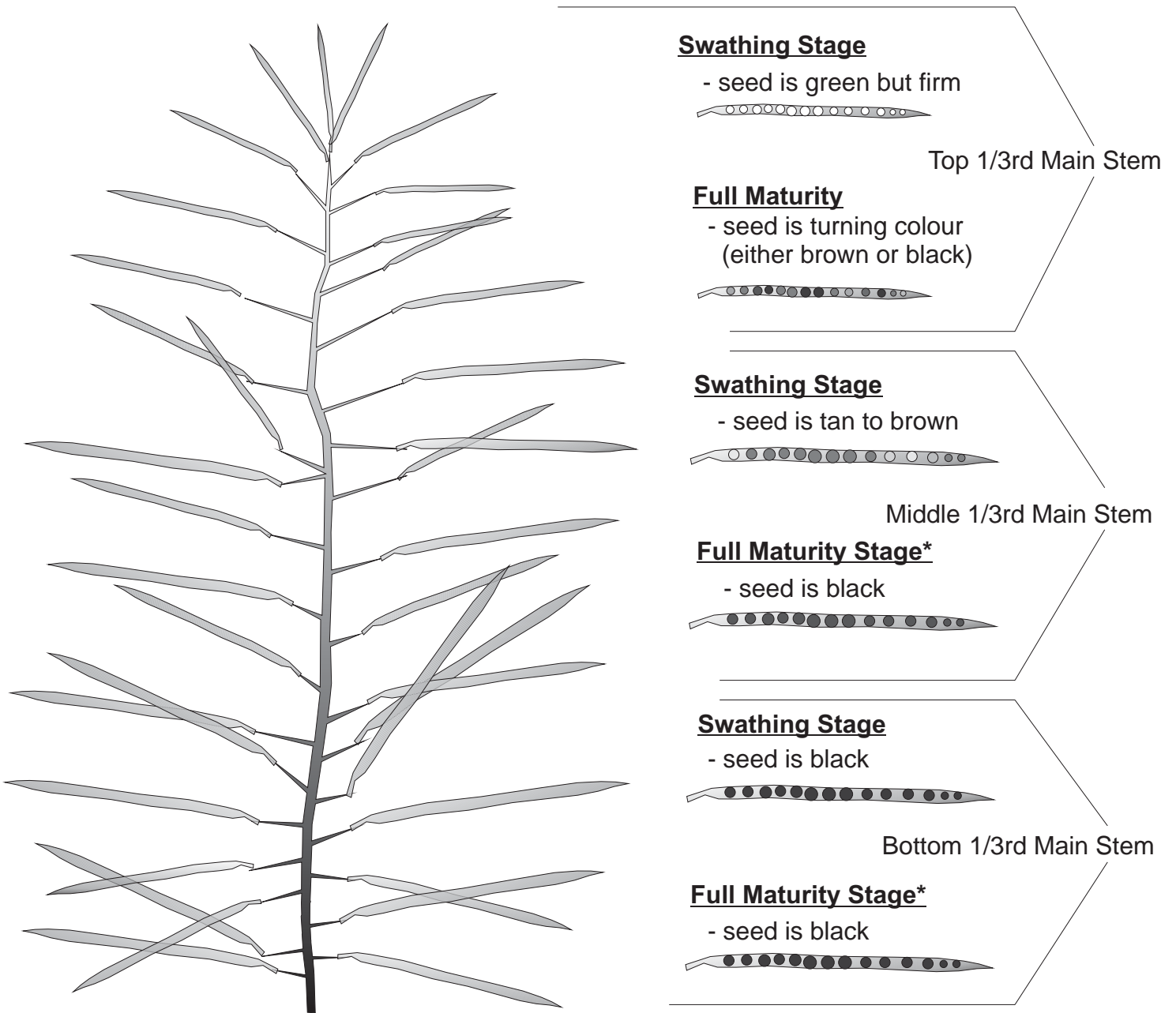


Definitions of Canola Maturity Used In This Report

Please check with the *Canola Council of Canada* for complete definition of “swathing 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.



*Full Maturity Stage: as defined in this report on page 26 under column “days to mature”.

ARGENTINE CANOLA

Argentine Canola (conventional)		Yield as % of 46A65 **								
Variety	Type	Dawson Creek			Fort St. John			B.C. Peace		
		2005		2003-2005	2005		2003-2005	2005		2003-2005
		% of check	Avg. (%)	Stn. Yrs.	% of check	Avg. (%)	Stn. Yrs.	% of check	Avg. (%)	Stn. Yrs.
46A65	OP	100	100	[7]	100	100	[7]	100	100	[14]
Peace	OP	91	85	[3]	101	93	[3]	96	89	[6]
		<u>Varieties not tested in 2005 (Averages 2003-2004)</u>						<u>Last Year Tested</u>		
46H02	HYB	108 [2]			107 [2]		(2004)		108	[4]

46A65 - check variety**

SYN = Synthetic HYB = Hybrid
OP = Open Pollinated

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

** As of 2003, canola varieties are compared against the *conventional* variety 46A65.

Five insect pests in B.C. Peace canola

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The BC Peace region is not 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 on websites such as Canola Council <http://www.canola-council.org/growing.html> (especially the Crop Watch section during the season) from agriculture service suppliers (id. booklets) and at other websites mentioned below. Here are brief discussions of five insect pests that have caused significant damage in the past: flea beetles, cut worms, lygus bugs, Bertha armyworm and diamondback moth.

Flea beetles: at the emergence to cotyledon crop stage, high beetle populations can move from last year's fields and gradually add damage to a slower emerging crop when the weather is dry or cool and seed treatments have worn off from early seeding, or a switch to warm weather can make the beetles active and destroy a crop in a day. While there is always some flea beetle damage, plants in good growing conditions can quickly outgrow damage that is below the economic threshold. Checking the intensity of beetles on early weeds or volunteer canola more developed than the crop can give a warning of high populations to come.

Cut worms: are less common than flea beetles and cause damage only in fields where they were last fall. Each plant fed on is killed, so plants up to a few leaves can disappear in patches.

Lygus bugs: do their greatest damage to buds or developing pods. Healthy plants with moisture can compensate for damage, but high populations damaging plants before bolting may be worth treatment. A sweep net and threshold numbers (see Crop Watch reports http://www.canola-council.org/watch_2005.html) could make a treatment decision more financially valid.

Bertha armyworm and **diamond back moth** caterpillars feed on canola leaves and in certain years can destroy crops. Bertha populations result from last year's population in the same area, so it could be valuable to be aware of monitoring from 2005, which indicates some developing possible "hot spots" in the Peace. Diamondback moths arrive on the wind in Canada each spring, so are not related to last year's population. Risk maps (search Bertha diamondback map) for both these species are available at the website: <http://www.agf.gov.bc.ca/cropprot/forecastmaps.htm> Contact the BC Agriculture office if you would like to be involved in monitoring for these pests. Kerry.clark@gov.bc.ca

HERBICIDE TOLERANT CANOLA

Argentine Canola (herbicide tolerant)		Yield as % of 46A65								
Variety	Type	Dawson Creek			Fort St. John			B.C. Peace		
		2005	2003-2005		2005	2003-2005		2005	2003-2005	
		% of check	Avg. (%)	Stn. Yrs.	% of check	Avg. (%)	Stn. Yrs.	Avg. (%)	Avg. (%)	Stn. Yrs.
46A65	conventional	100	100	[7]	100	100	[7]	100	100	[14]
1896	Roundup Ready®	105	97	[2]	101	99	[2]	103	98	[4]
9451	Roundup Ready®	108	100	[2]	105	108	[2]	106	104	[4]
9550	Roundup Ready®	102	102	[2]	99	98	[2]	100	100	[4]
1839V (SW5231) *	Roundup Ready®	99	99	[1]	98	98	[1]	99	99	[2]
225RR (AV9225)	Roundup Ready®	99	100	[3]	96	97	[3]	98	99	[6]
32-75 *	Roundup Ready®	105	105	[1]	100	100	[1]	102	102	[2]
34-55	Roundup Ready®	104	98	[3]	110	103	[3]	107	100	[6]
43A56	Roundup Ready®	93	98	[3]	92	95	[3]	92	97	[6]
45H21	Roundup Ready®	106	109	[3]	109	105	[3]	108	107	[6]
45H24	Roundup Ready®	109	106	[2]	114	114	[2]	112	110	[4]
45H25 *	Roundup Ready®	106	106	[1]	106	106	[1]	106	106	[2]
46H23	Roundup Ready®	107	112	[3]	98	100	[3]	103	106	[6]
624RR *	Roundup Ready®	94	94	[1]	98	98	[1]	96	96	[2]
71-25 RR (AV 9525)	Roundup Ready®	104	104	[2]	103	101	[2]	103	103	[4]
71-45 RR (Z2409) *	Roundup Ready®	117	117	[1]	105	105	[1]	111	111	[2]
821RR (SW G5251 RR) *	Roundup Ready®	107	107	[1]	109	109	[1]	108	108	[2]
829RR *	Roundup Ready®	94	94	[1]	98	98	[1]	96	96	[2]
Fortune RR	Roundup Ready®	101	95	[3]	92	96	[3]	96	96	[6]
LBD449RR	Roundup Ready®	96	90	[3]	92	92	[3]	94	91	[6]
LBD612RR	Roundup Ready®	102	101	[2]	103	99	[2]	103	100	[4]
LBD644RR	Roundup Ready®	104	105	[3]	107	104	[3]	106	104	[6]
NR01-5660 *	Roundup Ready®	90	90	[1]	86	86	[1]	88	88	[2]
Reaper (RE 3040-02.4) *	Roundup Ready®	102	102	[1]	90	90	[1]	96	96	[2]
SP Banner	Roundup Ready®	101	104	[3]	88	96	[3]	95	100	[6]
SP Desirable RR *	Roundup Ready®	110	110	[1]	114	114	[1]	112	112	[2]
SW 3950 (SW G5235 RR) *	Roundup Ready®	100	100	[1]	102	102	[1]	101	101	[2]
SW 6802	Roundup Ready®	95	96	[2]	99	99	[2]	97	98	[4]
SW 9803 *	Roundup Ready®	105	105	[1]	112	112	[1]	109	109	[2]
SW G5246 RR *	Roundup Ready®	107	107	[1]	101	101	[1]	104	104	[2]
SW GladiatoRR	Roundup Ready®	95	89	[2]	102	96	[2]	99	92	[4]
v1030 *	Roundup Ready®	112	112	[1]	103	103	[1]	108	108	[2]
v1031 *	Roundup Ready®	111	111	[1]	105	105	[1]	108	108	[2]
InVigor® 2733	LibertyLink®	105	98	[3]	122	114	[3]	113	106	[6]
InVigor® 5020	LibertyLink®	110	129	[3]	116	116	[3]	113	123	[6]
InVigor® 5030	LibertyLink®	116	112	[3]	107	115	[3]	112	113	[6]
InVigor® 5070	LibertyLink®	119	119	[2]	110	119	[2]	115	119	[4]
InVigor® 5108	LibertyLink®	107	87	[2]	128	113	[2]	117	100	[4]
289 CL (AV 9289)	Clearfield®	101	98	[2]	101	95	[2]	101	96	[4]
292CL *	Clearfield®	98	98	[1]	100	100	[1]	99	99	[2]
45H72	Clearfield®	105	105	[2]	103	102	[2]	104	103	[4]
46H70	Clearfield®	96	93	[2]	100	101	[2]	98	97	[4]
71-20 CL (AV 9618)	Clearfield®	103	97	[2]	101	98	[2]	102	98	[4]
Manor (163-12) *	Clearfield®	101	101	[1]	88	88	[1]	94	94	[2]
NEX 822 CL *	Clearfield®	92	92	[1]	78	78	[1]	85	85	[2]
NEX 828 CL *	Clearfield®	89	89	[1]	75	75	[1]	82	82	[2]
SP Deliver CL	Clearfield®	92	94	[2]	85	88	[2]	89	91	[4]

46A65 - check variety

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

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LibertyLink® is a registered trademark of Bayer CropScience

Clearfield® is a registered trademark of BASF

InVigor® is a registered trademark of Bayer CropScience

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 three individual napus trials per site for 2005 were as follows: DC = 5.16%, 4.7%, 4.99% FSJ = 10.64%, 6.66%, 9.43%

Argentine Canola			Variety Descriptions				
Variety	Type	Herbicide Tolerance	B.C. Peace Avg. 2003-2005		Alberta	Canola	Distributor
			Days to Swathing ¹ as +/- check	Days to Mature ¹ as +/- check	Agdex Straw Strength	Council Blackleg Rating	
1896	HYB	Roundup Ready®	-4	-3	0	R	Canterra
9451	SYN	Roundup Ready®	0	1	0	MR	Proven
9550	OP	Roundup Ready®	-2	-2	0	R	Proven
■ 1839V (SW5231) *	OP	Roundup Ready®	-6	-6		MR	Canterra
■ 225RR (AV 9225)	OP	Roundup Ready®	1	0	1	MR	Monsanto
■ 289CL (AV 9289)	HYB	Clearfield®	0	0			Monsanto
■ 292CL *	OP	Clearfield®	1	6	0	R	Monsanto
32-75 *	-	Roundup Ready®	-4	-5			Monsanto
■ 34-55	OP	Roundup Ready®	5	4	0	MR	Monsanto
■ 43A56	OP	Roundup Ready®	-7	-9	0	MR	Pioneer
45H21	HYB	Roundup Ready®	-1	-2	1	R	Pioneer
45H24	HYB	Roundup Ready®	-2	-3	0	R	Pioneer
45H25 *	HYB	Roundup Ready®	-3	-2	0	R	Pioneer
45H72	HYB	Clearfield®	-1	0	0	R	Pioneer
■ 46A65	OP	(Conventional)	0	0	0	R	
46H23	HYB	Roundup Ready®	3	3	0	R	Pioneer
46H70	HYB	Clearfield®	2	5	0	R	Pioneer
624RR *	HYB	Roundup Ready®	1	5	1	R	Brett-Young
71-20 CL (AV 9618)	HYB	Clearfield®	-4	-3	0	R	Monsanto
71-25 RR (AV 9525)	HYB	Roundup Ready®	-3	-3	0	R	Monsanto
71-45 RR (Z2409) *	HYB	Roundup Ready®	0	2	0	MR	Monsanto
821RR (SW G5251 RR) *	HYB	Roundup Ready®	1	4	0	MR	SW Seed Ltd.
829RR *	OP	Roundup Ready®	2	7		R	Brett-Young
Fortune RR	OP	Roundup Ready®	2	2	0	R	SeCan
InVigor® 2733	HYB	LibertyLink®	-3	-5	0	MR	Bayer
InVigor® 5020	HYB	LibertyLink®	-2	-3	0	R	Bayer
InVigor® 5030	HYB	LibertyLink®	2	3	1	R	Bayer
InVigor® 5070	HYB	LibertyLink®	1	3	0	R	Bayer
InVigor® 5108	HYB	LibertyLink®	-5	-5			Bayer
LBD449RR	OP	Roundup Ready®	-1	-1	EX	R	Brett-Young
LBD612RR	OP	Roundup Ready®	0	1			Brett-Young
LBD644RR	OP	Roundup Ready®	-1	0			Brett-Young
■ Manor (163-12) *	OP	Clearfield®	4	8	-1	MS	FarmPure Seeds
NEX 822 CL *	OP	Clearfield®	7	3			Dow
NEX 828 CL *	OP	Clearfield®	6	6	1	R	Dow
■ NR01-5660 *	OP	Roundup Ready®	3	8		R	Sask Wheat Pool
■ Peace	OP	(Conventional)	-8	-9	0	MR	Sask Wheat Pool
■ Reaper (RE 3040-02.4) *	OP	Roundup Ready®	2	6	0	R	FarmPure Seeds
■ SP Banner	OP	Roundup Ready®	2	1	0	R	Sask Wheat Pool
■ SP Deliver CL	OP	Clearfield®	1	1	0	MR	Sask Wheat Pool
SP Desirable RR *	SYN	Roundup Ready®	2	1	0	R	Sask Wheat Pool
SW 3950 (SW G5235 RR) *	HYB	Roundup Ready®	-2	-1	0	MR	SW Seed Ltd.
SW 6802	SYN	Roundup Ready®	-1	-1	0	MR	SW Seed Ltd.
SW 9803 *	-	Roundup Ready®	-3	-4			SW Seed Ltd.
■ SW G5246 RR *	OP	Roundup Ready®	1	3		MR	SW Seed Ltd.
SW GladiatoRR	SYN	Roundup Ready®	-3	-3	0	MR	FarmPure Seeds
v1030 *	HYB	Roundup Ready®	-1	-4	0	MR	Cargill Spec.
v1031 *	HYB	Roundup Ready®	2	3	0	MR	Cargill Spec.

■ 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

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 Clearfield® is a registered trademark of BASF
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Note¹ that the "days to mature" describes a date when seed at the top of the plant has changed colour. "Days to swathing" data is a date as defined by the Canola Council of Canada's definition for swathing. (Complete maturity descriptions on page 18).

Average number of days to swathing¹ for 46A65 is 112 days.

Average number of days to maturity¹ for 46A65 is 124 days.

ARGENTINE CANOLA - HISTORICAL INFORMATION

Note: For further historical information, please refer to previous reports, all of which can be viewed at www.bcgrain.com.

Argentine Canola (herbicide tolerant)		Yield as % of 46A65					
Variety	Type	Dawson Creek		Fort St. John		B.C. Peace	
		2003-2004		2003-2004		2003-2004	
		Avg. (%)	Stn. Yrs.	Avg. (%)	Stn. Yrs.	Avg. (%)	Stn. Yrs.
<u>Varieties not tested in 2005 (Averages 2003-2004)</u>							
						<u>Last Year Tested</u>	
3235	Roundup Ready®	93	[2]	95	[2]	(2004)	94 [4]
33-95 *	Roundup Ready®	97	[1]	104	[1]	(2004)	101 [2]
Canterra™ 1841	Roundup Ready®	99	[2]	107	[2]	(2004)	103 [4]
LBD588RR	Roundup Ready®	102	[2]	98	[2]	(2004)	100 [4]
Prairie 717RR (LBD422RR)	Roundup Ready®	80	[2]	96	[2]	(2004)	88 [4]
InVigor® 2663	LibertyLink®	88	[2]	112	[2]	(2004)	100 [4]
46A76	Clearfield®	95	[2]	104	[2]	(2004)	100 [4]
Cougar CL	Clearfield®	100	[2]	94	[2]	(2004)	97 [4]

46A65 - check variety

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

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Canterra™ is a trademark of Canterra Seeds

Deklab® is a registered trademark of DeKlab Genetics Corporation

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

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Argentine Canola			Variety Descriptions				
Variety	Type	Herbicide Tolerance	B.C. Peace Avg. 2003-2004		Data from Alberta Agdex 100/32		
			Days to Swathing +/- check	Days to Mature +/- check	Straw Strength	Blackleg Tolerance	Distributor
			<u>Varieties not tested in 2005 (Averages 2003-2004)</u>				
■ 3235	OP	Roundup Ready®	1	2	G	2	Monsanto
33-95 *	OP	Roundup Ready®	1	1			Monsanto
■ 46A76	OP	Clearfield®	7	7	EX	1	Pioneer Hi-Bred
46H02	HYB	(Conventional)	2	1			Pioneer Hi-Bred
Canterra™ 1841	HYB	Roundup Ready®	3	5	EX	1	Canterra
■ Cougar CL	OP	Clearfield®	3	3			Sask Wheat Pool
InVigor® 2663	HYB	LibertyLink®	0	-3	VG	1	Bayer CropScience
LBD588RR	OP	Roundup Ready®	7	4			Brett-Young
Prairie 717 (LBD422RR)	OP	Roundup Ready®	5	2			Prairie Seeds

OP = open pollinated, SYN = synthetic, HYB = hybrid
 EX = excellent, VG = very good, G = good, F = fair, P = poor

1 = tolerant, 2 = moderately tolerant, 3 = moderately susceptible, 4 = susceptible, 5 = highly susceptible

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Argentine Canola

B.C. Peace River - Variety Performance 2003-2005

