



**canola**<sup>2014</sup>  
PERFORMANCE TRIALS

**INFORMED  
SEEDING  
DECISIONS.**

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# THE NEXT GENERATION IN VARIETY EVALUATION.

Canola Performance Trials (CPT) represent the next generation in variety evaluation for Western Canadian canola growers. The trials provide:

- Relevant, unbiased and timely performance data that reflects actual production practices.
- Comparative data on leading varieties and newly introduced varieties.

The CPT system includes both small plot and large field scale trials. Results for 2014 are based on 25 small plot trials and 101 field scale trials across the Prairies. Further information and variety evaluation tools are available online at [www.canolaperformancetrials.ca](http://www.canolaperformancetrials.ca).

Field scale comparisons add extra perspective for assessing consistency in variety performance. For field scale plots, two or more varieties were compared at each site, and each site had a common check, 73-75 RR. Comparisons are based on harvested strips of 0.5 to 1.5 acres each. Field scale data is not necessarily replicated in all cases, but the data presented has been audited to make sure it complies with CPT protocols.

The CPT technical committee established protocols and developed research plot designs to ensure that the data is representative. Performance objectives were established to provide guidelines on timely field operations and data collection.

Site distribution is based on seeded acres in Manitoba, Saskatchewan, Alberta and British Columbia.

The small plot system ensures that:

- All varieties are treated with appropriate commercially associated herbicides and seed treatments.
- An independent third party representative inspects all trials.
- Varieties are in blocks based on maturity. That way, harvest occurs at the appropriate time to minimize harvest losses due to maturity differences.

All sites are inspected to verify these guidelines were followed to allow a fair comparison among the varieties tested.

Audits of field scale projects give growers the confidence that the protocol was conducted in a scientifically sound manner and that comparisons are appropriate. Qualified professionals with extensive background in conducting field scale research trials perform the audits.

This booklet is one of several sources of information to consider in making the best decisions for your farm.



# PROGRAM MANAGEMENT

The three Prairie canola grower groups – Alberta Canola Producers Commission, the Saskatchewan Canola Development Commission (SaskCanola) and the Manitoba Canola Growers Association – fund the program. The Canola Council of Canada delivers the program.

Seed trade companies that participate pay entry fees. The B.C. Grain Producers Association is conducting trials in the Peace region as its means of participation.

Haplotech (led by Dr. Rale Gjuric) coordinates the trials under the guidance of a governance committee that oversees approval of varieties, protocol design, data collection, analysis and reporting, and financial management. Governance committee members include representatives from the provincial grower groups including B.C.; provincial oilseed specialists from Manitoba, Saskatchewan and Alberta; three commercial Canadian Seed Trade Association representatives; and the Canola Council of Canada (CCC). The CCC delivers the program on their behalf.

For 2014, participants in the trials consist of line companies, independent retailers and seed companies including Bayer CropScience, BrettYoung Seeds, CANTERRA SEEDS, Cargill, DL Seeds, Monsanto, Syngenta and Proven Seed/Crop Production Services.

# USING THE TABLES

Results are organized by short, medium and long season zones. CPT uses the Western Canada Canola/Rapeseed Recommending Committee (WCC/RRC) season zones, which are based on typical frost free days, growing degree days and soil type. Grey wooded soils, for example, are in the short season zone. See Table A for specific numbers for each zone.

Table A: Season Zones		
Season	Frost Free Days	Growing Degree Days (Base 5°C)*
Short	75–95	1,100–1,450
Medium	95–115	1,450–1,700
Long	115+	1,700+

\*On a base 5°C scale, growing degree days only accumulate on days when highs are above 5°C.

Small plot and field scale data are presented separately in the following tables. For more detailed performance results, growing conditions and production details for specific trial sites, use the online CPT database at [www.canolaperformancetrials.ca](http://www.canolaperformancetrials.ca).

The tables include yield, days to maturity, height and lodging scores for each variety. Lodging scores are between 1 and 5, with 1 being no lodging and 5 being completely lodged.

Gross revenue is based on yield multiplied by \$9.28/bu. This is based on \$409.30 per tonne, the March 2015 futures close on October 1, 2014 and a 50-pound bushel weight. Premiums are included in the calculations for specialty market varieties.

In the tables, varieties are listed numerically and alphabetically, starting with Clearfield (CL) varieties, followed by Liberty Link (LL) and Roundup Ready (RR).

Each zone and small plot location is identified on the map on page 5.

1. To begin, use the map on page 5. Identify your growing season zone and trial locations closest to your farm.
2. To evaluate yield potential, look at all small plot and field scale locations in your growing season zone and the average yield for your zone.
3. Consider other information such as maturity, lodging resistance and cost.
4. Ask your seed dealer for more information on specific varieties.

# TOOLS TO HELP YOU MAKE BETTER CHOICES

**CV** – For coefficient of variation (CV), the lower the CV value, the more reliable the test. For example, if comparing results from two test locations, one with a CV of 4% and the other with a CV of 8%, the test with the CV of 4% can be considered more reliable. There is always variability in research trials. The key is designing and managing experiments so CVs stay within a reasonable range. For the CPT, experience has shown that CVs below 15% indicate good test reliability.

**LSD** – The least significant difference (LSD at a 5% level of statistical significance) for each dataset indicates whether differences between varieties are statistically meaningful. Varieties should only be considered different in yield performance if the

numerical difference between them is greater than the LSD value. Using the sample table below, if the LSD is 5.0, varieties A and B are not statistically different, B and C are not statistically different, but A and C are statistically different. In the yield graphs for each season zone (see page 7), LSD for each variety group is given on the left.

Variety	Yield (bu./ac.)
A	52
B	54
C	58
LSD	5.0

## Small Plot Locations throughout Western Canada



# CANOLA PERFORMANCE TRIALS 2014 RESULTS

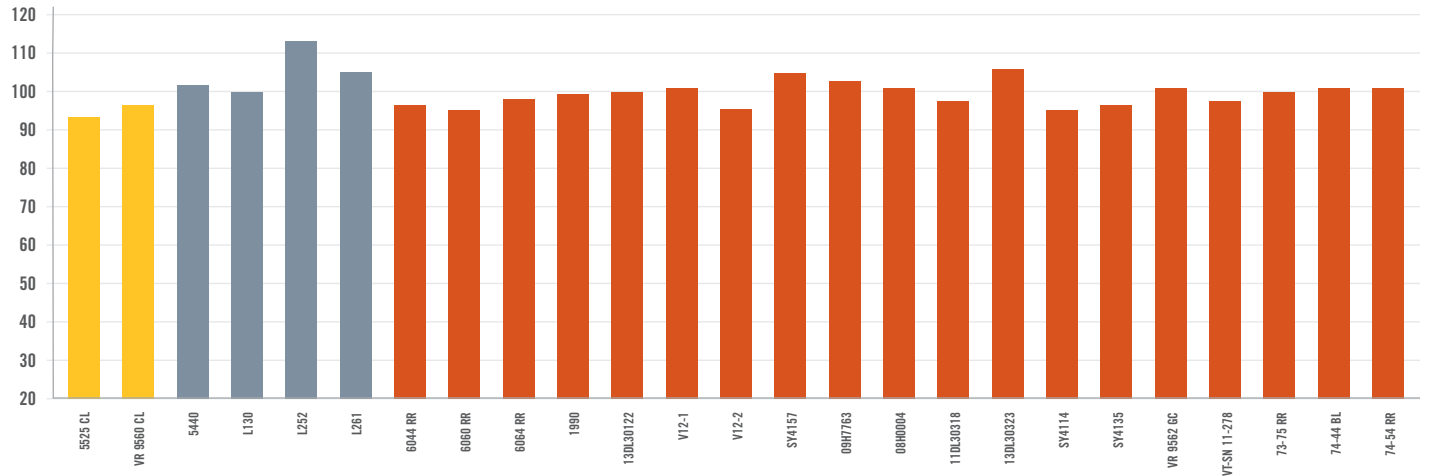
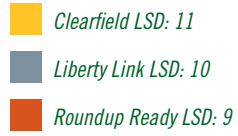
## Average Results by Season Zone (small plot data)

Variety	Long Season Zone				Mid Season Zone				Short Season Zone				Distributor
	Yield (% 73-75 RR 81 bu./ac.)	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 58 bu./ac.)	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 65 bu./ac.)	Days to Maturity	Lodging	Height (in.)	
<b>Clearfield</b>													
5525 CL	93	94.1	2.2	48.0	92	94.7	1.7	42.8	98	100.7	3.2	44.2	BrettYoung
VR 9560 CL	97	97.3	2.7	49.5	98	96.4	2.1	47.1	99	102.3	3.8	43.9	Proven Seed / CPS
LSD	11				13				13				
<b>Liberty Link</b>													
5440	102	96.1	1.7	50.6	105	95.0	1.5	45.1	108	100.2	2.0	45.9	Bayer CropScience
L130	100	92.8	2.0	48.4	100	93.3	1.7	44.1	105	98.0	2.4	43.4	Bayer CropScience
L252	113	96.3	2.3	49.5	108	95.3	1.9	43.7	115	100.7	2.4	44.3	Bayer CropScience
L261	106	96.4	1.7	54.5	107	96.3	1.7	49.0	113	101.9	2.8	49.5	Bayer CropScience
LSD	10				10				10				
<b>Roundup Ready</b>													
6044 RR	97	95.3	1.8	47.5	97	95.2	1.7	41.5	94	100.7	3.0	41.7	BrettYoung
6060 RR	95	97.8	2.2	48.8	97	97.2	2.2	43.2	97	103.3	2.8	44.9	BrettYoung
6064 RR	98	97.2	1.8	47.1	102	97.3	1.6	42.3	99	103.2	2.9	42.7	BrettYoung
1990	99	93.9	3.0	45.8	102	94.9	2.5	42.8	102	100.6	3.7	42.6	CANTERRA SEEDS
13DL30122	100	96.7	2.6	50.8	103	96.0	2.2	46.5	101	101.4	3.4	46.2	CANTERRA SEEDS
V12-1	101	95.3	2.4	47.4	103	94.8	2.0	43.0	99	101.3	3.3	43.1	Cargill – VICTORY Hybrid Canola
V12-2	96	97.4	2.3	48.4	93	95.9	2.1	41.0	92	101.8	3.0	40.6	Cargill – VICTORY Hybrid Canola
SY4157*	105	98.1	1.9	51.9	105	96.5	1.9	44.9	102	102.3	3.3	45.5	Syngenta
09H7763	103	95.2	2.9	47.7	100	95.5	1.9	43.7	96	101.1	3.4	44.3	Cargill – VICTORY Hybrid Canola
08H0004	101	100.2	1.9	52.0	101	98.4	1.8	46.1	97	104.1	3.0	44.8	Cargill – VICTORY Hybrid Canola
11DL30318	98	95.3	2.2	48.5	97	95.2	1.9	42.9	96	101.4	2.7	45.0	DL Seeds
13DL30323	107	97.3	1.9	49.3	109	94.2	1.8	43.2	110	102.0	2.9	44.1	DL Seeds
SY4114	95	94.0	3.4	44.9	98	93.3	2.2	41.4	94	99.6	4.2	41.5	Syngenta
SY4135	96	94.0	3.4	43.6	95	93.8	2.6	40.8	97	99.7	3.4	42.2	Syngenta
VR 9562 GC	101	93.8	2.5	49.2	105	94.3	2.4	44.7	106	99.9	3.0	45.5	Proven Seed / CPS
VT-SN 11-2786	98	93.8	2.4	47.6	101	94.3	2.1	42.0	99	100.3	2.8	43.4	Proven Seed / CPS
73-75 RR	100	93.3	3.7	44.7	100	93.6	2.4	40.6	100	99.4	3.8	42.0	DEKALB
74-44 BL	101	94.3	3.3	45.0	98	94.5	2.4	41.9	97	100.3	3.3	41.7	DEKALB
74-54 RR	101	93.8	3.4	45.3	101	93.0	2.5	42.0	102	98.9	3.4	42.3	DEKALB
73-15 RR									89	97.4	3.7	39.7	DEKALB
LSD	9				10				11				

\*SY4157, sponsored by Syngenta, was previously named 09H7757 and sponsored by Cargill in 2013.

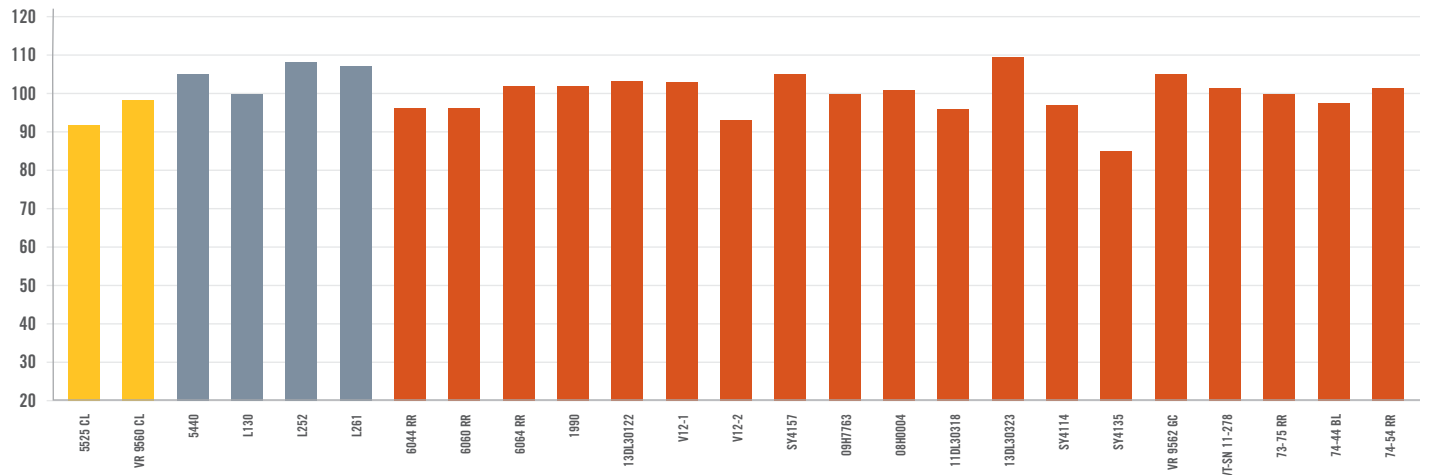
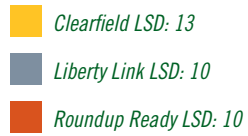
## Long Season Zone:

(% of 73-75 RR bu./ac.)



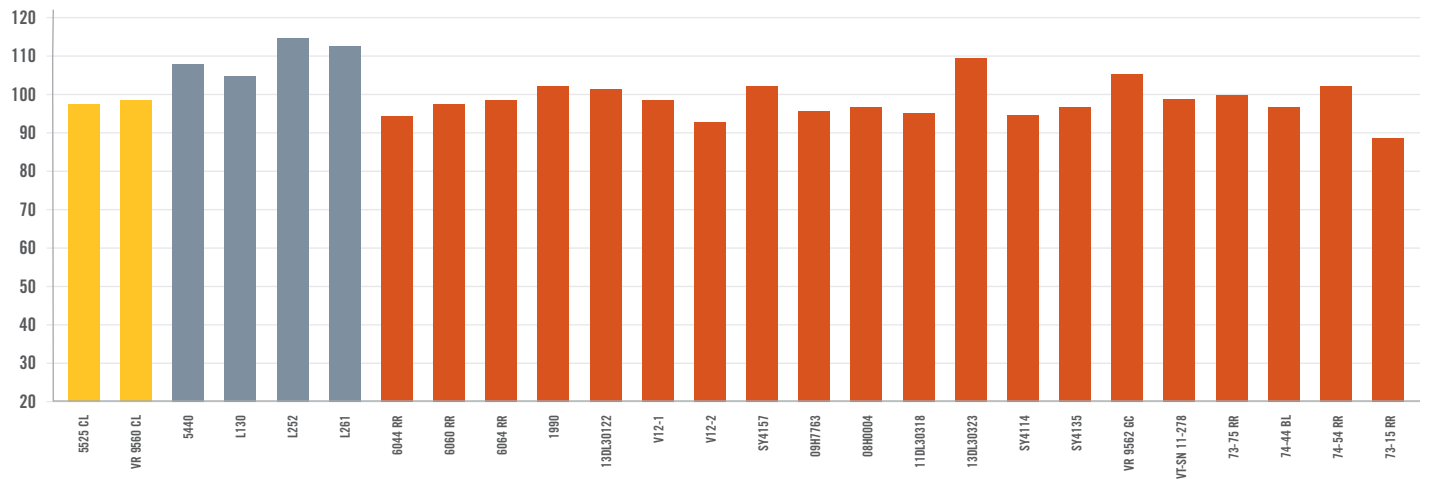
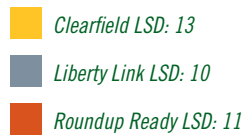
## Mid Season Zone:

(% of 73-75 RR bu./ac.)



## Short Season Zone:

(% of 73-75 RR bu./ac.)



# CANOLA PERFORMANCE TRIALS 2014 RESULTS

## Long Season Zone: Small plot results by location

Variety	High Bluff, MB					Rosebank, MB					Sun Valley, MB					Teulon, MB					Coaldale, AB					
	Yield (% 73-75 RR 81 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 97 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 67 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 65 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 97 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
<b>Clearfield</b>																										
5525 CL	87	\$662	85.8	2.5	47.2	89	\$806	–	1.3	–	93	\$581	97.0	3.8	42.8	98	\$586	96.0	1.3	43.3	98	\$884	97.5	2.3	58.6	
VR 9560 CL*	89	\$721	88.5	3.3	45.3	95	\$925	–	2.3	–	94	\$629	99.0	4.0	49.2	112	\$720	99.0	1.0	43.8	96	\$869	102.5	3.0	59.5	
LSD	9					11					20					5					8					
<b>Liberty Link</b>																										
5440	100	\$754	89.8	1.0	47.7	90	\$819	–	1.0	–	107	\$664	97.8	2.5	50.2	109	\$658	95.5	1.5	44.3	104	\$939	101.5	2.3	60.0	
L130	103	\$778	84.8	1.5	47.2	92	\$831	–	1.0	–	103	\$638	95.3	3.0	46.3	104	\$623	94.0	1.8	42.8	99	\$896	97.3	2.5	57.1	
L252	111	\$837	89.5	1.8	48.7	107	\$972	–	1.3	–	109	\$675	98.0	4.5	46.3	122	\$736	96.3	1.8	44.8	117	\$1,056	101.5	2.0	58.1	
L261	105	\$796	90.5	1.5	53.6	96	\$869	–	1.0	–	110	\$687	98.8	2.0	56.6	126	\$760	97.5	1.0	45.8	94	\$848	99.0	2.8	62.0	
LSD	8					8					12					8					15					
<b>Roundup Ready</b>																										
6044 RR	91	\$691	88.0	1.3	44.3	94	\$848	–	1.0	–	108	\$669	97.0	2.8	47.2	93	\$557	95.3	1.5	42.3	98	\$882	101.0	2.3	56.1	
6060 RR	94	\$712	91.0	1.3	47.2	90	\$815	–	1.0	–	104	\$648	99.5	3.8	47.2	87	\$523	98.0	2.0	42.8	100	\$904	102.8	3.0	58.1	
6064 RR	97	\$734	90.0	1.5	45.8	88	\$801	–	1.0	–	105	\$653	99.8	2.5	46.8	99	\$595	99.3	1.8	43.3	101	\$910	99.8	2.3	52.7	
1990	99	\$751	86.8	2.8	43.8	97	\$878	–	1.3	–	100	\$619	98.0	6.0	42.8	96	\$574	94.0	2.8	41.3	103	\$931	97.0	2.3	55.1	
13DL30122	100	\$753	89.3	2.5	49.2	99	\$893	–	1.3	–	109	\$676	98.5	4.8	51.7	99	\$594	97.0	2.0	44.3	94	\$846	102.0	2.3	58.1	
V12-1*	96	\$793	85.8	2.5	45.3	97	\$967	–	1.0	–	108	\$740	98.5	3.8	45.3	104	\$687	96.0	2.5	43.8	100	\$994	100.8	2.3	55.1	
V12-2*	101	\$839	88.8	2.5	44.3	90	\$897	–	1.3	–	103	\$706	100.0	3.0	50.2	91	\$600	97.3	2.0	43.3	94	\$929	103.5	2.5	55.6	
SY4157*	101	\$761	90.8	2.0	50.7	102	\$922	–	1.3	–	116	\$721	100.8	2.0	53.6	107	\$644	97.5	2.3	43.8	99	\$894	103.5	2.0	59.5	
09H7763	101	\$762	87.5	2.8	45.3	107	\$970	–	1.5	–	109	\$679	99.0	5.3	45.8	102	\$613	94.8	2.3	43.3	97	\$871	99.5	2.5	56.6	
08H0004	103	\$778	92.8	2.3	49.7	80	\$723	–	1.0	–	110	\$684	102.0	2.0	56.6	114	\$685	100.5	2.0	43.3	97	\$873	105.5	2.0	58.6	
11DL30318	100	\$755	88.0	2.0	47.7	100	\$909	–	1.0	–	103	\$642	98.8	4.0	46.8	93	\$558	95.8	1.3	43.8	94	\$845	98.8	2.5	55.6	
13DL30323	100	\$760	89.0	1.5	48.2	102	\$924	–	1.0	–	112	\$694	100.3	3.5	49.2	105	\$634	98.3	1.5	43.3	114	\$1,025	101.8	2.0	56.6	
SY4114	102	\$772	88.3	3.0	44.3	101	\$911	–	2.3	–	91	\$566	97.3	7.0	41.8	95	\$574	94.3	2.0	42.3	88	\$790	96.3	2.8	51.2	
SY4135	99	\$749	86.8	2.8	44.8	99	\$893	–	1.8	–	103	\$642	96.5	7.3	40.8	89	\$537	95.3	2.5	41.3	89	\$800	97.5	2.8	47.2	
VR 9562 GC	103	\$783	86.3	1.8	48.2	101	\$919	–	1.0	–	105	\$655	95.8	5.3	48.2	100	\$598	95.5	2.3	43.3	93	\$837	97.5	2.3	57.1	
VT-SN 11-2786	101	\$764	86.3	2.0	46.3	99	\$901	–	1.0	–	111	\$688	96.3	4.8	47.2	94	\$566	95.0	2.3	42.3	86	\$774	97.5	2.0	54.6	
73-75 RR	100	\$757	86.0	3.8	41.8	100	\$906	–	1.8	–	100	\$622	95.8	7.5	43.8	100	\$601	94.0	2.5	41.8	100	\$902	97.3	3.0	51.2	
74-44 BL	100	\$753	87.3	2.8	43.3	103	\$932	–	1.5	–	109	\$679	96.8	6.5	42.3	87	\$523	95.3	3.0	41.8	105	\$945	98.0	2.5	52.7	
74-54 RR	101	\$764	85.0	3.0	42.3	101	\$917	–	2.0	–	101	\$626	97.8	6.8	43.3	103	\$617	95.5	2.5	43.3	100	\$898	97.0	2.8	52.2	
LSD	7					8					9					10					13					
CV	4.6					6.3					7.2					6.8					4.6					

\*Gross revenue for this Cargill Specialty Canola hybrid includes a premium of \$1.13/bu. Yield is rounded to the nearest whole number. Gross revenue is based on non-rounded yield. Gross revenue is yield multiplied by \$11.20/bu. VR 9560 CL is eligible for pricing premiums of \$15/MT (Alberta), \$25/MT (Saskatchewan) and \$35/MT (Manitoba) in addition to the price provided in the "Gross Revenues" column. Final premium amount will be dependent on delivery period. Contact Viterra for more details. SY4157, sponsored by Syngenta, was previously named 09H7757 and sponsored by Cargill in 2013.



## Mid Season Zone: Small plot results by location

Variety	Dauphin, MB					Aberdeen, SK					Foam Lake, SK					Melfort, SK					
	Yield (% 73-75 RR 65 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 30 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 73 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 59 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
<b>Clearfield</b>																					
5525 CL	83	\$497	88.5	1.0	37.0	86	\$239	94.5	–	37.2	89	\$604	99.0	2.3	32.5	102	\$559	94.0	1.3	38.9	
VR 9560 CL*	85	\$550	89.8	1.3	40.0	102	\$296	95.0	–	40.8	102	\$727	101.0	3.5	35.0	109	\$629	97.3	1.3	45.3	
LSD	17					18					13					4					
<b>Liberty Link</b>																					
5440	93	\$559	87.8	1.0	40.2	90	\$250	94.3	–	35.2	107	\$722	99.0	2.0	37.0	126	\$691	92.8	1.3	42.3	
L130	87	\$524	87.3	1.0	38.0	87	\$242	92.5	–	33.5	103	\$694	97.0	2.8	34.4	116	\$636	91.3	1.3	44.8	
L252	109	\$654	89.0	1.0	35.0	101	\$281	94.0	–	35.2	113	\$764	99.3	3.0	36.4	125	\$688	94.5	1.8	41.8	
L261	98	\$590	89.5	1.0	40.7	95	\$263	94.8	–	40.8	115	\$782	100.8	2.5	40.4	132	\$724	96.0	1.0	47.2	
LSD	8					11					3					6					
<b>Roundup Ready</b>																					
6044 RR	93	\$562	88.0	1.0	36.0	86	\$239	92.0	–	34.4	87	\$587	96.8	2.5	31.1	112	\$615	95.3	1.3	40.8	
6060 RR	85	\$511	93.3	1.3	38.8	85	\$237	94.0	–	34.7	95	\$640	101.5	3.5	33.5	112	\$617	96.5	2.3	41.8	
6064 RR	99	\$599	92.3	1.0	40.4	94	\$261	95.3	–	34.4	103	\$696	100.0	2.5	35.2	120	\$658	97.8	1.0	40.8	
1990	96	\$580	88.0	1.5	33.7	96	\$267	94.3	–	34.0	92	\$625	96.8	4.0	35.2	113	\$623	93.5	2.5	41.3	
13DL30122	95	\$571	89.3	1.0	40.6	92	\$255	95.0	–	39.1	102	\$692	97.8	3.0	39.6	121	\$663	96.5	2.3	45.3	
V12-1*	94	\$623	87.8	1.3	36.2	104	\$317	93.0	–	33.7	100	\$741	97.0	3.5	35.8	108	\$651	94.0	1.5	42.8	
V12-2*	79	\$520	87.5	1.3	32.7	85	\$259	94.8	–	34.9	87	\$650	98.0	3.5	32.9	97	\$585	96.0	1.5	38.9	
SY4157*	93	\$559	89.3	1.0	37.8	104	\$288	94.8	–	38.4	110	\$743	99.5	3.0	37.2	114	\$626	97.0	1.3	45.8	
09H7763	88	\$531	88.8	1.0	35.4	98	\$272	94.0	–	35.7	101	\$685	98.8	3.0	34.1	106	\$582	96.0	1.3	41.8	
08H0004	87	\$527	94.5	1.0	42.1	95	\$264	95.3	–	37.9	107	\$728	100.8	2.5	37.2	127	\$698	99.0	1.3	42.8	
11DL30318	90	\$542	88.3	1.0	36.4	95	\$265	94.5	–	34.4	97	\$654	98.8	2.8	35.6	104	\$574	95.8	1.8	40.4	
13DL30323	100	\$600	92.0	1.0	37.4	100	\$276	95.3	–	34.9	111	\$755	98.3	2.3	36.0	121	\$667	96.8	1.3	41.8	
SY4114	90	\$543	87.0	1.3	34.4	87	\$242	92.8	–	33.5	98	\$666	95.5	3.5	34.1	98	\$538	90.5	1.8	40.4	
SY4135	84	\$509	86.5	1.8	33.5	95	\$265	93.5	–	34.9	94	\$638	95.8	4.0	34.4	95	\$521	93.0	3.0	38.4	
VR 9562 GC	102	\$614	88.3	1.0	38.8	99	\$275	93.5	–	35.4	110	\$742	99.3	3.3	39.6	116	\$636	92.5	2.5	39.4	
VT-SN 11-2786	92	\$554	87.0	1.5	37.4	102	\$283	93.8	–	35.2	95	\$644	97.0	3.3	34.6	105	\$577	94.0	1.3	41.3	
73-75 RR	100	\$602	87.8	1.3	32.3	100	\$278	92.8	–	33.0	100	\$677	95.8	4.0	33.5	100	\$550	91.0	2.3	37.4	
74-44 BL	101	\$611	88.0	1.0	37.0	93	\$259	93.0	–	32.0	91	\$616	96.3	4.0	33.7	99	\$547	93.8	2.3	39.9	
74-54 RR	101	\$609	86.5	1.5	36.0	93	\$259	93.3	–	33.5	98	\$666	95.5	4.0	32.1	101	\$557	90.3	2.8	42.3	
LSD	13					11					8					8					
CV	8.6					7.9					6.7					5.1					

\*Gross revenue for this Cargill Specialty Canola hybrid includes a premium of \$1.13/bu. Yield is rounded to the nearest whole number. Gross revenue is based on non-rounded yield. Gross revenue is yield multiplied by \$11.20/bu. VR 9560 CL is eligible for pricing premiums of \$15/MT (Alberta), \$25/MT (Saskatchewan) and \$35/MT (Manitoba) in addition to the price provided in the "Gross Revenues" column. Final premium amount will be dependent on delivery period. Contact Viterra for more details. SY4157, sponsored by Syngenta, was previously named 09H7757 and sponsored by Cargill in 2013.

# CANOLA PERFORMANCE TRIALS 2014 RESULTS

## Mid Season Zone: Small plot results by location

Variety	North Battleford, SK					Saskatoon, SK					Swift Current, SK				
	Yield (% 73-75 RR 62 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 69 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 37 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)
<b>Clearfield</b>															
5525 CL	105	\$605	94.0	1.3	38.9	87	\$725	97.0	1.0	47.7	83	\$288	92.8	1.0	44.9
VR 9560 CL*	114	\$695	97.3	1.3	45.3	97	\$843	98.8	1.8	50.7	86	\$311	95.0	1.0	48.2
LSD	9					5					13				
<b>Liberty Link</b>															
5440	117	\$678	92.8	1.3	42.3	102	\$849	97.0	1.0	53.1	91	\$317	95.8	1.0	45.6
L130	111	\$644	91.3	1.3	44.8	102	\$842	93.0	1.0	49.2	85	\$296	93.0	1.0	45.0
L252	126	\$729	94.5	1.8	41.8	111	\$917	96.0	1.3	50.2	92	\$318	95.0	1.0	46.2
L261	124	\$719	96.0	1.0	47.2	108	\$897	98.5	1.8	55.1	80	\$277	93.3	1.0	46.8
LSD	8					6					11				
<b>Roundup Ready</b>															
6044 RR	104	\$600	95.3	1.3	40.8	97	\$803	97.0	1.3	47.2	86	\$300	96.8	1.0	43.1
6060 RR	108	\$625	96.5	2.3	41.8	96	\$798	99.0	2.3	48.2	85	\$294	96.5	1.0	47.5
6064 RR	109	\$631	97.8	1.0	40.8	94	\$777	98.0	1.0	45.3	91	\$316	98.8	1.0	43.3
1990	105	\$608	93.5	2.5	41.3	97	\$802	94.5	2.5	47.7	96	\$331	94.3	1.0	44.4
13DL30122	120	\$693	96.5	2.3	45.3	103	\$852	96.5	2.3	52.7	85	\$296	97.0	1.0	48.2
V12-1*	109	\$692	94.0	1.5	42.8	105	\$955	95.0	1.3	50.2	83	\$317	96.0	1.0	45.5
V12-2*	100	\$633	96.0	1.5	38.9	91	\$832	97.8	2.0	47.7	84	\$318	97.5	1.0	43.5
SY4157*	117	\$676	97.0	1.3	45.8	101	\$841	98.0	2.0	51.2	85	\$296	96.8	1.0	47.1
09H7763	114	\$659	96.0	1.3	41.8	103	\$857	97.3	1.0	52.2	74	\$258	97.5	1.0	46.8
08H0004	112	\$647	99.0	1.3	42.8	97	\$806	100.3	1.5	49.2	81	\$282	99.5	1.0	46.0
11DL30318	104	\$601	95.8	1.8	40.4	98	\$816	95.0	1.3	48.7	77	\$267	92.8	1.0	45.9
13DL30323	119	\$689	96.8	1.3	41.8	104	\$860	97.8	1.3	50.2	92	\$318	96.5	1.0	45.5
SY4114	102	\$592	90.5	1.8	40.4	94	\$782	91.8	2.5	45.8	91	\$315	95.0	1.0	43.3
SY4135	107	\$618	93.0	3.0	38.4	90	\$746	93.5	2.5	44.8	92	\$318	95.0	1.0	44.2
VR 9562 GC	105	\$609	92.5	2.5	39.4	103	\$852	94.8	2.3	48.7	94	\$325	95.5	1.0	49.9
VT-SN 11-2786	103	\$596	94.0	1.3	41.3	98	\$810	94.3	2.0	47.2	95	\$331	93.5	1.0	45.0
73-75 RR	100	\$579	91.0	2.3	37.4	100	\$829	92.3	2.3	46.3	100	\$347	94.8	1.0	44.7
74-44 BL	107	\$616	93.8	2.3	39.9	89	\$739	94.3	2.5	44.8	85	\$295	93.5	1.0	44.0
74-54 RR	101	\$587	90.3	2.8	42.3	102	\$842	90.0	2.3	46.3	88	\$306	94.3	1.0	46.5
LSD	7					7					13				
CV	4.3					4.4					10.6				

\*Gross revenue for this Cargill Specialty Canola hybrid includes a premium of \$1.13/bu. Yield is rounded to the nearest whole number. Gross revenue is based on non-rounded yield. Gross revenue is yield multiplied by \$11.20/bu. VR 9560 CL is eligible for pricing premiums of \$15/MT (Alberta), \$25/MT (Saskatchewan) and \$35/MT (Manitoba) in addition to the price provided in the "Gross Revenues" column. Final premium amount will be dependent on delivery period. Contact Viterra for more details. SY4157, sponsored by Syngenta, was previously named 09H7757 and sponsored by Cargill in 2013.

Variety	Wakaw, SK					Yorkton, SK					Forestburg, AB				
	Yield (% 73-75 RR 48 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 82 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 55 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)
<b>Clearfield</b>															
5525 CL	96	\$399	87.3	1.0	53.4	94	\$713	99.0	3.0	39.0	81	\$410	101.0	1.0	44.4
VR 9560 CL*	96	\$418	87.3	1.0	58.3	109	\$873	101.5	3.8	43.5	81	\$414	101.0	1.0	45.8
LSD	7					16					12				
<b>Liberty Link</b>															
5440	100	\$417	86.3	1.0	53.2	107	\$812	99.0	2.0	42.3	97	\$495	101.0	1.0	43.8
L130	103	\$430	85.5	1.0	49.8	101	\$770	97.0	2.3	40.0	96	\$491	99.0	1.0	42.4
L252	97	\$404	87.0	1.0	52.9	115	\$877	99.5	2.8	40.7	106	\$540	100.0	1.3	42.4
L261	109	\$455	87.0	1.0	59.8	121	\$920	100.8	2.5	44.9	101	\$515	102.0	1.0	45.2
LSD	14					6					11				
<b>Roundup Ready</b>															
6044 RR	102	\$424	86.5	1.0	49.3	92	\$700	98.5	3.0	36.0	103	\$527	101.0	1.0	43.1
6060 RR	111	\$462	87.0	1.0	53.0	101	\$766	102.3	3.3	37.2	98	\$498	101.0	1.3	42.4
6064 RR	109	\$452	86.8	1.0	51.6	102	\$777	100.0	2.5	36.8	107	\$547	103.0	1.0	43.1
1990	115	\$479	87.0	1.0	51.3	98	\$746	99.3	4.0	39.4	113	\$574	101.0	1.5	45.8
13DL30122	115	\$478	87.0	1.0	55.4	104	\$791	99.8	3.5	42.7	99	\$502	101.0	1.3	45.2
V12-1*	111	\$507	86.0	1.0	49.9	102	\$851	98.0	3.3	40.9	108	\$606	101.0	1.3	43.1
V12-2*	98	\$447	86.3	1.0	46.0	90	\$754	99.3	4.0	37.2	99	\$554	101.0	1.0	43.1
SY4157*	115	\$481	86.8	1.0	54.5	103	\$783	99.8	3.5	40.0	106	\$539	101.0	1.0	43.8
09H7763	99	\$411	86.0	1.0	54.2	106	\$804	99.5	3.5	41.5	108	\$552	101.0	1.3	43.0
08H0004	96	\$401	87.3	1.0	55.5	105	\$798	101.3	3.0	40.0	109	\$557	103.0	1.3	47.2
11DL30318	97	\$405	86.8	1.0	52.1	95	\$725	98.8	3.5	41.3	100	\$511	101.0	1.0	43.1
13DL30323	111	\$461	87.0	1.0	53.0	110	\$838	100.0	3.3	39.0	111	\$567	100.0	1.0	42.4
SY4114	93	\$385	85.8	1.0	52.0	100	\$763	96.5	3.8	35.2	99	\$505	101.0	1.3	43.1
SY4135	93	\$385	86.3	1.0	50.0	94	\$718	96.5	4.0	36.4	103	\$524	101.0	1.8	39.6
VR 9562 GC	105	\$439	86.0	2.0	51.8	105	\$798	98.5	4.0	40.2	101	\$512	100.0	1.0	48.6
VF-SN 11-2786	103	\$428	85.8	1.0	49.4	97	\$741	99.0	3.8	37.0	102	\$517	101.0	1.3	41.7
73-75 RR	100	\$416	86.0	1.3	49.9	100	\$762	98.5	4.0	37.8	100	\$509	101.0	1.0	37.5
74-44 BL	100	\$417	86.3	1.0	51.1	95	\$723	99.0	4.0	36.2	102	\$521	101.0	1.3	44.4
74-54 RR	100	\$417	85.5	1.0	50.8	108	\$822	96.8	4.0	37.4	100	\$510	100.0	1.0	41.7
LSD	16					5					4				
CV	10.6					4.4					8.0				

\*Gross revenue for this Cargill Specialty Canola hybrid includes a premium of \$1.13/bu. Yield is rounded to the nearest whole number. Gross revenue is based on non-rounded yield. Gross revenue is yield multiplied by \$11.20/bu. VR 9560 CL is eligible for pricing premiums of \$15/MT (Alberta), \$25/MT (Saskatchewan) and \$35/MT (Manitoba) in addition to the price provided in the "Gross Revenues" column. Final premium amount will be dependent on delivery period. Contact Viterra for more details. SY4157, sponsored by Syngenta, was previously named 09H7757 and sponsored by Cargill in 2013.

# CANOLA PERFORMANCE TRIALS 2014 RESULTS

## Mid Season Zone: Small plot results by location

Variety	Lamont, AB					Tofield, AB					Vermillion, AB					Vulcan, AB					
	Yield (% 73-75 RR 77 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 66 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 44 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 73-75 RR 31 bu./ac.)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
<b>Clearfield</b>																					
5525 CL	94	\$675	97.5	2.3	51.2	101	\$620	-	4.0	47.9	93	\$384	96.3	-	43.6	90	\$259	90.8	-	-	
VR 9560 CL*	97	\$698	101.3	3.8	56.1	101	\$620	-	4.0	58.3	106	\$436	96.8	-	45.3	88	\$251	91.8	-	-	
LSD	7					30					29					5					
<b>Liberty Link</b>																					
5440	106	\$765	100.0	1.0	55.6	114	\$694	-	4.0	54.2	106	\$439	94.8	-	41.6	106	\$305	94.8	-	-	
L130	110	\$791	98.8	1.8	54.1	101	\$618	-	4.0	56.3	111	\$458	94.8	-	41.3	92	\$264	92.5	-	-	
L252	113	\$811	98.8	2.5	52.2	105	\$640	-	4.0	50.0	100	\$413	94.8	-	42.8	101	\$289	96.0	-	-	
L261	113	\$810	101.0	1.5	62.5	115	\$701	-	4.0	58.3	94	\$387	96.0	-	47.5	90	\$259	96.0	-	-	
LSD	10					8					26					9					
<b>Roundup Ready</b>																					
6044 RR	95	\$686	100.8	1.8	50.2	105	\$642	-	4.0	45.8	98	\$404	95.8	-	41.6	97	\$278	94.0	-	-	
6060 RR	89	\$638	100.5	2.0	52.2	108	\$658	-	4.0	45.8	97	\$402	96.8	-	44.8	83	\$238	98.8	-	-	
6064 RR	93	\$670	101.3	2.0	49.2	109	\$666	-	4.0	45.8	106	\$437	97.0	-	42.8	87	\$250	96.8	-	-	
1990	94	\$674	99.0	2.8	50.2	111	\$677	-	4.0	47.9	107	\$442	97.3	-	43.8	94	\$270	95.3	-	-	
13DL30122	94	\$674	101.3	2.3	58.1	110	\$670	-	4.0	47.9	105	\$433	96.8	-	44.8	98	\$280	93.5	-	-	
V12-1*	103	\$814	99.8	3.0	51.2	106	\$714	-	4.0	41.7	107	\$485	96.3	-	45.5	97	\$306	94.5	-	-	
V12-2*	95	\$751	100.3	2.0	50.2	108	\$724	-	4.0	45.8	102	\$463	95.8	-	41.1	86	\$272	97.3	-	-	
SY4157*	102	\$734	101.8	2.3	54.6	123	\$753	-	4.0	41.7	112	\$461	96.5	-	46.3	91	\$260	96.3	-	-	
09H7763	101	\$726	98.0	3.0	51.2	126	\$769	-	4.0	47.9	96	\$396	95.0	-	42.1	80	\$230	94.0	-	-	
08H0004	90	\$651	102.5	2.3	59.5	114	\$695	-	4.0	54.2	102	\$421	98.5	-	44.8	84	\$242	99.0	-	-	
11DL30318	95	\$681	100.3	2.3	51.7	107	\$654	-	4.0	45.8	94	\$388	96.5	-	41.8	102	\$292	93.5	-	-	
13DL30323	100	\$717	100.0	2.3	51.7	126	\$766	-	4.0	45.8	124	\$512	69.3	-	42.3	105	\$302	95.0	-	-	
SY4114	97	\$700	97.5	2.8	49.7	109	\$668	-	4.0	45.8	104	\$429	95.5	-	40.4	105	\$301	94.3	-	-	
SY4135	94	\$677	98.0	2.8	51.7	97	\$593	-	4.0	41.7	87	\$360	95.5	-	42.6	99	\$284	92.0	-	-	
VR 9562 GC	95	\$685	98.3	2.5	53.6	114	\$698	-	4.0	50.0	109	\$448	94.5	-	46.3	110	\$314	92.0	-	-	
VT-SN 11-2786	97	\$700	98.0	2.5	51.2	113	\$690	-	4.0	43.8	112	\$462	94.3	-	40.6	97	\$279	93.8	-	-	
73-75 RR	100	\$720	97.5	3.3	51.2	100	\$611	-	4.0	45.8	100	\$413	95.8	-	41.6	100	\$287	92.8	-	-	
74-44 BL	96	\$690	100.0	2.8	51.2	116	\$709	-	4.0	47.9	109	\$451	95.8	-	42.1	87	\$250	93.5	-	-	
74-54 RR	94	\$679	97.0	3.5	52.7	115	\$704	-	4.0	43.8	102	\$421	95.5	-	40.8	106	\$305	94.8	-	-	
LSD	7					15					14					14					
CV	5.5					7.8					10.9					9.9					

\*Gross revenue for this Cargill Specialty Canola hybrid includes a premium of \$1.13/bu. Yield is rounded to the nearest whole number. Gross revenue is based on non-rounded yield. Gross revenue is yield multiplied by \$11.20/bu. VR 9560 CL is eligible for pricing premiums of \$15/MT (Alberta), \$25/MT (Saskatchewan) and \$35/MT (Manitoba) in addition to the price provided in the "Gross Revenues" column. Final premium amount will be dependent on delivery period. Contact Viterra for more details. SY4157, sponsored by Syngenta, was previously named 09H7757 and sponsored by Cargill in 2013.



# CANOLA PERFORMANCE TRIALS 2014 RESULTS

## Field Scale Trial Yield Results

Field scale trials are managed by growers using their typical production practices. Trials are planted, swathed, harvested and, when necessary, sprayed by growers using the respective herbicide systems according to established protocols. Individual plots range from 0.5 to 1.5 acres. Results below are given as a percentage of the check, 73-75 RR. Yield in bu./ac. for 73-75 RR for each location is given in brackets at the end of each row.

Location	2014 Yield Results (% of check, 73-75 RR)									
	Roundup Ready					Liberty Link				
	1990	73-15 RR	74-44 BL	74-54 RR	SV4135	5440	L130	L252	L261	73-75 RR (bu./ac.)
<b>Long Season Zone</b>	103	99	105*	102		104	105*	108*	104*	100 (46)
Bagot, MB				121		117	124	120	117	100 (47)
Carlyle, SK				103		119	119	100	97	100 (34)
Cranford, AB	102	101	115	112			106	104	100	100 (71)
Glenside, SK		108	116	98						100 (38)
Gretna, MB						116	108	117	115	100 (52)
Howden, MB			102	96				104	105	100 (47)
Killarney, MB			103	101			95	98	104	100 (42)
Lampman, SK		93	110	101		107	127	113	126	100 (42)
Langenburg, SK		95	101	104				109	108	100 (44)
Magrath, AB	102		105	98		109	107	108	104	100 (52)
Medicine Hat 1, AB	96		103	98		94		107	95	100 (35)
Medicine Hat 2, AB			102	98			94	106	92	100 (42)
Melita MB,			97			97	106	102	89	100 (39)
Miami, MB			111	101						100 (47)
Moosomin 1, SK	99		106	95	91					100 (48)
Moosomin 2, SK				99			103	107	106	100 (43)
Nobleford, AB	108		108	102			108	107	102	100 (60)
Oakbluff, MB						107	104	111	107	100 (45)
Petersfield, MB						97	103	104	101	100 (55)
Pilot Mound, MB				117		81	80		101	100 (32)
Roblin 1, MB			103	112			110	110	103	100 (54)
Roblin 2, MB			103	103		92	88			100 (50)
Roblin 3, MB		97	108	111			103	112	102	100 (52)
Russell, MB			106			112	112	111	108	100 (47)
Somerset, MB	109		114	101			94	113	91	100 (52)
St. Adolph, MB			101			109		113	110	100 (48)

Location	2014 Yield Results (% of check, 73-75 RR)									
	Roundup Ready					Liberty Link				
	1990	73-15 RR	74-44 BL	74-54 RR	SV4135	5440	L130	L252	L261	73-75 RR (bu./ac.)
Strongfield, SK			101	104	102					100 (40)
Swan Lake, MB			111	101						100 (50)
Turin, AB										100 (43)
Westbourne, MB			95	86						100 (32)
Whitewood, SK			104	98						100 (53)
<b>Mid Season Zone</b>	103	101	104*	101	103	110*	106*	107*	107*	100 (45)
Alvena, SK										100 (46)
Andrew, AB		99	103	100			99	103	104	100 (54)
Arborg 1, MB		109	110	98	108		107	104		100 (56)
Arborg 2, MB	109		103	98	100					100 (52)
Bawlf, AB		98	101	101			115	113		100 (49)
Biggar, SK						123	125	110	110	100 (57)
Bruno 2, SK										100 (50)
Camrose, AB		118	123	113			126	112		100 (42)
Canora 1, SK			103							100 (40)
Canora 2, SK	100	115	120	112		120		110		100 (36)
Canora 3, SK						107	102	103	104	100 (52)
Caron, SK										100 (43)
Carseland, AB			85			92	92	108	86	100 (41)
Castor, AB	103	98	98	98	98		94	101	100	100 (52)
Corinne, SK			99	101			103	121	129	100 (38)
Cudworth, SK										100 (39)
Davidson, SK										100 (43)
Denzil, SK	126		102	101			95	101	95	100 (30)
Eston, SK						103	117	108	103	100 (56)
Fulda, SK	103		101	105	111	130			133	100 (38)
Hafford, SK	109		106	103			105	97		100 (45)

\*Denotes 5% level of statistical significance using paired t-tests. Note that the paired t-tests in large scale tables only compare individual varieties to the check variety 73-75 and not to each other.

When comparing average results between varieties, consider the number of test sites for each variety. Field scale trials occasionally produce data that is above or below the expected range. If agronomic observations cannot explain these outliers, then they are checked against the statistical limits of deviation established by the Canola Performance Trials technical committee. If the data falls outside the limits, it is removed. For more details on individual trials and for data from sites that reported after this booklet went to print, visit [www.canolaperformancetrials.ca](http://www.canolaperformancetrials.ca).

Location	2014 Yield Results (% of check, 73-75 RR)									
	Roundup Ready					Liberty Link				
	1990	73-15 RR	74-44 BL	74-54 RR	SV4135	5440	L130	L252	L261	73-75 RR (bu./ac.)
Hanley, SK	97		104	103		103	107		101	100 (42)
Herbert, SK			97	91						100 (38)
Indian Head, SK		95	106	101						100 (44)
Kitscoty, AB				108		105	103	105	107	100 (52)
Lone Rock, SK		100	104	95	102					100 (39)
Margo, SK	98	97	104	99			110	110		100 (37)
Melfort 1, SK	104	96	107	100						100 (40)
Melfort 2, SK				116		124	126	135	132	100 (37)
Melville, SK	101	88	91	93						100 (32)
Morinville, AB			91	88			83	91		100 (52)
Mortlach, SK			99	101						100 (46)
Mundare 1, AB		113	107	117			106	120	104	100 (41)
Mundare 2, AB		99	106	99			106	102		100 (50)
Neilburg, SK		101	118	123	112	124	118			100 (36)
North Battleford 1, SK		122	125	105			133	126		100 (44)
North Battleford 2, SK						106	105	106	106	100 (54)
Red Willow, AB				95		101	97	104	109	100 (48)
Regina, SK			101			96	90	102	101	100 (48)
Rhein, SK	107	88	105	105						100 (51)
Rockyford, AB	92		91	93						100 (36)
Rose Valley, SK	106	100	108	104		113	113	107		100 (50)
Rumsey, AB										100 (51)
Saskatoon, SK						112	115		130	100 (44)
Sedley, SK			87	97			86		90	100 (45)
Standard, AB	94		113	99						100 (34)
Swan River, MB				99		93	90	103	100	100 (48)
Tisdale, SK						104	103	107	109	100 (57)

Location	2014 Yield Results (% of check, 73-75 RR)									
	Roundup Ready					Liberty Link				
	1990	73-15 RR	74-44 BL	74-54 RR	SV4135	5440	L130	L252	L261	73-75 RR (bu./ac.)
Veteran, AB				99		102	103	103	102	100 (55)
Vulcan 1, AB	100	97	103	101	97					100 (53)
Vulcan 2, AB			100	98			95	94	90	100 (47)
Vulcan, AB						109	107	97	96	100 (38)
Waldheim, SK	111		106	104	100	117	117	111	114	100 (47)
Watrous, SK						122	113	114	114	100 (40)
Wetaskiwin, AB	92	96	104	88			110	104		100 (52)
Wilkie, SK	105		108	97			113	101	115	100 (37)
Wishart, SK										100 (61)
Yellow Grass, SK		92	102	105			88	96	88	100 (43)
<b>Short Season Zone</b>		102	104	105		105	109	105	108	100 (41)
Charlie Lake, BC	86	120	117	122						100 (29)
Dawson Creek, BC			107			116	109	116		100 (31)
Fairview, AB				107		116	120	111	103	100 (30)
Grande Prairie, AB		91	94	107						100 (50)
High River, AB			93			93	100	105		100 (55)
Legal, AB				102		98	98	99	96	100 (57)
Peace River, AB		96	98	96			90	92		100 (34)
Ponoka, AB				99		103	108	111	96	100 (44)
Prince Albert, SK		107	118	106			139		127	100 (32)
Shellbrook 1, SK		112	111	104			126		120	100 (44)
St. Isidore, AB		86	94	106			102	101		100 (30)
Westlock, AB			101	98			104	104		100 (62)
<b>Overall Average</b>	102	101	104*	102*	102	107*	106*	107*	106*	100 (45)

\*Denotes 5% level of statistical significance using paired t-tests. Note that the paired t-tests in large scale tables only compare individual varieties to the check variety 73-75 and not to each other.

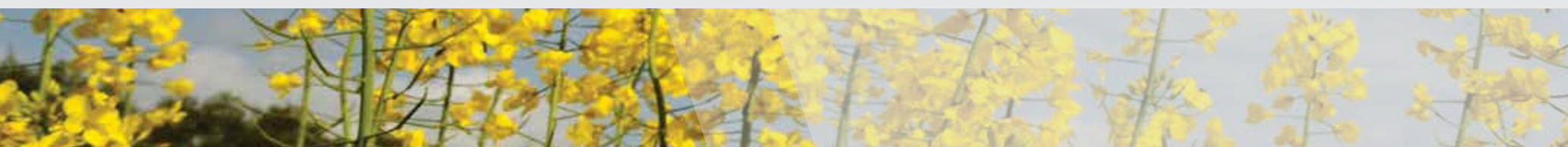


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