

Canadian Motor Vehicle Traffic Collision Statistics: 2016

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 2016 saw a decrease in the number of serious injuries, yet showed a slight increase in fatalities and total injuries.

- In 2016, the number of motor vehicle fatalities was 1,898; up 2.0% from 2015 (1,860).
- The downward trend for serious injuries continued, dropping to 10,322 in 2016; down 4.0% from 2015 (10,748).
- The number of fatalities per 100,000 population was 5.2 in 2016; unchanged from the rate seen the previous two years.
- The number of fatalities per billion vehicle kilometres travelled was 5.1 in 2016, also unchanged from the previous year.

Collisions and Casualties 1997-2016

Year	Collisions		Victims		
	Fatal ¹	Personal Injury ²	Fatalities ³	Serious Injuries ⁴	Injuries ⁵ (Total)
1997	2,660	147,549	3,076	17,294	217,401
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 ^f	122,835 ^f	2,075 ^f	11,104 ^f	166,728 ^f
2013	1,772 ^f	120,371 ^f	1,951 ^f	10,661 ^f	164,525 ^f
2014	1,678 ^f	114,600 ^f	1,848 ^f	10,422 ^f	156,366 ^f
2015	1,666 ^f	116,394 ^f	1,860 ^f	10,748 ^f	158,706 ^f
2016	1,717	115,956	1,898	10,322	160,315

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 1997 to 2016 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 - 2016

Age Group (yrs)	Fatalities	Serious Injuries	Injuries (Total)
0 - 4	13	85	2,098
5 - 14	47	328	6,465
15 - 19	137	953	14,590
20 - 24	179	1,234	18,455
25 - 34	321	1,865	29,612
35 - 44	230	1,419	24,096
45 - 54	249	1,501	23,963
55 - 64	263	1,319	19,002
65 +	446	1,432	17,111
Not stated	13	186	4,923
Total	1,898	10,322	160,315

Fatalities by Road User Class 2012-2016

Road User Class	2012	2013	2014	2015	2016
# Drivers	1,025	964	920 †	924 †	906
% Drivers	49.4 †	49.4 †	49.8 †	49.7 †	47.7
# Passengers	457	369	352	361 †	358
% Passengers	22.0	18.9	19.0	19.4	18.9
# Pedestrians	326	306	301	284 †	334
% Pedestrians	15.7	15.7	16.3	15.3 †	17.6
# Bicyclists	63	69	42	47	42
% Bicyclists	3.0	3.5	2.3	2.5	2.2
# Motorcyclists *	175	198	190	200	207
% Motorcyclists	8.4	10.1	10.3	10.8	10.9
# Not stated/Other	29 †	45 †	43	44 †	51
% Not stated/Other	1.5 †	2.4 †	2.3	2.4 †	2.7
# Total	2,075 †	1,951 †	1,848 †	1,860 †	1,898
% Total	100.0	100.0	100.0	100.0	100.0

Footnotes

* Includes moped riders.

† Revised.

Fatalities 1997-2016

Fatalities (thousands of persons)

Year	Fatalities
1997	3,076
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	1,951 [Ⓙ]
2014	1,848 [Ⓙ]
2015	1,860 [Ⓙ]
2016	1,898

Fatality Rate (per 10,000 motor vehicles registered)

Year	Fatality Rate
1997	1.76
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	0.78
2016	0.78

Footnote

1 *Revised.*

Casualty Rates - 2016

	Per 100,000 Population ¹		Per Billion Vehicle-Kilometres ²		Per 100,000 Licensed Drivers	
	Fatalities	Injuries	Fatalities	Injuries	Fatalities	Injuries
Canada	5.2	442.1	5.1	427.8	7.4	626.7
NL	8.3	565.9	8.4	574.9	11.3	767.7
PE	7.4	390.7	7.3	389.3	10.1	535.8
NS	5.1	508.6	4.2	423.1	6.7	670.2
NB	6.6	354.4	5.8	314.0	9.0	484.3
QC	4.2	448.2	4.6	491.5	6.3	672.5
ON	4.0	396.2	4.0	392.5	5.6	553.5
MB	8.1	951.8	7.3	859.1	11.9	1,400.4
SK	10.9	499.7	8.7	400.8	15.7	720.3
AB	7.1	392.4	4.8	269.6	9.5	528.5
BC	6.1	463.0	7.4	538.5	8.5	644.1
YT	10.5	643.3	6.0	367.3	13.9	854.0
NT	9.0	277.9	9.8	304.7	15.1	469.6
NU	5.4	104.9	51.3	1,000.0	37.5	732.0

Footnotes

¹ Statistics Canada, Annual Demographic Estimates: Canada, Provinces and Territories, 2017, 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 2016 so they were estimated using average yearly change for the years 2013-2015

Data for Ontario are preliminary for 2016. Data for New Brunswick and British Columbia were estimated.

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 2016.

Percentage of Driver and Passenger Fatalities and Serious Injuries by Age Group 2016

Age Group (yrs)	Fatalities		Serious Injuries	
	Drivers	Passengers	Drivers	Passengers
0 - 4	0.0	2.0	0.0	3.1
5 - 14	0.2	7.9	0.0	7.8
15 - 19	7.4	12.1	8.1	14.4
20 - 24	9.8	12.1	12.1	14.6
25 - 34	20.0	15.7	19.7	15.8
35 - 44	13.2	8.7	15.6	9.7
45 - 54	15.3	5.9	16.1	8.5
55 - 64	13.9	10.1	13.8	8.6
65 +	20.0	24.2	14.4	12.2
Not Stated	0.2	1.3	0.2	5.3
Total	100.0	100.0	100.0	100.0

Number of Licensed Drivers by Gender and by Age 2016

Age Group (yrs)	Males	Females	Total
< 16	25,688	21,479	47,167
16 - 19	589,138	545,124	1,134,262
20 - 24	1,017,231	940,514	1,957,745
25 - 34	2,249,816	2,159,954	4,409,770
35 - 44	2,208,548	2,159,840	4,368,388
45 - 54	2,400,907	2,295,422	4,696,329
55 - 64	2,298,853	2,181,477	4,480,330
65 +	2,362,966	2,122,733	4,485,699
Not Stated	0	0	0
Total	13,153,147	12,426,543	25,579,690

Licensed Drivers and Motor Vehicle Registrations by Type of Vehicle 1997-2016
(in thousands)

	Licensed Drivers ¹	Light-Duty Vehicles ²	Commercial Vehicles ³	Motorcycles ⁴
1997	20,148	13,515	3,684	319
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

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: 1997 to 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 in years 1997 through 2004 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 2012-2016

Drivers

	2012	2013	2014	2015	2016
Fatalities	31.8	32.0	26.2	28.7	29.6
Serious Injuries	12.6	11.7	11.8	10.4	9.8

Passengers

	2012	2013	2014	2015	2016
Fatalities	36.6	30.7	33.2	27.6	25.6
Serious Injuries	20.0	18.5	17.7	17.4	15.4



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

Percentage of Fatalities and Serious Injuries by Road User Class - 2016

Road User Class	Fatalities	Serious Injuries
Drivers	47.7	46.0
Passengers	18.9	19.8
Pedestrians	17.6	14.4
Bicyclists	2.2	4.6
Motorcyclists *	10.9	12.9
Not Stated/Other	2.7	2.3
Total	100.0	100.0

Footnote

* *Includes moped riders.*

Number of Collisions By Location ²⁰¹⁶

Location	Fatal	Personal Injury
Urban ¹	746	85,993
Rural ²	958	28,828
Not stated	13	1,135
Total	1,717	115,956

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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