Funding for this project has been provided by Agriculture and Agri-Food Canada (AAFC) and the BC Ministry of Agriculture through the Canada-BC Agri-Innovation Program under *Growing Forward 2*, a federal-provincial-territorial initiative. The program is delivered by the Investment Agriculture Foundation of BC (IAF).

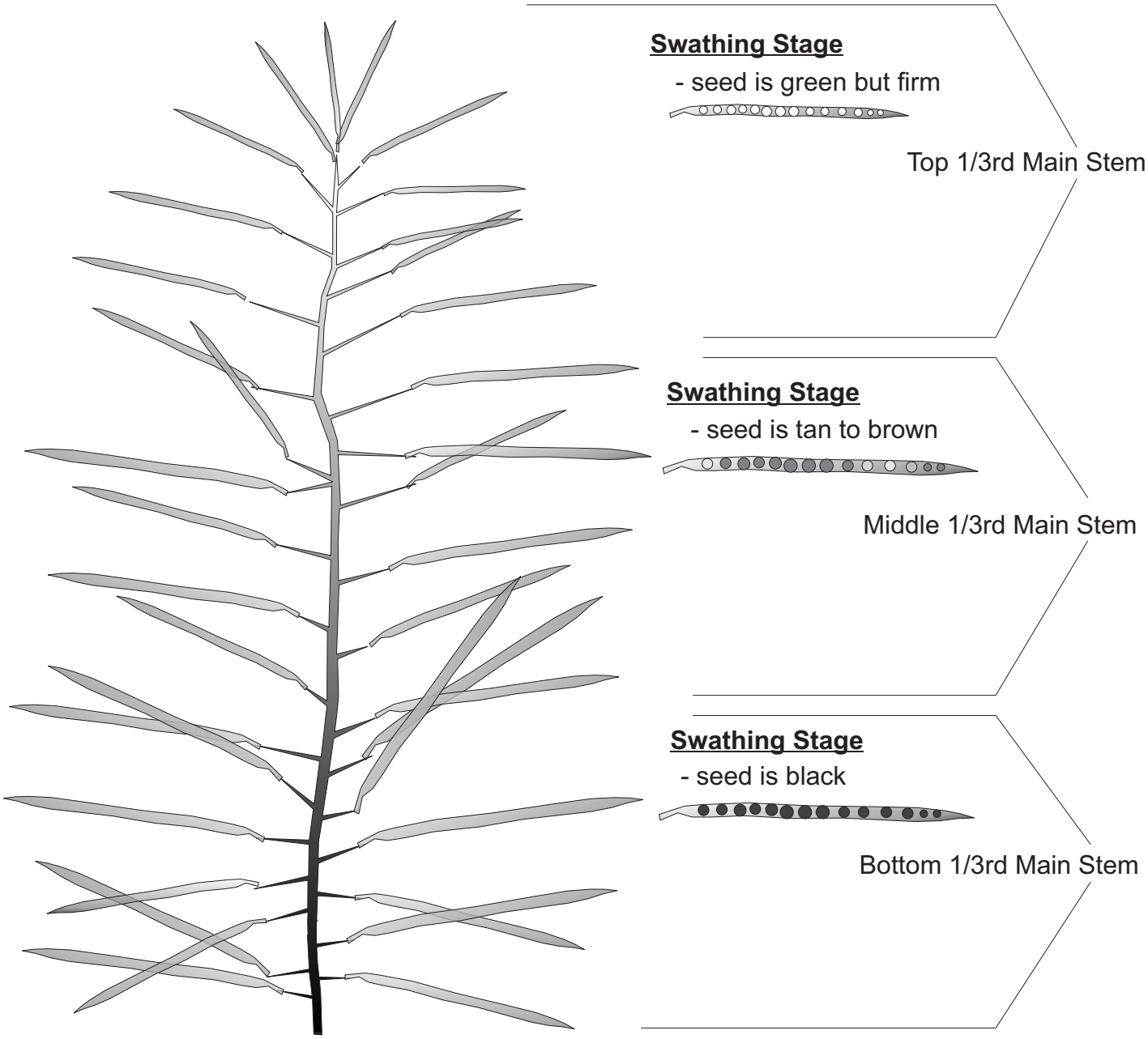
Additional funding was provided by Western Grains Research Foundation (WGRF) and the BC Peace River Grain Industry Development Council.

AAFC, the BC Ministry of Agriculture, IAF and WGRF are 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, the Ministry of Agriculture IAF or WGRF.

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.



2014 Crop Pest Status in the BC Peace Region

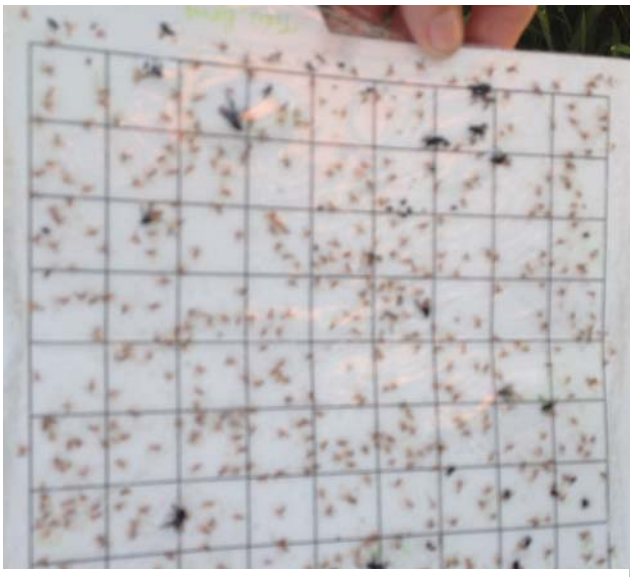
Grasshoppers of 2014…

2014 saw a phenomenal population of grasshoppers that impacted both cereal and broadleaf crops significantly. This forced our producers to brush up on their insect knowledge. Some key learning points for everyone included:

1. Species identification: Which species is it? The *two striped* (on the top right photo) moves in from the edges of fields and allows for different options like a localized insecticide treatment. It is often more of an issue for canola than other species of grasshopper are for canola. Or is it a species like the *migratory grasshopper* (right bottom photo) which tends to utilize the whole field for a habitat. Then again it could be the *slant-faced* grasshopper which does not normally create a concern for producers as it does not normally cause a significant crop loss.

2. Timing for checking and spraying of pests: For grasshopper, producers need to be out in their fields in early June looking for threshold numbers of at least 10-15/m^2 - if you can get them to stand still☺. Spray them at *early nymph stage* (mid June), as by the time they reach the 3-5 instars (visible veined wing-buds to expanding wing development stages - when they are doing the most damage) insecticide control is almost impossible.

Wheat Midge: This year wheat midge specimens were collected on some pheromone traps in the Bonanza area. Producers did not see high enough levels to merit treatment this year but they need to keep an eye out in 2015, especially on fields that will be in their second consecutive year of wheat. The *B.C. Peace River Pest Monitoring Program* ran by Arlan Benn will continue to monitor this situation and keep producers up to speed for the 2015 growing season.



Above is a picture of a pheromone trap from Falher, AB that indicates high level presence of Wheat Midge. The Bonanza location had 7 midges on the whole trap over 4 days. The midge are the smaller dots (insects) on the trap.

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 5525CL

Variety	Type	Dawson Creek 2014 % of check	Dawson Creek 2009-2014 Avg. (%)	Dawson Creek 2009-2014 Stn. Yrs.	Fort St. John 2014 % of check	Fort St. John 2009-2014 Avg. (%)	Fort St. John 2009-2014 Stn. Yrs.	B.C. Peace 2014 % of check	B.C. Peace 2009-2014 Avg. (%)	B.C. Peace 2009-2014 Stn. Yrs.
1918	Roundup Ready®	95	93	[3]	90	95	[3]	93	94	[6]
1990	Roundup Ready®	100	102	[2]	97	108	[2]	99	105	[4]
43E02	Roundup Ready®	90	94	[3]	70	90	[3]	80	92	[6]
5440	LibertyLink®	111	114	[6]	110	112	[6]	110	113	[12]
*43E03 **	Roundup Ready®	96	96	[1]	94	94	[1]	95	95	[2]
45H21	Roundup Ready®	99	98	[5]	90	101	[5]	95	100	[10]
45H29 ***	Roundup Ready®	102	110	[6]	96	110	[6]	99	110	[12]
45H31	Roundup Ready®	102	103	[4]	97	111	[4]	99	107	[8]
*45H33 **	Roundup Ready®	105	105	[1]	94	94	[1]	99	99	[2]
45S52 ****	Roundup Ready®	96	102	[4]	79	106	[4]	88	104	[8]
*45S56 **, ****	Roundup Ready®	98	98	[1]	93	93	[1]	96	96	[2]
5525 CL	Clearfield®	100	100	[5]	100	100	[5]	100	100	[10]
5535 CL	Clearfield®	96	99	[4]	106	106	[4]	101	102	[8]
*6044 RR **	Roundup Ready®	104	104	[1]	98	98	[1]	101	101	[2]
6050 RR	Roundup Ready®	114	112	[3]	102	107	[3]	108	109	[6]
*73-15 RR **	Roundup Ready®	105	105	[1]	90	90	[1]	97	97	[2]
73-45 RR	Roundup Ready®	120	115	[2]	95	105	[2]	107	110	[4]
74-44 BL	Roundup Ready®	111	114	[2]	103	109	[2]	107	111	[4]
74-54 RR ***	Roundup Ready®	103	109	[2]	107	107	[2]	105	108	[4]
Café	Roundup Ready®	94	85	[4]	66	81	[4]	80	83	[8]
*CS2000 * Δ*	Roundup Ready®	106	106	[1]	103	103	[1]	104	104	[2]
Fusion	Roundup Ready®	92	95	[4]	92	102	[4]	92	99	[8]
L120	LibertyLink®	109	111	[3]	102	111	[3]	105	111	[6]
L130	LibertyLink®	115	117	[4]	109	112	[4]	112	114	[8]
*L140P **	LibertyLink®	112	112	[1]	103	103	[1]	108	108	[2]
*L252 **	LibertyLink®	118	118	[1]	126	126	[1]	122	122	[2]
*PV 530G **	Roundup Ready®	111	111	[1]	109	109	[1]	110	110	[2]
*PV 531 G **	Roundup Ready®	105	105	[1]	91	91	[1]	98	98	[2]
Rugby	Roundup Ready®	86	89	[4]	64	85	[4]	75	87	[8]
VR 9350 G	Roundup Ready®	93	93	[3]	76	94	[3]	85	94	[6]
VR 9559 G	Roundup Ready®	108	109	[2]	84	99	[2]	96	104	[4]
VT 500G	Roundup Ready®	99	98	[3]	96	104	[3]	97	101	[6]

5525 CL - check variety

* caution, first year tested and/or very limited data available
Δ = not currently registered
** specialty oil
*** Club-root Resistance, **** Sclerotinia Resistance

Note: "System Varieties" (Clearfield®, Roundup Ready®, or LibertyLink®) are grown together with all other napus varieties. Data is compiled from two or three separate napus trials (depending on the year) per site per year with a common check, and as such, conventional herbicides are used for weed control. (See page 6 for herbicides used). However, by combining trials to produce the chart above, it is improper to disclose any LSD values from the newly combined set of yield results per site. This is simply because the individual trials were first analyzed as separate trials per site.

Coefficient of Variance (CV) values of the napus trials for original raw yield data in 2014 is as follows:
DC = 10.39%, 8.86%; FSJ = 7.72%, 8.87% respectively.

Argentine Canola

	Variety	Type	Herbicide Tolerance	B.C. Peace Avg. Days to Swathing[1] as +/- check 2014	B.C. Peace Avg. Days to Swathing[1] as +/- check 2009-2014	Blackleg Rating (Data from Canola Council of Canada)	Distributor
■	1918	OP	Roundup Ready®	0.0	-0.5	MR	Canterra Seeds
	1990	HYB	Roundup Ready®	-0.9	-1.0	R	Canterra Seeds
	43E02	HYB	Roundup Ready®	-0.1	-4.0	MR	Pioneer Hi-Bred
	5440	HYB	LibertyLink®	-1.7	-1.8	R	Bayer CropScience
	43E03 *	HYB	Roundup Ready®	-1.5	-1.5	MR	Pioneer Hi-Bred
	45H21	HYB	Roundup Ready®	-0.8	-2.2	MR	Pioneer Hi-Bred
	45H29 ***	HYB	Roundup Ready®	-1.3	-2.0	R	Pioneer Hi-Bred
	45H31	HYB	Roundup Ready®	-1.0	-0.6	R	Pioneer Hi-Bred
	45H33 *	HYB	Roundup Ready®	-2.0	-2.0	R	Pioneer Hi-Bred
	45S52 ****	HYB	Roundup Ready®	-0.9	-1.3	MR	Pioneer Hi-Bred
	45S56 *, ****	HYB	Roundup Ready®	-4.9	-4.9	MR	Pioneer Hi-Bred
	5525 CL	HYB	Clearfield®	0.0	0.0	R	Brett Young Seeds Ltd.
	5535 CL	HYB	Clearfield®	-0.8	-1.1	R	Brett Young Seeds Ltd.
	6044 RR *	HYB	Roundup Ready®	-0.3	-0.3	R	Brett Young Seeds Ltd.
	6050 RR	HYB	Roundup Ready®	-1.2	-1.2	R	Brett-Young Seeds Ltd.
	73-15 RR *	HYB	Roundup Ready®	-1.0	-1.0	MR	Dekalb
	73-45 RR	HYB	Roundup Ready®	-1.0	-2.4	R	Dekalb
	74-44 BL	HYB	Roundup Ready®	0.0	-1.3	R	Dekalb
	74-54 RR ***	HYB	Roundup Ready®	-0.3	-1.6	R	Dekalb
■	Café	OP	Roundup Ready®	-1.3	-3.1	R	SeCan
	CS2000 * Δ	HYB	Roundup Ready®	0.2	0.2		Canterra Seeds
	Fusion	HYB	Roundup Ready®	-1.5	-1.4	R	SeCan
	L120	HYB	LibertyLink®	-0.8	-1.8	R	Bayer CropScience
	L130	HYB	LibertyLink®	0.5	-0.8	R	Bayer CropScience
	L140P *	HYB	LibertyLink®	0.3	0.3	R	Bayer CropScience
	L252 *	HYB	LibertyLink®	0.5	0.5	R	Bayer CropScience
	PV 530G *	HYB	Roundup Ready®	0.3	0.3	MR	Crop Production Services
	PV 531 G *	HYB	Roundup Ready®	1.8	1.8	R	Crop Production Services
■	Rugby	OP	Roundup Ready®	-0.8	-1.8	R	SeCan
	VR 9350 G	HYB	Roundup Ready®	-3.0	-3.3	MR	Crop Production Services
	VR 9559 G	HYB	Roundup Ready®	2.0	0.4	R	Crop Production Services
	VT 500G	HYB	Roundup Ready®	-0.5	-0.8	R	Crop Production Services

■ Protection by Plant Breeders' Rights

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

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

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

[1]For full description of "*Days to swathing*" see page 23

Δ = not currently registered

** specialty oil

*** Club-root Resistance

**** Sclerotinia Resistance

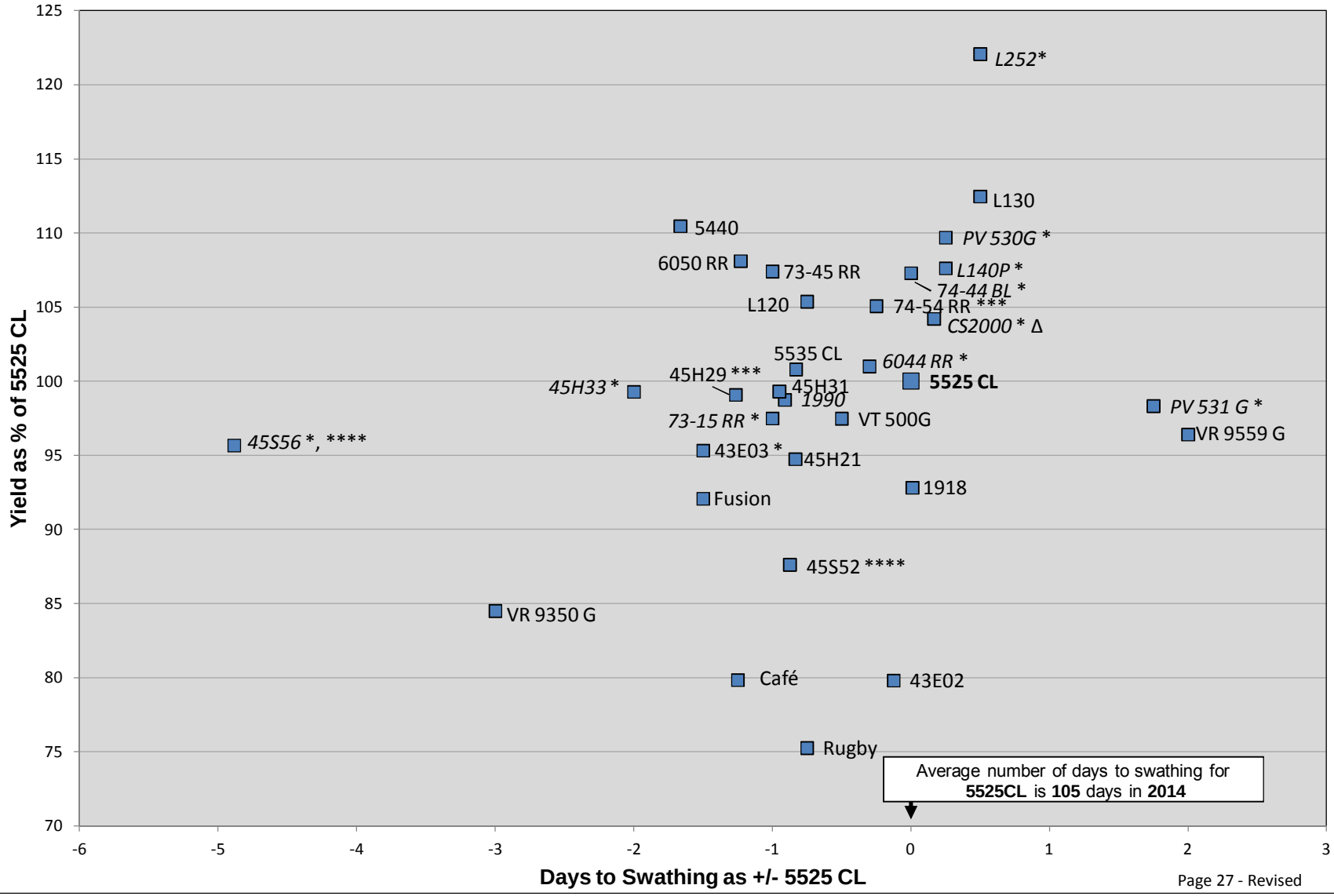
Average 'days to swathing' for **5525CL** is **105** days for **2014**

Overall average 'days to swathing' for **5525CL** is **109** days for **2009-2014**

For reference only, the average 'days to swathing' for old check **45H21** is **107** days for **2014**

For reference only, overall average 'days to swathing' for old check **45H21** is **107** days for **2009-2014**

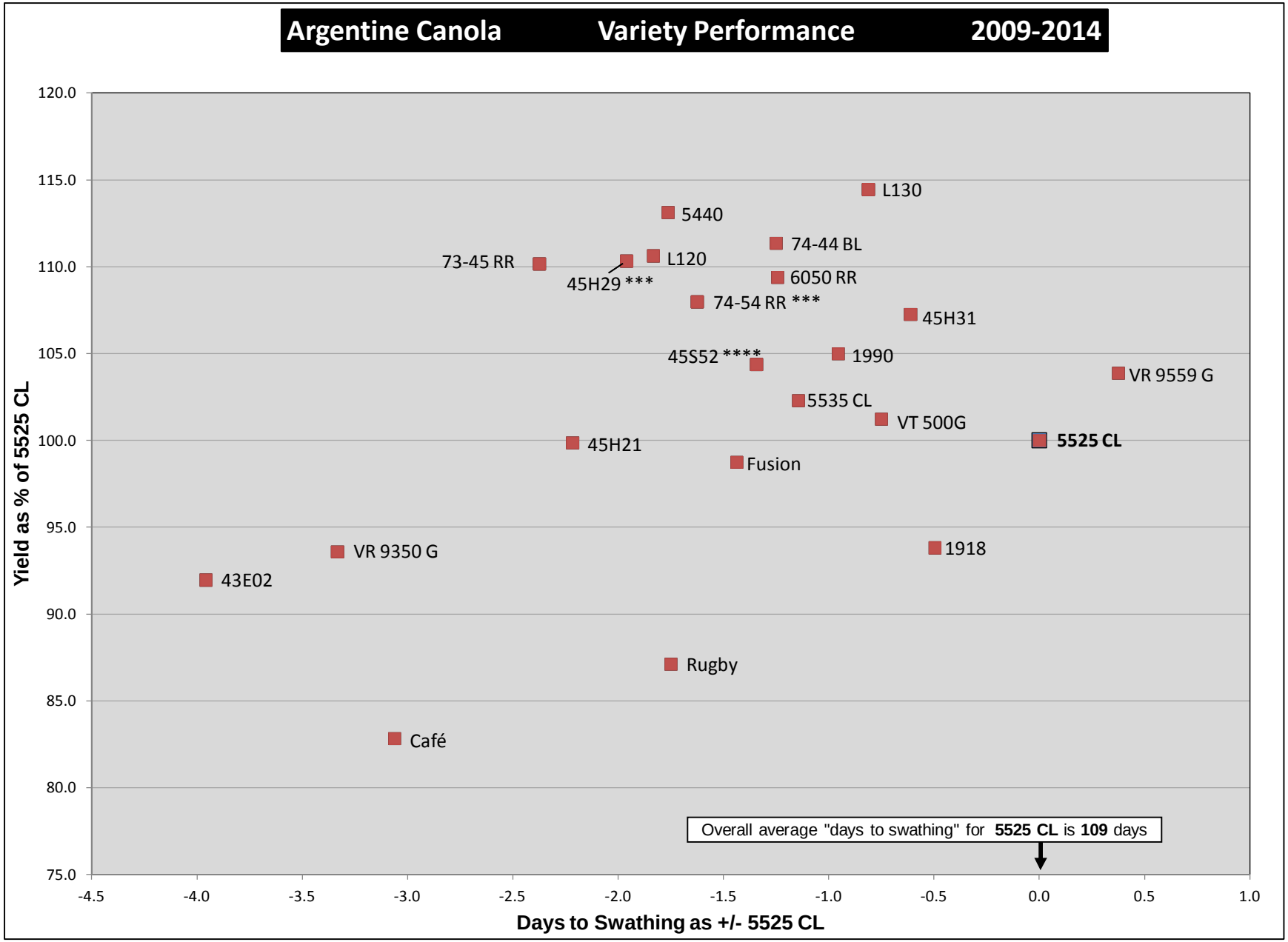
Argentine Canola Variety Performance 2014



*** Club-root Resistance, **** Sclerolinia Resistance

Δ = not currently registered

* first year tested materials



*** Club-root Resistance, **** Sclerolinia Resistance

CANOLA

Warning: data presented below is composed from two sites and one year only. For longer term results see data on page 25, 26 & 28.

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

Canola Performance Trial (CPT) — B.C. Peace Sites — 2014

Variety	Type	Herbicide Tolerance	Dawson Creek 2014 YIELD bu/ac	Dawson Creek 2014 Maturity Days to	Fort St. John 2014 YIELD bu/ac	Fort St. John 2014 Maturity Days to	B.C. Peace 2014 Avg. YIELD bu/ac	B.C. Peace 2014 Avg. Maturity Days to	Distributor
Clearfield® herbicide tolerant system									
5525CL	HYB	Clearfield®	71.5 abc	106.7	52.9 b-e	101.5	62.2	104.1	Growers group
VR 9560 CL	HYB	Clearfield®	74.3 abc	107.8	49.3 c-g	101.8	61.8	104.8	CPS
LibertyLink® herbicide tolerant system									
5440	HYB	LibertyLink®	74.8 abc	106.3	56.2 abc	100.5	65.5	103.4	Growers group
L130	HYB	LibertyLink®	74.2 abc	105.5	47.4 d-h	100.0	60.8	102.8	Bayer
L252	HYB	LibertyLink®	82.0 ab	107.0	58.1 ab	101.0	70.0	104.0	Bayer
L261	HYB	LibertyLink®	78.1 abc	106.7	57.7 ab	101.8	67.9	104.3	Bayer
Roundup Ready® herbicide tolerant system									
6044 RR	HYB	Roundup Ready®	73.0 abc	107.2	46.8 d-h	101.3	59.9	104.3	BrettYoung
6060 RR	HYB	Roundup Ready®	69.0 bc	109.0	46.4 d-h	103.0	57.7	106.0	BrettYoung
10DL30509	HYB	Roundup Ready®	72.7 abc	108.7	48.2 d-g	103.0	60.4	105.8	BrettYoung
Canterra 1990Δ	HYB	Roundup Ready®	76.3 abc	108.0	52.1 b-f	101.7	64.2	104.8	Canterra
CS2000Δ	HYB	Roundup Ready®	77.1 abc	107.3	50.4 c-g	102.3	63.7	104.8	Canterra
V12-1**	HYB	Roundup Ready®	76.7 abc	107.8	50.5 c-g	101.5	63.6	104.7	Cargill
V12-2**	HYB	Roundup Ready®	74.2 abc	108.5	48.3 d-g	102.2	61.2	105.3	Cargill
09H7757Δ	HYB	Roundup Ready®	77.8 abc	108.8	53.9 bcd	102.5	65.8	105.7	Cargill
09H7763Δ	HYB	Roundup Ready®	77.0 abc	108.2	49.9 c-g	102.2	63.5	105.2	Cargill
08H0004Δ	HYB	Roundup Ready®	66.5 c	109.8	49.4 c-g	104.5	57.9	107.2	Cargill
11DL30318	HYB	Roundup Ready®	68.4 bc	108.0	41.4 h	101.2	54.9	104.6	DL Seeds
13DL30323Δ	HYB	Roundup Ready®	83.6 a	108.5	60.0 a	103.0	71.8	105.8	DL Seeds
SY4114	HYB	Roundup Ready®	76.3 abc	107.0	44.8 fgh	100.3	60.5	103.7	Syngenta
SY4135	HYB	Roundup Ready®	78.3 abc	107.3	48.7 d-g	99.8	63.5	103.6	Syngenta
VR 9562 GC	HYB	Roundup Ready®	74.5 abc	107.5	49.1 c-g	100.2	61.8	103.8	CPS
VT-SN 11-2786Δ	HYB	Roundup Ready®	74.9 abc	107.2	49.7 c-g	100.5	62.3	103.8	CPS
73-75 RR	HYB	Roundup Ready®	79.6 abc	107.2	50.3 c-g	100.8	65.0	104.0	Growers group
74-44 BL	HYB	Roundup Ready®	74.4 abc	108.2	45.6 e-h	101.2	60.0	104.7	Monsanto
74-54 RR***	HYB	Roundup Ready®	79.1 abc	107.5	49.6 c-g	100.2	64.3	103.8	Monsanto
73-15 RR	HYB	Roundup Ready®	69.8 abc	106.7	43.6 gh	100.0	56.7	103.3	Monsanto
LSD (P=.05)			7.52		4.15				
Standard Deviation			5.32		2.93				
CV			7.08		5.86				

■ Protection by Plant Breeders' Rights

Δ not currently registered

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

Caution, one year data

** specialty oil

*** Club-root Resistance

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

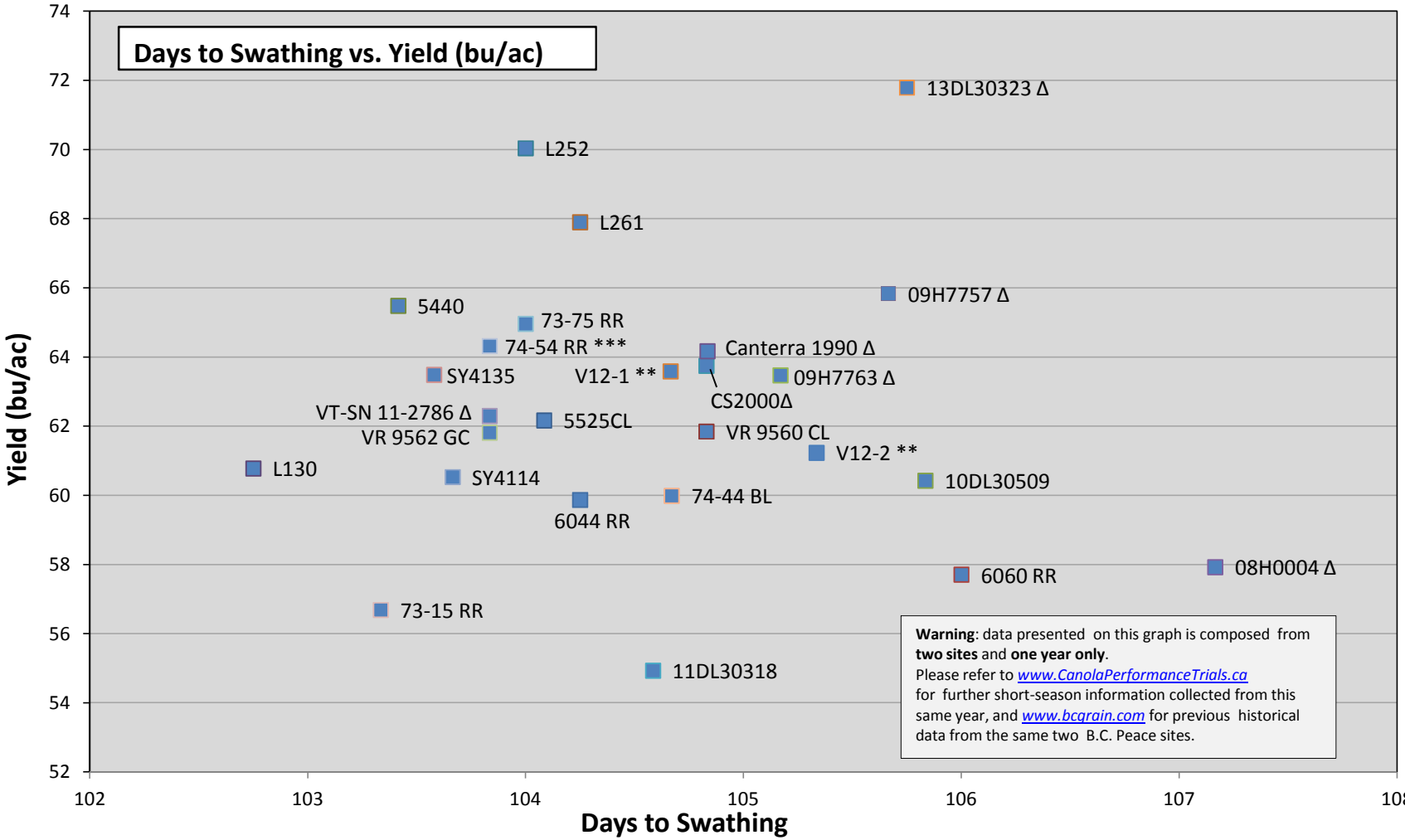
The following description of the CPT trials was provided by: **seed.ab.ca** publication. Italics are minor changes by BCGPA to reflect current situation.

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 *2014, plus in 2014 a few unregistered lines that were supported for registration that may be registered by spring 2015*. The post-registration Canola Performance Trial (CPT) testing *which startedback 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.Canola PerformanceTrials.ca*, but the best performance indicator is to compare varieties over multiple sites *and multiple years (see older reports)*. 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 *2014, 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 2014



Δ not currently registered ** specialty oil *** Club-root Resistance