

Table 1 Quality data for 2025 harvest samoles of Canola, No. 1, by province and crop district

Crop district	Number of samples	Oil content			Protein content		Protein content of oil-free meal		Chlorophyll content			Total glucosinolate content of seeds			Total glucosinolates content of oil-free meal			Distinctly green seeds (DGR)	Free fatty acid content (FFA)	Samples graded Canola No.1 CaNSda
		% , 8.5 moisture basis					% , 12% moisture basis		mg/kg, as is			µmol/g, 8.5% moisture basis			µmol/g					
		Average	Min	Max	Average	Min	Max	%	Average	Min	Max	Average	Min	Max	µmol/g	%	% in oil as oleic acid			
Manitoba																				
1	20	42.4	40.1	44.8	21.3	20.1	23.7	38.2	5	3	20	11	8	14	20	0.5	0.3	87.0		
2	25	43.1	39.3	48.4	21.6	18.0	24.1	39.2	6	3	33	12	5	15	21	0.6	0.4	92.6		
3	47	42.6	39.3	48.4	22.0	17.6	24.2	39.5	7	3	17	11	3	14	19	0.5	0.3	92.2		
4	20	43.0	41.2	46.7	21.3	18.6	22.7	38.7	5	3	20	11	7	14	19	0.4	0.4	100.0		
5	14	42.1	39.4	46.2	22.5	19.0	24.8	40.1	7	4	14	14	8	16	23	0.7	0.7	100.0		
6	15	42.1	40.3	45.6	21.9	20.2	23.2	39.0	3	3	12	12	8	14	20	0.4	0.4	100.0		
7	47	42.5	39.0	46.7	22.4	20.1	25.0	40.3	6	3	14	12	7	19	21	0.6	1.0	92.3		
8	92	43.1	39.6	49.1	21.6	16.9	24.3	39.2	5	3	22	12	6	16	21	0.6	0.5	94.8		
9, 10	22	43.1	41.8	45.3	21.4	19.9	23.3	38.9	5	3	13	12	8	16	21	0.8	0.5	100.0		
11	NS ⁺	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	66.7		
12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50.0		
All Manitoba sample	302	42.7	39.0	49.1	21.8	16.9	25.0	39.3	5	3	33	12	3	19	21	0.5	0.5	94.3		
Saskatchewan																				
1	17	43.5	40.9	47.2	20.4	17.3	24.0	37.4	4	3	12	11	7	13	19	0.2	0.2	65.4		
2	18	42.9	39.8	47.2	21.7	18.9	23.9	39.2	6	3	17	12	5	15	21	0.3	0.1	100.0		
3, 4	21	40.8	38.0	47.2	23.2	19.4	25.9	40.2	6	3	16	14	9	17	21	0.5	0.1	95.5		
5	44	43.1	39.8	47.0	21.4	18.3	24.3	38.9	6	3	25	11	7	13	20	0.4	0.2	95.7		
6	43	42.5	38.4	47.8	22.0	17.4	24.1	39.4	8	3	17	11	8	13	19	0.3	0.1	97.7		
7	22	42.0	37.8	47.3	22.6	18.1	25.9	40.2	8	3	25	13	9	19	21	0.4	0.1	100.0		
8	15	42.1	39.0	45.0	22.6	17.9	26.2	40.2	6	3	32	15	7	28	25	0.3	0.1	93.8		
9	24	43.4	41.0	47.7	21.2	18.8	24.9	38.8	6	3	15	13	8	16	23	0.3	0.2	92.6		
10	23	44.1	40.7	46.8	20.9	16.6	23.3	38.8	10	4	20	12	6	19	21	0.4	0.1	96.0		
11	72	43.0	40.0	47.7	21.9	18.6	25.0	39.7	9	3	30	11	7	19	20	0.5	0.1	93.6		
12	23	43.6	40.3	46.2	21.0	18.8	23.7	38.5	6	4	17	10	6	15	18	0.3	0.1	100.0		
13	58	44.1	39.7	49.0	20.5	15.2	24.1	38.0	5	3	20	12	6	21	21	0.2	0.1	98.4		
14	63	43.5	39.1	46.1	21.7	18.8	25.8	39.8	10	3	26	11	5	22	18	0.7	0.3	94.0		
15	48	44.0	40.3	48.4	21.3	18.5	24.2	39.4	12	4	27	12	5	21	21	0.7	0.2	92.0		
16	45	44.1	40.8	47.8	21.4	17.6	24.3	39.8	9	3	28	11	6	17	20	0.6	0.1	91.8		
17	33	43.9	39.8	48.4	21.5	17.3	25.2	39.7	7	3	18	12	7	25	20	0.5	0.1	94.3		
Saskatchewan samp	569	43.3	37.8	49.0	21.5	15.2	26.2	39.2	8	3	32	12	5	28	20	0.4	0.2	86.4		
Alberta and British Columbia																				
1	7	44.6	39.9	48.5	21.0	17.2	23.9	38.8	4	3	9	13	10	18	24	0.1	0.1	100.0		
2	52	43.2	39.1	48.5	21.9	17.5	26.5	39.7	7	3	26	11	5	16	20	0.4	0.1	94.8		
3	47	45.3	39.9	50.8	20.4	15.6	23.5	39.0	11	3	36	11	5	17	19	0.5	0.1	98.0		
4	212	44.3	38.5	50.0	21.6	16.3	26.5	40.2	10	3	32	11	5	19	20	0.5	0.2	96.4		
5	65	45.2	41.7	48.5	20.6	17.5	23.1	39.1	9	2	37	10	6	16	18	0.5	0.1	94.2		
6	42	45.8	42.0	50.2	20.3	16.9	24.8	39.0	6	4	21	10	5	15	18	0.3	0.2	97.7		
7	98	44.5	41.1	50.5	22.0	16.0	24.9	41.1	8	3	28	12	7	22	22	0.6	0.2	98.0		
BC (7)	13	44.7	39.5	48.1	21.2	18.1	23.9	39.9	5	3	30	10	6	14	19	0.4	0.1	100.0		
All Alberta and BC samples	536	44.5	38.5	50.8	21.3	15.6	26.5	39.9	8	3	37	11	5	22	20	0.5	0.2	96.6		
Western Canada																				
Western Canada	1,407	43.6	37.8	50.8	21.5	15.2	26.5	39.4	8	3	37	12	3	28	20	0.5	0.2	94.5		

* NS = Not sufficient. Insufficient number of samples to generate a representative value.

Table 2 Fatty acid composition for 2025 harvest samples of Canola, No. 1 CaNSda, by province and crop district

Crop district	Palmitic acid (C16:0)	Stearic acid (C18:0)	Oleic acid (C18:1)			Linoleic acid (C18:2)			α-Linolenic Acid (C18:3)			Erucic acid (C22:1)	Total saturates			Iodine value		
	Average	Average	Average	Min	Max	Average	Min	Max	% in oil				Average	Min	Max	units in oil		
									Average	Min	Max					Average	Min	Max
Manitoba																		
1	3.9	1.8	64.4	60.2	66.5	17.7	16.7	20.5	8.8	7.7	10.0	0.00	6.9	6.3	7.1	110.3	108.4	114.7
2	3.9	1.7	63.5	60.9	65.6	18.4	17.1	20.5	8.9	8.2	10.3	0.00	6.7	6.2	7.0	111.4	109.7	116.4
3	3.9	1.6	63.3	60.2	65.8	18.0	17.3	20.8	9.6	8.2	10.8	0.02	6.7	5.9	7.0	112.1	109.5	117.3
4	3.9	1.7	64.1	61.8	66.3	17.5	16.9	20.1	9.2	7.9	9.8	0.00	6.8	6.2	7.0	110.9	108.6	114.5
5	3.8	1.7	64.0	62.7	65.4	17.5	17.1	19.4	9.4	8.2	10.4	0.01	6.6	6.3	6.8	111.4	109.2	114.1
6	3.8	1.8	64.4	60.5	66.3	17.7	16.9	20.5	8.8	7.6	10.5	0.00	6.7	6.1	6.9	110.4	108.8	116.6
7	3.9	1.6	63.5	60.5	66.4	18.5	16.9	20.5	9.0	7.6	10.6	0.00	6.6	5.9	7.0	111.6	108.8	116.1
8	3.9	1.7	63.7	58.2	66.1	18.6	17.1	21.7	8.6	7.4	12.8	0.00	6.8	6.2	7.3	110.9	108.5	119.6
9, 10	3.9	1.7	64.2	61.6	66.8	18.3	16.8	20.3	8.5	7.7	10.5	0.00	6.7	6.3	7.0	110.5	108.7	114.4
11	NS*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
All Manitoba samples	3.9	1.7	63.9	58.2	66.8	18.1	16.7	21.7	9.0	7.4	12.8	0.00	6.7	5.9	7.3	111.1	108.4	119.6
Saskatchewan																		
1	3.9	1.8	64.3	61.2	66.1	17.9	16.8	20.6	8.9	8.1	10.2	0.00	6.8	6.2	7.1	110.8	109.1	115.6
2	3.9	1.8	64.9	61.2	66.7	17.7	16.6	21.0	8.3	7.3	9.1	0.00	6.8	6.1	7.1	109.6	108.1	115.1
3, 4	3.7	2.0	65.3	62.4	66.8	17.2	16.3	19.9	8.3	6.9	8.9	0.00	6.9	6.2	7.2	109.1	108.0	113.5
5	3.9	1.7	64.2	60.0	67.3	17.8	16.9	20.6	9.0	7.0	10.5	0.00	6.8	6.1	7.0	110.8	107.2	116.0
6	3.9	1.8	64.9	60.7	67.7	17.4	16.4	20.4	8.5	6.4	10.1	0.00	6.9	6.3	7.3	109.5	107.0	116.6
7	3.8	1.9	64.9	59.8	67.0	17.6	16.8	20.5	8.4	7.1	10.3	0.00	6.9	6.4	7.1	109.7	106.9	115.3
8	3.7	1.9	65.6	61.9	67.0	16.8	16.4	18.9	8.6	7.5	10.3	0.00	6.8	6.1	7.0	109.3	107.4	114.1
9	3.9	1.7	63.7	60.0	66.6	17.7	16.3	20.5	9.4	8.0	10.7	0.01	6.8	6.3	7.0	111.5	107.9	116.7
10	3.9	1.7	64.1	60.8	67.0	17.4	16.3	20.2	9.4	7.9	10.7	0.00	6.7	6.3	7.0	111.3	108.6	114.4
11	3.8	1.7	64.7	58.8	68.2	17.3	16.4	21.0	8.9	6.9	11.7	0.01	6.7	6.2	7.0	110.5	106.5	118.2
12	3.7	1.9	65.6	62.1	67.1	17.0	16.3	19.5	8.4	7.6	10.1	0.00	6.8	6.2	7.2	109.1	107.1	114.1
13	3.8	1.8	65.3	59.1	67.8	17.3	16.2	20.5	8.3	6.7	11.6	0.00	6.8	6.0	7.1	109.1	106.2	117.6
14	4.0	1.5	63.1	58.3	67.1	18.4	16.5	21.0	9.4	7.3	12.3	0.02	6.6	6.0	7.0	112.2	108.0	119.6
15	3.9	1.6	63.3	57.9	66.8	18.3	16.9	21.8	9.6	6.5	12.3	0.00	6.5	6.3	7.2	112.5	107.2	119.6
16	3.8	1.6	63.5	59.3	66.1	18.1	16.6	21.0	9.5	8.2	11.6	0.00	6.5	6.1	7.1	112.3	108.9	117.8
17	3.7	1.7	65.4	61.5	67.1	16.7	16.6	20.0	8.9	7.5	9.9	0.00	6.6	6.1	7.1	109.9	107.3	114.9
All Saskatchewan samples	3.9	1.7	64.3	57.9	68.2	17.6	16.2	21.8	9.0	6.4	12.3	0.00	6.7	6.0	7.3	110.7	106.2	119.6
Alberta and British Columbia																		
1	3.8	1.7	65.3	64.2	66.7	17.1	16.4	18.8	8.6	8.2	9.1	0.00	6.7	6.1	6.8	109.6	108.7	111.8
2	3.9	1.8	64.3	60.4	66.8	17.9	16.2	20.3	8.7	7.2	11.2	0.00	6.8	6.2	7.2	110.4	107.4	116.4
3	4.0	1.7	63.9	58.5	66.4	17.9	16.6	20.7	9.2	7.5	12.0	0.00	6.7	6.0	7.2	111.3	107.0	118.8
4	3.8	1.7	64.3	59.8	68.3	17.7	16.5	20.5	9.2	6.8	11.4	0.00	6.5	5.9	7.2	111.3	106.8	116.8
5	3.9	1.6	63.6	56.9	66.7	18.0	16.9	22.0	9.6	7.6	12.3	0.00	6.6	6.1	7.1	112.3	108.8	119.7
6	3.8	1.6	64.5	60.0	67.2	17.3	16.6	20.4	9.5	7.5	10.9	0.00	6.5	6.2	6.8	111.7	108.2	117.2
7	3.9	1.7	64.1	57.8	67.3	17.7	16.5	21.2	9.4	7.1	12.0	0.01	6.5	6.0	6.9	111.6	107.9	118.8
7 (BC)	3.8	1.7	64.3	62.5	65.0	17.9	18.0	19.1	8.9	8.0	9.8	0.00	6.6	6.0	6.9	111.0	109.5	112.5
All Alberta and BC samples	3.9	1.7	64.2	56.9	68.3	17.7	16.2	22.0	9.2	6.8	12.3	0.00	6.6	5.9	7.2	111.3	106.8	119.7
Western Canada																		
Western Canada	3.9	1.7	64.2	56.9	68.3	17.7	16.2	22.0	9.0	6.4	12.8	0.00	6.7	5.9	7.3	111.0	106.2	119.7

* NS = Not sufficient. Insufficient number of samples to generate a representative value.