

Canadian Motor Vehicle Traffic Collision Statistics: 2019

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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 2019 saw a notable decrease in the number of fatalities, serious injuries, and total injuries, in fact, these were 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 2019, the number of motor vehicle fatalities was 1,762; down 9.1% from 2018 (1,939).
- The number of serious injuries decreased to 8,917 in 2019; down 5.8% from 2018 (9,463).
- The number of fatalities per 100,000 population decreased to 4.7 in 2019 (from 5.2 in 2018), and is the lowest on record.
- The number of fatalities per billion vehicle kilometres travelled decreased to 4.4 in 2019 (from 4.9 in 2018); also the lowest recorded.
- Amongst road users, motor vehicle passengers saw the largest decline in fatalities at 18%, with drivers, bicyclists, and pedestrians seeing decreases of 9%, 7%, and 3%, respectively. Motor vehicle passengers also saw the largest decrease in serious injuries at 15%.

Collisions and Casualties - 2000 to 2019

Year	Collisions		Victims		
	Fatal ¹	Personal Injury ²	Fatalities ³	Serious Injuries ⁴	Injuries ⁵ (Total)
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	122,834	2,075	11,104	166,727
2013	1,772	120,371	1,951	10,662	164,525
2014	1,675	114,617	1,841	10,445	156,557
2015	1,693	117,857	1,887	10,835	160,806
2016	1,738	116,583	1,900	10,573	158,854
2017	1,698	112,714	1,861	10,104	152,773
2018	1,754	109,580	1,939	9,463	149,065

Year	Collisions		Victims		
	Fatal ¹	Personal Injury ²	Fatalities ³	Serious Injuries ⁴	Injuries ⁵ (Total)
2019	1,623	104,169	1,762	8,917	140,801

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- 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 2000 to 2019 because several jurisdictions under-reported these numbers.
- 5 "Total Injuries" include all reported severities of injuries ranging from minimal to serious.
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Fatalities and Injuries by Age Group - 2019

Age Group (yrs)	Fatalities	Serious Injuries	Injuries (Total)
0 - 4	17	67	2,099
5 - 14	28	285	5,749
15 - 19	115	744	12,010
20 - 24	165	933	15,549
25 - 34	257	1,670	26,712
35 - 44	224	1,351	22,000
45 - 54	232	1,304	20,157
55 - 64	274	1,135	17,502
65 +	438	1,232	16,419
Not stated	12	196	2,604
Total	1,762	8,917	140,801

Fatalities by Road User Class - 2015 to 2019

Road User Class		2015	2016	2017	2018	2019
Drivers	#	908	875	957	954	867
	%	48.1	46.1	51.4	49.2	49.2
Passengers	#	356	338	317	360	295
	%	18.9	17.8	17.0	18.6	16.7
Pedestrians	#	299	355	302	323	314
	%	15.8	18.7	16.2	16.7	17.8
Bicyclists	#	49	49	40	41	38
	%	2.6	2.6	2.1	2.1	2.2
Motorcyclists *	#	211	214	197	185	187
	%	11.2	11.3	10.6	9.5	10.6
Not stated/Other	#	64	69	48	76	61
	%	3.4	3.6	2.6	3.9	3.5
Total	#	1,887	1,900	1,861	1,939	1,762
	%	100.0	100.0	100.0	100.0	100.0

* Includes moped riders.

**Fatalities 2000
to 2019**

Year	Fatalities
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	1,841
2015	1,887
2016	1,900

Year	Fatalities
2017	1,861
2018	1,939
2019	1,762

Fatality Rate (per 10,000 motor vehicles registered)

Year	Fatality Rate
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	0.78
2015	0.79
2016	0.78
2017	0.76
2018	0.77
2019	0.69

Casualty Rates - 2019

	Per 100,000 Population ¹		Per Billion Vehicle-Kilometres ²		Per 100,000 Licensed Drivers	
	Fatalities	Injuries	Fatalities	Injuries	Fatalities	Injuries
Canada	4.7	374.5	4.4	345.1	6.6	526.4
NL	7.6	510.6	7.2	480.3	10.3	690.3
PE	9.5	384.7	9.4	378.4	13.3	536.9
NS	7.4	740.2	5.9	590.3	10.1	1,002.6
NB	6.4	345.5	5.5	294.5	9.0	484.3
QC	3.9	408.6	4.1	429.3	5.8	608.7
ON	3.9	318.2	3.8	307.7	5.4	435.8
MB	5.5	844.7	4.9	743.0	8.1	1,239.8
SK	6.1	351.8	4.6	270.1	8.9	514.3
AB	5.5	344.3	3.7	228.5	7.4	460.6
BC	5.3	315.2	6.4	381.7	7.5	446.1
YT	24.1	383.3	14.0	223.3	34.4	546.9
NT	13.3	171.0	13.9	177.8	22.5	288.5
NU	5.2	64.7	47.6	595.2	74.2	928.0

¹ Statistics Canada, Annual Demographic Estimates: Canada, Provinces and Territories, 2019, Catalogue No. 91-215-X.

² Transport Canada calculations and estimates using an econometric model.



Notes:

Data for Ontario and Alberta are preliminary for 2019. Data for New Brunswick were estimated.

Changes in how traffic collision reports are collected in Manitoba resulted in an increased number of injuries of a minimal nature being captured in 2019.

Newfoundland and Labrador data reflects information contained in the Vehicle Collision Reports received and processed as of June 1, 2020.

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


Percentage of Fatalities and Serious Injuries by Road User Class - 2019

Road User Class	Fatalities	Serious Injuries
Drivers	49.2	46.4
Passengers	16.8	18.6
Pedestrians	17.8	15.8
Bicyclists	2.2	4.1
Motorcyclists *	10.6	12.2
Not Stated/Other	3.4	2.9
Total	100.0	100.0

* Includes moped riders.

Percentage of Driver and Passenger Fatalities and Serious Injuries Where Victims Were Not Using Seat Belts - 2015 to 2019

	2015	2016	2017	2018	2019
Drivers					
Fatalities	28.7	29.6	27.4	29.4	25.6
Serious Injuries	10.4	9.8	10.6	10.8	10.3
Passengers					
Fatalities	27.6	25.6	31.1	32.1	29.8
Serious Injuries	17.4	15.4	16.9	18.4	13.3

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

Number of Collisions By Location - 2019

Location	Fatal	Personal Injury
Urban ¹	750	75,714
Rural ²	824	25,646
Not stated	49	2,809
Total	1,623	104,169

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- 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.
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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".

Percentage of Driver and Passenger Fatalities and Serious Injuries by Age Group - 2019

Age Group (yrs)	Fatalities		Serious Injuries	
	Drivers	Passengers	Drivers	Passengers
0 - 4	0.0	2.7	0.0	2.5
5 - 14	0.0	5.4	0.0	7.6
15 - 19	6.3	14.2	7.4	15.0
20 - 24	10.5	13.2	10.5	12.4
25 - 34	15.5	12.9	21.1	17.4
35 - 44	13.5	10.8	17.5	11.3
45 - 54	12.9	7.5	15.6	8.7
55 - 64	15.5	9.8	13.3	8.1
65 +	25.6	22.0	14.4	11.4
Not Stated	0.2	1.5	0.2	5.6
Total	100.0	100.0	100.0	100.0

Number of Licensed Drivers by Gender and by Age - 2019

Age Group (yrs)	Males	Females	Other Gender *	Total
< 16	27,977	24,275	3	52,255
16 - 19	596,026	550,302	20	1,146,347
20 - 24	1,044,966	934,886	77	1,979,929
25 - 34	2,387,491	2,262,445	148	4,650,085
35 - 44	2,335,932	2,280,936	51	4,616,919
45 - 54	2,280,421	2,193,865	17	4,474,303
55 - 64	2,420,721	2,307,089	12	4,727,822
65 +	2,649,247	2,445,438	3	5,094,688
Not Stated	2,407	1,597	0	4,004
Total	13,745,187	13,000,832	331	26,746,350

*
_ One jurisdiction reported this category.

Licensed Drivers and Motor Vehicle Registrations by Type of Vehicle 2000-2019 (in thousands)

Year	Licensed Drivers	Light-Duty Vehicles	Commercial Vehicles	Motorcycles
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
2018	26,583	23,137	1,194	730

Year	Licensed Drivers	Light-Duty Vehicles	Commercial Vehicles	Motorcycles
2019	26,746	23,472	1,214	736

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

Fatalities In Commercial Vehicle Collisions by User Type - 2015 to 2019

Road User Class	2015	2016	2017	2018	2019
Straight Truck (> 4,536 kg) Occupants	17	16	20	20	16
Tractor-Trailer Occupants	25	36	43	32	36
School Bus Occupants	1	2	1	2	0
Urban Transit Bus (City/Local) Occupants	1	0	0	1	0
Inter-City Bus (Motorcoach) Occupants	1	2	4	17	0
Pedestrians	40	50	48	43	59
Bicyclists	7	13	11	8	10
Motorcyclists **	18	13	13	11	16
Passenger Vehicles / Other	281	241	262	221	221
Total Fatalities in CMV * Collisions	391	373	402	355	358
Fatalities In All Other Collisions	1,496	1,527	1,459	1,584	1,404
Total Fatalities in All Collisions	1,887	1,900	1,861	1,939	1,762

* Commercial Vehicles (CMV) include heavy trucks and all bus types

** Includes moped riders



Note: These data were estimated using submissions from a subset of Canada's provinces and territories.

Contributing Factors in Fatal Collisions - 2015 to 2019

Contributing Factor *	2015	2016	2017	2018	2019
Distraction	24.4%	22.8%	23.2%	21.8%	21.7%
Speed / Driving too Fast	26.0%	25.2%	24.4%	25.5%	23.0%
Impaired / Under the Influence	22.9%	25.0%	26.2%	18.0%	15.2%
Fatigue	4.3%	3.8%	4.0%	3.5%	3.6%
Other Human Factor	39.9%	38.2%	39.3%	44.6%	41.5%
Environmental Factor	21.2%	19.9%	23.3%	23.8%	22.3%
Vehicle Factor	3.7%	5.2%	4.2%	3.6%	5.4%
No Contributing Factors	27.2%	30.0%	26.4%	26.9%	25.7%

* There will be double counting because there are multiple contributing factors reported for most collisions.



Note: These data were estimated using submissions from a subset of Canada's provinces and territories.

To find out more about national road safety programs or initiatives, call Transport Canada toll free at 1-800-333-0371 or e-mail us at mvs-sa@tc.gc.ca.

You can also visit our web site at <https://tc.canada.ca/en/road-transportation> or the Canadian Council of Motor Transport Administrators' web site at www.ccmta.ca.

More detailed motor vehicle collision data can be queried using the National Collision Database (NCDB) On-Line tool located at <https://wwwapps2.tc.gc.ca/Saf-Sec-Sur/7/NCDB-BNDC/p.aspx?l=en>.