

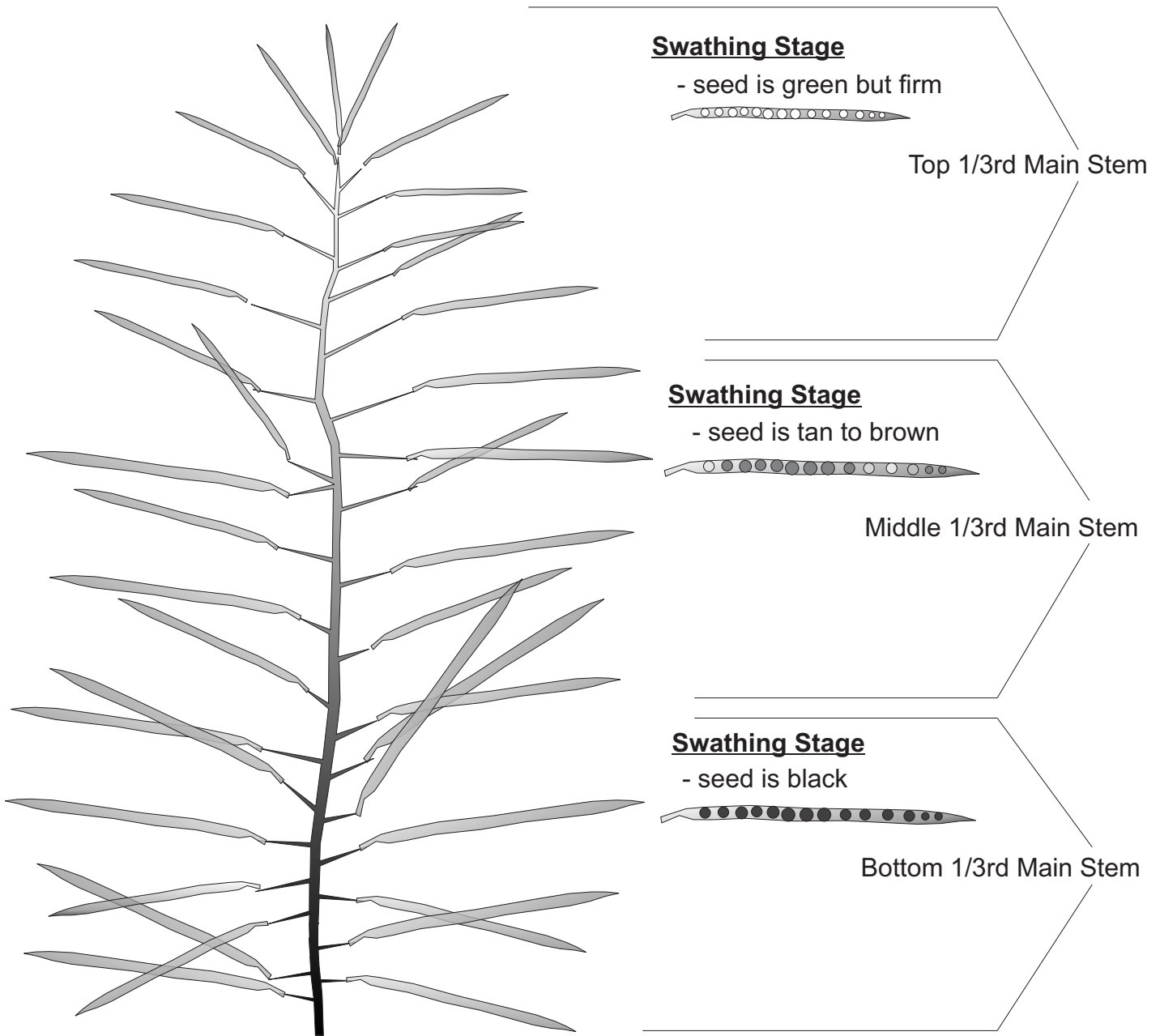
Funding for this project has been provided by Agriculture and Agri-Food Canada through the Canadian Agricultural Adaptation Program (CAAP). In British Columbia, this program is delivered by the Investment Agriculture Foundation of BC.

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.



2013 Crop Pest Status in the BC Peace Region



Ministry of
Agriculture

Clubroot of canola: 2013 saw an expansion of the number of infected fields in Alberta and Saskatchewan. So far clubroot has NOT been found in the BC Peace. For an informative video on how the infection works watch http://archive.canola-council.org/clubroot/news_list.aspx

Although progress is being made in breeding varieties with some resistance to the disease, it is still far better to not have the organism 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 2013 can be seen at the following link [http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/prm14661](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/prm14661) 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://archive.canola-council.org/clubroot/control_clubroot.aspx#prevent. 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.

Sclerotinia: 2013 saw an increase in sclerotinia presence in the Peace, producers growing canola on canola should be extra alert with crop monitoring in 2014 if it is another wet year.

Wheat Midge: The wheat midge forecast for 2014 indicates a large increase for midge risk in the Eastern Peace River area ([http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/prm14667](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/prm14667)); this could have some implications for the BC Peace too. Producers should pay attention to midge downgrading in their wheat samples and use this as a further indication of midge risk in their fields. Individual fields throughout Alberta may still have economic levels of midge. Each producer also needs to assess their risk based on indicators specific to their farm.

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. This should be something to consider in future. <http://www.canolawatch.org/2012/11/07/aster-yellows-qa/>

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> .

Julie Robinson, Agrologist, BC Ministry of Agriculture
Fort St John, BC
(250) 787-3241
julie.p.robinson@gov.bc.ca

Argentine Canola		Yield as % of 45H21								
Variety	Type	Dawson Creek			Fort St. John			B.C. Peace		
		2013	2008-2013		2013	2008-2013		2013	2008-2013	
		% of check	Avg. (%)	Stn. Yrs.	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
11N212R * Δ	Roundup Ready®	102	102	[1]	98	98	[1]	100	100	[2]
11N214R * Δ	Roundup Ready®	100	100	[1]	93	93	[1]	96	96	[2]
1918	Roundup Ready®	97	94	[2]	90	93	[2]	94	93	[4]
1990 *	Roundup Ready®	105	105	[1]	111	111	[1]	108	108	[2]
43E02	Roundup Ready®	93	98	[2]	93	96	[2]	93	97	[4]
45H21	Roundup Ready®	100	100	[8]	100	100	[10]	100	100	[18]
45H29 ***	Roundup Ready®	115	113	[5]	105	109	[5]	110	111	[10]
45H31	Roundup Ready®	111	106	[3]	111	110	[2]	111	108	[5]
45S52 ****	Roundup Ready®	112	106	[3]	107	110	[3]	110	108	[6]
45S54 *, ****	Roundup Ready®	119	119	[1]	110	110	[1]	115	115	[2]
5440	LibertyLink®	123	119	[5]	108	113	[5]	116	115	[10]
5525 CL	Clearfield®	101	102	[5]	94	97	[5]	97	99	[10]
5535 CL	Clearfield®	107	102	[3]	98	101	[3]	102	101	[6]
6040 RR	Roundup Ready®	101	100	[3]	97	96	[3]	99	98	[6]
6050 RR	Roundup Ready®	113	113	[2]	104	105	[2]	109	109	[4]
73-45 RR *	Roundup Ready®	111	111	[1]	108	108	[1]	110	110	[2]
74-44 BL *	Roundup Ready®	118	118	[1]	107	107	[1]	112	112	[2]
74-47 CR *, ***	Roundup Ready®	106	106	[1]	112	112	[1]	109	109	[2]
74-54 RR *, ***	Roundup Ready®	114	114	[1]	101	101	[1]	108	108	[2]
Café	Roundup Ready®	80	84	[3]	86	90	[4]	83	88	[7]
Fusion	Roundup Ready®	101	98	[3]	96	100	[3]	99	99	[6]
L120	LibertyLink®	119	114	[2]	111	110	[2]	115	112	[4]
L130	LibertyLink®	124	119	[3]	106	107	[3]	115	113	[6]
L150	LibertyLink®	117	84	[3]	116	115	[3]	116	117	[6]
L154 *	LibertyLink®	114	114	[1]	108	108	[1]	111	111	[2]
Peace	conventional	77	76	[4]	74	71	[4]	76	74	[8]
Rugby	Roundup Ready®	93	93	[3]	91	92	[4]	92	92	[7]
VR 9350 G	Roundup Ready®	98	94	[2]	96	97	[2]	97	95	[4]
VR 9559 G *	Roundup Ready®	111	111	[1]	106	106	[1]	108	108	[2]
VT 500 G	Roundup Ready®	100	98	[2]	106	102	[2]	103	100	[4]

45H21 - check variety

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

Δ = not currently registered

** specialty oil

*** Club-root Resistance, **** Sclerotinia 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 as combined LSD values cannot be shown for the entire group.

Coefficient of Variance (CV) values of the napus trials for 2013 were as follows: DC = 5.34, 4.45; FSJ = 7.51, 6.86 respectively.

Argentine Canola

Variety	Type	Herbicide Tolerance	B.C. Peace Avg.		Blackleg Rating (Data from Various info.)	Distributor
			Days to Swathing ¹ as +/- check			
			2013	2008-2013		
11N212R * Δ	HYB	Roundup Ready®	0.3	0.3	-	Pioneer Hi-Bred
11N214R * Δ	HYB	Roundup Ready®	0.3	0.3	-	Pioneer Hi-Bred
■ 1918	OP	Roundup Ready®	1.0	1.8	MR	Canterra Seeds
1990 *	HYB	Roundup Ready®	1.3	1.3	R	Canterra Seeds
43E02	HYB	Roundup Ready®	-2.8	-3.1	MR	Pioneer Hi-Bred
45H21	HYB	Roundup Ready®	0.0	0.0	MR	Pioneer Hi-Bred
45H29 ***	HYB	Roundup Ready®	0.0	0.6	R	Pioneer Hi-Bred
45H31	HYB	Roundup Ready®	1.8	1.5	R	Pioneer Hi-Bred
45S52 ****	HYB	Roundup Ready®	0.3	0.5	MR	Pioneer Hi-Bred
45S54 *, ****	HYB	Roundup Ready®	0.3	0.3	R	Pioneer Hi-Bred
5440	HYB	LibertyLink®	0.9	1.4	R	Bayer CropScience
5525 CL	HYB	Clearfield®	2.3	2.3	R	Brett Young
5535 CL	HYB	Clearfield®	0.0	0.4	R	Brett Young
6040 RR	HYB	Roundup Ready®	1.5	1.5	R	Brett Young
6050 RR	HYB	Roundup Ready®	0.5	1.3	R	Brett Young
73-45 RR *	HYB	Roundup Ready®	-1.5	-1.5	R	Dekalb
74-44 BL *	HYB	Roundup Ready®	-0.3	-0.3	R	Dekalb
74-47 CR *, ***	HYB	Roundup Ready®	1.0	1.0	R	Dekalb
74-54 RR *, ***	HYB	Roundup Ready®	-0.8	-0.8	R	Dekalb
■ Café	OP	Roundup Ready®	-3.8	-2.5	R	SeCan
Fusion	HYB	Roundup Ready®	-0.3	0.6	R	SeCan
L120	HYB	LibertyLink®	0.3	0.4	R	Bayer CropScience
L130	HYB	LibertyLink®	0.8	0.8	R	Bayer CropScience
L150	HYB	LibertyLink®	2.5	1.8	R	Bayer CropScience
L154 *	HYB	LibertyLink®	1.0	1.0	R	Bayer CropScience
■ Peace	OP	conventional	-4.3	-4.4	R	Crop Production Services
■ Rugby	OP	Roundup Ready®	0.5	0.5	R	SeCan
VR 9350 G	HYB	Roundup Ready®	-3.5	-2.4	MR	Crop Production Services
VR 9559 G *	HYB	Roundup Ready®	1.0	1.0	R	Crop Production Services
VT 500 G	HYB	Roundup Ready®	0.5	0.3	R	Crop Production Services

■ Protection by Plant Breeders' Rights

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

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Average 'days to swathing' for **45H21** is **110** days for **2013**

Overall average 'days to swathing' for **45H21** is **108** days for **2008-2013**

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

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

¹For full description of "Days to swathing" see page 23.

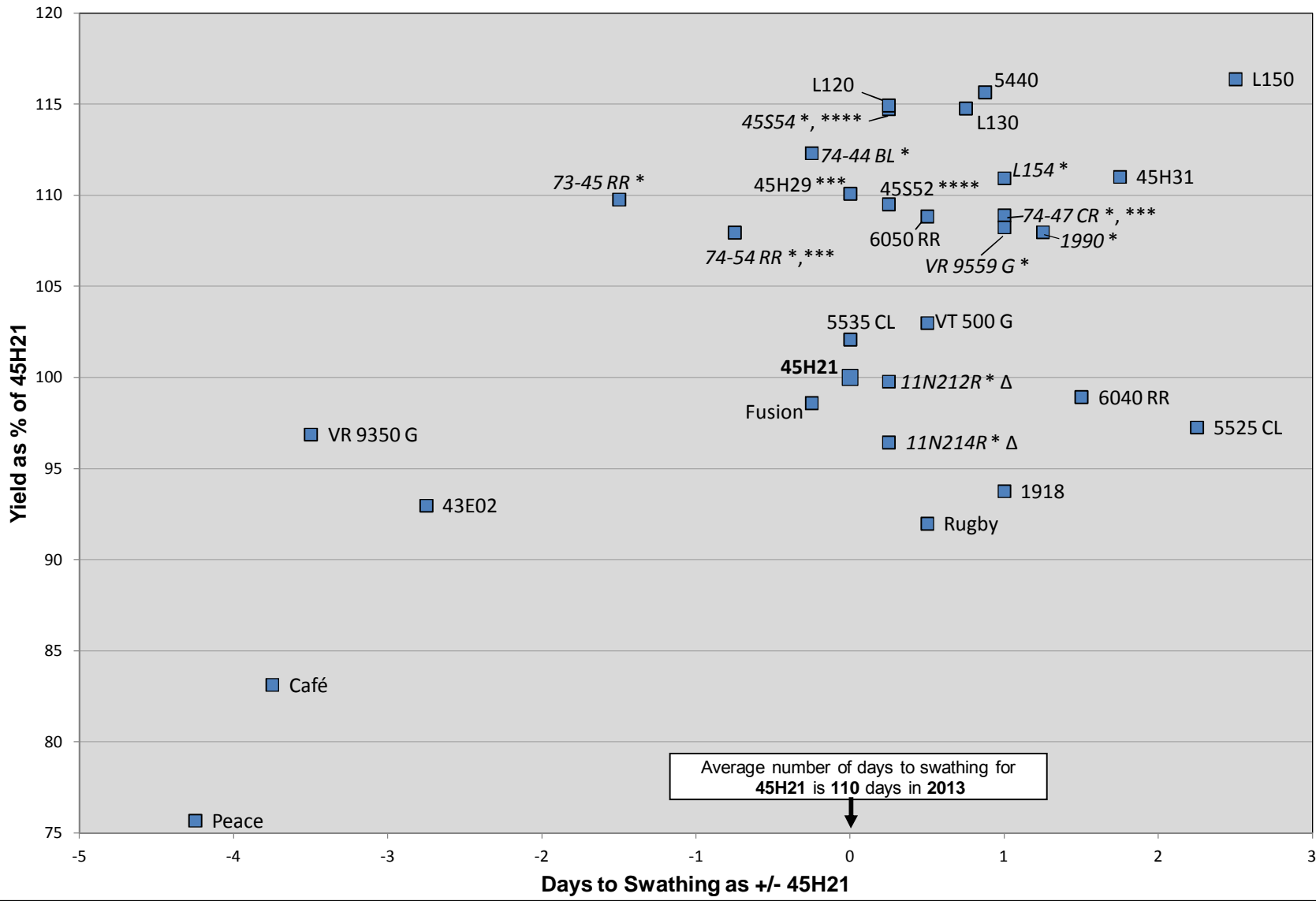
Δ = not currently registered

** specialty oil

*** Club-root Resistance

**** Sclerotinia Resistance

Argentine Canola Variety Performance 2013



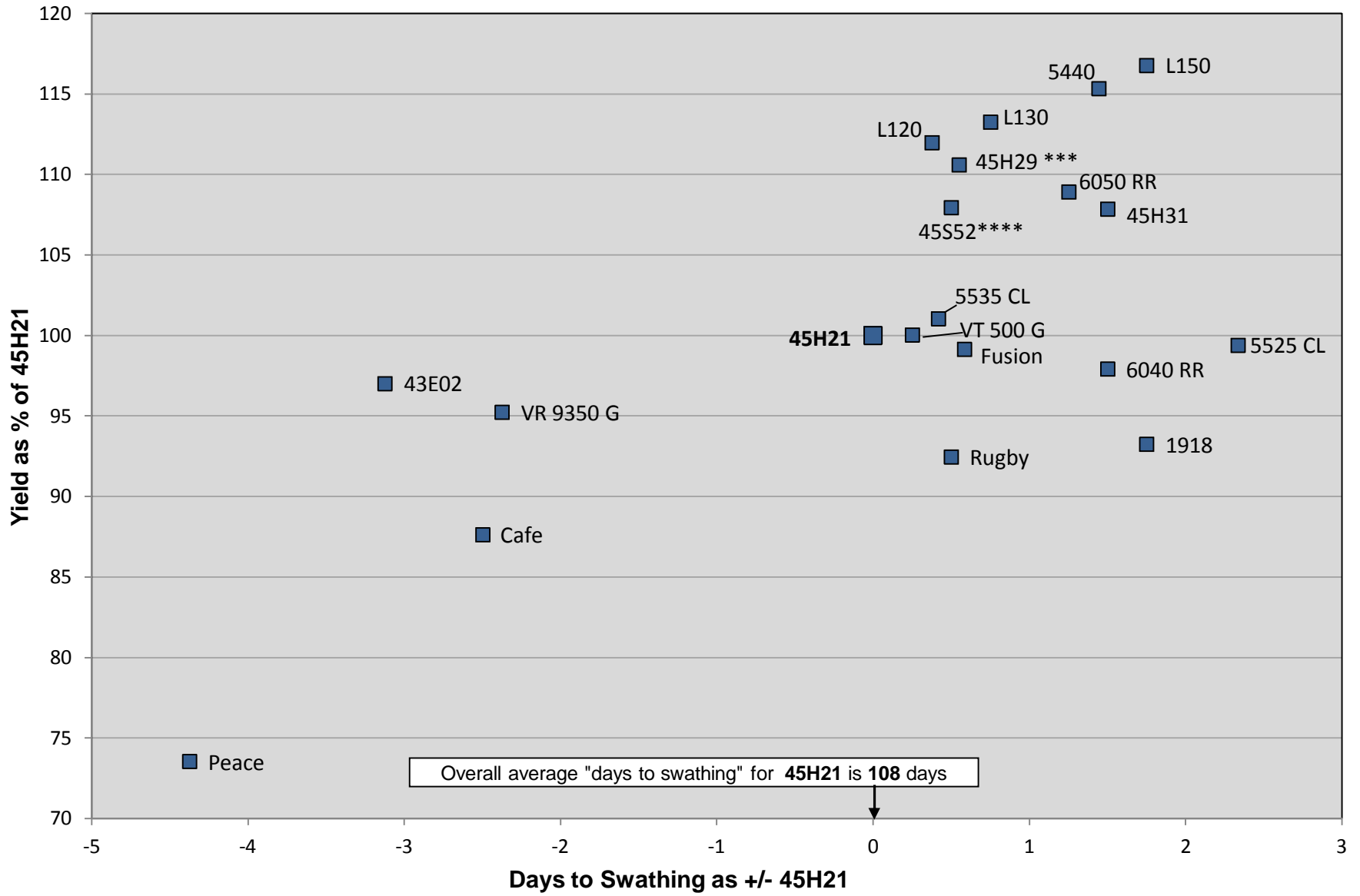
*** Club-root Resistance, **** Sclerotinia Resistance Δ = not currently registered * first year tested materials

Argentine Canola

Variety Performance

2008-2013

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*** Club-root Resistance, **** Sclerotinia Resistance

CANOLA

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

Please refer to www.CanolaPerformanceTrials.ca for further short-season information involving other CPT site results.

Canola Performance Trial (CPT)			B.C. Peace Sites						2013
Variety	Type	Herbicide Tolerance	Dawson Creek		Fort St. John		B.C. Peace		Distributor
			YIELD	Maturity	YIELD	Maturity	YIELD	Maturity	
			2013		2013		2013 Avg.		
			bu/ac	Days to	bu/ac	Days to	bu/ac	Days to	
Clearfield® herbicide tolerant system									
5525 CL	HYB	Clearfield®	91 abc	115.6	78 b-f	109.0	84	112	Brett Young
VR 9560 CL	HYB	Clearfield®	93 abc	116.4	89 abc	109.4	91	113	Crop Production Service
LibertyLink® herbicide tolerant system									
5440	HYB	LibertyLink®	97 ab	114.6	91 ab	108.0	94	111	Bayer CropScience
1CN0181 Δ	HYB	LibertyLink®	98 a	115.4	96 a	109.4	97	112	Bayer CropScience
1CN0053 Δ	HYB	LibertyLink®	93 abc	115.9	80 b-f	108.9	87	112	Bayer CropScience
L130	HYB	LibertyLink®	95 ab	114.6	86 a-e	107.9	90	111	Bayer CropScience
L154	HYB	LibertyLink®	95 abc	115.6	86 a-d	108.4	90	112	Bayer CropScience
L159	HYB	LibertyLink®	90 abc	115.6	91 ab	108.4	91	112	Bayer CropScience
Roundup Ready® herbicide tolerant system									
73-45 RR	HYB	Roundup Ready®	92 abc	115.5	79 b-f	107.5	86	112	Dekalb
6060 RR	HYB	Roundup Ready®	81 abc	116.5	75 b-f	108.1	78	112	Brett Young
6050 RR	HYB	Roundup Ready®	84 abc	115.5	68 def	108.3	76	112	Brett Young
11DL30103 Δ	HYB	Roundup Ready®	92 abc	115.5	72 c-f	108.5	82	112	Brett Young
1990	HYB	Roundup Ready®	88 abc	115.5	82 a-f	108.4	85	112	Canterra Seeds
V12-1**	HYB	Roundup Ready®	94 abc	115.9	81 b-f	109.4	87	113	Cargill Specialty Oil
V12-2**	HYB	Roundup Ready®	85 abc	116.4	68 ef	109.0	76	113	Cargill Specialty Oil
09H7757 Δ	HYB	Roundup Ready®	87 abc	116.8	74 b-f	109.1	80	113	Cargill Specialty Oil
DL30109 Δ	HYB	Roundup Ready®	77 c	115.6	67 f	108.0	72	112	DL Seeds
DL30509 Δ	HYB	Roundup Ready®	84 abc	116.6	73 c-f	109.5	78	113	DL Seeds
73-75 RR	HYB	Roundup Ready®	79 bc	115.1	74 b-f	106.8	77	111	Dekalb
74-44 BL	HYB	Roundup Ready®	93 abc	114.1	75 b-f	107.4	84	111	Dekalb
74-47 CR ***	HYB	Roundup Ready®	94 abc	115.0	74 b-f	108.6	84	112	Dekalb
74-54 RR ***	HYB	Roundup Ready®	86 abc	115.4	76 b-f	108.1	81	112	Dekalb
SY4114	HYB	Roundup Ready®	81 abc	113.8	74 b-f	107.1	78	110	Syngenta
SY4135	HYB	Roundup Ready®	92 abc	115.0	77 b-f	108.4	85	112	Syngenta
VR 9562 GC	HYB	Roundup Ready®	93 abc	114.8	77 b-f	108.0	85	111	Crop Production Service
VT 530 G	HYB	Roundup Ready®	90 abc	115.6	71 c-f	107.9	80	112	Crop Production Service
73-15 RR	HYB	Roundup Ready®	87 abc	113.5	72 c-f	105.9	80	110	Dekalb
LSD (P=.05)			9.90		9.86				
Standard Deviation			7.00		6.97				
CV			7.84		8.93				

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** specialty oil

*** Club-root Resistance

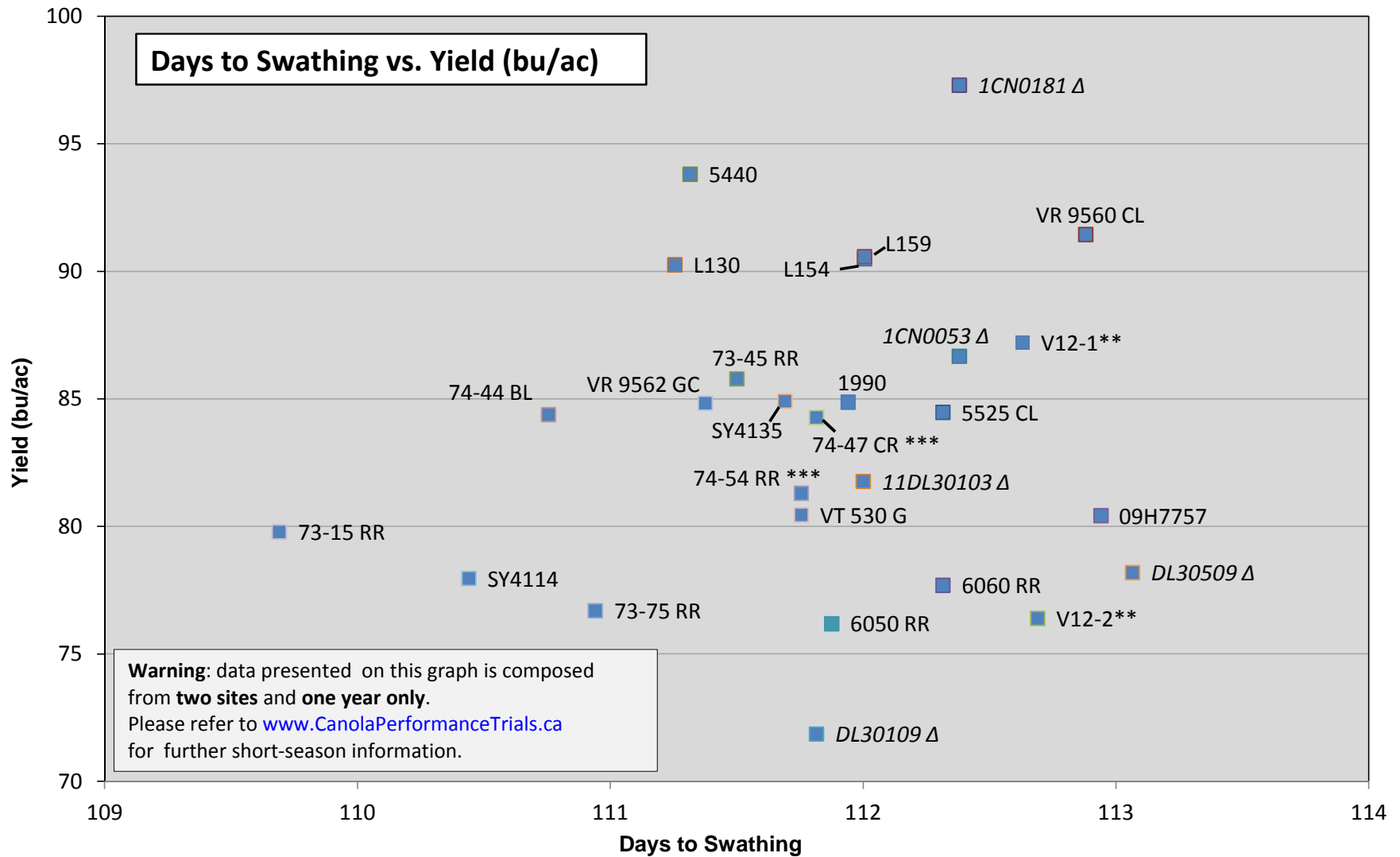
The following description of the CPT trials was provided by: seed.ab.ca publication. Italics are minor changes by BCGPA to reflect current situation.

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, plus in 2013 a few unregistered lines that were supported for registration. The post-registration Canola Performance Trial (CPT) testing starting back 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, 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 2013, 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

Canola Performance Trial (CPT) B.C. Peace Sites 2013



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

Δ not currently registered

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*** Club-root Resistance