

Canadian Motor Vehicle Traffic Collision Statistics: 2017

From: Transport Canada

Collected in cooperation with the Canadian Council of Motor Transport Administrators

Introduction

Transport Canada's National Collision Database (NCDB) contains data on all reportable motor vehicle collisions in Canada that the provinces and territories provide each year.

The federal, provincial, and territorial governments in Canada work to improve road safety to reduce the number of fatalities and serious injuries and to have the safest roads in the world. The year 2017 saw a decrease in the number of fatalities, serious injuries, and total injuries; in fact, 2017 marked the lowest counts for all three of these casualty groups since these data were first collected by Transport Canada in the early 1970's.

- In 2017, the number of motor vehicle fatalities was 1,841; down 2.8% from 2016 (1,895).
- The number of serious injuries decreased to 9,960 in 2017; down 7.4% from 2016 (10,760).
- The number of fatalities per 100,000 population was 5.0 in 2017; the lowest on record.
- The number of fatalities per billion vehicle kilometres travelled was 4.8 in 2017; also the lowest on record.

Collisions and Casualties 1998-2017

Year	Collisions		Victims		
	Fatal 1	Personal Injury 2	Fatalities 3	Serious Injuries 4	Injuries 5 (Total)
1998	2,583	145,615	2,919	16,410	213,319
1999	2,632	148,683	2,980	16,187	218,457
2000	2,548	153,290	2,904	15,581	222,848
2001	2,415	149,023	2,758	15,296	216,542
2002	2,583	153,832	2,921	15,894	222,665
2003	2,487	150,493	2,777	15,110	216,123
2004	2,438	145,150	2,735	15,572	206,104
2005	2,551	145,559	2,898	15,792	204,701
2006	2,586	142,517	2,871	16,044	199,976
2007	2,455	138,615	2,753	14,410	192,745
2008	2,193	127,571	2,431	12,851	176,394
2009	2,007	123,449	2,216	11,955	170,770
2010	2,021	123,615	2,238	11,796	172,081
2011	1,849	122,350	2,023	10,940	167,741
2012	1,848	122,835	2,075	11,104	166,728
2013	1,772	120,371	1,954 †	10,661	164,525
2014	1,678	114,600	1,848	10,422	156,366
2015	1,701 ‡	117,844 †	1,882 †	10,856 †	161,056 †
2016	1,731 ‡	116,473 †	1,895 †	10,760 †	163,245 †

Year	Collisions		Victims		
	Fatal ¹	Personal Injury ²	Fatalities ³	Serious Injuries ⁴	Injuries ⁵ (Total)
2017	1,679	112,479	1,841	9,960	154,886

Footnotes

1 "Fatal collisions" include all reported motor vehicle crashes that resulted in at least one death, where death occurred within 30 days of the collision, except in Quebec before 2007 (eight days).

2 "Personal injury collisions" include all reported motor vehicle crashes which resulted in at least one injury but not death within 30 days of the collision, except in Quebec before 2007 (eight days).

3 "Fatalities" include all those who died as a result of a reported traffic collision within 30 days of its occurrence, except in Quebec before 2007 (eight days).

4 "Serious Injuries" include persons admitted to hospital for treatment or observation. Serious injuries were estimated from 1998 to 2017 because several jurisdictions under-reported these numbers.

5 "Total Injuries" include all reported severities of injuries ranging from minimal to serious.

r *Revised.*

Fatalities and Injuries by Age Group - 2017

Age Group (yrs)	Fatalities	Serious Injuries	Injuries (Total)
0 - 4	32	131	2,744
5 - 14	43	303	6,514
15 - 19	115	851	13,600
20 - 24	184	1,213	17,614
25 - 34	299	1,841	29,203
35 - 44	266	1,334	23,353
45 - 54	235	1,412	22,642
55 - 64	293	1,354	18,704
65 +	364	1,405	16,766
Not stated	10	116	3,746
Total	1,841	9,960	154,886

Fatalities by Road User Class 2013-2017

Road User Class	2013	2014	2015	2016	2017
# Drivers	964	920	921 †	916 †	985
% Drivers	49.3 †	49.8	48.9 †	48.3 †	53.5
# Passengers	369	352	364 †	334 †	311
% Passengers	18.9	19.0	19.3 †	17.6 †	16.9
# Pedestrians	306	301	298 †	346 †	284
% Pedestrians	15.7	16.3	15.8 †	18.3 †	15.4
# Bicyclists	69	42	49 †	46 †	36
% Bicyclists	3.5	2.3	2.6 †	2.4 †	2.0
# Motorcyclists *	198	190	208 †	206 †	191
% Motorcyclists	10.1	10.3	11.1 †	10.9	10.4
# Not stated/Other	48 †	43	42 †	47 †	34
% Not stated/Other	2.5 †	2.3	2.2 †	2.5 †	1.8
# Total	1,954 †	1,848	1,882 †	1,895 †	1,841
% Total	100.0	100.0	100.0	100.0	100.0

Footnotes

* Includes moped riders.

† Revised.

Fatalities 1998-2017

Year	Fatalities
1998	2,919
1999	2,980
2000	2,904
2001	2,758
2002	2,921
2003	2,777
2004	2,735
2005	2,898
2006	2,871
2007	2,753
2008	2,431
2009	2,216
2010	2,238
2011	2,023
2012	2,075
2013	1,954 [⌈]
2014	1,848
2015	1,882 [⌈]
2016	1,895 [⌈]
2017	1,841

Fatality Rate (per 10,000 motor vehicles registered)

Year	Fatality Rate
1998	1.62
1999	1.70
2000	1.62
2001	1.52
2002	1.57
2003	1.47
2004	1.43
2005	1.50
2006	1.43
2007	1.34
2008	1.15
2009	1.04
2010	1.02
2011	0.91
2012	0.93
2013	0.85
2014	0.79
2015	0.79 ¹
2016	0.78
2017	0.75

Footnote

1 *Revised.*

Casualty Rates - 2017

	Per 100,000 Population ¹		Per Billion Vehicle-Kilometres ²		Per 100,000 Licensed Drivers	
	Fatalities	Injuries	Fatalities	Injuries	Fatalities	Injuries
Canada	5.0	421.9	4.8	404.9	7.1	595.6
NL	6.1	516.8	6.0	513.0	5.4	463.7
PE	9.2	406.5	9.1	403.7	12.7	561.0
NS	4.9	505.8	4.0	414.5	6.5	667.5
NB	6.6	353.3	5.7	307.6	9.0	484.3
QC	4.3	438.8	4.6	475.5	6.4	659.1
ON	4.1	362.2	4.0	357.1	5.8	513.9
MB	5.5	940.6	4.9	844.4	8.1	1,390.2
SK	8.6	390.7	6.8	311.1	12.5	566.8
AB	7.1	401.0	4.8	273.1	9.5	539.4
BC	5.7	437.4	6.9	523.5	7.9	605.3
YT	18.2	694.2	10.3	392.1	24.0	913.9
NT	6.7	224.6	7.2	241.0	11.5	382.3
NU	0.0	60.5	0.0	575.0	0.0	411.6

Footnotes

¹ Statistics Canada, Annual Demographic Estimates: Canada, Provinces and Territories, 2018, Catalogue No. 91-215-X.

² Statistics Canada, 'Canadian Vehicle Survey', Catalogue No. 53-223-XIE.



Notes: Vehicle kilometres travelled data were not available for 2017 so they were estimated using average yearly change for the years 2014-2016

Data for Ontario and Alberta are preliminary for 2017. Data for New Brunswick and Injury data for Nova Scotia were estimated. Data for Newfoundland are accurate as of May 2018.

Recent changes in how traffic accident reports are collected in Manitoba resulted in an increased number of injuries of a minimal nature being captured in 2017.

Rate-based data in smaller jurisdictions have a high level of fluctuation due to their small sample size.

Percentage of Driver and Passenger Fatalities and Serious Injuries by Age Group 2017

Age Group (yrs)	Fatalities		Serious Injuries	
	Drivers	Passengers	Drivers	Passengers
0 - 4	0.0	6.1	0.2	4.3
5 - 14	0.0	9.6	0.0	7.1
15 - 19	6.6	9.6	7.1	13.5
20 - 24	10.3	13.1	12.4	15.2
25 - 34	18.9	12.8	21.0	15.6
35 - 44	15.7	13.5	15.4	9.5
45 - 54	13.2	9.3	15.3	8.5
55 - 64	17.2	7.7	14.2	9.1
65 +	18.0	17.0	14.2	13.2
Not Stated	0.1	1.3	0.2	4.0
Total	100.0	100.0	100.0	100.0

Number of Licensed Drivers by Gender and by Age 2017

Age Group (yrs)	Males	Females	Total
< 16	26,489	23,153	49,642
16 - 19	588,792	544,804	1,133,596
20 - 24	1,014,217	936,415	1,950,632
25 - 34	2,279,447	2,190,249	4,469,696
35 - 44	2,254,865	2,208,617	4,463,481
45 - 54	2,393,092	2,287,732	4,680,824
55 - 64	2,339,975	2,224,636	4,564,611
65 +	2,471,717	2,220,191	4,691,908
Not Stated	0	0	0
Total	13,368,593	12,635,797	26,004,390

Licensed Drivers and Motor Vehicle Registrations by Type of Vehicle 1998-2017 (in thousands)

	Licensed Drivers ¹	Light-Duty Vehicles ²	Commercial Vehicles ³	Motorcycles ⁴
1998	20,744	13,887	3,767	334
1999	20,934	16,538	722	274
2000	20,593	16,832	739	311
2001	20,879	17,055	729	318
2002	21,163	17,543	724	350
2003	21,436	17,755	740	373
2004	21,673	17,920	752	409
2005	21,937	18,124	786	443
2006	22,278	18,739	841	485
2007	22,606	19,199	872	522
2008	22,972	19,613	907	567
2009	23,198	19,877	915	595
2010	23,541	20,268	964	616
2011	23,831	20,608	1,008	631
2012	24,147	20,652	1,053	661
2013	24,630	21,262	1,072	672
2014	24,914	21,730	1,121	688
2015	25,273	22,068	1,147	709
2016	25,580	22,410	1,144	716
2017	26,004	22,678	1,168	721

Footnotes

- 1 Excludes temporary permits prior to 1999.
 - 2 Pre-1999, these registrations include passenger automobiles. From 1999, light-duty vehicles include passenger type vehicles (automobiles, passenger vans), light trucks and vans (less than 4 500 kg).
 - 3 Pre-1999, these registrations include trucks, buses and other commercial vehicles, such as vans. From 1999, these registrations include commercial vehicles (trucks and buses) greater than 4 500 kg.
 - 4 Includes mopeds.
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Source: 1998: Statistics Canada, Catalogue No. 53-219, "Road Motor Vehicles - Registrations".

From 1999, the motor vehicle registration data are from Statistics Canada, CANSIM, Table 405-0004.

From 1999 the licensed driver data were provided by each jurisdiction.



Note: A reduced level of police reporting in British Columbia since 2008 has affected the British Columbia totals and, to a lesser extent, national totals reported in this publication.

Percentage of Driver and Passenger Fatalities and Serious Injuries Where Victims Were Not Using Seat Belts 2013-2017

Drivers

	2013	2014	2015	2016	2017
Fatalities	32.0	26.2	28.7	29.6	27.4
Serious Injuries	11.7	11.8	10.4	9.8	10.6

Passengers

	2013	2014	2015	2016	2017
Fatalities	30.7	33.2	27.6	25.6	31.1
Serious Injuries	18.5	17.7	17.4	15.4	16.9



Note: "Serious Injuries" include victims admitted to hospital for treatment or observation.

Percentage of Fatalities and Serious Injuries by Road User Class - 2017

Road User Class	Fatalities	Serious Injuries
Drivers	53.5	48.9
Passengers	16.9	17.6
Pedestrians	15.4	14.3
Bicyclists	2.0	4.6
Motorcyclists *	10.4	12.4
Not Stated/Other	1.8	2.2
Total	100.0	100.0

Footnote

* *Includes moped riders.*

Number of Collisions By Location 2017

Location	Fatal	Personal Injury
Urban ¹	746	81,938
Rural ²	908	28,013
Not stated	25	2,528
Total	1,679	112,479

Footnotes

- 1 Urban includes:
- a. metropolitan roads and streets and other urban areas, or
 - b. a speed limit at the collision site of 60 km/h or less.
- 2 Rural includes:
- a. primary or secondary highways, as well as local roads, or
 - b. a speed limit at the collision site exceeding 60 km/h.



Note: In Alberta, New Brunswick, Manitoba, and Saskatchewan, "urban" includes any area within the corporate boundaries of a city, town, village or hamlet. "Rural" includes any area outside of what is defined as "Urban".

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