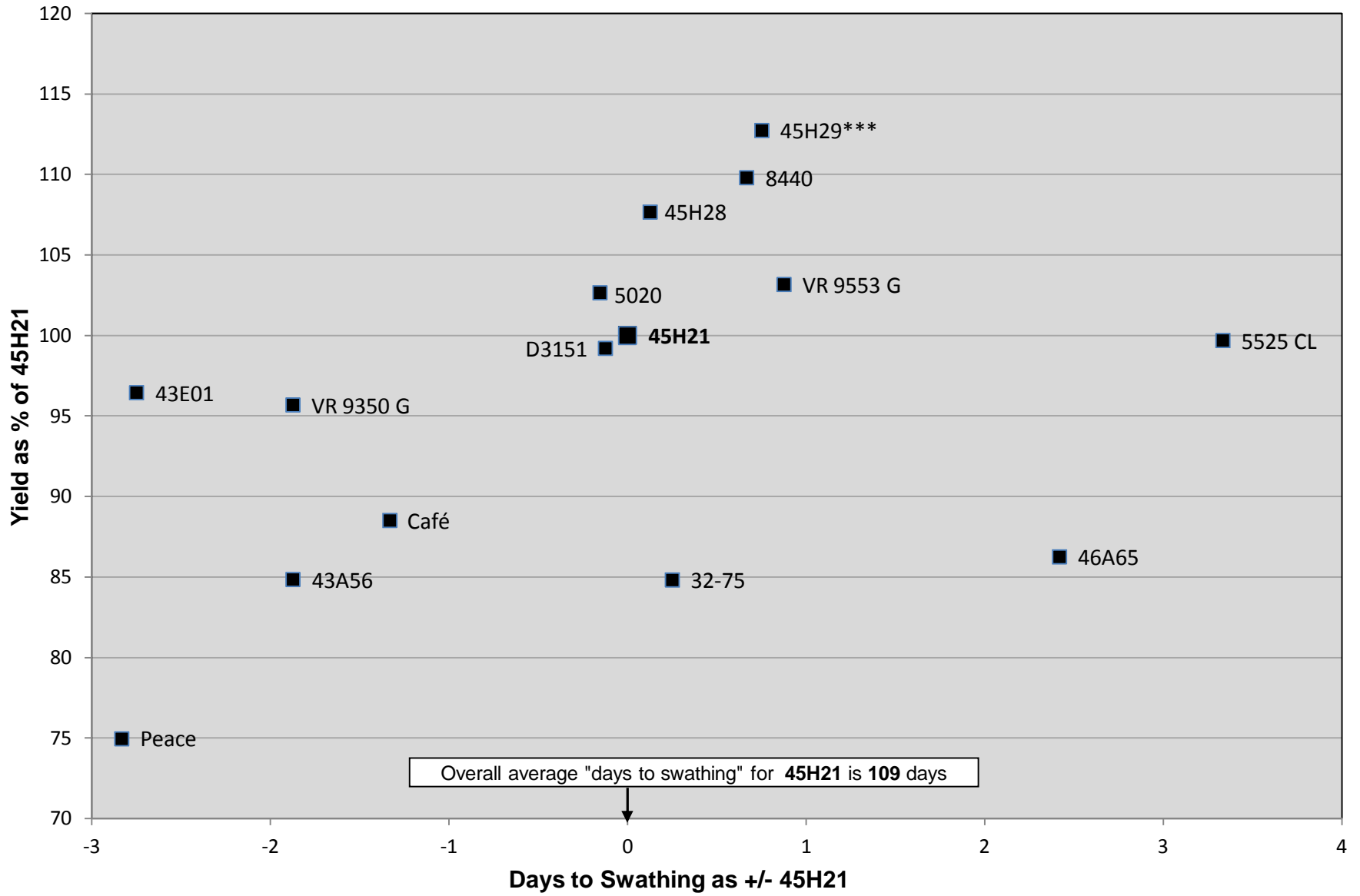
\*\*\* Club-root Resistance

\* first year tested materials

# Argentine Canola

# Variety Performance

# 2006-2011



\*\*\* 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.

Canola Performance Trial (CPT)					B.C. Peace Sites				2011
Variety	Type	Herbicide Tolerance	Dawson Creek		Fort St. John		B.C. Peace		Distributor
			2011		2011		2011 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>									
5525CL	HYB	Clearfield®	98 a-d	122.5	67 b-g	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
<b>LibertyLink® herbicide tolerant system</b>									
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
<b>Roundup Ready® herbicide tolerant system</b>									
6060 RR	HYB	Roundup Ready®	113 a	123.7	69 a-e	124.2	91	123.9	Brett Young
1970	HYB	Roundup Ready®	108 abc	123.8	67 b-g	123.7	87	123.8	Canterra Seeds
v1040 **	HYB	Roundup Ready®	105 abc	124.8	68 a-f	123.5	86	124.2	Cargill
V12-1 **	HYB	Roundup Ready®	104 abc	123.8	72 a-d	123.7	88	123.8	Cargill
94H04	HYB	Roundup Ready®	95 bcd	121.8	59 g	122.5	77	122.2	FP Genetics
73-45 RR	HYB	Roundup Ready®	99 a-d	121.8	64 b-g	122.3	81	122.1	Monsanto
73-55 RR	HYB	Roundup Ready®	95 bcd	121.7	66 b-g	122.3	81	122.0	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-g	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)			9.62		5.29				
'Standard Deviation			6.80		3.74				
'CV			6.75		5.6				

- Protection by Plant Breeders' Rights
- △ not currently registered

OP = open pollinated, SYN = synthetic, HYB = hybrid  
Caution, one year data so very limited data

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LibertyLink® is a registered trademark of Bayer CropScience  
Clearfield® is a registered trademark of BASF

\*\* specialty oil  
\*\*\* Club-root Resistance

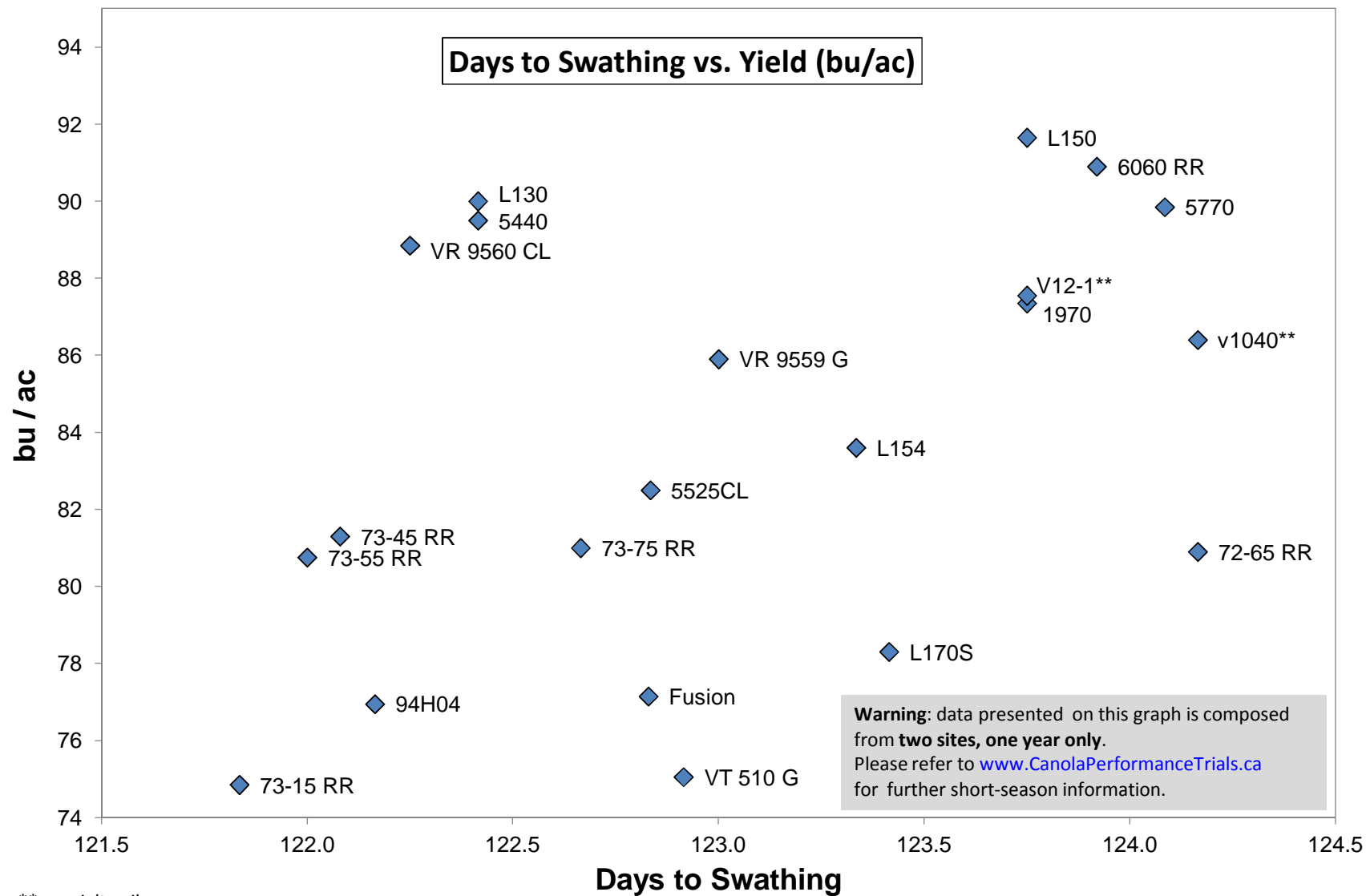
The following description of the CPT trials provided by: [seed.ab.ca](http://seed.ab.ca), Winter 2011 publication.

**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.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 2011 is 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      2011**



\*\* specialty oil