

ONTARIO ROAD SAFETY

Annual Report 2009



ONTARIO ROAD SAFETY ANNUAL REPORT 2009

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<http://www.ontario.ca/orsar>

If you are seeking information on how to reduce your risk of being in a collision, visit your local DriveTest Centre, or visit the Ministry of Transportation website at ontario.ca/transportation. For all other road safety public education materials please go to the ServiceOntario Publications website at <http://www.serviceontario.ca/publications>, or call 416-326-5300 or 1-800-668-9938.

The Ministry of Transportation's Official Driver's Handbook is available online at <http://www.mto.gov.on.ca/english/dandv/driver/handbook>. You can also purchase hard-copies at DriveTest Centres, and at various department stores, automotive retail outlets and book stores.

For more information on the data in this publication, please contact the Road Safety Policy Office – 416-235-3585.

Produced by:

Road Safety Policy Office - Vehicles

Safety Policy & Education Branch
Ministry of Transportation
1201 Wilson Avenue
Building A, Main Floor, Room 212
Toronto, Ontario
M3M 1J8

Phone: 416-235-3585

Fax: 416-235-5129

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MINISTER'S MESSAGE

The most important job of any government is to protect the safety of its citizens.

Road safety affects every person in Ontario, and our province continues to have the best road safety record in all of North America.

The 2009 Ontario Road Safety Annual Report (ORSAR) ranks our province number one in terms of the fewest road fatalities per 10,000 licensed drivers. The report also confirms a steady, long-term trend of fewer and fewer road fatalities and injuries in Ontario over the past decade.

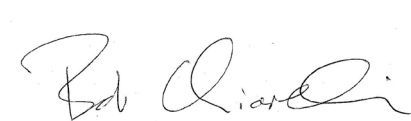
Many factors contribute to these results. Since 2003, our government has introduced several pieces of legislation which help to improve road safety, including:

- higher fines for serious driving offences
- seven-day vehicle impoundments for drinking and driving
- zero blood alcohol concentration (BAC) for all drivers age 21 and under
- ban on handheld devices while operating a motor vehicle
- mandatory speed limiters for most large trucks
- one-person, one-seat belt law
- mandatory booster seat law to protect children in motor vehicles
- higher standards for beginner drivers' education

These laws and others have been developed with input from our road safety partners in law enforcement, public health, and safety organizations representing the public, corporate and not-for-profit sectors.

This report confirms our successes and shows us where we can continue to make improvements. We will continue to work to ensure road safety and to save even more lives in the future.

Sincerely,



Bob Chiarelli
Minister of Transportation

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FOREWORD



FOREWORD

Ontario has the safest roads in North America.

In 2009, Ontario recorded the lowest number of road fatalities – 564 – since 1944. Ontario also recorded the lowest number of road injuries – 62,562 – since 1965.

With the lowest fatality rate ever recorded in the province – 0.62 per 10,000 licensed drivers in 2009 – Ontario ranks first among all jurisdictions in North America for road safety.

Long-term trends indicate substantial reductions in fatality and injury rates since 2000. Fatalities are down by over one third. Injuries are down by over one quarter.

Ontario Road Safety Annual Report 2009

What is the Ontario Road Safety Annual Report (ORSAR)?

Road safety is a priority for the Ontario government. As technology, vehicles, and people's attitudes evolve over time, so do transportation needs and demands. With shifting economic and demographic factors, new road safety challenges can arise.

ORSAR allows the Ontario government to monitor its progress in improving road safety year-by-year. The report provides valuable data and guides the government as it determines where more effort is required.

ORSAR is used by the Ministry of Transportation, Ontario (MTO) for policy and program analysis and development, road safety research, public education and performance measurement. ORSAR data is also used by road safety and injury prevention organizations, transportation associations, research institutions, police services and other ministries and governments.

To help the government address and meet new challenges, ORSAR provides valuable insights about long-term and emerging trends in Ontario and across other jurisdictions in North America.

Sources of data that contribute to ORSAR include:

- MTO collision, vehicle and licensing databases
- Fatality data from the Office of the Chief Coroner
- Offence data from the Ministry of the Attorney General
- Hospital stay statistics from the Ministry of Health and Long Term Care

Ontario's roads consistently rank among the safest in North America – often earning the number one ranking, as is the case for 2009. By continuing to work with our road safety partners and monitoring trends captured in ORSAR, Ontario can continue to develop new and innovative road safety strategies that will help save lives and keep Ontario's roads among the safest in the world.

Key Road Safety Findings for Ontario in 2009

For more than 20 years, Ontario has measured road safety by calculating the number of collision-related fatalities for every 10,000 licensed drivers.

In Ontario, the fatality rate per 10,000 licensed drivers in 2009 was 0.62 – the lowest ever recorded. The actual number of fatalities was 564, a decrease of 67 from the previous year.

The fatality rate places Ontario first in all of North America as the jurisdiction with the lowest number of road fatalities. Ontario has now ranked first or second for 11 years in a row. If Ontario were compared to the 29 countries in the Organization for Economic Co-operation and Development (OECD), the province would rank third in the world, behind Great Britain and Sweden.

Road Safety in Ontario: 2008 vs 2009		
Category	2008	2009
Licensed Drivers	9,042,286	9,101,938
Number of Fatalities	631	564
Fatality Rate per 10,000 Licensed Drivers	0.70	0.62
Number of Serious Injuries	2,942	2,603

Road Safety in Ontario: Significant Progress Since 2000				
Category	2000	2009	Change	% Change
Number of Fatalities	849	564	(285)	(33.6)
Injuries	85,009	62,562	(22,447)	(26.4)
Fatality Rate per 10,000 Licensed Drivers	1.05	0.62	(0.43)	(40.7)
Injury Rate per 10,000 Licensed Drivers	104.7	68.7	(35.94)	(34.3)

Top Priority Road Safety Issues

In recent years, the Ontario government has led the way by working with many road safety partners, including police, public health and safety organizations in the public, corporate and not-for-profit sectors. With support from these partners, Ontario has developed and introduced numerous pieces of legislation aimed at making our roads safer each year.

Recent legislation and new measures include:

- street racing / stunt driving legislation
- blood Alcohol Content (BAC) “warn” range sanctions / reduced suspension with ignition interlock
- distracted driving legislation
- speed limiters for large trucks
- expanded vehicle impoundment program
- increased penalties for infractions.

ORSAR 2009 indicates that our legislation, combined with strong enforcement and education, is achieving positive results. A quick look at some key statistics underlines this continuing success.

Drinking and Driving

The number of drinking and driving fatalities decreased from 145 in 2008 to 129 in 2009 (down 11 per cent).

In 2009, Ontario’s drinking and driving fatality rate was 0.14 per 10,000 licensed drivers, down from 0.16 in 2008.

Speeding / Street Racing / Aggressive Driving

The number of people killed in Ontario in speed-related collisions dropped from 134 in 2008 to 113 in 2009 – a reduction of 16 per cent.

Street racers and drivers who put other road users at risk by driving aggressively now face roadside vehicle impoundment and license suspensions, and upon conviction face a fine of up to \$10,000, a jail term of up to six months, and prolonged licence suspensions.

Senior Drivers’ Fatalities

Fatalities among senior drivers age 80 and over decreased from 34 in 2008 to 21 in 2009.

Large Truck Fatalities

Ontario now has some of the most stringent truck safety laws in North America.

There were 31 fewer lives lost in crashes with large trucks in 2009 compared to the year before. This translates into a drop of 24 per cent in fatalities compared to 2008.

2009 was the first full year in which Ontario's speed limiter law was in effect. This law caps the speed of most large trucks at 105 kilometres per hour.

Seat Belts

In 2009, 88 vehicle occupants were killed while not wearing a seat belt — down from 97 in 2008.

Vulnerable Road Users

The number of motorcycle rider fatalities decreased to 39 from 53 in 2008.

Ontario's Progress: Road Safety Vision 2010

The Canadian Council of Motor Transport Administrators Road Safety Vision 2010 is a national effort that aims to make Canada's roads the safest in the world, and its road safety targets were officially endorsed by all ministers responsible for transportation and highway safety in 2000. The Vision provides Canada's road safety community with benchmarks to help develop new strategies and measure intervention efforts.

The national target set by Road Safety Vision 2010 was a 30 per cent decrease in the average number of road fatalities or serious injuries during the 2008-10 period compared to the baseline period of 1996-2001.

Our statistics show that Ontario is likely to achieve the targets set.

Road Safety: Ontario Progress on Targets set by Road Safety Vision				
Categories	Baseline Average	Target	2008	2009
Fatalities	874	612	631	564
Serious Injuries	4,507	3,115	2,942	2,603

Looking Ahead: New Priorities

For 11 years in a row, Ontario has ranked first or second in North America as the jurisdiction with the lowest number of road fatalities per 10,000 licensed drivers. The province has also achieved a long-term trend of fewer road fatalities, despite annual increases in the number of licensed drivers.

Our ever-evolving North American and global environment brings about new priorities. Shifting populations, advanced technologies and urban and rural development require new approaches to improving road safety.

There are some areas that require increased attention. These include:

- drug-impaired driving
- sharing the road with vulnerable road users, such as pedestrians and cyclists
- senior drivers and driver fitness in light of an aging population
- all-terrain vehicle safety

To ensure the success of Ontario's existing initiatives, and to meet the challenges of the future, resources will need to be devoted to:

- modernizing public education — social marketing to achieve public awareness of new measures
- working with the police community to continue effective enforcement
- outreach to the health sector on specific priorities including drugs and driver fitness
- program monitoring and evaluation to measure effectiveness and identify future opportunities
- development of new legislation or measures to address new priorities

Conclusion

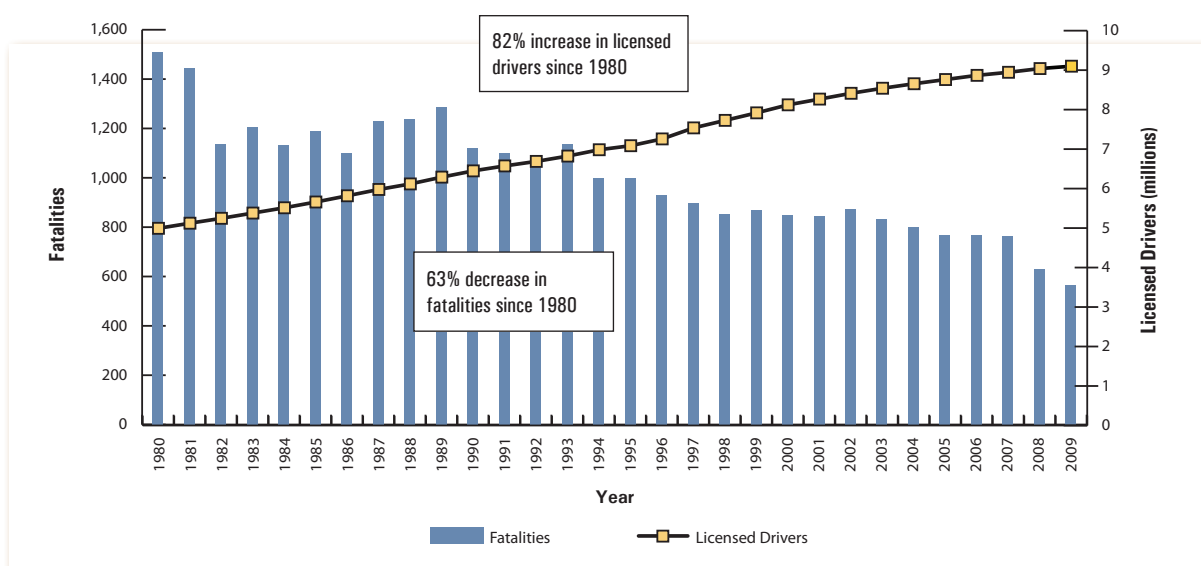
Ontario is a world leader in road safety.

ORSAR 2009 shows that our efforts have been paying off. Working together with our road safety partners, we have made people safer and more aware of road safety issues that affect them on a daily basis.

As we review the findings of this year's report, we will continue to work with our partners to save more lives and prevent more injuries as we preserve Ontario's status as a world leader in road safety.

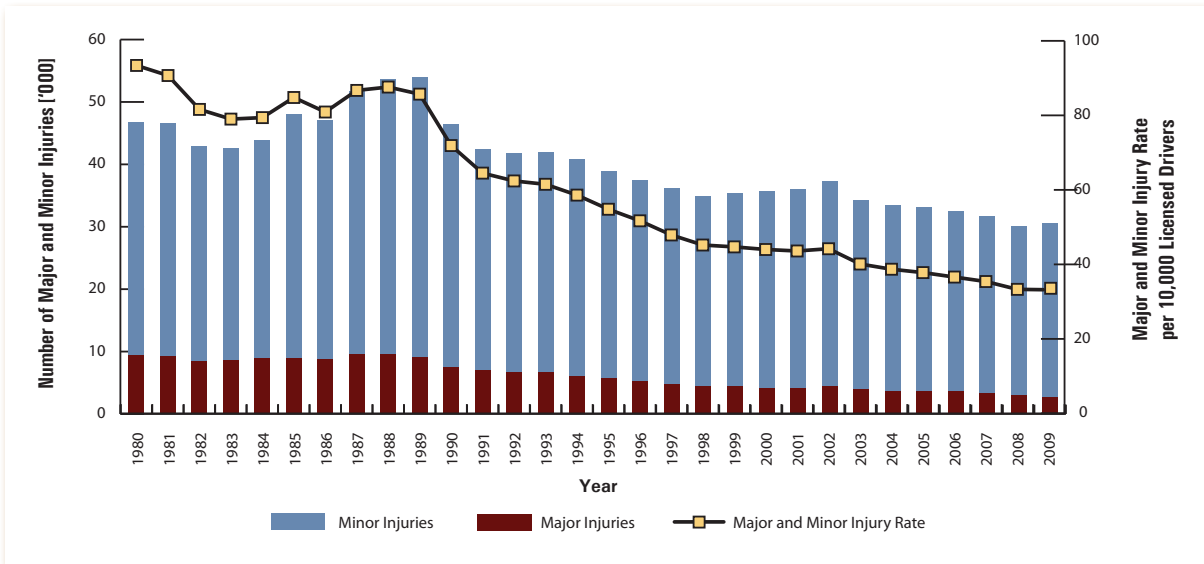
Key Road Safety Statistical Trends

Number of Fatalities and Licensed Drivers, 1980–2009



Between 1980 and 2009, the number of licensed drivers increased by 82 per cent. In contrast, the number of fatalities decreased by 63 per cent over this period.

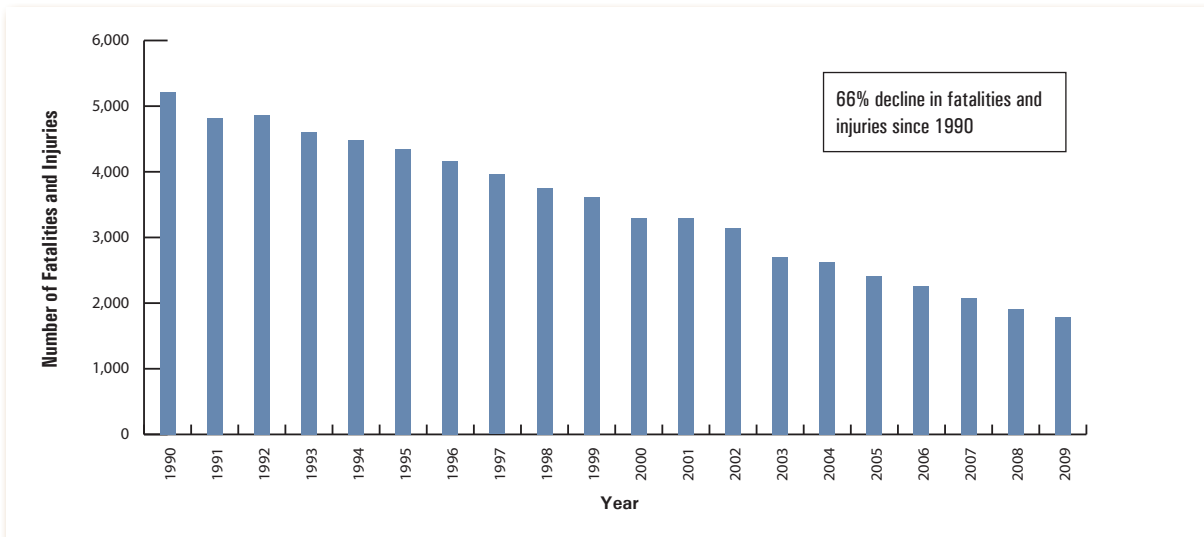
Number and Rate of Major and Minor Injuries, 1980–2009



In 2009, 62,562 people were injured (including minor, major and minimal injuries) in motor vehicle crashes, 38,805 fewer than in 1980. This puts the number of injuries on the province's roadways at its lowest level since 1965.

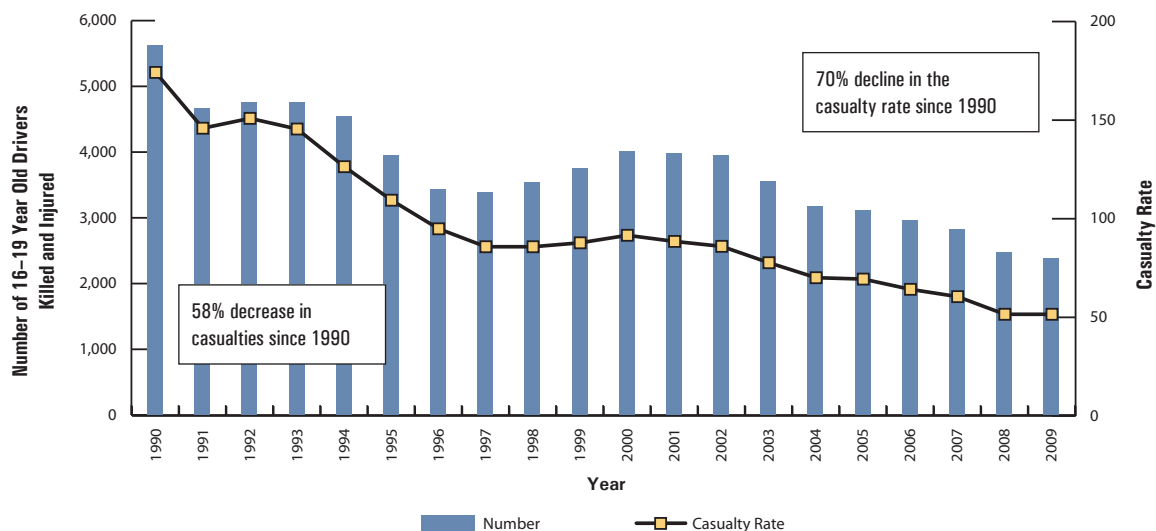
Fatality and Injury Trends for Different Age Groups

Number of Persons Age 0–9 Killed and Injured, 1990–2009



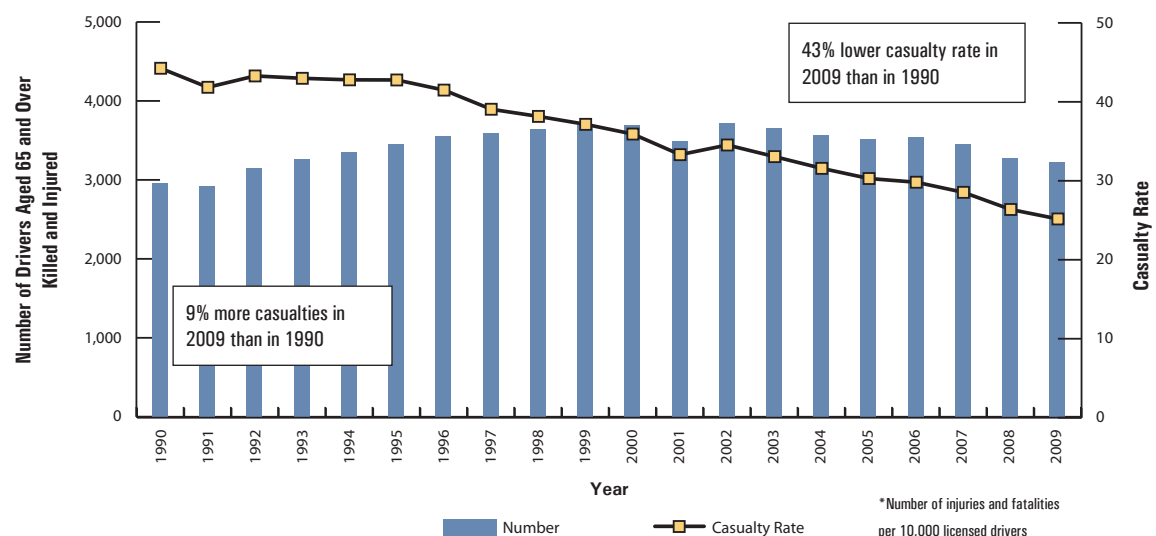
Between 1990 and 2009, the number of traffic fatalities and injuries among children aged 0–9 has dropped steadily, leading to an overall decline of 66 per cent.

Number and Rate of Drivers 16–19 Years Old Killed and Injured, 1990–2009



Both the number and per licensed drivers rate of 16-19 year old driver casualties (deaths or injuries) have declined, with a 58 per cent decrease in the number killed/injured and a 70 per cent decline in the casualty rate since 1990. Over the time period 1990-2009, the number of licensed drivers aged 16-19 increased by 43 per cent, from 322,542 to 462,718.

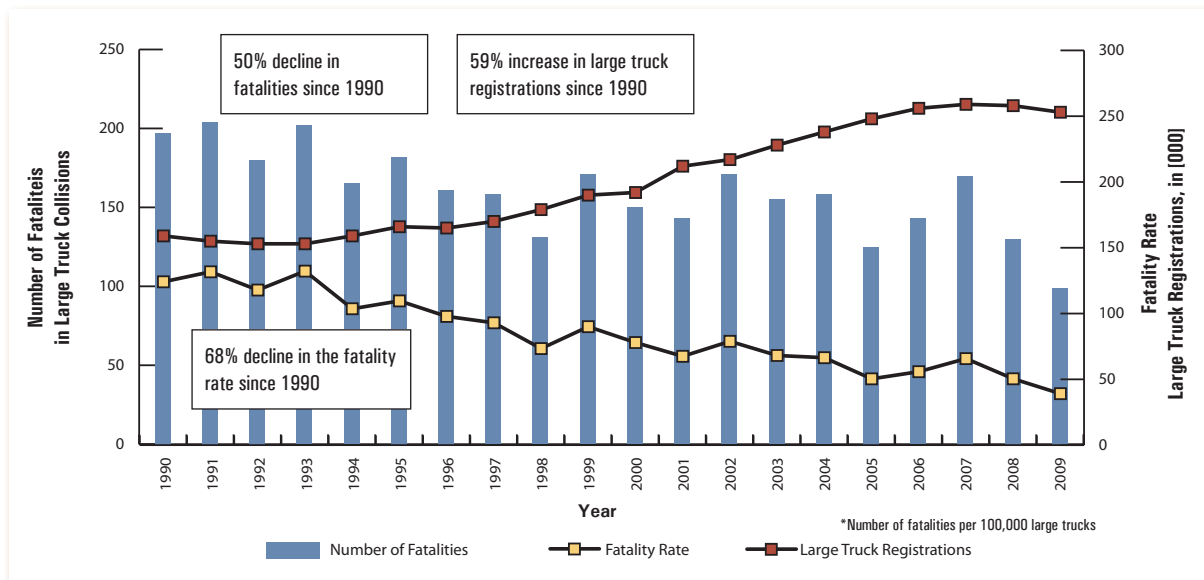
Number and Rate* of Drivers Aged 65 and Over Killed and Injured, 1990–2009



The number of drivers aged 65 and over killed and injured has increased since 1990. However, the population of drivers age 65 and over has been increasing more rapidly, therefore, the casualty rate per 10,000 licensed drivers has decreased by 43 per cent.

Large Trucks

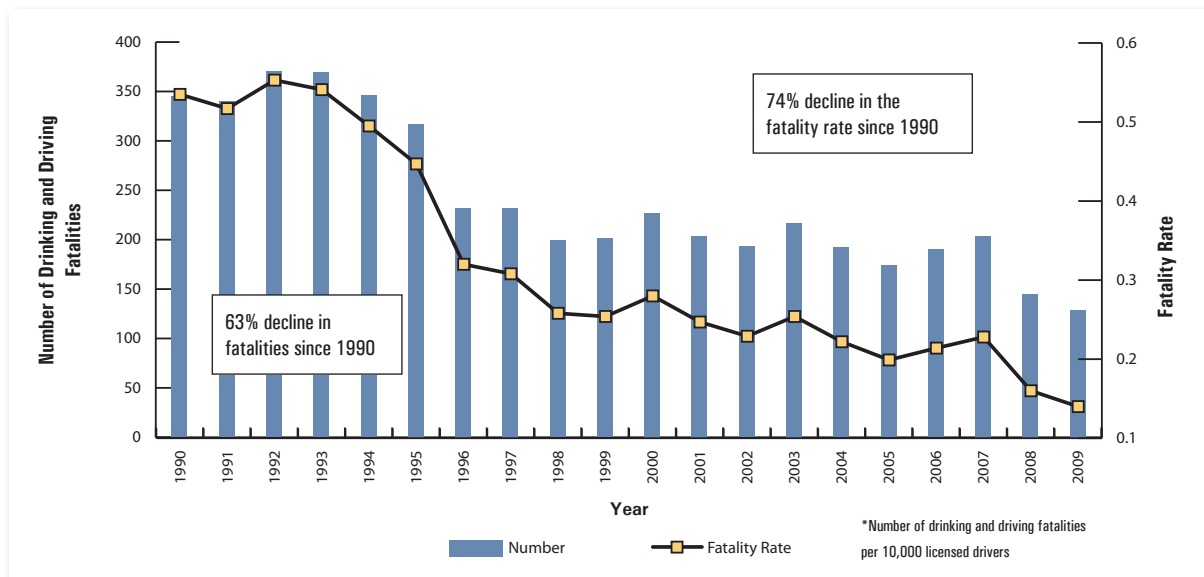
Number and Rate* of Fatalities in Large Truck Collisions; Large Truck Registrations, 1990–2009



Ontario's data shows that despite an increase of 59 per cent in the number of large trucks registered in Ontario, the number of large truck fatalities decreased from 197 in 1990 to 99 in 2009, down 50 per cent.

Drinking and Driving

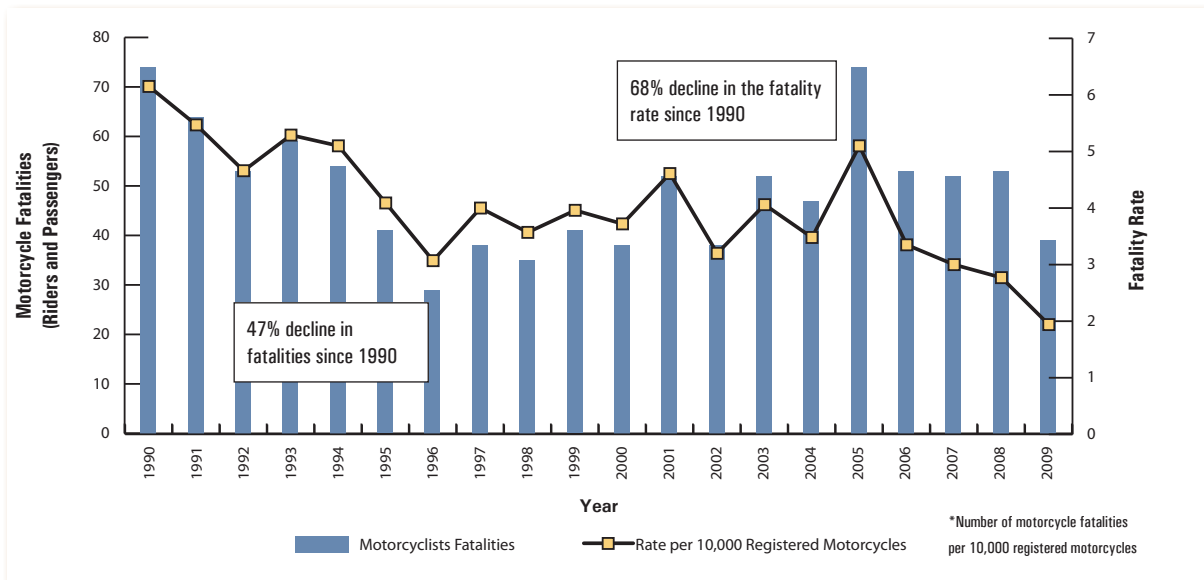
Number and Rate* of Drinking and Driving Fatalities, 1990–2009



Both the number of drinking and driving fatalities and the rate per 10,000 licensed drivers have declined dramatically from 1990, by 63 per cent and 74 per cent respectively.

Vulnerable Road Users

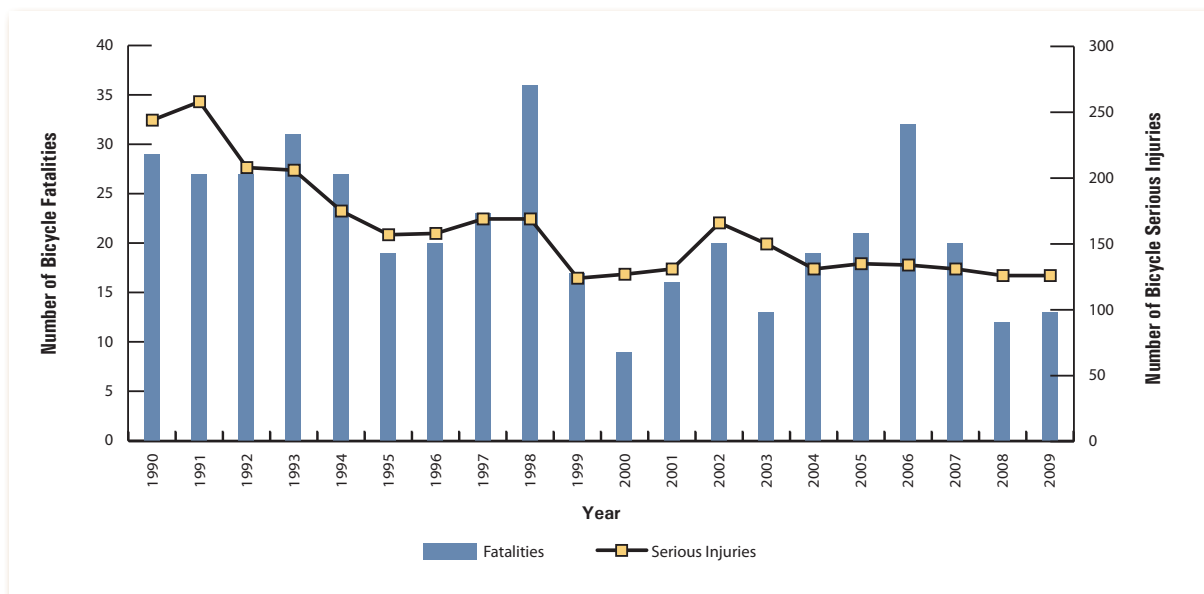
Number and Rate* of Motorcycle Fatalities, 1990–2009



Motorcycle registrations increased 5 per cent from 191,572 in 2008 to 200,810 in 2009. At the same time, motorcycle rider fatalities decreased from 53 in 2008 to 39 in 2009.

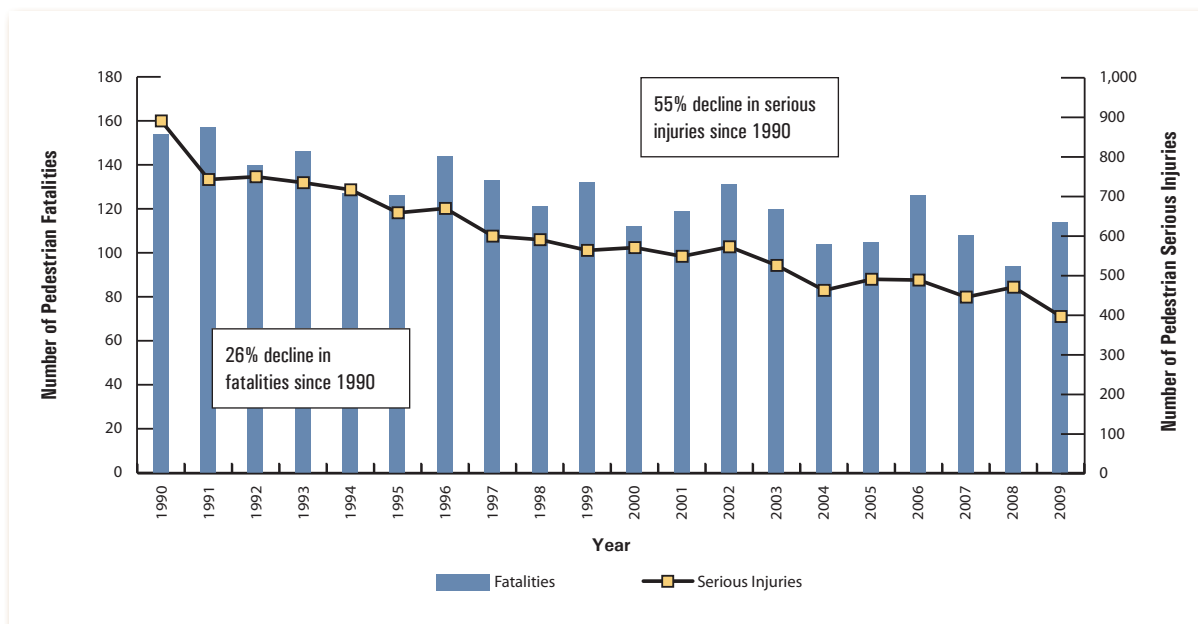
Over the long term, between 1990 and 2009, there has been a 68 per cent decline in the fatality rate per 10,000 motorcycle registrations.

Number of Bicycle Fatalities and Serious Injuries, 1990–2009



Between 1990 and 2009, the number of bicycle rider fatalities fluctuated between a high of 36 in 1998 and a low of 9 in 2000. There were 13 bicycle rider fatalities in 2009.

Number of Pedestrian Fatalities and Serious Injuries, 1990–2009



Between 1990 and 2009, the number of pedestrian fatalities was highest in 1991 with 157, and reached its lowest level in decades in 2008 with 94. The number of pedestrian fatalities increased from 94 in 2008 to 114 in 2009, up 21 percent. However, the number of pedestrian serious injuries decreased from 471 in 2008 to 397 in 2009, down by 16 percent.

OVERVIEW

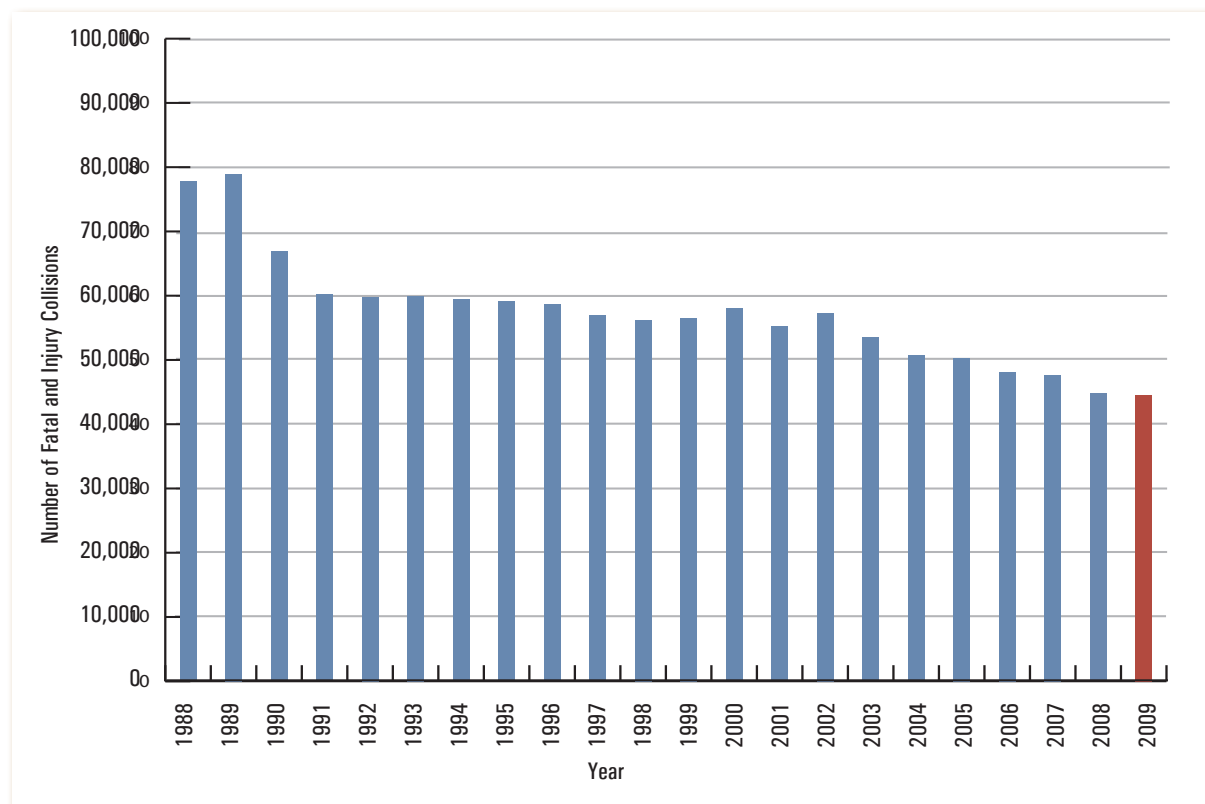


This section provides a synopsis of key road safety statistics such as the total number of traffic fatalities, injuries, collisions, licensed drivers and registered vehicles.

The primary measure of road user safety in Ontario is the number of fatalities for every 10,000 licensed drivers. In 2009, Ontario's fatality rate of 0.62 per 10,000 licensed drivers was the lowest ever recorded in Ontario. Ontario's rate was the lowest in all of North America in 2009.

The information on hospitalizations and other statistics in this section is a stark reminder of the human and economic cost of motor vehicle collisions, both in terms of lives lost, pain and suffering, and the impact on Ontario's healthcare system, which affects everyone in Ontario.

Figure 1 Total Number of Fatal and Injury Collisions in Ontario, 1988–2009



1A. SYNOPSIS

Selected Statistics: 2009	
Total Reportable Collisions	216,315
Total Drivers Involved in Collisions	384,979
Total Vehicles Involved in Collisions	401,180
Fatal Collisions	516
Personal Injury Collisions	44,054
Property Damage Collisions	171,745
Persons Killed	564
Drivers Killed (excludes All Terrain Vehicle and Snow Vehicle Drivers)	328
Drivers Killed (Impaired or Had Been Drinking)	89
Passengers Killed	111
Pedestrians Killed	114
Other Road Users Killed	11
Persons Injured	62,562
Estimated Ontario Population (2009)	13,072,700
Licensed Drivers	9,101,938
Registered Motor Vehicles	8,437,909
Estimated Vehicle Kilometres Travelled (in millions)	125,802
Number of Persons Killed in Motor Vehicle Collisions per 100,000 People in Ontario	4.31
Number of Persons Killed in Motor Vehicle Collisions per 100 Million Kilometres Travelled	0.45
Collision Rate per 100 Million Kilometres Travelled	171.95
Fatal Collision Rate per 100 Million Kilometres Travelled	0.41
Number of Persons Killed in Motor Vehicle Collisions per 10,000 Licensed Drivers	0.62

1B. HEALTH PERSPECTIVE

Table 1.1: Selected Diagnoses of Motor Vehicle Collision Injuries Hospitalized in Ontario, Fiscal Year 2008/2009

Selected Diagnoses	Hospital Admissions	Hospital Days of Stay
Fracture of head	133	720
Fracture of neck and trunk	819	8,266
Fracture of upper limb	477	2,438
Fracture of lower limb	1,190	10,408
Fractures involving multiple body regions	*	6
Dislocation, sprains and strains	95	478
Dislocations, sprains, and strains involving multiple body regions	*	*
Intracranial injury	664	10,221
Internal injury of chest, abdomen, and pelvis	389	3,869
Open wound of head, neck, or trunk	52	159
Open wound of upper limb	8	34
Open wound of lower limb	34	368
Open wounds involving multiple body regions	*	*
Other diagnosis	963	10,073
Total Admissions and Days **	4,824	47,040

Source: Ministry of Health and Long-Term Care, Health Solutions Delivery Branch, Health Data Decision Support Unit

* Small cell count (a value of less than 5); small cell counts are not to be published

** Totals do not include small cell counts

Table 1.2: Selected Surgical Procedures for Motor Vehicle Collision Injuries Hospitalized in Ontario, Fiscal Year 2008/2009

Selected Procedure	Hospital Admissions	Hospital Days of Stay
Head, brain, and cerebral meninges	102	2,316
Spinal cord, spinal canal, and meninges	16	216
Nose, mouth, and pharynx	22	97
Chest wall, pleura, mediastinum, and diaphragm	121	1,224
Bone marrow and spleen	44	891
Kidney	*	67
Facial bones and joints	76	648
Reduction of fracture/dislocation with or without fixation (excluding head and facial bones)	1,537	14,809
Repair joint structures (excluding head or facial bones)	15	134
Skin and subcutaneous tissue	68	652
Other diagnostic and therapeutic interventions	1,516	19,497
Sub-total of surgical admissions and days **	3,517	40,551
No interventions performed - surgical procedures	1,308	6,495

Source: Ministry of Health and Long-Term Care, Health Solutions Delivery Branch, Health Data Decision Support Unit

* Small cell count (a value of less than 5); small cell counts are not to be published

** Sub-totals do not include small cell counts

THE PEOPLE



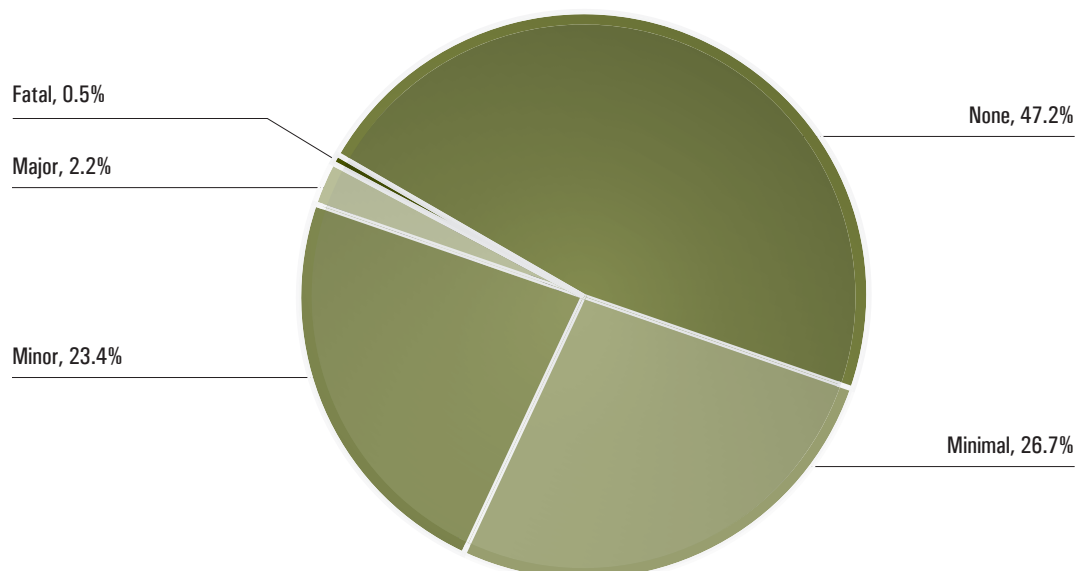
2. THE PEOPLE

This section highlights traffic fatalities and injuries by severity and characteristics of the road users involved. Key historical road safety data – covering a period of more than 75 years – is also provided to assist in analyzing long-term safety trends in Ontario.

Highlights in this section include a decrease in the number of traffic fatalities from 631 in 2008 to 564 in 2009; the number of injuries also decreased from 62,743 in 2008 to 62,562 in 2009. At the same time, the number of licensed drivers increased by 59,652, the number of registered motor vehicles increased by 76,888 and the estimated distance driven in Ontario increased by 1,129 million kilometers.

Out of 828 drivers involved in fatal collisions, 115 were drinking drivers and 79 drivers were coded as inattentive. Despite the fact that only 5 percent of Ontario vehicle occupants do not use seat belts, in fatal crashes, people not wearing seat belts are over-represented – 22.5% of fatalities were not using seat belts at the time of the crash.

Figure 2 Persons Involved in Fatal and Injury Collisions by Severity of Injury, 2009



2A. PEOPLE IN COLLISIONS

Table 2.1: Category of Involved Person by Severity of Injury in Fatal and Personal Injury Collisions, 2009

Category of Involved Person	Severity of Injury					Total
	None	Minimal	Minor	Major	Fatal	
Driver	35,915	18,635	15,605	1,163	277	71,595
Passenger*	19,740	9,805	7,716	587	110	37,958
Pedestrian	192	1,719	2,406	397	114	4,828
Bicyclist	26	923	920	104	13	1,986
Bicycle Passenger	20	170	220	22	0	432
All Terrain Vehicle** Driver	5	5	13	9	3	35
All Terrain Vehicle** Passenger	2	3	5	3	0	13
Snow Vehicle Driver	2	5	9	4	4	24
Snow Vehicle Passenger	3	1	4	3	0	11
Motorcycle Driver	59	367	673	196	38	1,333
Motorcycle Passenger	43	100	246	79	1	469
Moped Driver	8	15	17	5	0	45
Moped Passenger	1	1	9	2	0	13
Hanger On	42	75	68	18	3	206
Other	395	105	119	11	1	631
Total	56,453	31,929	28,030	2,603	564	119,579

* Includes bus passengers

** In this table, all terrain vehicles include two-wheel, three-wheel and four-wheel off-road vehicles.

Only persons involved in HTA reportable fatality and injury collisions are shown in this table (for more information on special vehicles, see Chapter 6).

Fatal: Person killed immediately or within 30 days of the motor vehicle collision.

Major: Person admitted to hospital.

Minor: Person went to hospital and was treated in the emergency room but was not admitted.

Minimal: Person did not go to hospital when leaving the scene of the collision. Includes minor abrasions, bruises and complaints of pain.

None: Uninjured person.

Table 2.2: Category of Person Killed by Age Groups, 2009

Category of Person	Age Groups																Total
	0-4	5-9	10-15	16	17	18	19	20	21-24	25-34	35-44	45-54	55-64	65-74	75+	UK	
Driver	0	0	0	3	4	12	8	6	35	48	29	43	38	20	31	0	277
Passenger*	3	0	7	4	5	6	6	3	12	17	9	7	11	4	19	0	113
Pedestrian	0	0	4	5	3	2	2	3	1	17	3	20	13	10	31	0	114
Bicyclist	0	0	1	0	0	0	0	1	1	1	3	0	1	3	2	0	13
Bicycle Passenger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All Terrain Vehicle Driver	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	3
All Terrain Vehicle Passenger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Snow Vehicle Driver	0	0	0	0	0	0	0	0	1	2	0	1	0	0	0	0	4
Snow Vehicle Passenger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Motorcycle Driver	0	0	0	0	0	1	0	1	3	7	9	8	4	3	2	0	38
Motorcycle Passenger	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Moped Driver	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Moped Passenger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	3	0	13	12	12	21	17	14	53	92	54	80	67	40	86	0	564

* Includes hangers on.

** In this table, all terrain vehicles include two-wheel, three-wheel and four-wheel off-road vehicles.

UK = Unknown

Only persons involved in HTA reportable collisions are shown in this table (for more information on special vehicles, see Chapter 6).

Table 2.3: Category of Person Injured by Age Groups, 2009

Category of Person	Age Groups																Total
	0-4	5-9	10-15	16	17	18	19	20	21-24	25-34	35-44	45-54	55-64	65-74	75+	UK	
Driver	0	0	22	114	597	771	872	812	3,409	7,238	7,202	6,992	4,169	1,846	1,325	34	35,403
Passenger*	670	870	1,355	413	585	635	618	570	1,861	2,900	2,112	2,007	1,420	834	787	587	18,224
Pedestrian	87	136	474	109	131	122	135	121	422	612	513	610	452	259	251	88	4,522
Bicyclist	1	4	7	10	16	16	15	21	65	124	103	99	62	23	5	1,376	1,947
Bicycle Passenger	1	9	61	21	21	17	13	15	52	71	54	53	31	13	6	5	443
All Terrain Vehicle Driver	0	0	4	2	0	0	2	2	2	5	2	3	1	1	0	3	27
All Terrain Vehicle Passenger	0	0	3	0	1	1	0	0	2	2	1	1	0	0	0	0	11
Snow Vehicle Driver	0	0	2	7	1	0	0	0	0	2	2	2	0	1	0	1	18
Snow Vehicle Passenger	0	0	2	1	2	0	1	0	0	1	1	0	1	0	0	0	9
Motorcycle Driver	0	0	2	9	13	15	14	21	111	240	260	331	175	38	5	2	1,236
Motorcycle Passenger	0	1	7	1	5	7	12	6	35	72	77	123	70	12	3	4	435
Moped Driver	0	0	0	1	1	0	1	1	2	5	6	8	6	4	0	2	37
Moped Passenger	0	0	1	0	0	0	0	0	0	1	3	0	7	2	0	0	14
Other	4	2	6	1	2	4	1	2	14	43	32	36	27	17	9	36	236
Total	763	1,022	1,946	689	1,375	1,588	1,684	1,571	5,975	11,316	10,368	10,265	6,421	3,050	2,391	2,138	62,562

* Includes hangers on.

** In this table, all terrain vehicles include two-wheel, three-wheel and four-wheel off-road vehicles.

UK = Unknown

Only persons involved in HTA reportable collisions are shown in this table (for more information on special vehicles, see Chapter 6).

Table 2.4: Sex of Driver by Class of Collision, 2009

Sex of Driver	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Male	621	47,385	176,804	224,810
Female	193	30,636	104,715	135,544
Unknown*	14	3,954	20,657	24,625
Total	828	81,975	302,176	384,979

* This includes situations where the enforcement officer is unable to make a determination, e.g., hit and run.

Fatal Collision: A motor vehicle collision in which at least one person sustains bodily injury resulting in death within 30 days of the collision.

Personal Injury Collision: A motor vehicle collision in which at least one person involved sustains bodily injury not resulting in death.

Property Damage: A motor vehicle collision in which no person sustains bodily injury, but in which there is damage to any public property or damage to private property including damage to the motor vehicle or its load.

Table 2.5: Driver Condition by Class of Collision, 2009

Condition of Driver	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Normal	535	61,535	231,838	293,908
Had Been Drinking	22	842	1,776	2,640
Ability Impaired – Alcohol over 0.08	81	726	1,549	2,356
Ability Impaired Alcohol	12	425	854	1,291
Ability Impaired Drugs	10	71	144	225
Fatigue	11	534	1,020	1,565
Medical/Physical Disability	16	518	489	1,023
Inattentive	79	11,771	25,785	37,635
Other *	4	230	787	1,021
Unknown **	58	5,323	37,934	43,315
Total	828	81,975	302,176	384,979

* Driver condition is not defined above.

** This includes situations where the enforcement officer is unable to make a determination, e.g., hit and run.

Had Been Drinking: Driver had consumed alcohol but his/her physical condition was not legally impaired.

Ability Impaired Alcohol over 0.08: Driver had consumed alcohol and upon testing was found to have a blood alcohol level in excess of 0.08 grams of alcohol per 100 millilitres of blood.

Ability Impaired Alcohol: Driver had consumed sufficient alcohol to warrant being charged with a drinking and driving offence.

Inattentive: Driver was operating a motor vehicle without due care and attention or placing less than full concentration on driving, e.g., changing radio stations, consuming food, reading, talking on phone or two-way radio, using headphones.

Table 2.6: Driver Age by Driver Condition in all Collisions, 2009*

Driver Age	Driver Condition						Total
	Normal	Had Been Drinking	Impaired Alcohol over 0.08	Ability Impaired Alcohol	Other	Unknown	
Under 16	77	5	1	0	49	24	156
16	814	8	4	5	214	87	1,132
17	4,615	44	30	17	1,131	385	6,222
18	5,769	88	53	31	1,351	438	7,730
19	6,074	127	90	44	1,342	530	8,207
20	6,321	136	72	56	1,185	486	8,256
21-24	25,516	444	374	200	4,231	2,073	32,838
25-34	58,778	648	634	327	7,705	4,534	72,626
35-44	62,679	424	418	220	7,115	4,586	75,442
45-54	60,519	349	395	207	6,878	4,340	72,688
55-64	35,950	166	182	110	4,366	2,617	43,391
65-74	15,714	73	75	36	2,501	1,196	19,595
75 & over	8,805	35	18	15	2,347	851	12,071
Unknown	2,277	93	10	23	1,054	21,168	24,625
Total	293,908	2,640	2,356	1,291	41,469	43,315	384,979

* Includes bicyclists, drivers of all terrain vehicles, etc.

Table 2.7: Recorded Occurrence of Driver Condition in Drivers Killed, 2009*

Recorded Occurrence	Number of Drivers	%
Normal	195	58.0
Had Been Drinking	16	4.8
Ability Impaired – Alcohol over 0.08	71	21.1
Ability Impaired Alcohol	2	0.6
Ability Impaired Drugs	8	2.4
Fatigue	7	2.1
Medical/Physical Disability	13	3.9
Inattentive	22	6.5
Other	2	0.6
Unknown	0	0.0
Total	336	100.0

* Total includes drivers of all vehicle types killed in HTA reportable collisions.

Table 2.8: Apparent Driver Action by Class of Collision, 2009

Apparent Driver Action	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Driving Properly	342	39,249	151,075	190,666
Following Too Close	6	7,640	26,660	34,306
Speed Too Fast	56	846	1,391	2,293
Speed Too Fast for Conditions	47	3,637	13,609	17,293
Speed Too Slow	0	42	191	233
Improper Turn	20	3,911	11,009	14,940
Disobey Traffic Control	33	3,718	5,332	9,083
Fail to Yield Right of Way	69	8,266	19,403	27,738
Improper Passing	17	579	2,557	3,153
Lost Control	114	5,792	15,628	21,534
Wrong Way on One Way Road	0	82	167	249
Improper Lane Change	8	1,628	9,590	11,226
Other*	76	4,614	17,114	21,804
Unknown	40	1,971	28,450	30,461
Total	828	81,975	302,176	384,979

* Includes actions such as hit and run, driving on the wrong side of the road, improper parking and illegally parked.

The tables on the next two pages include only seat belt usage in collisions in which there were fatalities and personal injuries. Property damage only collisions are excluded.

Table 2.9: Seat Belt Usage by Severity of Driver Injury in Fatal and Personal Injury Collisions, 2009

Safety Equipment Used	Severity of Injury					Total
	Fatal	Major	Minor	Minimal	None	
Seat Belt Used	169	842	13,589	17,117	33,215	64,932
Other Equipment*	9	82	803	646	492	2,032
Equipment Not Used	65	110	220	110	74	579
No Safety Equipment	1	5	26	21	58	111
Use Unknown	33	124	967	741	2,076	3,941
Total	277	1,163	15,605	18,635	35,915	71,595

* Other equipment includes use of airbags. Combined use of seat belt with airbag deployment is unknown.

Table 2.10: Seat Belt Usage by Severity of Passenger* Injury in Fatal and Personal Injury Collisions, 2009

Safety Equipment Used	Severity of Injury					Total
	Fatal	Major	Minor	Minimal	None	
Seat Belt Used	60	382	6,080	8,202	15,408	30,132
Child Safety Seat Used Incorrectly	1	3	10	23	82	119
Child Safety Seat Used Correctly	2	9	212	395	1,905	2,523
Other Equipment**	5	27	254	178	174	638
Equipment Not Used	23	71	229	126	112	561
No Safety Equipment	5	26	413	537	929	1,910
Use Unknown	17	81	521	346	1,093	2,058
Total	113	599	7,719	9,807	19,703	37,941

* Includes hangers on and excludes passengers in parked vehicles.

** Other equipment includes use of airbags. Combined use of seat belt with airbag deployment is unknown.

Table 2.11: Restraint Use for Children (0–4 Years) Killed in Collisions, 2005–2009

Year Used	Child Restraint Used Correctly	Child Restraint Used Incorrectly	Lap/Lap & Shoulder Belt	Restraint Not Available	Available, Not Used	Use Unknown	Total
2005	6	0	0	1	0	1	8
2006	5	1	0	0	0	1	7
2007	2	1	0	0	0	0	3
2008	1	2	1	0	0	0	4
2009	2	1	0	0	0	0	3

Table 2.12: Restraint Use for Children (0–4 Years) Involved in Fatal and Personal Injury Collisions by Severity of Injury, 2009

Restraint Used	Injury Level		
	Major/Fatal %	Minimal/Minor %	No Injuries %
Child Restraint Used Correctly	57.1	66.4	66.1
Child Restraint Used Incorrectly	19.1	4.3	3.2
Lap/Lap-Shoulder Belt	4.8	21.0	23.2
Not Available	4.8	4.6	3.7
Available, Not Used	9.5	0.5	0.3
Other	0.0	0.8	0.4
Unknown	4.8	2.5	3.0
Total	100.0	100.0	100.0

Table 2.13: Pedestrian Condition by Severity of Injury, 2009

Condition of Pedestrian	Killed	Injured
Normal	52	3,042
Had Been Drinking	3	205
Ability Impaired Alcohol over 0.08	25	12
Ability Impaired Alcohol	0	32
Ability Impaired Drugs	1	9
Fatigue	0	5
Medical or Physical Defect	9	77
Inattentive	22	576
Other	2	47
Unknown	0	517
Total	114	4,522

Table 2.14: Apparent Pedestrian Action by Severity of Injury, 2009

Apparent Pedestrian Action	Killed	Injured
Crossing Intersection With Right of Way	15	1,886
Crossing Intersection Without Right of Way	26	590
Crossing Intersection No Traffic Control	16	280
Crossing Pedestrian Crossover	2	108
Crossing Marked Crosswalk Without Right of Way	5	127
Walking on Roadway With Traffic	10	123
Walking on Roadway Against Traffic	2	53
On Sidewalk or Shoulder	10	306
Playing or Working on Highway	0	70
Coming from Behind Parked Vehicle or Object	3	75
Running onto Roadway	7	274
Getting On/Off School Bus *	0	7
Getting On/Off Vehicle	0	51
Pushing/Working on Vehicle	1	16
Other	17	556
Total	114	4,522

* Calendar Year

2B. PUTTING THE PEOPLE IN CONTEXT

Table 2.15: Category of Persons Killed and Injured, 1988–2009

Year	Ontario Population (Est.)**	Driver		Passenger*		Pedestrian		All Others		Persons Killed In All Classes		Persons Injured In All Classes	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Number	Rate Per 100,000	Number	Rate Per 100,000
1988	9,439,600	563	63,339	350	39,157	186	6,344	138	9,318	1,237	13.1	118,158	1,251.7
1989	9,598,600	627	66,334	369	39,950	161	6,187	129	8,181	1,286	13.4	120,652	1,257.0
1990	9,743,300	540	55,073	321	33,606	154	5,839	105	7,057	1,120	11.5	101,575	1,042.5
1991	10,084,900	542	48,021	298	30,230	157	5,352	105	6,916	1,102	10.9	90,519	897.6
1992	10,098,600	548	49,259	317	30,567	140	5,177	85	6,022	1,090	10.8	91,025	901.4
1993	10,813,200	595	49,628	296	30,584	146	5,181	98	5,756	1,135	10.5	91,149	842.9
1994	10,927,800	508	49,632	273	29,570	127	5,344	91	5,484	999	9.1	90,030	823.9
1995	11,100,000	527	49,916	276	29,440	126	5,261	70	4,955	999	9.0	89,572	807.0
1996	11,320,456	459	49,614	270	28,997	144	5,336	55	4,458	928	8.2	88,405	780.9
1997	11,500,329	474	47,861	224	27,915	133	5,154	68	4,597	899	7.8	85,527	743.7
1998	11,675,497	437	47,088	222	26,422	121	4,978	74	4,704	854	7.3	83,192	712.5
1999	11,513,700	452	47,943	221	26,774	132	4,894	63	4,451	868	7.5	84,062	730.1
2000	11,695,110	437	48,068	243	27,206	112	5,190	57	4,544	849	7.3	85,009	726.9
2001	11,966,960	430	45,758	224	26,510	119	5,063	72	4,451	845	7.1	81,782	683.4
2002	12,027,900	450	47,909	227	26,742	131	4,990	65	4,551	873	7.3	84,192	700.0
2003	12,293,700	425	44,212	216	24,563	120	4,758	70	4,346	831	6.8	77,879	633.5
2004	12,407,300	433	41,608	191	22,396	104	4,505	71	4,499	799	6.4	73,008	588.4
2005	12,558,669	377	41,199	183	21,268	105	4,709	101	4,674	766	6.1	71,850	572.1
2006	12,705,328	383	39,633	169	20,005	126	4,729	91	4,426	769	6.1	68,793	541.5
2007	12,803,861	396	38,913	186	19,112	108	4,636	75	4,514	765	6.0	67,175	524.6
2008	12,932,297	343	36,219	124	17,679	94	4,454	70	4,391	631	4.9	62,743	485.2
2009	13,072,700	277	35,403	113	18,224	114	4,522	60	4,413	564	4.3	62,562	478.8

* Excludes motorcycle passengers, who are included with "All Others".

**Source: Statistics Canada

Table 2.16: Sex of Driver Population by Age Groups, 2009

	Age Groups							
Sex of Driver	16–19	20–24	25–34	35–44	45–54	55–64	65+	Total
Male	245,503	388,634	782,542	898,838	987,443	724,165	691,283	4,718,408
Female	217,215	357,852	771,724	864,866	919,089	663,929	588,855	4,383,530
Total	462,718	746,486	1,554,266	1,763,704	1,906,532	1,388,094	1,280,138	9,101,938

Table 2.17: Driver Population by Age Groups, 1988–2009

	Age Groups							
Year	16–19	20–24	25–34	35–44	45–54	55–64	65+	Total
1988	310,764	643,691	1,588,516	1,353,841	898,103	714,266	608,931	6,118,112
1989	323,109	631,470	1,634,187	1,409,053	931,991	720,788	639,826	6,290,424
1990	322,542	629,478	1,666,474	1,467,699	964,925	728,380	669,385	6,448,883
1991	319,584	627,931	1,673,502	1,501,765	1,018,365	736,652	696,432	6,574,231
1992	314,685	623,707	1,665,433	1,528,726	1,082,883	745,759	727,568	6,688,761
1993	326,389	621,934	1,655,573	1,566,083	1,136,365	758,840	758,244	6,823,428
1994	358,817	622,704	1,645,962	1,611,972	1,190,442	770,882	783,181	6,983,960
1995	360,847	614,094	1,621,989	1,659,749	1,240,072	782,871	806,396	7,086,018
1996	361,571	612,060	1,608,567	1,717,050	1,297,289	805,486	856,144	7,258,167
1997	394,512	624,532	1,611,708	1,789,110	1,360,555	837,606	919,584	7,537,607
1998	412,589	634,053	1,593,744	1,845,474	1,415,258	872,426	954,212	7,727,756
1999	426,643	642,808	1,576,673	1,895,323	1,475,588	907,235	994,044	7,918,314
2000	438,170	659,331	1,582,207	1,935,150	1,540,499	939,838	1,026,179	8,121,374
2001	449,853	671,424	1,580,758	1,946,713	1,577,920	990,745	1,049,203	8,266,616
2002	458,627	686,561	1,580,837	1,945,944	1,612,219	1,053,877	1,075,439	8,413,504
2003	457,049	704,720	1,575,345	1,940,896	1,653,604	1,105,726	1,104,215	8,541,555
2004	453,157	719,861	1,567,346	1,929,418	1,698,350	1,157,824	1,129,641	8,655,597
2005	447,954	727,529	1,557,476	1,912,898	1,748,335	1,206,374	1,161,644	8,762,210
2006	461,058	736,575	1,550,313	1,888,582	1,793,515	1,252,613	1,185,309	8,867,965
2007	466,979	739,555	1,547,980	1,851,780	1,835,315	1,296,295	1,207,493	8,945,397
2008	478,950	744,491	1,553,552	1,808,597	1,875,742	1,339,948	1,241,006	9,042,286
2009	462,718	746,486	1,554,266	1,763,704	1,906,532	1,388,094	1,280,138	9,101,938

Table 2.18: Driver Licence Class by Sex, 2009

Licence Class	Driver Sex					
	Male	%	Female	%	Total	%
A	99,678	2.11	2,084	0.05	101,762	1.12
AB	4,992	0.11	648	0.01	5,640	0.06
ABM	2,558	0.05	164	0.00	2,722	0.03
ABM1	49	0.00	8	0.00	57	0.00
ABM2	224	0.00	42	0.00	266	0.00
AC	28,000	0.59	1,035	0.02	29,035	0.32
ACM	10,875	0.23	172	0.00	11,047	0.12
ACM1	396	0.01	14	0.00	410	0.00
ACM2	1,534	0.03	64	0.00	1,598	0.02
AM	27,372	0.58	193	0.00	27,565	0.30
AM1	857	0.02	13	0.00	870	0.01
AM2	3,620	0.08	73	0.00	3,693	0.04
B	17,612	0.37	16,786	0.38	34,398	0.38
BM	4,734	0.10	928	0.02	5,662	0.06
BM1	89	0.00	59	0.00	148	0.00
BM2	444	0.01	330	0.01	774	0.01
C	7,874	0.17	1,145	0.03	9,019	0.10
CM	1,768	0.04	78	0.00	1,846	0.02
CM1	77	0.00	6	0.00	83	0.00
CM2	278	0.01	29	0.00	307	0.00
D	222,370	4.71	22,981	0.52	245,351	2.70
DE	100	0.00	34	0.00	134	0.00
DEM	24	0.00	0	0.00	24	0.00
DEM1	1	0.00	0	0.00	1	0.00
DEM2	2	0.00	1	0.00	3	0.00
DF	2,600	0.06	213	0.00	2,813	0.03
DFM	830	0.02	26	0.00	856	0.01
DFM1	44	0.00	3	0.00	47	0.00
DFM2	137	0.00	17	0.00	154	0.00
DM	64,089	1.36	1,761	0.04	65,850	0.72
DM1	1,049	0.02	85	0.00	1,134	0.01
DM2	5,019	0.11	340	0.01	5,359	0.06
E	1,422	0.03	2,184	0.05	3,606	0.04

Table 2.18: Driver Licence Class by Sex, 2009 (continued)

Licence Class	Driver Sex					
	Male	%	Female	%	Total	%
EM	159	0.00	35	0.00	194	0.00
EM1	5	0.00	4	0.00	9	0.00
EM2	16	0.00	10	0.00	26	0.00
F	7,351	0.16	5,817	0.13	13,168	0.14
FM	1,313	0.03	238	0.01	1,551	0.02
FM1	68	0.00	35	0.00	103	0.00
FM2	255	0.01	160	0.00	415	0.00
G	3,200,770	67.84	3,559,244	81.2	6,760,014	74.27
G1	237,747	5.04	329,846	7.52	567,593	6.24
G1M	45	0.00	20	0.00	65	0.00
G1M1	837	0.02	176	0.00	1,013	0.01
G1M2	981	0.02	276	0.01	1,257	0.01
G2	350,173	7.42	355,435	8.11	705,608	7.75
G2M	317	0.01	58	0.00	375	0.00
G2M1	1,675	0.04	228	0.01	1,903	0.02
G2M2	3,368	0.07	575	0.01	3,943	0.04
GM	335,552	7.11	57,482	1.31	393,034	4.32
GM1	12,444	0.26	4,101	0.09	16,545	0.18
GM2	53,046	1.12	17,884	0.41	70,930	0.78
M	721	0.02	138	0.00	859	0.01
M1	321	0.01	70	0.00	391	0.00
M2	526	0.01	182	0.00	708	0.01
Total	4,718,408	100.00	4,383,530	100.00	9,101,938	100.00

Table 2.19: Licensed Drivers, Total Collisions, Persons Killed and Injured, 1931–2009

Year	Licensed Drivers	Total Collisions	Persons Killed	Persons Injured
1931	666,266	9,241	571	8,494
1932	648,710	9,171	502	8,231
1933	638,710	8,634	403	7,877
1934	665,743	9,645	512	8,990
1935	707,457	10,648	560	9,839
1936	755,765	11,388	546	10,251
1937	802,765	13,906	766	12,092
1938	866,729	13,715	640	11,683
1939	899,572	13,710	652	11,638
1940	937,551	16,921	716	13,715
1941	986,773	18,167	801	14,275
1942	961,883	13,490	567	10,205
1943	919,457	11,025	549	8,628
1944	905,650	11,004	498	8,373
1945	971,852	13,458	598	9,804
1946	1,087,445	17,356	688	12,228
1947	1,144,291	22,293	734	13,056
1948	1,209,408	27,406	740	14,970
1949	1,278,584	34,472	830	17,469
1950	1,366,388	43,681	791	19,940
1951	1,461,538	54,920	949	22,557
1952	1,556,559	58,515	1,010	23,643
1953	1,656,259	65,866	1,082	24,353
1954	1,747,567	62,509	1,045	24,607
1955	1,856,845	63,219	1,111	26,246
1956	1,967,789	71,399	1,180	28,626
1957	2,088,551	76,302	1,279	30,414
1958	2,176,417	76,884	1,112	30,106
1959	2,270,246	81,518	1,187	31,602
1960	2,355,567	87,186	1,166	34,436
1961	2,414,615	85,577	1,268	37,146
1962	2,469,425	94,231	1,383	41,766
1963	2,555,015	104,919	1,421	47,801

Table 2.19: Licensed Drivers, Total Collisions, Persons Killed and Injured, 1931–2009 (continued)

Year	Licensed Drivers	Total Collisions	Persons Killed	Persons Injured
1964	2,694,023	111,232	1,424	54,560
1965	2,739,138	128,462	1,611	60,917
1966	2,821,648	139,781	1,596	65,210
1967	3,004,654	145,008	1,719	67,280
1968	3,128,509	155,127	1,586	71,520
1969	3,247,979	169,395	1,683	74,902
1970	3,422,892	141,609	1,535	75,126
1971	3,563,197	158,831	1,769	84,650
1972	3,688,541	189,494	1,934	95,181
1973	3,841,628	193,021	1,959	97,790
1974	3,972,980	204,271	1,748	98,673
1975	4,160,623	213,689	1,800	97,034
1976	4,315,925	211,865	1,511	83,736
1977	4,562,903	218,567	1,420	95,664
1978	4,725,546	186,363	1,450	94,979
1979	4,858,351	197,196	1,560	101,321
1980	4,993,531	196,501	1,508	101,367
1981	5,123,177	198,372	1,445	100,321
1982	5,247,198	187,943	1,138	92,815
1983	5,380,259	181,999	1,204	91,706
1984	5,513,911	194,782	1,132	97,230
1985	5,660,422	189,750	1,191	109,169
1986	5,817,799	187,286	1,102	108,839
1987	5,978,105	203,431	1,229	121,089
1988	6,118,112	228,398	1,237	118,158
1989	6,290,424	247,038	1,286	120,652
1990	6,448,883	220,188	1,120	101,575
1991	6,574,231	213,669	1,102	90,519
1992	6,688,761	224,249	1,090	91,025
1993	6,823,428	228,834	1,135	91,149
1994	6,983,960	226,996	999	90,030
1995	7,086,018	219,085	999	89,572
1996	7,258,167	215,024	929	88,445

Table 2.19: Licensed Drivers, Total Collisions, Persons Killed and Injured, 1931–2009 (continued)

Year	Licensed Drivers	Total Collisions	Persons Killed	Persons Injured
1997	7,537,607	221,500	899	85,527
1998	7,727,756	213,356	854	83,192
1999	7,918,314	221,962	868	84,062
2000	8,121,374	240,630	849	85,009
2001	8,266,616	234,004	845	81,782
2002	8,413,504	244,642	873	84,192
2003	8,541,555	246,463	831	77,879
2004	8,655,597	231,548	799	73,008
2005	8,762,210	230,258	766	71,850
2006	8,867,965	216,247	769	68,793
2007	8,945,397	233,487	765	67,175
2008	9,042,286	229,196	631	62,743
2009	9,101,938	216,315	564	62,562

Table 2.20: Driver Age Groups – Number Licensed, Collision Involvement and Per Cent Involved in Collisions, 2009

Drivers Age	Drivers Licensed			Drivers Involved in Collisions*			% of Drivers of Each Age Involved in Collisions		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Under 16	0	0	0	84	26	110	N/A	N/A	N/A
16	42,425	36,927	79,352	677	424	1,101	1.60	1.15	1.39
17	60,091	53,296	113,387	3,740	2,438	6,178	6.22	4.57	5.45
18	67,852	60,372	128,224	4,802	2,892	7,694	7.08	4.79	6.00
19	75,135	66,620	141,755	5,098	3,066	8,164	6.79	4.60	5.76
20	76,910	69,273	146,183	5,045	3,164	8,209	6.56	4.57	5.62
21-24	311,724	288,579	600,303	19,566	13,106	32,672	6.28	4.54	5.44
25-34	782,542	771,724	1,554,266	44,099	28,054	72,153	5.64	3.64	4.64
35-44	898,838	864,866	1,763,704	45,688	29,296	74,984	5.08	3.39	4.25
45-54	987,443	919,089	1,906,532	45,521	26,698	72,219	4.61	2.90	3.79
55-64	724,165	663,929	1,388,094	28,176	14,956	43,132	3.89	2.25	3.11
65-74	421,668	363,714	785,382	12,728	6,768	19,496	3.02	1.86	2.48
75 & over	269,615	225,141	494,756	7,712	4,332	12,044	2.86	1.92	2.43
Unknown	0	0	0	38,446	0	38,446	N/A	N/A	N/A
Total	4,718,408	4,383,530	9,101,938	222,936	135,220	358,156	4.72	3.08	3.93

* This table includes people in the driver's position of parked vehicles and excludes drivers of some vehicles such as bicycles, snow and off-road vehicles, etc.

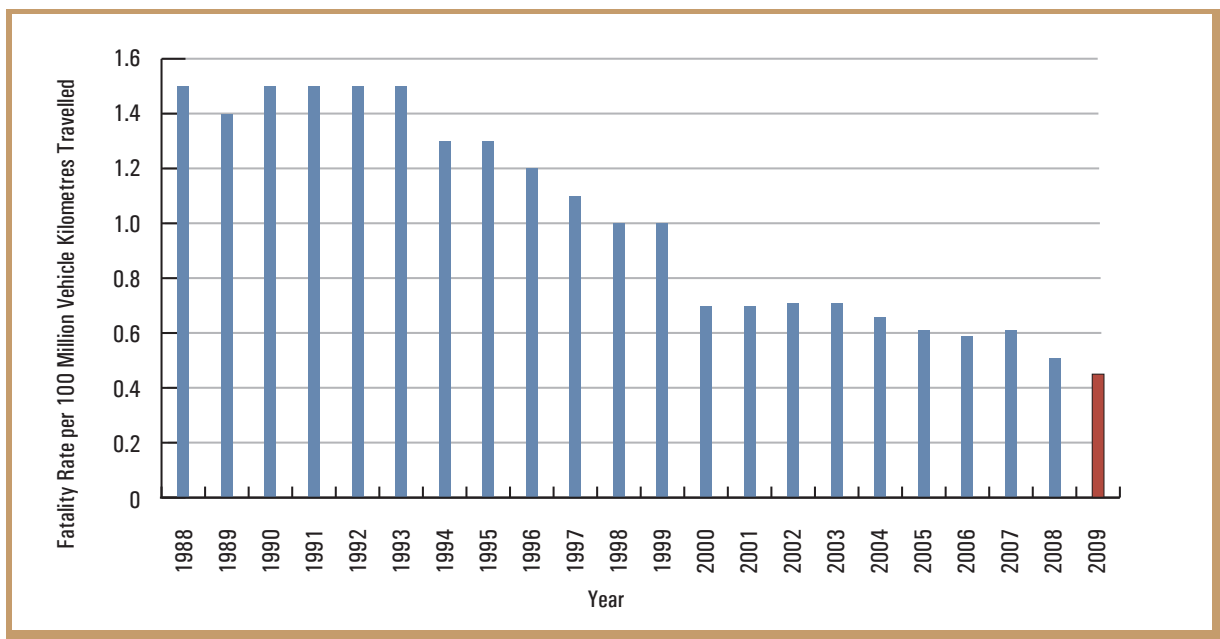
THE COLLISION



This section profiles the types of collisions that occur on Ontario's roads. To prevent motor vehicle collisions, we need to understand the context in which they occur, including hour of occurrence, day, month, collision type, location, and environmental factors. Identifying these contributing factors is an important step toward reducing collisions on Ontario's roads.

The number of fatal collisions decreased from 574 in 2008 to 516 in 2009, down by 58, and the number of injury collisions decreased from 44,219 in 2008 to 44,054 in 2009, down by 165. The number of property damage collisions also decreased from 184,403 in 2008 to 171,745 in 2009, down by 12,658. The fatality rate per 100 million kilometres travelled in Ontario decreased from 0.51 in 2008 to 0.45 in 2009.

Figure 3 Fatality Rate per 100 Million Vehicle Kilometres Travelled in Ontario, 1988–2009



3A. TYPES OF COLLISIONS

Table 3.1: Class of Collision, 1988–2009

Year	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
1988	1,076	76,724	150,598	228,398
1989	1,106	77,852	168,080	247,038
1990	959	65,912	153,317	220,188
1991	956	59,242	153,471	213,669
1992	942	58,889	164,418	224,249
1993	987	58,932	168,915	228,834
1994	875	58,525	167,596	226,996
1995	860	58,273	159,952	219,085
1996	816	57,791	156,417	215,024
1997	807	56,121	164,572	221,500
1998	768	55,441	157,147	213,356
1999	763	55,764	165,435	221,962
2000	737	57,279	182,614	240,630
2001	733	54,479	178,792	234,004
2002	770	56,516	187,356	244,642
2003	754	52,757	192,952	246,463
2004	718	49,948	180,882	231,548
2005	684	49,584	179,990	230,258
2006	692	47,411	168,144	216,247
2007	683	47,014	185,790	233,487
2008	574	44,219	184,403	229,196
2009	516	44,054	171,745	216,315

Table 3.2: Collision Rate Per One Million Kilometres Travelled, 1988–2009

Year	Collision Rate	Year	Collision Rate	Year	Collision Rate
1988	3.2	1996	2.7	2004	1.9*
1989	3.2	1997	2.7	2005	1.8*
1990	3.0	1998	2.5	2006	1.66*
1991	2.9	1999	2.5	2007	1.87*
1992	3.1	2000	2.0*	2008	1.84*
1993	3.0	2001	2.0*	2009	1.72*
1994	2.9	2002	2.0*		
1995	2.8	2003	2.1*		

* Based on Statistics Canada estimates of Vehicle Kilometres Travelled.

Table 3.3: Motor Vehicles Involved in Collisions Based on Initial Impact, 2009

Motor Vehicle in Collision Involving	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Moveable Objects:				
Other Motor Vehicles	477	64,835	255,225	320,537
Unattended Vehicles	5	481	14,386	14,872
Pedestrian	112	4,125	286	4,523
Cyclist	10	2,336	523	2,869
Railway Train	1	13	19	33
Street Car	1	45	249	295
Farm Tractor	1	20	70	91
Domestic Animal	0	72	665	737
Wild Animal	2	462	12,528	12,992
Other Moveable Objects	5	46	210	261
Sub-total	614	72,435	284,161	357,210
Fixed Objects:				
Cable Guide Rail	0	41	235	276
Concrete Guide Rail	1	255	1,042	1,298
Steel Guide Rail	2	167	649	818
Pole (Utility Tower)	7	325	1,183	1,515
Pole (Sign/Parking Meter)	2	87	690	779
Fence/Noise Barrier	0	29	153	182
Culvert	1	13	33	47
Bridge Support	2	12	89	103
Rock Face	0	13	29	42
Snow Bank or Drift	0	67	430	497
Ditch	7	253	748	1,008
Curb	10	440	1,449	1,899
Crash Cushion	1	21	42	64
Building or Wall	0	23	136	159
Water Course	0	6	11	17
Construction Marker	0	8	41	49
Tree, Shrub or Stump	3	100	349	452
Other Fixed Object	2	189	1,173	1,364
Sub-total	38	2,049	8,482	10,569

Table 3.3: Motor Vehicles Involved in Collisions Based on Initial Impact, 2009 (continued)

Motor Vehicle in Collision Involving	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Other Events:				
Ran Off Road	90	2,721	6,255	9,066
Skidding/Sliding	87	4,018	13,137	17,242
Jack-knifing	0	18	75	93
Load Spill	0	5	46	51
Fire/Explosion	0	1	169	170
Submersion	0	1	4	5
Rollover	0	160	243	403
Debris on Road	1	102	1,052	1,155
Debris off Vehicle	2	101	1,037	1,140
Other Non-Collision Event	11	1,190	2,875	4,076
Sub-total	191	8,317	24,893	33,401
Total	843	82,801	317,536	401,180

Table 3.4: Initial Impact Type by Class of Collision, 2009

Initial Impact Type	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Approaching	90	1,083	2,081	3,254
Angle	52	4,854	13,090	17,996
Rear End	19	12,513	48,826	61,358
Sideswipe	26	2,590	19,815	22,431
Turning Movement	49	9,416	30,505	39,970
With Unattended Motor Vehicle	6	492	14,429	14,927
Single Motor Vehicle	273	12,964	40,550	53,787
Other	1	142	2,449	2,592
Unknown	0	0	0	0
Total	516	44,054	171,745	216,315

3B. TIME AND ENVIRONMENT

Table 3.5: Month of Occurrence by Class of Collision, 2009

Month of Occurrence	Class of Collision						Total	
	Fatal	%	Personal Injury	%	Property Damage	%		
January	45	8.7	3,979	9	22,900	13.3	26,924	12.4
February	37	7.2	2,985	6.8	14,084	8.2	17,106	7.9
March	30	5.8	2,821	6.4	11,079	6.5	13,930	6.4
April	41	7.9	3,379	7.7	12,127	7.1	15,547	7.2
May	29	5.6	3,601	8.2	12,402	7.2	16,032	7.4
June	52	10.1	4,125	9.4	13,372	7.8	17,549	8.1
July	56	10.9	3,889	8.8	12,373	7.2	16,318	7.5
August	52	10.1	4,003	9.1	12,614	7.3	16,669	7.7
September	50	9.7	3,895	8.8	13,044	7.6	16,989	7.9
October	42	8.1	3,873	8.8	14,586	8.5	18,501	8.6
November	37	7.2	3,622	8.2	15,011	8.7	18,670	8.6
December	45	8.7	3,882	8.8	18,153	10.6	22,080	10.2
Total	516	100	44,054	100	171,745	100	216,315	100.0

Table 3.6: Day of Week by Class of Collision, 2009

Day of Occurrence	Class of Collision						Total	
	Fatal	%	Personal Injury	%	Property Damage	%		
Monday	50	9.7	6006	13.6	23,146	13.5	29,202	13.5
Tuesday	70	13.6	6454	14.7	25,260	14.7	31,784	14.7
Wednesday	84	16.3	6735	15.3	27,783	16.2	34,602	16.0
Thursday	72	14.0	7017	15.9	27,775	16.2	34,864	16.1
Friday	95	18.4	7393	16.8	28,887	16.8	36,375	16.8
Saturday	75	14.5	5845	13.3	22,095	12.9	28,015	13.0
Sunday	70	13.6	4604	10.5	16,799	9.8	21,473	9.9
Total	516	100.0	44,054	100.0	171,745	100.0	216,315	100.0

Table 3.7: Hour of Occurrence by Class of Collision, 2009

Hour of Occurrence A.M.	Class of Collision							
	Fatal	%	Personal Injury	%	Property Damage	%	Total	%
12 to 1 a.m.	12	2.3	578	1.3	2,231	1.3	2,821	1.3
1 to 2 a.m.	20	3.9	545	1.2	2,145	1.2	2,710	1.3
2 to 3 a.m.	14	2.7	639	1.5	2,055	1.2	2,708	1.3
3 to 4 a.m.	10	1.9	459	1.0	1,751	1.0	2,220	1.0
4 to 5 a.m.	7	1.4	336	0.8	1,420	0.8	1,763	0.8
5 to 6 a.m.	13	2.5	450	1.0	2,049	1.2	2,512	1.2
Sub-total	76	14.7	3,007	6.8	11,651	6.8	14,734	6.8
6 to 7 a.m.	22	4.3	951	2.2	4,132	2.4	5,105	2.4
7 to 8 a.m.	24	4.7	1,690	3.8	6,978	4.1	8,692	4.0
8 to 9 a.m.	15	2.9	2,643	6.0	11,006	6.4	13,664	6.3
9 to 10 a.m.	26	5.0	1,968	4.5	8,762	5.1	10,756	5.0
10 to 11 a.m.	16	3.1	1,979	4.5	7,998	4.7	9,993	4.6
11 to 12 noon	19	3.7	2,353	5.3	8,942	5.2	11,314	5.2
Sub-total	122	23.6	11,584	26.3	47,818	27.8	59,524	27.5
Hour of Occurrence P.M.								
12 to 1 p.m.	17	3.3	2,713	6.2	10,518	6.1	13,248	6.1
1 to 2 p.m.	34	6.6	2,620	5.9	9,713	5.7	12,367	5.7
2 to 3 p.m.	30	5.8	3,042	6.9	10,710	6.2	13,782	6.4
3 to 4 p.m.	25	4.8	3,516	8.0	12,964	7.5	16,505	7.6
4 to 5 p.m.	32	6.2	3,612	8.2	13,783	8.0	17,427	8.1
5 to 6 p.m.	39	7.6	3,658	8.3	14,040	8.2	17,737	8.2
Sub-total	177	34.3	19,161	43.5	71,728	41.8	91,066	42.1
6 to 7 p.m.	31	6.0	2,850	6.5	11,123	6.5	14,004	6.5
7 to 8 p.m.	14	2.7	2,003	4.5	8,020	4.7	10,037	4.6
8 to 9 p.m.	22	4.3	1,636	3.7	6,236	3.6	7,894	3.6
9 to 10 p.m.	30	5.8	1,528	3.5	5,916	3.4	7,474	3.5
10 to 11 p.m.	21	4.1	1,150	2.6	4,579	2.7	5,750	2.7
11 to 12 midnight	18	3.5	875	2.0	3,472	2.0	4,365	2.0
Sub-total	136	26.4	10,042	22.8	39,346	22.9	49,524	22.9
Unknown	5	1.0	260	0.6	1,202	0.7	1,467	0.7
Total	516	100	44,054	100	171,745	100	216,315	100.0

Table 3.8: Statutory Holidays, Holiday Weekends – Persons Killed and Injured in Fatal Collisions, 2009

Statutory Holiday*	Number of Fatal Collisions	Drivers		Passengers		Others		Total	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
Easter Weekend	7	3	3	2	4	3	0	8	7
Victoria Day	5	3	2	1	0	1	0	5	2
Canada Day	2	1	0	0	0	1	0	2	0
Civic Holiday	6	5	3	2	4	0	0	7	7
Labour Day	3	2	0	0	1	1	0	3	1
Thanksgiving Day	0	0	0	0	0	0	0	0	0
Christmas/Boxing Day	5	4	6	2	11	0	0	6	17

* Actual length may vary depending on the calendar year. For certain holidays, it might include the whole weekend.

Table 3.9: Light Condition by Class of Collision, 2009

Light Condition	Class of Collision						Total	
	Fatal	%	Personal Injury	%	Property Damage	%		
Daylight	283	54.8	31,676	71.9	119,907	69.8	151,866	70.2
Dawn	9	1.7	657	1.5	2,963	1.7	3,629	1.7
Dusk	17	3.3	1,339	3.0	5,400	3.1	6,756	3.1
Darkness	205	39.7	10,366	23.5	43,185	25.1	53,756	24.9
Other	2	0.4	16	0.0	290	0.2	308	0.1
Total	516	100.0	44,054	100.0	171,745	100.0	216,315	100.0

Table 3.10: Visibility by Class of Collision, 2009

Visibility	Class of Collision						Total	
	Fatal	%	Personal Injury	%	Property Damage	%		
Clear	412	79.8	35,232	80.0	133,805	77.9	169,449	78.3
Rain	66	12.8	5,305	12.0	18,835	11.0	24,206	11.2
Snow	19	3.7	2,500	5.7	14,881	8.7	17,400	8.0
Freezing Rain	2	0.4	237	0.5	1,110	0.6	1,349	0.6
Drifting Snow	4	0.8	241	0.5	1,052	0.6	1,297	0.6
Strong Wind	1	0.2	131	0.3	377	0.2	509	0.2
Fog, Mist, Smoke or Dust	7	1.4	272	0.6	1,093	0.6	1,372	0.6
Other	5	1.0	136	0.3	592	0.3	733	0.3
Total	516	100.0	44,054	100.0	171,745	100.0	216,315	100.0

3C. THE COLLISION LOCATION

Table 3.11: Road Jurisdiction by Class of Collision, 2009

Road Jurisdiction	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Municipal (Excluding Township Road)	197	28,204	109,215	137,616
Provincial Highway	134	6,846	28,820	35,800
Township	32	1,369	5,894	7,295
County or District	80	2,228	9,136	11,444
Regional Municipality	70	5,289	18,263	23,622
Federal	2	94	330	426
Other	1	24	87	112
Total	516	44,054	171,745	216,315

Table 3.12: Road Jurisdiction for All Collisions, 2000–2009

Road Jurisdiction*	Year										Total
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	
Municipal	126,063	136,499	143,951	149,533	149,310	139,303	139,081	132,420	144,202	137,616	1,397,978
Provincial	37,139	38,366	36,511	39,579	42,518	40,506	40,780	37,603	40,494	35,800	389,296
Township	8,672	9,844	8,678	9,602	9,146	8,144	8,189	7,819	7,636	7,295	85,025
County or District	11,217	12,847	12,692	13,773	14,200	13,929	12,852	12,144	12,018	11,444	127,116
Regional Municipality	38,360	42,464	31,659	31,628	30,731	29,195	28,864	25,760	24,343	23,622	306,626
Federal	400	439	354	425	423	363	392	343	380	426	3,945
Other	111	171	159	102	135	108	100	158	123	112	1,279
Total	221,962	240,630	234,004	244,642	246,463	231,548	230,258	216,247	229,196	216,315	2,311,265

* Collisions may not be comparable across the different years due to transfer of highways between jurisdictions.

Table 3.13: Collision Location by Class of Collision, 2009

Road Location	Class of Collision						Total	
	Fatal	%	Personal Injury	%	Property Damage	%		
Non-intersection	322	62.4	16,121	36.6	77,222	45.0	93,665	43.3
Intersection Related	62	12.0	11,398	25.9	41,695	24.3	53,155	24.6
At Intersection	88	17.1	11,877	27.0	30,316	17.7	42,281	19.5
At/Near Private Drive	38	7.4	4,260	9.7	20,825	12.1	25,123	11.6
At Railway	1	0.2	69	0.2	286	0.2	356	0.2
Underpass or Tunnel	0	0.0	54	0.1	164	0.1	218	0.1
Overpass or Bridge	5	1.0	199	0.5	690	0.4	894	0.4
Other	0	0.0	76	0.2	547	0.3	623	0.3
Total	516	100.0	44,054	100.0	171,745	100.0	216,315	100.0

Table 3.14: Road Surface Condition by Class of Collision, 2009

Road Surface Condition	Class of Collision						Total	
	Fatal	%	Personal Injury	%	Property Damage	%		
Dry	350	67.8	31,030	70.4	112,824	65.7	144,204	66.7
Wet	109	21.1	8,416	19.1	32,132	18.7	40,657	18.8
Loose Snow	15	2.9	1,363	3.1	8,286	4.8	9,664	4.5
Slush	6	1.2	766	1.7	4,075	2.4	4,847	2.2
Packed Snow	9	1.7	756	1.7	5,242	3.1	6,007	2.8
Ice	17	3.3	1,383	3.1	7,819	4.6	9,219	4.3
Mud	0	0.0	9	0.0	45	0.0	54	0.0
Loose Sand or Gravel	9	1.7	227	0.5	505	0.3	741	0.3
Spilled Liquid	0	0.0	10	0.0	15	0.0	25	0.0
Other	1	0.2	94	0.2	802	0.5	897	0.4
Total	516	100.0	44,054	100.0	171,745	100.0	216,315	100.0

PLACE OF COLLISION



This section pinpoints the location of collisions in Ontario and provides a breakdown of the various classes of collision by municipality. The location of collisions provides vital information to MTO and local road authorities about the safety of Ontario's roads and highways. Comparing the number of collisions and injuries within specific municipalities over the years may help to highlight trends in road safety over time. This information helps MTO and local authorities to prioritize their infrastructure projects, enforcement activities, and education campaigns.

Changes to the names and boundaries of municipalities due to amalgamation or annexation may mean that the statistics found in Table 4.1 of this section are not comparable from year to year. Information about number of population by Ontario's municipalities can be found at the Statistics Canada website at www.statcan.gc.ca. These figures can be used to determine per capita fatality or injury rates by municipality for comparison purpose.

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009

Place of Collision	Total Collisions	Class of Collision			Persons		Motor Vehicle Registrations*
		Fatal	Personal Injury	Property Damage	Killed	Injured	
ONTARIO TOTAL	216,315	516	44,054	171,745	564	62,562	8,682,096
Algoma							
Blind River T	20	0	3	17	0	4	
Elliot Lake C	74	0	12	62	0	12	
Huron Shores M	3	1	0	2	1	0	
Macdonald, Meredith & Aberdeen Add'l TP	6	0	1	5	0	2	
Sault Ste. Marie C	1,256	1	297	958	1	400	
Provincial Highway	509	5	122	382	6	204	
Other Areas	220	1	40	179	1	65	
Algoma Total	2,088	8	475	1,605	9	687	116,936
Brant							
Brantford C	1,538	2	345	1,191	2	488	
Provincial Highway	216	1	58	157	1	88	
Other Areas	580	6	121	453	7	187	
Brant Total	2,334	9	524	1,801	10	763	95,406

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

		Class of Collision			Persons		
Place of Collision	Total Collisions	Fatal	Personal Injury	Property Damage	Killed	Injured	Motor Vehicle Registrations*
Bruce							
Arran-Elderslie M	63	1	7	55	1	9	
Brockton M	264	4	61	199	4	82	
Huron-Kinloss TP	135	0	21	114	0	37	
Kincardine M	180	1	33	146	1	46	
Saugeen Shores T	170	0	29	141	0	47	
South Bruce Peninsula T	75	0	13	62	0	18	
Provincial Highway	247	0	50	197	0	84	
Other Areas	208	1	35	172	1	51	
Bruce Total	1,342	7	249	1,086	7	374	69,707
Chatham-Kent							
Provincial Highway	134	1	31	102	1	51	
Other Areas	1,258	4	279	975	4	394	
Chatham-Kent Total	1,392	5	310	1,077	5	445	89,040
Cochrane							
Black River-Matheson TP	0	0	0	0	0	0	
Cochrane T	59	1	9	49	1	14	
Hearst T	30	0	4	26	0	7	
Iroquois Falls T	25	0	3	22	0	3	
Kapuskasing T	78	0	15	63	0	20	
Timmins C	630	0	124	506	0	166	
Provincial Highway	321	2	72	247	2	102	
Other Areas	166	0	35	131	0	48	
Cochrane Total	1,309	3	262	1,044	3	360	88,329
Dufferin							
Amaranth TP	75	2	11	62	3	19	
East Garafraxa TP	35	0	6	29	0	7	
East Luther Grand Valley TP	16	0	2	14	0	2	
Melancthon TP	81	1	14	66	1	21	
Mono T	102	0	21	81	0	34	
Mulmur TP	77	0	8	69	0	13	
Orangeville T	253	0	35	218	0	44	

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

Place of Collision	Total Collisions	Class of Collision			Persons		Motor Vehicle Registrations*
		Fatal	Personal Injury	Property Damage	Killed	Injured	
Shelburne T	39	1	3	35	1	3	
Provincial Highway	121	2	25	94	3	46	
Other Areas	236	0	43	193	0	64	
Dufferin Total	1,035	6	168	861	8	253	45,988
Durham							
Ajax T	507	1	184	322	1	254	
Brock TP	112	0	19	93	0	21	
Clarington M	580	2	104	474	2	144	
Oshawa C	1,953	2	311	1,640	2	426	
Pickering C	566	4	173	389	4	228	
Scugog TP	222	1	33	188	1	46	
Uxbridge TP	257	4	53	200	4	77	
Whitby T	1,154	0	185	969	0	252	
Provincial Highway	1,510	4	274	1,232	4	420	
Other Areas	31	0	3	28	0	5	
Durham Total	6,892	18	1,339	5,535	18	1,873	430,244
Elgin							
Aylmer T	51	0	5	46	0	6	
Bayham M	84	0	18	66	0	25	
Central Elgin M	139	1	25	113	1	48	
Dutton-Dunwich M	45	1	3	41	1	7	
Malahide TP	71	0	18	53	0	30	
Southwold TP	59	1	8	50	1	11	
St. Thomas C	333	2	95	236	2	135	
West Elgin M	44	1	5	38	1	8	
Provincial Highway	149	1	27	121	1	44	
Other Areas	56	1	11	44	1	16	
Elgin Total	1,031	8	215	808	8	330	75,091
Essex							
Amherstburg T	216	2	32	182	2	51	
Essex T	197	1	31	165	1	45	

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

Place of Collision	Total Collisions	Class of Collision			Persons		Motor Vehicle Registrations*
		Fatal	Personal Injury	Property Damage	Killed	Injured	
Kingsville T	142	2	29	111	2	41	
Lakeshore T	257	3	55	199	3	87	
LaSalle T	166	0	37	129	0	48	
Leamington M	350	0	60	290	0	96	
Tecumseh T	194	1	36	157	1	48	
Windsor C	3,410	4	780	2,626	4	1,068	
Provincial Highway	207	3	56	148	3	86	
Other Areas	81	0	14	67	0	20	
Essex Total	5,220	16	1,130	4,074	16	1,590	265,707
Frontenac							
Central Frontenac TP	52	0	11	41	0	15	
Frontenac Islands TP	7	0	0	7	0	0	
Kingston C	1,662	1	329	1,332	2	438	
North Frontenac TP	20	0	4	16	0	4	
South Frontenac TP	213	2	62	149	3	76	
Provincial Highway	243	2	39	202	2	53	
Other Areas	76	0	6	70	0	9	
Frontenac Total	2,273	5	451	1,817	7	595	110,529
Grey							
The Blue Mountains T	79	3	14	62	3	21	
Chatsworth TP	102	1	21	80	1	28	
Georgian Bluffs TP	6	0	1	5	0	5	
Grey Highlands M	55	0	10	45	0	12	
Hanover T	98	0	20	78	0	25	
Meaford M	106	0	19	87	0	25	
Owen Sound C	289	0	70	219	0	107	
Southgate TP	56	0	12	44	0	15	
West Grey M	223	1	40	182	1	53	
Provincial Highway	329	2	67	260	3	111	
Other Areas	296	1	46	249	1	61	
Grey Total	1,639	8	320	1,311	9	463	77,891

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

		Class of Collision			Persons		
Place of Collision	Total Collisions	Fatal	Personal Injury	Property Damage	Killed	Injured	Motor Vehicle Registrations*
Haldimand-Norfolk							
Provincial Highway	202	2	53	147	2	76	
Other Areas	1,166	8	220	938	10	318	
Haldimand-Norfolk Total	1,368	10	273	1,085	12	394	98,945
Haliburton							
Algonquin Highlands TP	3	0	1	2	0	2	
Dysart et al TP	123	0	18	105	0	21	
Highlands East M	0	0	0	0	0	0	
Minden Hills TP	87	1	15	71	1	22	
Provincial Highway	187	0	26	161	0	36	
Other Areas	156	0	28	128	0	48	
Haliburton Total	556	1	88	467	1	129	21,958
Halton							
Burlington C	2,232	4	402	1,826	5	524	
Halton Hills T	631	1	131	499	1	175	
Milton T	955	1	208	746	1	313	
Oakville T	2,119	3	284	1,832	3	380	
Provincial Highway	2,450	4	426	2,020	4	634	
Other Areas	75	0	10	65	0	13	
Halton Total	8,462	13	1,461	6,988	14	2,039	347,802
Hamilton							
Hamilton C	8,088	15	1,726	6,347	17	2,448	
Provincial Highway	957	4	199	754	4	293	
Other Areas	0	0	0	0	0	0	
Hamilton Total	9,045	19	1,925	7,101	21	2,741	313,798
Hastings							
Bancroft T	75	0	16	59	0	26	
Belleville C	908	1	202	705	1	280	
Centre Hastings M	25	0	5	20	0	6	
Deseronto T	12	0	1	11	0	2	
Faraday TP	11	0	4	7	0	5	

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

Place of Collision	Total Collisions	Class of Collision			Persons		Motor Vehicle Registrations*
		Fatal	Personal Injury	Property Damage	Killed	Injured	
Hastings Highlands M	1	0	0	1	0	0	
Madoc TP	10	0	2	8	0	2	
Marmora and Lake M	15	0	3	12	0	3	
Stirling-Rawdon TP	60	0	7	53	0	7	
Tweed M	71	0	9	62	0	13	
Tyendinaga TP	51	0	13	38	0	20	
Provincial Highway	588	3	114	471	3	161	
Other Areas	638	2	139	497	2	190	
Hastings Total	2,465	6	515	1,944	6	715	119,579
Huron							
Ashfield-Colborne-Wawanosh TP	28	0	5	23	0	8	
Bluewater M	0	0	0	0	0	0	
Central Huron M	11	0	7	4	0	7	
Goderich T	81	0	13	68	0	17	
Howick TP	51	0	7	44	0	14	
Huron East M	34	0	11	23	0	22	
Morris-Turnberry M	38	0	7	31	0	9	
North Huron TP	20	0	8	12	0	12	
South Huron M	1	0	0	1	0	0	
Provincial Highway	171	0	35	136	0	48	
Other Areas	518	3	76	439	3	129	
Huron Total	953	3	169	781	3	266	53,305
Kawartha Lakes							
Kawartha Lakes C	676	3	150	523	4	195	
Provincial Highway	192	0	59	133	0	100	
Other Areas	3	0	0	3	0	0	
Kawartha Lakes Total	871	3	209	659	4	295	72,615
Kenora							
Dryden C	134	0	8	126	0	10	
Kenora C	361	0	41	320	0	53	
Red Lake M	22	0	1	21	0	1	

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

Place of Collision	Total Collisions	Class of Collision			Persons		Motor Vehicle Registrations*
		Fatal	Personal Injury	Property Damage	Killed	Injured	
Sioux Lookout M	45	0	6	39	0	7	
Provincial Highway	751	6	119	626	7	181	
Other Areas	126	1	18	107	2	30	
Kenora Total	1,439	7	193	1,239	9	282	53,556
Lambton							
Brooke-Alvinston TP	28	0	7	21	0	11	
Dawn-Euphemia TP	37	0	5	32	0	9	
Enniskillen TP	55	1	11	43	1	12	
Petrolia T	29	0	5	24	0	7	
Plympton-Wyoming T	71	0	16	55	0	22	
Point Edward V	25	0	3	22	0	6	
Sarnia C	910	2	168	740	2	230	
St. Clair TP	4	0	0	4	0	0	
Warwick TP	44	0	6	38	0	11	
Provincial Highway	210	3	39	168	3	62	
Other Areas	268	6	42	220	7	64	
Lambton Total	1,681	12	302	1,367	13	434	103,823
Lanark							
Beckwith TP	60	0	8	52	0	10	
Carleton Place T	80	0	7	73	0	8	
Lanark Highlands TP	114	2	19	93	2	26	
Mississippi Mills T	105	0	14	91	0	15	
Montague TP	40	0	9	31	0	11	
Perth T	161	1	34	126	1	50	
Smiths Falls ST	200	0	31	169	0	43	
Tay Valley TP	3	0	0	3	0	0	
Provincial Highway	165	2	25	138	2	34	
Other Areas	306	2	39	265	4	52	
Lanark Total	1,234	7	186	1,041	9	249	59,965

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

		Class of Collision			Persons		
Place of Collision	Total Collisions	Fatal	Personal Injury	Property Damage	Killed	Injured	Motor Vehicle Registrations*
Leeds & Grenville							
Athens TP	25	0	5	20	0	8	
Augusta TP	79	0	19	60	0	26	
Brockville C	371	0	73	298	0	99	
Edwardsburgh/Cardinal TP	65	1	16	48	1	20	
Elizabethtown-Kitley TP	121	1	21	99	1	29	
Front of Yonge TP	19	0	5	14	0	5	
Gananoque ST	68	0	6	62	0	6	
Leeds and the Thousand Islands TP	0	0	0	0	0	0	
Merrickville-Wolford V	26	1	5	20	1	6	
North Grenville M	233	1	27	205	1	42	
Prescott ST	77	0	11	66	0	14	
Rideau Lakes TP	99	0	17	82	0	26	
Provincial Highway	511	3	100	408	3	140	
Other Areas	222	2	28	192	2	37	
Leeds & Grenville Total	1,916	9	333	1,574	9	458	90,459
Lennox & Addington							
Addington Highlands TP	25	0	3	22	0	4	
Greater Napanee T	194	2	43	149	2	51	
Loyalist TP	124	1	23	100	1	31	
Stone Mills TP	76	0	12	64	0	12	
Provincial Highway	253	4	48	201	5	71	
Other Areas	29	0	5	24	0	6	
Lennox & Addington Total	701	7	134	560	8	175	33,356
Manitoulin							
Central Manitoulin M	12	0	1	11	0	1	
Provincial Highway	186	1	22	163	1	30	
Other Areas	117	0	23	94	0	35	
Manitoulin Total	315	1	46	268	1	66	15,138

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

		Class of Collision			Persons		
Place of Collision	Total Collisions	Fatal	Personal Injury	Property Damage	Killed	Injured	Motor Vehicle Registrations*
Middlesex							
Adelaide-Metcalf TP	71	0	14	57	0	24	
London C	6,886	8	1,467	5,411	10	2,103	
Lucan Biddulph TP	32	0	6	26	0	7	
Middlesex Centre M	261	2	70	189	2	110	
North Middlesex M	1	0	0	1	0	0	
Southwest Middlesex M	2	0	1	1	0	4	
Strathroy-Caradoc TP	208	0	57	151	0	72	
Provincial Highway	393	1	67	325	1	103	
Other Areas	522	7	107	408	7	159	
Middlesex Total	8,376	18	1,789	6,569	20	2,582	289,315
Muskoka							
Bracebridge T	235	1	27	207	1	35	
Georgian Bay TP	18	0	6	12	0	11	
Gravenhurst T	101	0	19	82	0	24	
Huntsville T	253	1	41	211	1	52	
Lake Of Bays TP	26	0	7	19	0	9	
Muskoka Lakes TP	89	1	14	74	1	23	
Provincial Highway	552	3	94	455	3	154	
Other Areas	91	1	18	72	1	24	
Muskoka Total	1,365	7	226	1,132	7	332	64,833
Niagara							
Fort Erie T	307	1	61	245	1	77	
Grimsby T	204	2	35	167	2	49	
Lincoln T	194	1	29	164	1	46	
Niagara Falls C	1,305	4	239	1,062	4	329	
Niagara-On-The-Lake T	170	0	43	127	0	71	
Pelham T	158	0	23	135	0	30	
Port Colborne C	169	1	30	138	1	43	
St. Catharines C	1,799	4	301	1,494	6	389	
Thorold C	202	1	33	168	1	47	

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

Place of Collision	Total Collisions	Class of Collision			Persons		Motor Vehicle Registrations*
		Fatal	Personal Injury	Property Damage	Killed	Injured	
Wainfleet TP	53	0	11	42	0	17	
Welland C	601	0	107	494	0	147	
West Lincoln TP	138	1	33	104	1	48	
Provincial Highway	943	6	218	719	6	332	
Other Areas	186	2	29	155	2	35	
Niagara Total	6,429	23	1,192	5,214	25	1,660	321,178
Nipissing							
Bonfield TP	12	1	2	9	1	2	
East Ferris TP	27	0	1	26	0	1	
Mattawa T	12	0	1	11	0	1	
North Bay C	763	0	139	624	0	173	
West Nipissing M	124	0	21	103	0	25	
Provincial Highway	722	8	154	560	10	229	
Other Areas	122	0	20	102	0	25	
Nipissing Total	1,782	9	338	1,435	11	456	80,966
Northumberland							
Alnwick-Haldimand TP	112	1	28	83	1	34	
Brighton M	117	0	32	85	0	39	
Cobourg T	247	0	48	199	0	64	
Cramahe TP	56	1	14	41	1	16	
Hamilton TP	82	0	23	59	0	33	
Port Hope M	164	1	34	129	1	46	
Trent Hills M	57	0	10	47	0	11	
Provincial Highway	324	0	65	259	0	83	
Other Areas	202	3	34	165	3	52	
Northumberland Total	1,361	6	288	1,067	6	378	74,328
Ottawa							
Ottawa C	14,073	22	2,763	11,288	25	3,682	
Provincial Highway	1,484	1	265	1,218	1	357	
Other Areas	0	0	0	0	0	0	
Ottawa Total	15,557	23	3,028	12,506	26	4,039	517,870

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

		Class of Collision			Persons		
Place of Collision	Total Collisions	Fatal	Personal Injury	Property Damage	Killed	Injured	Motor Vehicle Registrations*
Oxford							
East Zorra-Tavistock TP	26	1	5	20	1	9	
Ingersoll T	74	1	10	63	1	14	
Norwich TP	89	0	21	68	0	27	
Tillsonburg T	146	0	24	122	0	31	
Woodstock C	466	0	72	394	0	97	
Zorra TP	115	3	19	93	3	24	
Provincial Highway	328	0	63	265	0	92	
Other Areas	274	2	44	228	2	63	
Oxford Total	1,518	7	258	1,253	7	357	88,067
Parry Sound							
Magnetawan M	7	0	3	4	0	4	
McDougall M	19	0	4	15	0	6	
Nipissing TP	4	0	1	3	0	1	
Parry Sound T	159	0	34	125	0	47	
Perry TP	8	0	0	8	0	0	
Powassan M	20	0	4	16	0	7	
Provincial Highway	644	1	100	543	1	161	
Other Areas	124	1	19	104	1	24	
Parry Sound Total	985	2	165	818	2	250	56,133
Peel							
Brampton C	5,677	14	1,030	4,633	15	1,458	
Caledon T	1,042	6	165	871	6	247	
Mississauga C	7,502	11	1,331	6,160	11	1,827	
Provincial Highway	3,320	3	606	2,711	3	894	
Other Areas	303	0	27	276	0	34	
Peel Total	17,844	34	3,159	14,651	35	4,460	774,929
Perth							
North Perth M	179	1	31	147	1	43	
Perth East TP	116	0	30	86	0	44	
Perth South TP	67	0	15	52	0	29	

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

Place of Collision	Total Collisions	Class of Collision			Persons		Motor Vehicle Registrations*
		Fatal	Personal Injury	Property Damage	Killed	Injured	
St. Marys ST	50	0	8	42	0	8	
Stratford C	393	0	89	304	0	132	
West Perth M	94	1	14	79	1	22	
Provincial Highway	189	2	45	142	2	75	
Other Areas	68	1	14	53	1	24	
Perth Total	1,156	5	246	905	5	377	59,235
Peterborough							
Asphodel-Norwood TP	61	0	13	48	0	22	
Cavan-Monaghan TP	87	1	25	61	2	32	
Douro-Dummer TP	90	1	17	72	1	24	
Galway-Cavendish-Harvey TP	70	0	12	58	0	17	
Havelock-Belmont-Methuen TP	54	0	6	48	0	8	
North Kawartha TP	17	0	1	16	0	1	
Otonabee-South Monaghan TP	62	0	13	49	0	18	
Peterborough C	757	4	398	355	5	552	
Smith-Ennismore-Lakefield TP	200	0	55	145	0	77	
Provincial Highway	303	3	56	244	4	89	
Other Areas	41	0	6	35	0	8	
Peterborough Total	1,742	9	602	1,131	12	848	110,201
Prescott & Russell							
Alfred and Plantagenet TP	123	0	29	94	0	44	
Casselman V	36	1	8	27	1	17	
Clarence-Rockland C	231	0	52	179	0	87	
East Hawkesbury TP	38	1	15	22	1	19	
Hawkesbury T	188	0	27	161	0	38	
The Nation M	193	0	54	139	0	66	
Russell TP	81	0	24	57	0	33	
Provincial Highway	189	0	38	151	0	62	
Other Areas	166	3	30	133	3	40	
Prescott & Russell Total	1,245	5	277	963	5	406	86,752

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

		Class of Collision			Persons		
Place of Collision	Total Collisions	Fatal	Personal Injury	Property Damage	Killed	Injured	Motor Vehicle Registrations*
Prince Edward							
Provincial Highway	33	0	6	27	0	11	
Other Areas	348	2	53	293	2	80	
Prince Edward Total	381	2	59	320	2	91	23,905
Rainy River							
Atikokan T	16	0	2	14	0	2	
Fort Frances T	144	0	18	126	0	24	
Provincial Highway	245	0	33	212	0	48	
Other Areas	54	0	7	47	0	10	
Rainy River Total	459	0	60	399	0	84	23,467
Renfrew							
Admaston-Bromley TP	26	0	3	23	0	4	
Arnprior T	88	0	20	68	0	29	
Bonnechere Valley TP	2	0	0	2	0	0	
Brudenell, Lyndoch and Raglan TP	21	0	3	18	0	6	
Deep River T	25	0	6	19	0	8	
Greater Madawaska TP	1	0	0	1	0	0	
Horton TP	42	0	7	35	0	13	
Laurentian Hills T	27	0	7	20	0	8	
Laurentian Valley TP	102	1	30	71	1	46	
Madawaska Valley TP	1	0	0	1	0	0	
McNab-Braeside TP	71	0	14	57	0	25	
North Altona Wilberforce TP	47	0	7	40	0	7	
Pembroke C	256	2	51	203	3	78	
Petawawa T	118	1	20	97	1	30	
Renfrew T	184	2	29	153	2	39	
Whitewater Region TP	2	0	0	2	0	0	
Provincial Highway	526	6	91	429	9	163	
Other Areas	325	1	47	277	1	62	
Renfrew Total	1,864	13	335	1,516	17	518	99,821

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

		Class of Collision			Persons		
Place of Collision	Total Collisions	Fatal	Personal Injury	Property Damage	Killed	Injured	Motor Vehicle Registrations*
Simcoe							
Adjala-Tosorontio TP	140	1	30	109	1	40	
Barrie C	2,013	2	357	1,654	2	531	
Bradford West Gwillimbury T	418	0	57	361	0	72	
Clearview TP	322	3	48	271	4	65	
Collingwood T	281	0	42	239	0	54	
Essa TP	205	0	38	167	0	65	
Innisfil T	444	1	89	354	1	115	
Midland T	235	0	49	186	0	68	
New Tecumseth T	319	3	60	256	4	95	
Orillia C	467	0	97	370	0	135	
Oro-Medonte TP	100	0	22	78	0	26	
Penetanguishene T	68	0	7	61	0	9	
Ramara TP	79	0	18	61	0	29	
Severn TP	126	0	18	108	0	20	
Tay TP	84	1	15	68	1	17	
Tiny TP	113	1	26	86	2	36	
Wasaga Beach T	199	2	34	163	2	52	
Provincial Highway	1,613	10	312	1,291	10	460	
Other Areas	484	0	91	393	0	131	
Simcoe Total	7,710	24	1,410	6,276	27	2,020	361,720
Stormont, Dundas & Glengarry							
Cornwall C	888	1	168	719	1	243	
North Dundas TP	8	0	1	7	0	1	
North Glengarry TP	140	0	30	110	0	37	
North Stormont TP	53	0	11	42	0	15	
South Dundas TP	7	0	0	7	0	0	
South Glengarry TP	103	1	21	81	1	30	
South Stormont TP	92	1	12	79	2	16	
Provincial Highway	359	1	79	279	1	115	
Other Areas	164	2	25	137	3	33	
Stormont, Dundas & Glengarry Total	1,814	6	347	1,461	8	490	94,604

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

		Class of Collision			Persons		
Place of Collision	Total Collisions	Fatal	Personal Injury	Property Damage	Killed	Injured	Motor Vehicle Registrations*
Sudbury							
Chapleau TP	9	0	1	8	0	1	
Espanola T	42	0	8	34	0	8	
French River M	8	0	0	8	0	0	
Greater Sudbury C	2,681	7	469	2,205	9	656	
Markstay-Warren M	11	0	2	9	0	2	
Provincial Highway	652	9	178	465	10	270	
Other Areas	197	0	50	147	0	62	
Sudbury Total	3,600	16	708	2,876	19	999	187,365
Thunder Bay							
Greenstone M	6	0	0	6	0	0	
Manitouwadge TP	9	1	0	8	1	3	
Marathon T	14	0	1	13	0	1	
Neebing M	15	0	1	14	0	1	
Nipigon TP	8	0	0	8	0	0	
Oliver Paipoonge M	35	0	8	27	0	8	
Shuniah M	22	1	1	20	1	2	
Terrace Bay TP	3	0	1	2	0	1	
Thunder Bay C	2,104	3	363	1,738	3	490	
Provincial Highway	864	5	144	715	5	217	
Other Areas	101	0	19	82	0	31	
Thunder Bay Total	3,181	10	538	2,633	10	754	140,508
Timiskaming							
Englehart T	10	0	4	6	0	6	
Kirkland Lake T	99	0	13	86	0	13	
Temiskaming Shores C	130	0	24	106	0	35	
Provincial Highway	310	5	71	234	6	111	
Other Areas	90	1	19	70	1	30	
Timiskaming Total	639	6	131	502	7	195	38,055

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

		Class of Collision			Persons		
Place of Collision	Total Collisions	Fatal	Personal Injury	Property Damage	Killed	Injured	Motor Vehicle Registrations*
Toronto							
Toronto C	45,310	45	11,077	34,188	48	16,070	
Provincial Highway	7,652	5	1,424	6,223	5	2,084	
Other Areas	0	0	0	0	0	0	
Toronto Total	52,962	50	12,501	40,411	53	18,154	1,146,014
Waterloo							
Cambridge C	1,914	2	440	1,472	2	617	
Kitchener C	3,256	2	636	2,618	2	846	
North Dumfries TP	158	1	39	118	1	55	
Waterloo C	1,811	3	315	1,493	3	407	
Wellesley TP	52	0	11	41	0	15	
Wilmot TP	209	1	53	155	1	72	
Woolwich TP	349	3	91	255	3	145	
Provincial Highway	942	4	207	731	4	296	
Other Areas	77	2	17	58	2	30	
Waterloo Total	8,768	18	1,809	6,941	18	2,483	344,110
Wellington							
Centre Wellington TP	290	0	45	245	0	57	
Erin T	146	3	21	122	3	42	
Guelph C	1,143	3	413	727	3	577	
Guelph/Eramosa TP	177	0	28	149	0	37	
Mapleton TP	175	0	39	136	0	48	
Minto T	98	1	16	81	1	24	
Puslinch TP	157	2	27	128	2	43	
Wellington North TP	119	1	23	95	1	36	
Provincial Highway	648	3	128	517	3	215	
Other Areas	115	0	11	104	0	14	
Wellington Total	3,068	13	751	2,304	13	1,093	155,986

Table 4.1: Place of Collision – Class of Collision, Persons Killed, Injured and Motor Vehicle Registrations, 2009 (continued)

Place of Collision	Total Collisions	Class of Collision			Persons		Motor Vehicle Registrations*
		Fatal	Personal Injury	Property Damage	Killed	Injured	
York							
Aurora T	445	0	80	365	0	110	
East Gwillimbury T	382	1	96	285	1	131	
Georgina T	333	0	51	282	0	64	
King TP	353	0	76	277	0	106	
Markham T	3,578	2	639	2,937	2	911	
Newmarket T	758	1	143	614	1	189	
Richmond Hill T	2,457	2	364	2,091	2	479	
Vaughan C	4,501	10	736	3,755	10	1,013	
Whitchurch Stouffville T	236	0	55	181	0	71	
Provincial Highway	1,756	3	316	1,437	3	481	
Other Areas	149	0	4	145	0	5	
York Total	14,948	19	2,560	12,369	19	3,560	693,567

* This number does not match the vehicle population in Table 5.5; it does not include 11,952 registered vehicles that are not associated with a county or region in Ontario.

Legend:

C = City
 T = Town
 TP = Township
 M = Municipality
 ST = Separated Town
 V = Village

Other Areas:

Includes jurisdictions with less than 1,500 population and/or experienced amalgamations/annexation, or name change after 1992.

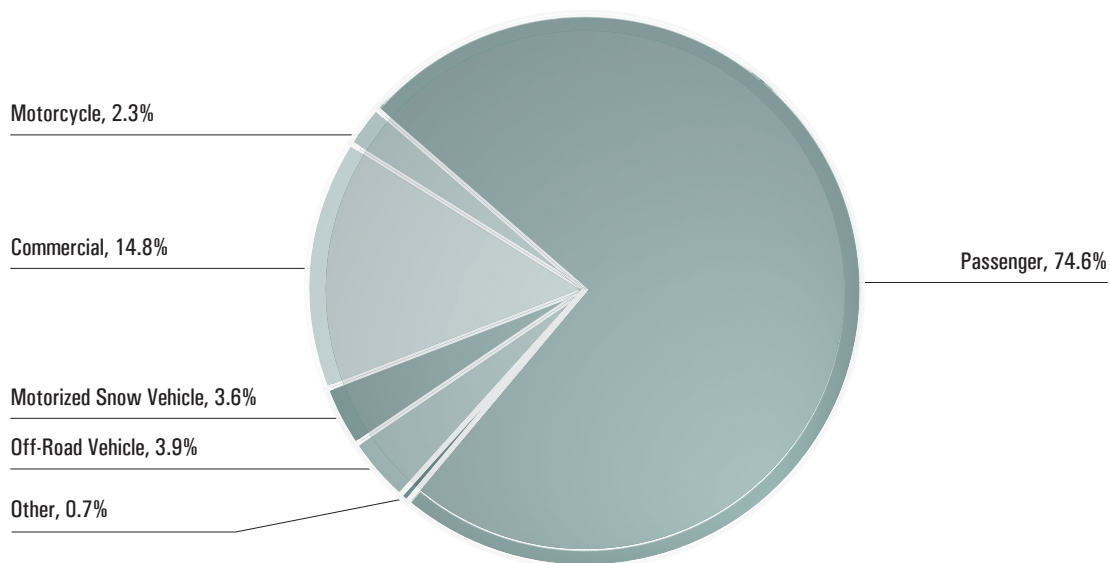
Table 4.1 is not comparable to previous years.

THE VEHICLE



This section examines vehicles involved in motor vehicle collisions in Ontario. In 2009, passenger vehicles made up nearly 75 per cent of the vehicle population in Ontario; however, they also represented nearly 72 per cent of all vehicles involved in collisions. Only about 1.3 per cent of all motor vehicles involved in collisions had apparent mechanical defects.

Figure 5 Vehicle Population by Vehicle Class in Ontario, 2009



5A. VEHICLES IN COLLISIONS

Table 5.1: Vehicles Involved in Collisions by Class of Collision, 2009

Type of Vehicle	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Passenger Car	465	59,669	227,965	288,099
Passenger Van	66	7,392	25,904	33,362
Motorcycle & Moped	44	1,651	898	2,593
Pick-up Truck	108	6,068	26,605	32,781
Delivery Van	15	846	3,755	4,616
Tow Truck	1	112	431	544
Truck	99	2,153	11,097	13,349
Bus	7	845	2,527	3,379
School Vehicle	5	182	1,094	1,281
Off-Road Vehicle	3	38	82	123
Snowmobile	4	28	50	82
Snow Plow	1	13	136	150
Emergency Vehicle	2	389	1,540	1,931
Farm Vehicle	4	50	157	211
Construction Equipment	0	33	219	252
Motor Home	1	17	88	106
Railway Train	1	16	21	38
Street Car	2	97	346	445
Bicycle	13	2,536	583	3,132
Other	0	3	3	6
Other Non-Motor Vehicle	1	88	617	706
Unknown	1	575	13,418	13,994
Total	843	82,801	317,536	401,180

Table 5.2: Condition of Vehicle by Class of Collision, 2009

Condition of Vehicle	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
No Apparent Defect	797	79,545	282,681	363,023
Service Brakes Defective	0	42	158	200
Steering Defective	0	12	35	47
Tire Puncture or Blow Out	0	30	114	144
Tire Tread Insufficient	1	3	36	40
Headlamps Defective	0	2	19	21
Other Lamps or Reflectors Defective	0	6	15	21
Engine Controls Defective	0	6	28	34
Wheels or Suspension Defective	0	6	48	54
Vision Obscured	0	4	42	46
Trailer Hitch Defective	0	2	7	9
Other Defects	12	375	4,631	5,018
Unknown	33	2,768	29,722	32,523
Total	843	82,801	317,536	401,180

Table 5.3: Model Year of Vehicle by Class of Collision, 2009

Model Year of Vehicle	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
2010	4	500	2,225	2,729
2009	31	3,808	16,269	20,108
2008	53	5,683	24,100	29,836
2007	68	6,138	25,780	31,986
2006	54	5,795	23,644	29,493
2005	54	5,911	23,513	29,478
2004	62	5,568	21,983	27,613
2003	54	6,171	23,466	29,691
2002	78	5,679	21,771	27,528
2001	46	5,098	18,786	23,930
2000 and earlier	317	27,357	93,241	120,915
Unknown	22	5,093	22,758	27,873
Total	843	82,801	317,536	401,180

Table 5.4: Insurance Status of Vehicle by Class of Collision, 2009

Insurance	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Insured	764	77,771	298,360	376,895
Not Insured	26	1,150	1,382	2,558
Unknown	53	3,880	17,794	21,727
Total	843	82,801	317,536	401,180

5B. PUTTING THE VEHICLE IN CONTEXT**Table 5.5: Vehicle Population by Type of Vehicle, 2009**

Vehicle Class	Vehicle Population
Passenger	6,488,233
Motorcycle	200,810
Moped	1,471
Commercial*	1,245,138
Bus	23,469
School Bus	8,821
Motorized Snow Vehicle	316,562
Off-Road Vehicle	341,811
Road Building Machinery	438
Permanent Apparatus	2,722
Farm Trucks	64,570
Total	8,694,045

* Excludes vehicles registered under the PRORATE-P program (60,426 vehicles)

Table 5.6: Selected Types of Vehicles by Model Year, 2009

Vehicle Class	Model Year										Total
	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000 and earlier
Passenger	159,108	423,390	489,943	511,095	470,168	485,861	424,718	505,526	480,345	405,584	2,132,495
Motorcycle	471	10,526	16,709	16,998	16,087	13,884	12,166	14,591	11,215	10,397	77,766
Moped	0	8	7	20	97	294	78	37	67	223	640
Commercial*	24,442	70,871	91,841	95,756	88,050	87,182	84,889	89,489	75,249	69,594	535,505
Bus	780	2,735	2,229	2,100	2,901	2,269	2,793	2,152	1,758	2,108	10,465
Motorized Snow Vehicle	3,470	6,959	6,251	8,549	9,287	8,686	8,938	9,171	10,053	7,093	238,105
Off-Road Vehicle	997	12,169	20,993	26,035	23,480	23,575	25,164	20,429	16,396	18,766	153,807
Total	189,268	526,658	627,973	660,553	610,070	621,751	558,746	641,395	595,083	513,765	3,148,783

* Excludes vehicles registered under the PRORATE-P program (60,426 vehicles)

Table 5.7: Vehicle Damage Level by Class of Collision, 2009

Damage	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
None	45	7,865	19,267	27,177
Light	92	22,578	139,073	161,743
Moderate	91	21,994	91,607	113,692
Severe	156	17,390	27,562	45,108
Demolished	432	8,502	5,593	14,527
Unknown	27	4,472	34,434	38,933
Total	843	82,801	317,536	401,180

Vehicle Damage

None: No visible damage.

Light: Slight or superficial damage. Includes scratches, small dents, minor cracks in glass that do not affect safety or performance of vehicle.

Moderate: Unsafe conditions result from damage. Vehicle must be repaired to make its condition meet requirements of law. Vehicle can be driven off road or limited distance but doing so would be unsafe.

Severe: Vehicle cannot be driven. Requires towing. Would normally be repaired.

Demolished: Vehicle damaged to the extent that repairs would not be feasible.

SPECIAL VEHICLES



This section examines vehicles of special interest, including motorcycles, school buses, large trucks, snowmobiles, off-road vehicles and bicycles.

The ministry is continuously monitoring the safety of special vehicle types as many fatalities and injuries result from collisions that occur off road and involve off-road-vehicles and snowmobiles. Safety of some other vehicle types such as bicyclists, motorcyclists, school buses or large trucks is always in the centre of public scrutiny.

6A. MOTORCYCLES

Table 6.1: Motorcyclists* Killed and Injured, 2000–2009

Year	Drivers		Passengers	
	Killed	Injured	Killed	Injured
2000	37	1,161	1	257
2001	49	1,166	3	318
2002	35	1,161	3	311
2003	46	1,087	6	268
2004	44	1,107	3	297
2005	68	1,206	6	362
2006	48	1,219	5	352
2007	48	1,274	4	399
2008	50	1,199	3	366
2009	38	1,236	1	425

* Excludes hangers on, moped drivers and passengers.

Table 6.2: Selected Factors Relevant to Fatal Motorcycle Collisions, 2009

Factors (not mutually exclusive)	%
Unlicensed Motorcycle Drivers	13.3
Under 25 Years Old	17.8
Alcohol Used	
Ability Impaired Alcohol > 0.08	13.3
Had Been Drinking	4.0
Unknown	4.0
Helmet Not Worn (Fatalities)	6.0
Motorcycle Driver Error	
Speed Too Fast/Lost Control	48.9
Other Error	15.6
Single Vehicle Collisions	47.6
Day/Night	67/33
Weekend	38.1

6B. SCHOOL VEHICLES**Table 6.3: Pupils Transported Daily, Total Number of School Vehicles Involved in Collisions – School Years 2004/2005–2008/2009**

School Year	Pupils Transported Daily	Number of School Vehicles in Collisions
2004/2005*	N/A	1,186
2005/2006	847,205	1,101
2006/2007	838,326	1,186
2007/2008	787,580	1,306
2008/2009	817,888	1,292

* Data from Ministry of Education not available.

Table 6.4: School Vehicle Type by Nature of Collision, School Year 2008/2009

School Vehicle Type	Nature of Collision				Total Number of Collisions	
	Fatal	Pupil Injury	Non-Pupil Injury	Property Damage		Five Year Total (2004/2005 – 2008/2009)
School Bus	7	48	119	1,019	1,193	5,656
School Van	0	2	9	45	56	223
Other School Vehicles	0	2	5	36	43	192
Total	7	52	133	1,100	1,292	6,071

Table 6.5: Pupil Injury by Collision Event and Vehicle Type, 2008/2009 (Number of Persons)

	Collision Event									
School Vehicle Type	Crossing Road		Within School Vehicle		Other		Total		Five Year Total (2004/2005 – 2008/2009)	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
School Bus	0	1	0	96	0	5	0	102	2	650
School Van	0	0	0	2	0	0	0	2	0	23
Other School Vehicles	0	0	0	2	0	0	0	2	0	6
Total	0	1	0	100	0	5	0	106	2	679

6C. LARGE TRUCKS

Table 6.6: Number of Persons Killed in Collisions Involving Large Trucks, 2005–2009

Year	Persons Killed in Truck Collisions			
	Where Truck Driver Not Driving Properly	% Where Truck Driver Not Driving Properly	All Truck Collisions	% of Total Deaths
2005	34	27.2	125	16.3
2006	47	32.9	143	18.6
2007	56	32.9	170	22.2
2008	47	36.2	130	20.6
2009	27	27.3	99	17.6
Total	211	31.3	667	19.1

Table 6.7: Number of Large Trucks in All Classes of Collisions, 2009

Truck Types	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Straight Truck	33	963	5,177	6,173
Straight Truck & Trailer	3	102	427	532
Tractor Only	22	313	2,260	2,595
Tractor & Semi-Trailer	30	741	2,859	3,630
"A-C" Train Double	1	12	56	69
"B" Train Double	2	20	77	99
Other/Unknown	9	114	672	795
Total	100	2,265	11,528	13,893

Table 6.8: Registered Trucks, 2009

Driver Licence Required	Registered Trucks
G	1,118,156
D	72,824
A*	180,314**
Total	1,373,294

* Tractor/trailer combination only.

** Includes vehicles registered under the PRORATE-P program (60,426 vehicles).

Table 6.9: Selected Factors Relevant to Fatal Large Truck Collisions, 2009

Factors in Fatal Collisions	%
Drivers	
Alcohol Involved	1
Driving Properly	67
Collisions	
Single Vehicle	31
Weather Condition – Clear	71
Daylight	62
Vehicles	
Vehicle Defect Present*	0

* Excludes unknown category.

6D. OFF-ROAD VEHICLES

Table 6.10: Drivers of Off-Road Vehicles Killed and Injured by Collision Location*, 2005–2009

Location	Killed					Injured				
	2005	2006	2007	2008	2009	2005	2006	2007	2008	2009
On-Highway	9	11	16	10	15	114	131	141	136	142
Off-Highway	11	8	8	7	7	109	119	117	105	130
Total	20	19	24	17	22	223	250	258	241	272

* Beginning with the 2004 ORSAR edition, the ORV statistics include casualties of all "on-highway" and "off-highway" collisions, and not only HTA reportable collisions. As a result, provided statistics are not comparable with the statistics provided in earlier editions of ORSAR.

Table 6.11a: Passengers of Off-Road Vehicles Killed and Injured, by Collision Location*, 2005 – 2009

Location	Killed					Injured				
	2005	2006	2007	2008	2009	2005	2006	2007	2008	2009
On-Highway	0	0	1	3	1	51	91	89	91	101
Off-Highway	0	0	3	0	1	51	54	54	66	79
Total	0	0	4	3	2	102	145	143	157	180

* Beginning with the 2004 ORSAR edition, the ORV statistics include casualties of all "on-highway" and "off-highway" collisions, and not only HTA reportable collisions. As a result, provided statistics are not comparable with the statistics provided in earlier editions of ORSAR.

Table 6.11b: Pedestrians Killed and Injured by Off-Road Vehicles, by Collision Location*, 2005 – 2009

Location	Killed					Injured				
	2005	2006	2007	2008	2009	2005	2006	2007	2008	2009
On-Highway	0	0	0	0	0	8	5	1	4	5
Off-Highway	0	0	0	0	0	2	6	3	2	3
Total	0	0	0	0	0	10	11	4	6	8

* Beginning with the 2004 ORSAR edition, the ORV statistics include casualties of all "on-highway" and "off-highway" collisions, and not only HTA reportable collisions. As a result, provided statistics are not comparable with the statistics provided in earlier editions of ORSAR.

Table 6.12: Registered Off-Road Vehicles, 2005–2009

Year	Vehicles Registered
2005	254,653
2006	276,800
2007	299,849
2008	324,099
2009	341,811

Table 6.13: Selected Factors Relevant to All Off-Road Vehicle Collisions, 2009

Factors	%
Drivers Under 25 Years of Age	37
Alcohol Used	18
Speeding	18
Helmet Not Worn	38
Daytime	80
Two-Wheeled	19
Three-Wheeled	5
Four-Wheeled	76

6E. MOTORIZED SNOW VEHICLES

Table 6.14: Drivers of Motorized Snow Vehicles* Killed and Injured by Collision Location – Riding Seasons 2004/2005–2008/2009

Location	Killed					Injured				
	04/05	05/06	06/07	07/08	08/09	04/05	05/06	06/07	07/08	08/09
On-Highway	7	6	4	4	7	55	48	46	56	51
Off-Highway	16	22	10	17	17	178	119	100	140	98
Total	23	28	14	21	24	233	167	146	196	149

* Beginning with the 2004 ORSAR edition, the MSV statistics include casualties of all "on-highway" and "off-highway" collisions, and not only HTA reportable collisions. As a result, provided statistics are not comparable with the statistics provided in earlier editions of ORSAR.

Table 6.15a: Passengers of Motorized Snow Vehicles* Killed and Injured by Collision Location – Riding Seasons 2004/2005–2008/2009

Location	Killed					Injured				
	04/05	05/06	06/07	07/08	08/09	04/05	05/06	06/07	07/08	08/09
On-Highway	0	0	0	1	1	33	27	12	24	26
Off-Highway	0	2	1	2	2	79	61	42	66	52
Total	0	2	1	3	3	112	88	54	91	78

* Beginning with the 2004 ORSAR edition, the MSV statistics include casualties of all "on-highway" and "off-highway" collisions, and not only HTA reportable collisions. As a result, provided statistics are not comparable with the statistics provided in earlier editions of ORSAR.

Table 6.15b: Pedestrians Killed and Injured by Motorized Snow Vehicles* by Collision Location – Riding Seasons 2004/2005–2008/2009

Location	Killed					Injured				
	04/05	05/06	06/07	07/08	08/09	04/05	05/06	06/07	07/08	08/09
On-Highway	0	0	0	0	0	0	2	1	5	7
Off-Highway	2	0	2	0	0	8	7	1	3	3
Total	2	0	2	0	0	8	9	2	8	10

* Beginning with the 2004 ORSAR edition, the MSV statistics include casualties of all "on-highway" and "off-highway" collisions, and not only HTA reportable collisions. As a result, provided statistics are not comparable with the statistics provided in earlier editions of ORSAR.

Table 6.16: Registered Motorized Snow Vehicles, 2005–2009

Year	Registered Motorized Snow Vehicles
2005	317,254
2006	306,479
2007	310,798
2008	315,735
2009	316,562

Table 6.17: Selected Factors Relevant to All Motorized Snow Vehicle Collisions, Riding Season 2008/2009

Factors	%
Unlicensed Operators	8
Rider Error; Speed too Fast	31
Alcohol Used	23
Surface Condition; Icy or Packed Snow	64

6F. BICYCLES

Note: The following three tables consider bicycles involved in HTA reportable* collisions only.

Table 6.18: Bicyclists* Killed and Injured, 2005–2009

Year	Drivers		Passengers	
	Killed	Injured	Killed	Injured
2005	21	2,449	0	361
2006	32	2,091	0	401
2007	19	2,126	1	394
2008	12	2,015	0	338
2009	13	1,947	0	443

* Includes hangers on

Table 6.19: Age of Bicyclists Involved in Collisions by Light Condition, 2009

Light Condition	Age Groups						Total
	0–5	6–15	16–30	31–60	61+	UK*	
Daylight	1	16	240	285	53	1,472	2,067
Dawn	0	0	5	5	0	16	26
Dusk	0	0	8	10	3	57	78
Dark	0	1	53	57	4	259	374
Other	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0
Total	1	17	306	357	60	1,804	2,545

* UK = Unknown

Table 6.20: Selected Factors Relevant to All Bicycle Collisions, 2009

Factors	%
Driving Properly (Bicyclist)	44
Driving Properly (Motor Vehicle Driver)	50
Intersection Related	68
Going Ahead (Bicyclist)	87
Alcohol Related (Bicyclist)	3
No Apparent Vehicle Defect (Bicycle)	98
Clear Visibility	91
Weekend	19

* Involves at least one motor vehicle

CONVICTION, OFFENCE AND SUSPENSION DATA

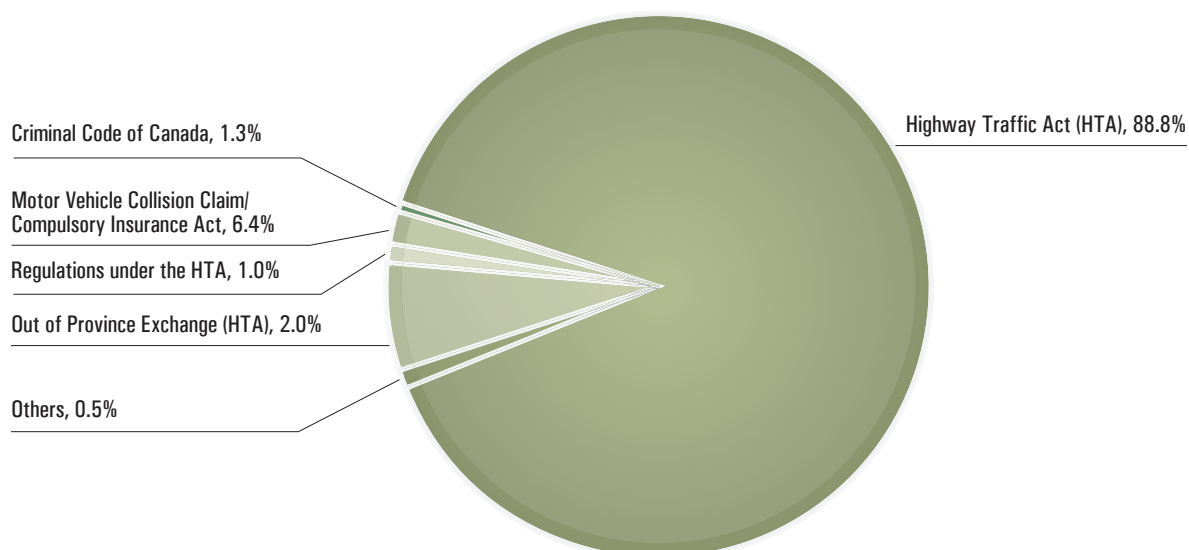


This section presents conviction, offence and suspension data related to motor vehicle use in Ontario. Convictions are summarized by legislation and conviction type.

In 2009, nearly 90 per cent of motor vehicle convictions were related to Highway Traffic Act (HTA) offences and less than 1.4 per cent were related to the Criminal Code of Canada (e.g., drinking and driving, dangerous driving, fail to remain).

In the last several years, the number of Administrative Drivers Licence Suspensions (ADLS) suspensions for impaired driving has leveled off at 17,000 occurrences annually.

Figure 7 Motor Vehicle Convictions in Ontario by Type, 2009



7A. CONVICTION DATA

Table 7.1: Summary of Motor Vehicle Related Convictions, 2009

Convictions*	Number
Highway Traffic Act (HTA)	1,270,359
Regulations under the HTA	14,303
Criminal Code of Canada**	18,926
Municipal By-Law***	5
Motor Vehicle Collision Claim/Compulsory Insurance Act	91,176
Motorized Snow Vehicles Act	2,054
Off-Road Vehicles Act	1,799
Out of Province Exchange (HTA)	29,315
Others****	2,146
Total	1,430,083

* Includes manually recorded convictions.

** This figure does not include 552 convictions for young offenders under the Criminal Code.

*** In previous years a large portion of convictions under HTA Regulations were allocated to convictions under Municipal By-Law.

**** Others may include Acts not listed above, such as Motor Vehicle Safety Act.

Table 7.2: Motor Vehicle Convictions Related to the Highway Traffic Act, 2009

Convictions	Number
Equipment	24,542
Administrative*	194,759
Seat Belt (Driver & Passenger)**	45,312
Other Non-Pointable Convictions ***	90,230
Speeding	753,715
Other Pointable Convictions (2 - 4 pts)	134,423
Other Pointable Convictions (5 - 7 pts)	13,388
Driving While Suspended	13,990
Total	1,270,359

* Non-moving, weight, vehicle registration, licence renewal, etc.

** Failure to wear seat belt convictions registered against passengers over 16 are no longer included.

*** Now includes some out-of-province convictions.

Table 7.3: Motor Vehicle Convictions Related to the Criminal Code, 2009*

Convictions	Number
Alcohol Related**	14,722
Criminal Negligence	7
Fail to Remain at Collision	488
Fail to Stop for Police Officer	449
Driving While Disqualified	1,960
Dangerous Driving	1,299
Motor Manslaughter	1
Total	18,926

* Does not include 552 convictions for young offenders.

** Includes some out-of-province convictions.

7B. OFFENCE DATA

Table 7.4: Number of Driver Convictions for Criminal Code of Canada Offences, 2000–2009

Conviction Type	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Criminal Negligence	20	31	26	23	13	18	13	18	4	0
Fail to Remain	656	626	624	579	566	501	523	529	468	238
Dangerous Driving	1,073	1,161	1,107	1,165	1,124	1,275	1,344	1,257	1,194	676
Impaired Driving	9,264	8,878	8,200	7,357	6,678	6,557	6,590	6,695	6,426	4,155
Blood/Alcohol over 0.08	7,169	7,205	6,488	5,674	5,381	5,263	4,972	5,271	5,338	3,659
Fail to Provide Breath Sample	1,313	1,372	1,227	1,163	1,057	1,005	1,029	1,028	920	513
Driving While Disqualified	2,005	1,825	1,783	1,819	1,806	1,805	1,839	1,811	1,824	1,301
Motor Manslaughter	0	0	0	0	0	1	1	3	2	0
Undefined	0	214	423	477	425	444	504	466	481	278
Total	21,500	21,312	19,878	18,257	17,050	16,869	16,815	17,078	16,657	10,820

*The same driver may be represented in this table more than once.

Table 7.5: Administrative Driver Licence Suspensions, Monthly Suspensions Issued, 2000–2009

Suspensions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
January	1,550	1,500	1,416	1,349	1,203	1,330	1,228	1,210	1,183	1,368
February	1,487	1,450	1,452	1,391	1,501	1,330	1,197	1,206	1,259	1,401
March	1,662	1,874	1,683	1,566	1,400	1,424	1,317	1,410	1,438	1,502
April	1,799	1,816	1,574	1,412	1,494	1,393	1,340	1,375	1,297	1,391
May	1,634	1,752	1,756	1,578	1,528	1,468	1,247	1,430	1,472	1,533
June	1,646	1,768	1,811	1,608	1,391	1,366	1,307	1,456	1,547	1,373
July	1,854	1,795	1,712	1,589	1,483	1,531	1,452	1,480	1,533	1,489
August	1,808	1,699	1,675	1,639	1,476	1,317	1,399	1,455	1,686	1,482
September	1,699	1,837	1,720	1,498	1,385	1,386	1,396	1,517	1,536	1,458
October	1,724	1,691	1,671	1,568	1,555	1,450	1,487	1,444	1,673	1,412
November	1,624	1,790	1,668	1,591	1,377	1,315	1,412	1,392	1,556	1,656
December	1,879	1,986	1,792	1,578	1,468	1,645	1,709	1,533	1,463	1,374
Total	20,366	20,958	19,930	18,367	17,261	16,955	16,491	16,908	17,643	17,439

7C. SUSPENSION DATA**Table 7.6: Demerit Point Suspensions by Driver Age, 2009**

Driver Age	Demerit Point Suspensions			
	Novice First Accumulation	Novice Second Accumulation	Regular First Accumulation	Regular Second Accumulation
16	0	0	0	0
17	17	0	0	0
18	167	2	4	0
19	317	11	11	0
20-24	1,258	147	304	21
25-34	648	69	568	41
35-44	165	27	280	24
45-54	79	7	171	16
55-64	21	1	63	3
65-74	4	2	12	0
75 +	0	0	1	0
Total	2,676	266	1,414	105

8. APPENDIX

8A. GLOSSARY

Ability Impaired Alcohol:

Driver had consumed sufficient amount of alcohol to warrant being charged with a drinking and driving offence.

Ability Impaired – Alcohol over 0.08:

Ability Impaired, Alcohol: Driver had consumed alcohol and upon testing was found to have a blood-alcohol level in excess of 80 milligrams per 100 millilitres of blood.

Administrative Driver's Licence Suspension (ADLS):

This program, designed to reduce drinking and driving, started November 29, 1996. Under this program, provincial law permits the immediate suspension of a driver's licence for 90 days upon evidence gathered by a police officer that the driver (a) was shown to have a concentration of alcohol in excess of 80 milligrams per 100 millilitres of blood or (b) the driver failed or refused to provide a breath or blood sample.

Alcohol Involved:

This category includes drivers reported as "Had Been Drinking", with "BAC > 0.08 mg/100mL" or with "Ability Impaired by Alcohol".

Class G1 Driver's Licence:

A holder of a Class G1 driver's licence:

- must have a zero blood alcohol concentration while driving;
- must have an accompanying driver who is a fully licensed driver (Class A, B, C, D, E, F or G) with at least four years driving experience and has a blood alcohol concentration less than 0.05;
- the accompanying driver must be the only passenger in the front seat with the G1 driver;
- unless accompanied by a licensed driving instructor, must not drive on Ontario's "400-series" highways or on high speed expressways such as the Queen Elizabeth Way, the Don Valley Parkway, E.C. Row Expressway and the Conestoga Parkway;
- must ensure the number of passengers in the vehicle is limited to the number of working seat belts;
- must not drive between the hours of midnight and 5 a.m.;
- may drive a Class G vehicle only.

The G1 licence period lasts at minimum 12 months. It can be reduced to eight months by successfully completing an approved driver education course. For information about approved courses, call ServiceOntario at 1-800-268-4686. At the end of the G1 licence period, drivers must pass a road test before proceeding to the G2 licence period.

Class G2 Driver's Licence:

A holder of a Class G2 driver's licence:

- must have a zero blood alcohol concentration while driving;
- is allowed to drive any motor vehicle that requires a Class G driver's licence on the road;
- must ensure the number of passengers in the vehicle is limited to the number of working seat belts;
- for the first six months, G2 drivers aged 19 and under cannot carry more than one passenger aged 19 and under between midnight and 5 a.m.
- after the first six months, G2 drivers aged 19 and under cannot carry more than three passengers aged 19 and under between midnight and 5 a.m.*

The G2 licence period lasts at minimum 12 months. After completing, drivers are eligible to take a comprehensive test to qualify for full licence privileges.

Class M1 Motorcycle Driver's Licence:

A holder of a Class M1 motorcycle driver's licence:

- is allowed to operate motorcycle, limited-speed motorcycle (motor scooter) or motor-assisted bicycle (moped) for the purposes of training;
- must have a zero blood alcohol content while driving;
- is only allowed to drive during daylight hours (one-half hour before sunrise to one-half hour after sunset);
- must not ride on highways with speed limits of more than 80 km/h except highways 11, 17, 61, 69, 71, 101, 102, 144, 655;
- must not carry passengers.

The M1 licence period lasts at least 60 days, and the licence is valid for 90 days. M1 drivers must pass the M1 road test before proceeding to the M2 licence period. Alternatively, during the M1 period, they may take an approved motorcycle or motor scooter safety course that includes a road test, instead of the ministry road test.

Class M2 Motorcycle Driver's Licence:

A holder of a Class M2 motorcycle driver's licence:

- must have a zero blood alcohol concentration while driving.

After completing the M2 licence period, drivers will be eligible to take a comprehensive test to qualify for full licence privileges.

Class M2/M with L Condition:

A Class M2 or M with L Condition is a motorcycle licence that restricts the licence holder to operating mopeds or limited-speed motorcycles.

Conviction:

Registered when a person pleads guilty to, or is found guilty of, an offence related to a motor vehicle under any Act of the Ontario Legislature or its accompanying regulations, under the Parliament of Canada or any accompanying order, or under any municipal by-law.

Driver:

Unless specified otherwise, any person, whether licensed or not, considered to be in care and control of a vehicle at the time of a collision.

Fatal Collision:

A motor vehicle collision in which at least one person sustains bodily injuries resulting in death. Prior to January 1, 1982, fatal collision statistics included deaths attributed to injuries sustained in the collision, for up to one year after the collision. Since that date, only deaths occurring within 30 days of the collision have been included.

Had Been Drinking:

Driving after having consumed an amount of alcohol not considered sufficient to be legally impaired or with a measured blood alcohol count of greater than zero but less than 80 milligrams per 100 millilitres of blood. As of May 1, 2009, a blood alcohol concentration from 0.05 to 0.08 results in a 3, 7, or 30-day roadside driver's licence suspension for first, second, or third-time occurrences, respectively. Immediately prior to that date, a blood alcohol concentration from 0.05 to 0.08 resulted in a 12-hour suspension.

Hanger-on:

Hangers-on are persons hanging onto a moving motor vehicle's fenders, bumpers, doors or other parts of the vehicle and not located inside, for example, riding in back of pick-up.

Highway:

A common and public highway, street, avenue etc., any part of which is intended for public use or used by the general public for the passage of vehicles and including the area between the property lines.

Kilometres Travelled:

Prior to 2000, vehicle fleet mileage was estimated on the basis of taxed gasoline and motor fuel sales. Starting in 2000, vehicle kilometres travelled are based on estimates provided by Statistics Canada and Transport Canada.

Limited-Speed Motorcycle (Motor Scooter):

A limited-speed motorcycle is also known as a "motor scooter."

Motor scooters can be either electric or gas powered with a "step through" design and have a maximum speed of 70 km/h. Most motor scooters have automatic transmissions, with a maximum engine displacement of 50 cubic centimeters.

Major Injury:

A non-fatal injury severe enough to require that the injured person be admitted to hospital, even if for observation only.

Minimal Injury:

A non-fatal injury, including minor abrasions and bruises, which does not necessitate the injured person going to a hospital.

Minor Injury:

A non-fatal injury requiring medical treatment at a hospital emergency room, but not requiring hospitalization of the involved person.

Motor-Assisted Bicycle (Moped):

A motor-assisted bicycle is also known as a “moped”. Mopeds have pedals that can be operated at all times. Mopeds can be either electric or piston powered and have a maximum speed of 50 km/h.

Mopeds have a piston displacement of not more than 50 cubic centimetres.

Motor Vehicle Collision:

Any incident in which bodily injury or damage to property is sustained as a result of the movement of a motor vehicle, or of its load while a motor vehicle is in motion.

Off-Highway Collisions:

A collision that occurs off a public highway. It can include collisions located on or adjacent to trails and paths, on the surface of a frozen lake or river, or in a private parking lot.

On-Highway Collisions:

A motor vehicle collision which occurs on the highway between the property lines.

Pedestrian:

Any person not riding in or on a vehicle involved in a motor vehicle collision.

Personal Injury Collision:

A motor vehicle collision in which at least one person involved sustains bodily injuries not resulting in death.

Property Damage Collision:

A motor vehicle collision in which no person sustains bodily injury, but in which there is damage to any public property or damage to private property** including damage to the motor vehicle or its load.

Reportable Collision:

Any collision involving injury or damage to private property in excess of a monetary value prescribed by regulation.**

Self-Reporting of a Collision:

Under the Highway Traffic Act [s.199 (1.1)], when one is in a collision in which there is only property damage (no injury or death, and, among other conditions, no criminal activities such as impaired driving) the involved person(s) may report the collision immediately by proceeding with one's vehicle to a Collision Reporting Centre. Self-Reporting of a collision was introduced on January 1, 1997.

Suspension:

Withdrawal of a driver's privilege to operate a motor vehicle for a prescribed period of time.

*These passenger restrictions do not apply if the G2 driver is accompanied by a full "G" licensed driver (with at least four years driving experience) in the front seat, or if the passengers are immediate family members.

**The minimum reportable level for property damage only collisions rose from \$200 to \$400 on January 1, 1978 and rose again to \$700 on January 1, 1985. As of January 1, 1998, the minimum reportable level for property damage only collision is \$1,000.

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Ministry of Health and Long-Term Care

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Ministry of Transportation
1201 Wilson Avenue
Building A, Main Floor, Room 212
Toronto, Ontario
M3M 1J8