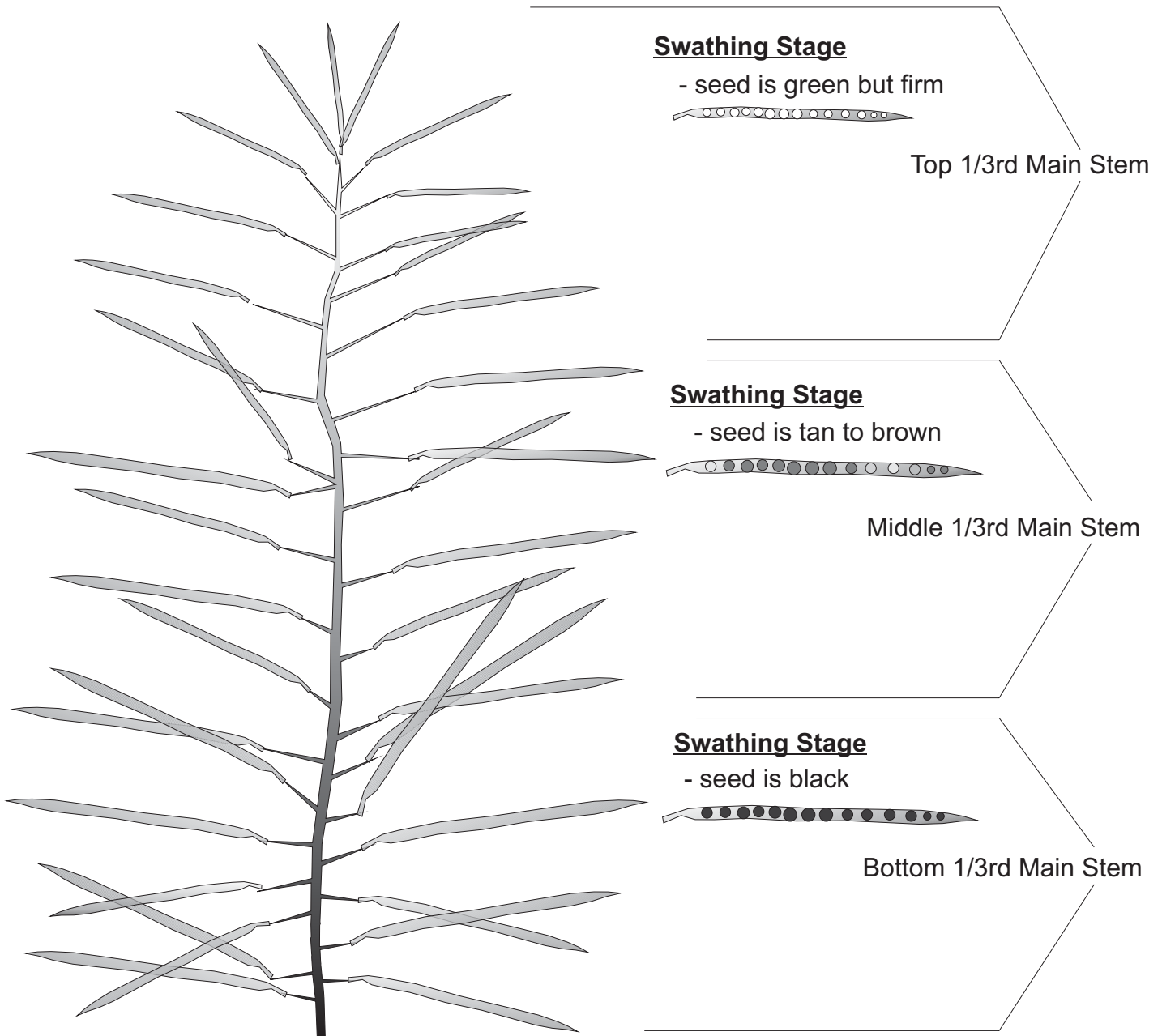


Definition of Canola Maturity Used In This Report

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.



Pests of Peace River Region Canola



Good News from 2009 is that soil samples from throughout the BC Peace were tested for clubroot of canola, and all were found clean of the disease. The samples from August 2009 were examined using the sensitive PCR test (for DNA) at the BC MAL Plant Diagnostic lab. As in the Olympics, a clean lab test can't be a guarantee of no problem, but so far 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. It is present in hundreds of fields in Alberta. The closest known infested fields are in the Edmonton area, but clubroot could easily be transferred from there to here, with a little bit of soil.

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 and Best Management Practices for Disinfesting Farm 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 BC MAL 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 last year's "Pest" article in this spot in the BCGPA Variety Trials book.

Contact the BC Agriculture office if you want more information about monitoring for or controlling these pests. Kerry.clark@gov.bc.ca *Crop Protection Specialist*

CANOLA

Argentine Canola		Yield as % of 45H21								
		Dawson Creek			Fort St. John			B.C. Peace		
Variety	Type	2009	2006-2009		2009	2006-2009		2009	2006-2009	
		% of check	Avg. (%)	Stn. Yrs.	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
46A65	conventional	83	93	[5]	80	85	[5]	81	86	[10]
Peace	conventional	82	82	[3]	70	69	[3]	76	77	[6]
1852H	Roundup Ready®	100	97	[2]	91	91	[2]	95	94	[4]
4362 RR	Roundup Ready®	94	95	[2]	89	93	[2]	92	94	[4]
43E01 *	Roundup Ready®	101	101	[1]	93	93	[1]	97	97	[2]
43H57	Roundup Ready®	93	86	[2]	89	87	[2]	91	87	[4]
4414 RR	Roundup Ready®	95	100	[2]	93	99	[3]	94	100	[5]
45H21	Roundup Ready®	100	100	[9]	100	100	[10]	100	100	[19]
45H25	Roundup Ready®	94	100	[3]	104	101	[3]	99	100	[6]
45H26	Roundup Ready®	109	112	[3]	104	107	[3]	106	108	[6]
45H28 *	Roundup Ready®	104	104	[1]	110	110	[1]	107	107	[2]
45H29 *, ***	Roundup Ready®	112	112	[1]	113	113	[1]	112	112	[2]
46P50	Roundup Ready®	110	119	[2]	109	115	[3]	110	117	[5]
6020 RR	Roundup Ready®	103	101	[2]	92	91	[2]	98	96	[4]
71-45 RR	Roundup Ready®	121	108	[3]	107	115	[3]	114	111	[6]
72-35 RR *	Roundup Ready®	92	92	[1]	93	93	[1]	93	93	[2]
9350 *	Roundup Ready®	103	103	[1]	92	92	[1]	98	98	[2]
93H01RR *	Roundup Ready®	95	95	[1]	96	96	[1]	96	96	[2]
9553 *	Roundup Ready®	108	108	[1]	109	109	[1]	109	109	[2]
997 RR	Roundup Ready®	94	95	[2]	83	93	[3]	88	94	[5]
Café	Roundup Ready®	85	87	[2]	85	90	[2]	85	89	[4]
D3150	Roundup Ready®	102	102	[1]	100	107	[2]	101	104	[3]
D3151	Roundup Ready®	107	107	[1]	101	101	[2]	104	104	[3]
H6087 Δ	Roundup Ready®	83	83	[1]	87	87	[1]	85	85	[2]
Rugby	Roundup Ready®	94	104	[2]	82	91	[2]	88	98	[4]
SP DESIRABLE RR	Roundup Ready®	96	103	[3]	99	96	[3]	97	99	[6]
5020	LibertyLink®	98	102	[7]	104	103	[7]	101	104	[14]
5030	LibertyLink®	110	117	[3]	96	109	[4]	103	115	[7]
5440	LibertyLink®	115	118	[2]	111	119	[2]	113	118	[4]
5770 *	LibertyLink®	102	102	[1]	105	106	[1]	103	103	[2]
8440	LibertyLink®	96	100	[2]	114	112	[2]	105	106	[4]
9590	LibertyLink®	106	107	[2]	112	115	[2]	109	111	[4]
PHS07-526 ** Δ	LibertyLink®	103	103	[1]	105	105	[1]	104	104	[2]
30423-C7 Δ	Clearfield®	101	101	[1]	94	94	[1]	97	97	[2]
45H73	Clearfield®	96	103	[3]	101	100	[3]	99	98	[6]
45P70	Clearfield®	98	104	[2]	100	104	[3]	99	104	[5]
5525 CL	Clearfield®	106	102	[2]	100	100	[2]	103	101	[4]

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 three napus trials with a common check) and thus, conventional herbicides are used for weed control. (See page 6 for herbicides used). However, combining the three 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 2009 were as follows: DC = 8.57, 9.94, 6.47 FSJ = 7.55, 6.85, 8.98

Argentine Canola

Variety Descriptions

Variety	Type	Herbicide Tolerance	B.C. Peace Avg.		Alberta	Canola	Distributor	
			Days to Swathing ¹		Agdex	Council of		
			as +/- check		100/32	Canada		
			2009	2006-2009	Lodging	Blackleg		
					0 = avr	Rating		
					+ = better			
■ 46A65	OP	conventional	4.0	3.0	0	R	Pioneer Hi-Bred	
■ Peace	OP	conventional	-4.5	-3.3	0	MR	Viterra/Proven	
1852H	HYB	Roundup Ready®	2.5	1.0	0	R	Canterra	
4362 RR	HYB	Roundup Ready®	2.5	1.5	0	MR	BrettYoung	
43E01 *	HYB	Roundup Ready®	-3.5	-4.5	-2	MR	Pioneer Hi-Bred	
43H57	HYB	Roundup Ready®	-3.0	-2.0	0	MR	Pioneer Hi-Bred	
4414 RR	HYB	Roundup Ready®	4.0	3.3	0	R	BrettYoung	
45H21	HYB	Roundup Ready®	0.0	0.0	0	R	Pioneer Hi-Bred	
45H25	HYB	Roundup Ready®	1.5	0.5	0	R	Pioneer Hi-Bred	
45H26	HYB	Roundup Ready®	-0.5	-1.0	0	R	Pioneer Hi-Bred	
45H28 *	HYB	Roundup Ready®	0.5	-0.5	0	R	Pioneer Hi-Bred	
45H29 *, ***	HYB	Roundup Ready®	1.0	1.5	XX	R	Pioneer Hi-Bred	
46P50	HYB	Roundup Ready®	4.0	4.3	0	R	Viterra/Proven	
6020 RR	HYB	Roundup Ready®	7.3	7.8	0	MR	BrettYoung	
71-45 RR	HYB	Roundup Ready®	3.5	2.3	0	MR	Monsanto	
72-35 RR *	HYB	Roundup Ready®	-1.5	-1.0	XX	MR	Monsanto	
9350 *	HYB	Roundup Ready®	-1.5	-2.5	-1	MR	Viterra/Proven	
93H01RR *	HYB	Roundup Ready®	6.0	6.5	0	MR	FP Genetics	
9553 *	HYB	Roundup Ready®	2.5	1.5	0	R	Viterra/Proven	
997 RR	OP	Roundup Ready®	1.0	1.7	0	R	BrettYoung	
■ Café	OP	Roundup Ready®	0.0	-1.5	0	R	SeCan	
D3150	HYB	Roundup Ready®	4.0	4.1	0	MR	DuPont Canada	
D3151	HYB	Roundup Ready®	1.0	0.1	0	MR	DuPont Canada	
H6087 Δ	HYB	Roundup Ready®	3.5	4.0	0	MR	BrettYoung	
■ Rugby	OP	Roundup Ready®	0.0	0.4	0	R	SeCan	
SP DESIRABLE RR	SYN	Roundup Ready®	1.5	-0.3	0	R	Viterra/Proven	
5020	HYB	LibertyLink®	-0.5	-0.3	0	R	Bayer Crop Science	
5030	HYB	LibertyLink®	1.5	1.9	1	R	Bayer Crop Science	
5440	HYB	LibertyLink®	2.0	2.3	1	R	Bayer Crop Science	
■ 5770 *	HYB	LibertyLink®	6.0	6.5	1	R	Bayer Crop Science	
8440	HYB	LibertyLink®	2.0	0.8	0	R	Bayer Crop Science	
9590	HYB	LibertyLink®	1.5	0.8	0	R	Bayer Crop Science	
PHS07-526 ** Δ	HYB	LibertyLink®	3.0	3.5	0	R	Bayer Crop Science	
■ 30423-C7 Δ	SYN	Clearfield®	4.5	5.0	1	R	BrettYoung	
45H73	HYB	Clearfield®	2.0	0.0	0	R	Pioneer Hi-Bred	
■ 45P70	HYB	Clearfield®	2.5	2.1	0	R	Viterra/Proven	
5525 CL	HYB	Clearfield®	4.5	5.0	0	R	BrettYoung	

■ Protection by Plant Breeders' Rights

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

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

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

Roundup Ready® is a registered trademark of Monsanto Canada Inc.

¹ For full description of "Days to swathing" see page 21.

LibertyLink® is a registered trademark of Bayer CropScience

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

Clearfield® is a registered trademark of BASF

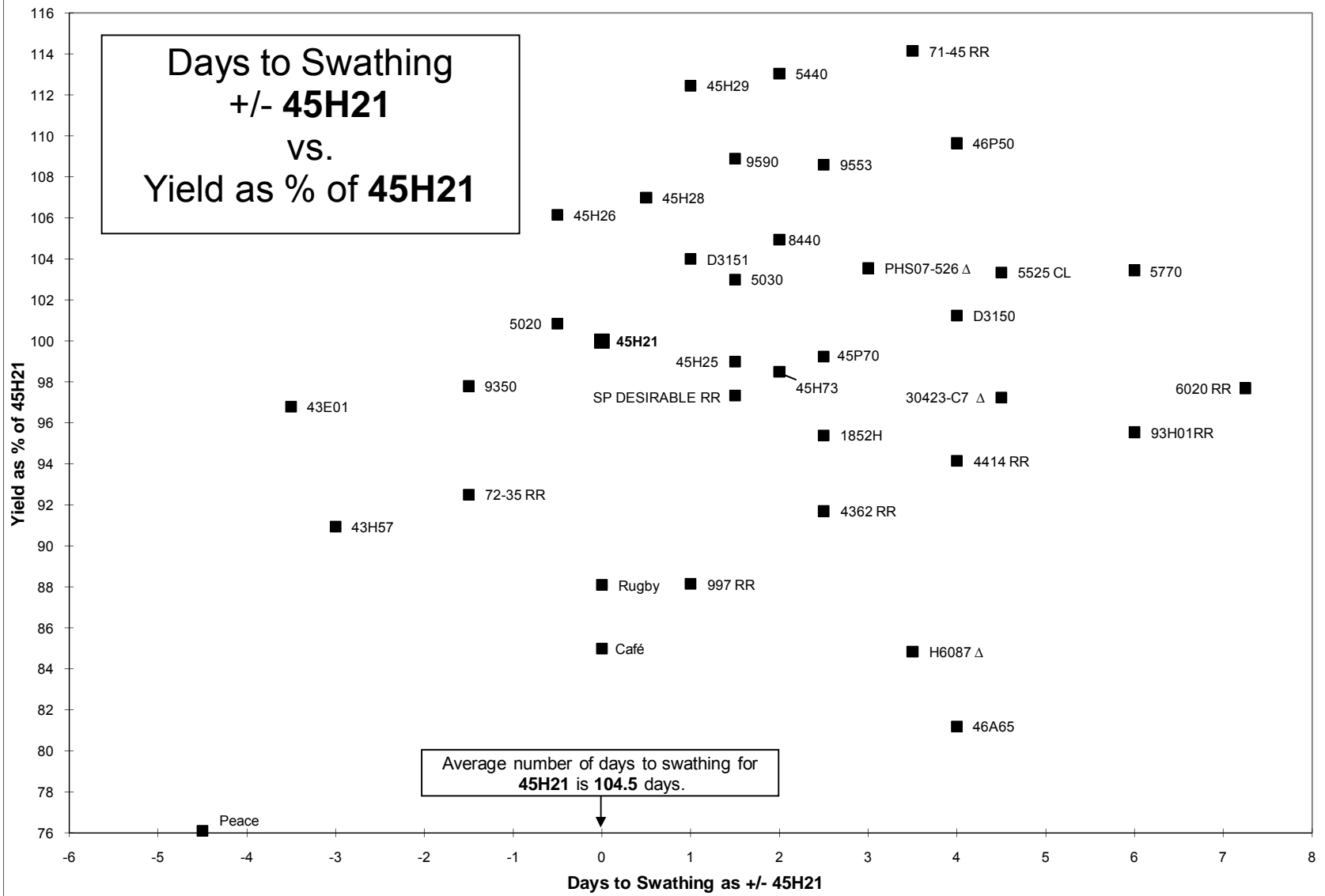
Δ = not currently registered

Overall average "days to swathing"¹ for 45H21 is 105 days.

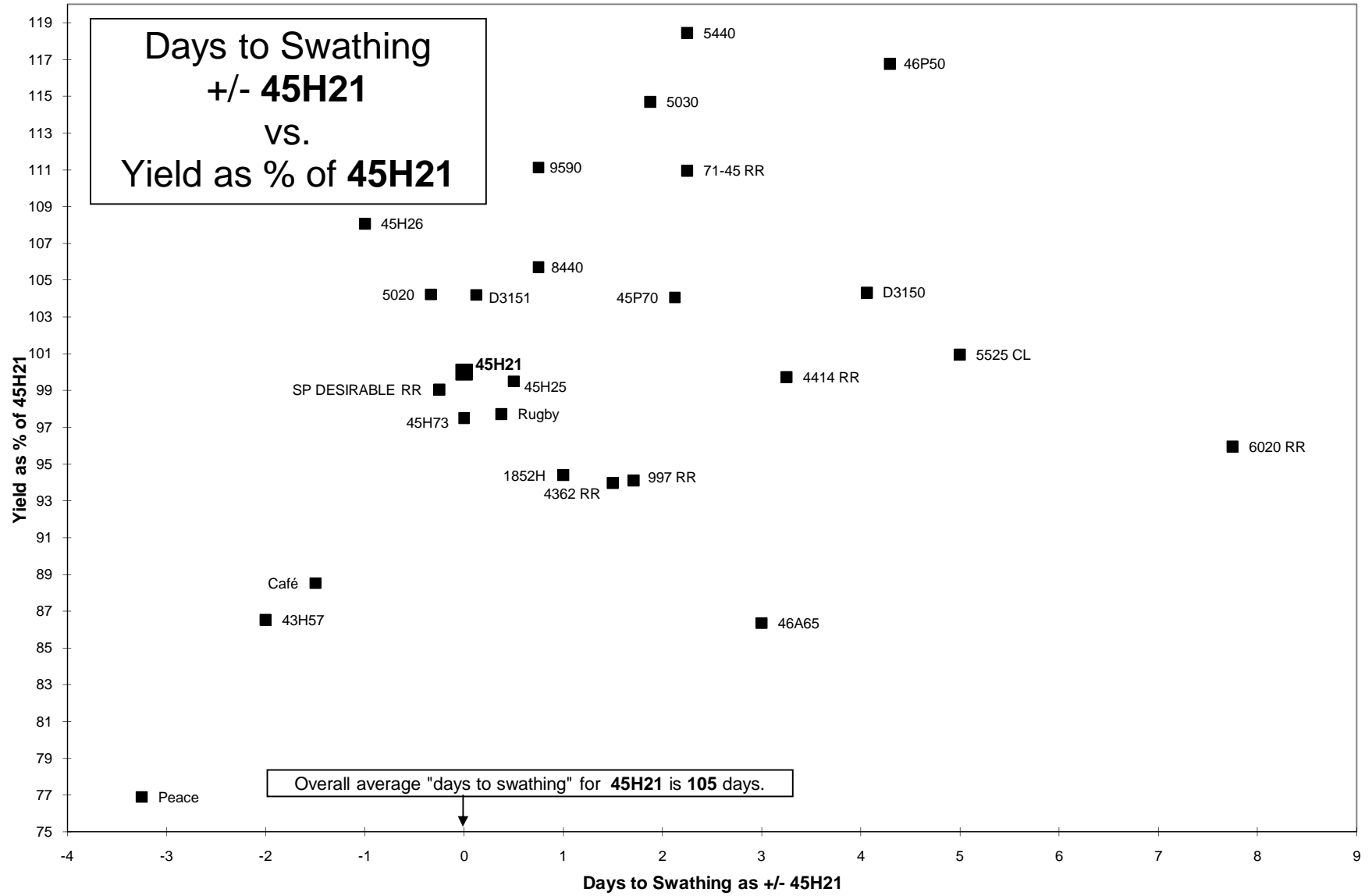
** specialty oil

*** Club-root Resistance

Argentine Canola Variety Performance 2009



Argentine Canola Variety Performance 2006-2009



Prairie Canola Variety Testing (PCVT) Program

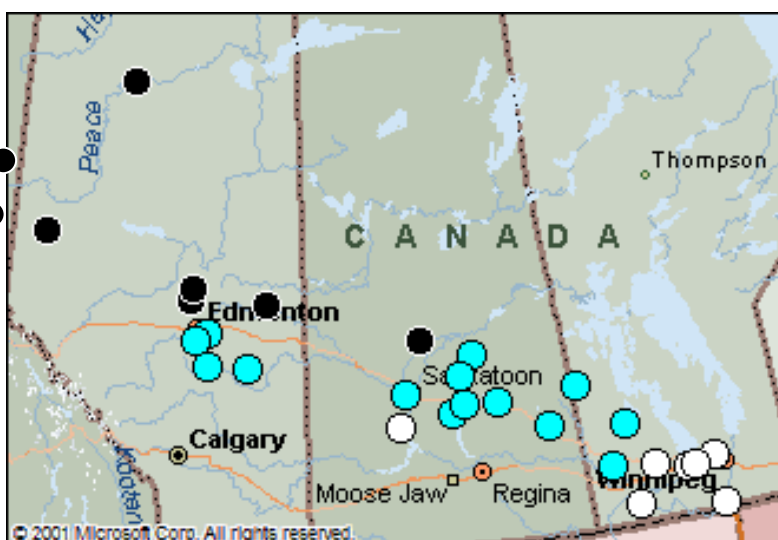
Background Information:

The Prairie Canola Variety Testing (PCVT) program entered its seventh year in 2009. The testing system unites the provincial variety testing programs to standardize protocol and improve trial consistency and quality. Now growers can look to a single source of information on how a canola variety performed in three different zones across western Canada. The Canola Council of Canada, canola seed industry, Western Canada Canola /Rapeseed Recommending Committee, Saskatchewan Agriculture, Manitoba Agriculture Food and Rural Initiatives, Alberta Agriculture and Rural Development, Agriculture and Agri-Food Canada contributed to the development and operation of the PCVT. Trials were conducted by seed companies, government researchers and independent contractors in three growing zones across the prairies: short-, mid- and long-season zones (see map).

Interpreting PCVT information:

Use the map to identify your zone of adaptation. For site-specific data please refer to the Canola Digest or the Canola Council of Canada website. Don't limit your search to the areas closest to you. Comparing local results to other locations with similar growing conditions can also be valuable. The table shows variety yield as a percent relative to the check variety or varieties. Although variety trials are carefully conducted, small percentage differences (e.g. <5%) in yield are usually insignificant. Least significant differences (LSD) at the bottom of the zone yield columns show what difference is needed to be 95% confident they are real and not due to chance. The table includes information on maturity, resistance to lodging, blackleg resistance, varietal type (open-pollinated, hybrid, synthetic) and herbicide tolerance. Use this information in addition to yield to choose a variety.

Traditional PCVT Locations:



- LONG SEASON
- MID SEASON
- SHORT SEASON

Note: Locations used per year varies depending on acceptance of data generated at each site.

In 2009 all data generated from both Fort St. John and Dawson Creek, BC (four trials in all), were accepted for the Short-Season Zones of the PCVT system.

The Canola POD:

The Canola POD, or Performance On-line Database (<http://www.canola-council.org/pod>), was developed by the Canola Council of Canada to allow farmers to explore canola performance trial results from a broad range of sources in their own area. In addition to the Prairie Canola Variety Trial results, POD provides access to private seed company performance trial information that often includes more detailed information, such as notes on site management.

The above information was provided by *Alberta Agriculture and Rural Development* and the *Canola Council of Canada*, December 2008

2009 Prairie-Wide Canola Variety Testing - ALL ZONE SUMMARY

The information below was provided by Alberta Agriculture and Rural Development and the Canola Council of Canada, Dec 2009.

Variety B. napus (Argentine)	2007 Yield % of 45H21, 5020 All Zones Avg	2008 Yield % of 45H21, 5020 All Zones Avg	2009 Yield % of 45H21, 5020				2009 Days to Maturity				Height +/- inches	Lodging rating +="better"	Blackleg Rating	Organization	
			Zones (Station Years)				+/- days to 45H21, 5020 Zones								
			Short (8)	Mid (14)	Long (10)	All Zone Average	short	mid	long	All Zones					
Checks	Type														
45H21, 5020 (Checks bu/ac, days to mature)	Hyb	100	100	100	100	100	0	0	0	0	0	0	0		
CLEARFIELD															
5525 CL	Hyb			103	102	100	102	3	3	3	3	4	1	R	BrettYoung
1651H	Hyb				89	85	88		2	2	2	3	0	R	Canterra Seeds
45H73	Hyb	98	99	93	97	99	97	1	1	0	1	1	0	R	Pioneer Hi-Bred Production Ltd.
45P70	Hyb	102	98	97	98	98	97	1	2	1	2	1	0	R	Viterra Inc.
LIBERTY LINK															
5020	Hyb	101	105	102	102	103	102	-1	-1	-1	-1	-1	0	R	Bayer CropScience
5030	Hyb	114	108	108	104	114	108	1	0	1	1	5	1	R	Bayer CropScience
5440	Hyb	115	110	118	105	117	112	1	0	1	1	3	1	R	Bayer CropScience
5770	Hyb			112	107	121	113	4	3	3	4	3	1	R	Bayer CropScience
8440	Hyb	107	108	105	103	109	105	2	0	0	0	0	0	R	Bayer CropScience
9590	Hyb	107	106	102	104	106	104	2	0	0	1	2	0	R	Bayer CropScience
ROUNDUP READY															
6020 RR	Hyb			100	93	102	98	5	3	3	3	0	0	MR	BrettYoung
6040 RR	Hyb				94	103	98		1	1	1	2	0	R	BrettYoung
1950	Hyb				94	94	94		2	2	2	2	0	MR	Canterra Seeds
1956	Syn				98	95	97		2	2	2	1	0	R	Canterra Seeds
1852H	Hyb	94		94	94	84	91	1	-1	-1	0	2	0	R	Canterra Seeds
v1037**	Hyb		94		93	89	91		1	0	1	2	0	R	Cargill Specialty Canola Oil
93H01RR	Hyb			96	94	93	94	3	1	1	2	2	0	MR	FP GENETICS
71-45 RR	Hyb		97	102	98	94	98	1	-1	0	0	1	0	MR	Monsanto Canada Inc.
45H21	Hyb	99	95	98	98	97	98	1	1	1	1	1	0	R	Pioneer Hi-Bred Production Ltd.
43E01	Hyb		90	91			91	-2			-2	-2	-2	MR	Pioneer Hi-Bred Production Ltd.
45H26	Hyb	101	99	99	101	98	100	2	1	1	1	2	0	R	Pioneer Hi-Bred Production Ltd.
45H28	Hyb		100	102	99	100	100	2	1	2	2	1	0	R	Pioneer Hi-Bred Production Ltd.
D3150	Hyb		96	100	97	98	98	3	1	1	2	2	0	MR	Pioneer Hi-Bred Production Ltd.
D3151	Hyb		95	97	100	97	98	1	0	-1	0	1	0	MR	Pioneer Hi-Bred Production Ltd.
Café	OP	76	82	81			81	-1			-1	-2	0	R	Secan
Rugby	OP	89	86	84	89		87	1	0		0	0	0	R	Secan
9350	Hyb			93			93	-1			-1	-2	-1	MR	Viterra Inc.
9553	Hyb		97	105	102	100	102	2	2	1	2	2	0	R	Viterra Inc.
9555	Syn				95		95		2		2	2	0	R	Viterra Inc.
46P50	Hyb	103	96	103	100	102	101	3	3	3	3	3	0	R	Viterra Inc.
SP DESIRABLE RR	Syn	88		92			92	1			1	1	0	R	Viterra Inc.
LSD (5%)				12	12	13	12								

** Specialty oil

Type: OP - open pollinated; Syn - synthetic; and Hyb - hybrid.

Every year British Columbia participates within the PCVT system by supplying data from two BC sites; Dawson Creek and Fort St. John. However, for production of canola data within BC there are two additional canola trials that make up our annual dataset. This has the affect of disclosing even more varieties than that offered from just the PCVT system. Refer to pages 23 - 26 for such data. The PCVT is a valuable system for the BC Grain Producers Association to be a part of and allows us to see new materials that we might otherwise miss.