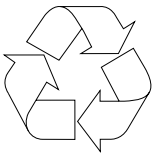
Ontario

# Ontario Road Safety Annual Report

1996

# ’96 Ontario Road Safety Annual Report



Cette publication technique n’est disponible qu’en anglais.

Copies of this document can be obtained from:
Publications Ontario
880 Bay Street
Toronto, Ontario
M7A 1N8

Telephone (416) 326-5300
Toll-free (800) 668-9938
TTY (800) 268-7095

If you are seeking information on how to reduce your risk of being in a collision, visit your local Ministry of Transportation (MTO) office for the latest copy of the Official Driver’s Handbook call General Publishing at (800) 387-0141 or (416) 445-3333. For all other driver manuals and leaflets call (416) 235-3473 or for MTO information call (800) 268-4686. In addition, you may wish to borrow a road safety video from the Ontario Safety League (416) 620-1720.

Many of the publications are available at automotive retail outlets and book stores.

For more information on the data in this publication, please contact the Safety Research Office at (416) 235-3585.

Produced by:
Safety Research Office
Safety Policy Branch
Ministry of Transportation
1201 Wilson Avenue
East Building, Main Floor
Downsview, Ontario
M3M 1J8

Phone: (416) 235-3585
Fax: (416) 235-3633

**ISSN # 0832-8269**

# Table of Contents - 1996


| | | | Page |
|---|---|---|---|
| | Contents | | ii |
| | List of Tables and Figures | | iii |
| Section | 1 | Overview | 1 |
| | 1a | Synopsis | 2 |
| | 1b | Selected Characteristics of Motor Vehicle Collisions | 3 |
| | 1c | Health Perspective | 4 |
| Section | 2 | The People | 5 |
| | 2a | People in Collisions | 6 |
| | | Persons Killed and Injured | 6 |
| | | Drivers | 9 |
| | | Alcohol | 9 |
| | | Driver Action | 11 |
| | | Seat Belts and Child Restraints | 12 |
| | | Pedestrians | 13 |
| | 2b | Putting the People in Context | 14 |
| | | Injury Rates | 14 |
| | | Driver Population | 14 |
| Section | 3 | The Collision | 21 |
| | 3a | Types of Collisions | 22 |
| | | Collision Classes and Rates | 23 |
| | 3b | Time and Environment | 25 |
| | 3c | The Collision Location | 28 |
| Section | 4 | Place of Collision in Ontario | 31 |
| | | Geographical Location-Estimated Population, Collision Information & Vehicle Registrations | 32 |
| Section | 5 | The Vehicle | 45 |
| | 5a | Vehicles in Collisions | 46 |
| | | Vehicle Type | 46 |
| | | Condition, Model Year | 47 |
| | | Insurance Status | 48 |
| | 5b | Putting the Vehicle in Context | 49 |
| | | Vehicle Population | 49 |
| | | Damage Level | 50 |
| Section | 6 | Vehicles of Special Interest | 51 |
| | 6a | Motorcycles | 52 |
| | 6b | School Vehicles | 53 |
| | 6c | Trucks | 54 |
| | 6d | Off-Road Vehicles | 55 |
| | 6e | Motorized Snow Vehicles | 56 |
| | 6f | Bicycles | 57 |
| Section | 7 | Conviction and Suspension Data | 59 |
| | 7a | Conviction Data | 60 |
| | 7b | Suspension Data | 61 |
| Section | 8 | Appendix | 63 |
| | 8a | Glossary of Terms | 63 |

## List of Tables and Figures - 1996


| Table | Title | Page |
|---|---|---|
| 2.1 | Category of Involved Person by Severity of Injury in Fatal and Personal Injury Collisions | 6 |
| 2.2 | Category of Persons Killed by Age Groups | 7 |
| 2.3 | Category of Persons Injured by Age Groups | 8 |
| 2.4 | Sex of Driver by Class of Collision | 9 |
| 2.5 | Driver Condition by Class of Collision | 9 |
| 2.6 | Driver Age by Driver Condition in all Collisions | 10 |
| 2.7 | Recorded Driver Condition in Drivers Killed | 10 |
| 2.8 | Apparent Driver Action by Class of Collision | 11 |
| 2.9 | Seat Belt Usage by Severity of Driver Injury in Fatal and Personal Injury Collisions | 11 |
| 2.10 | Seat Belt Usage by Severity of Passenger Injury in Fatal and Personal Injury Collisions | 12 |
| 2.11 | Restraint Use for Children (0 - 4 Years) Killed 1992 - 1996 | 12 |
| 2.12 | Restraint Use for Children (0 - 4 Years) Involved in Fatal and Personal Injury Collisions by Severity of Injury | 12 |
| 2.13 | Pedestrian Condition by Severity of Injury | 13 |
| 2.14 | Apparent Pedestrian Action by Severity of Injury | 13 |
| 2.15 | Category of Persons Killed and Injured 1987 - 1996 | 14 |
| 2.16 | Sex of Driver Population by Age Groups | 14 |
| 2.17 | Driver Population Age Groups 1987 - 1996 | 14 |
| 2.18 | Driver Licence Class by Sex | 15 |
| 2.19 | Licensed Drivers, Total Collisions, Persons Killed and Injured 1931 - 1996 | 17 |
| 2.20 | Original Licences Issued 1992 - 1996 | 18 |
| 2.21 | Original Driver Licences Issued 1995 - 1996 | 18 |
| 2.22 | Driver Age Groups - Number Licensed, Collision Involvement and Per Cent Involved in Collisions | 19 |
| 3.1 | Class of Collision 1987 - 1996 | 22 |
| 3.2 | Collision Rate Per One Million Kilometres Travelled 1987 - 1996 | 22 |
| 3.3 | Motor Vehicles Involved in Collisions Based on Initial Impact | 23 |
| 3.4 | Initial Impact Type by Class of Collision | 24 |
| 3.5 | Month of Occurrence by Class of Collision | 25 |
| 3.6 | Day of Week by Class of Collision | 25 |
| 3.7 | Hour of Occurrence by Class of Collision | 26 |
| 3.8 | Statutory Holidays, Holiday Weekends - Fatal Collisions, Persons Killed and Persons Injured | 27 |
| 3.9 | Light Condition by Class of Collision | 27 |
| 3.10 | Visibility by Class of Collision | 27 |
| 3.11 | Road Jurisdiction by Class of Collision | 28 |
| 3.12 | Road Jurisdiction for All Collisions 1987 - 1996 | 28 |
| 3.13 | Road Location by Class of Collision | 29 |
| 3.14 | Road Surface Condition by Class of Collision | 29 |
| 4.1 | Place of Collision - Estimated Population, Class of Collision, Persons Killed, Injured & Vehicle Registrations | 32 |
| 5.1 | Type of Vehicle Involved in All Collisions | 46 |
| 5.2 | Condition of Vehicle by Class of Collision | 47 |
| 5.3 | Model Year of Vehicle by Class of Collision | 47 |
| 5.4 | Insurance Status of Vehicle by Class of Collision | 48 |
| 5.5 | Vehicle Population by Type of Vehicle | 49 |
| 5.6 | Selected Types of Vehicles by Model Year | 49 |
| 5.7 | Vehicle Damage Level | 50 |

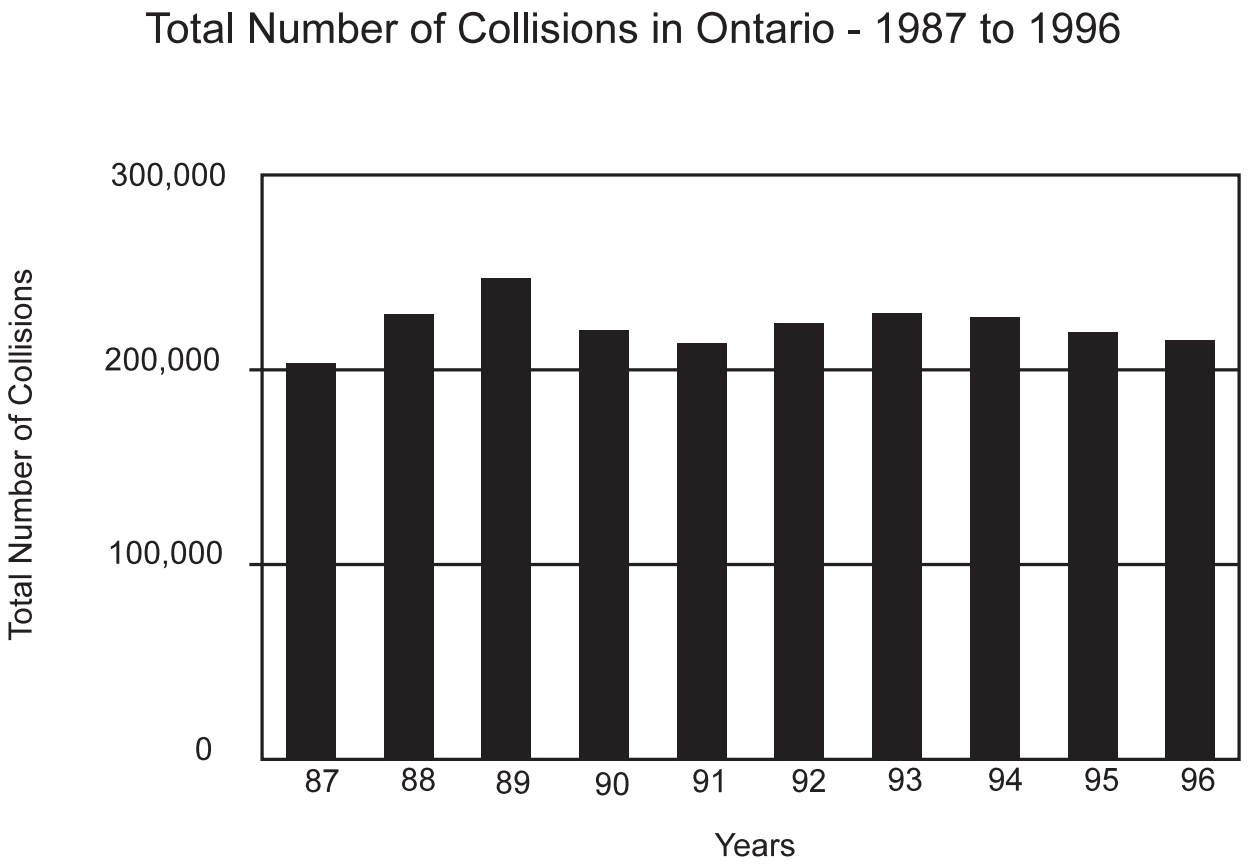
**List of Tables and Figures (cont'd)** **Page**


| | | |
|---|---|---|
| 6.1 | Motorcyclists Killed and Injured 1992 - 1996 | **52** |
| 6.2 | Selected Factors Relevant to Fatal Motorcycle Collisions | **52** |
| 6.3 | Pupils Transported Daily, Total Collisions and Injury Rate per 100,000 Pupils - School Years 1991/92 - 1995/96 | **53** |
| 6.4 | School Vehicle Type by Nature of Collision 1995/96 | **53** |
| 6.5 | Pupil Injury by Collision Event and Vehicle Type 1995/96 | **53** |
| 6.6 | Class of Truck Collision 1992 - 1996 | **54** |
| 6.7 | Driver Licence Class Required by Class of Truck Collision | **54** |
| 6.8 | Driver Licence Class Required, Collisions, Registered Trucks and Rates | **54** |
| 6.9 | Selected Factors Relevant to Fatal Truck Collisions | **54** |
| 6.10 | Collision Location by Off-Road Vehicle Drivers Killed and Injured 1992 - 1996 | **55** |
| 6.11 | Collision Location by Off-Road Vehicle Passengers Killed and Injured 1992 - 1996 | **55** |
| 6.12 | Registered Off-Road Vehicles 1992 - 1996 | **55** |
| 6.13 | Selected Factors Relevant to All Off-Road Vehicle Collisions | **55** |
| 6.14 | Collision Location by Motorized Snow Vehicle Drivers Killed and Injured - Riding Seasons 1991/92 - 1995/96 | **56** |
| 6.15 | Collision Location by Motorized Snow Vehicle Passengers Killed and Injured - Riding Seasons 1991/92 - 1995/96 | **56** |
| 6.16 | Registered Motorized Snow Vehicles | **56** |
| 6.17 | Selected Factors Relevant to All Motorized Snow Vehicle Collisions | **56** |
| 6.18 | Bicyclists Killed and Injured 1992 - 1996 | **57** |
| 6.19 | Age of Bicyclist by Light Condition | **57** |
| 6.20 | Selected Factors Relevant to All Bicycle Collisions | **57** |
| 7.1 | Summary of Motor Vehicle Related Convictions | **60** |
| 7.2 | Motor Vehicle Convictions Related to the Highway Traffic Act | **60** |
| 7.3 | Motor Vehicle Convictions Related to the Criminal Code | **60** |
| 7.4 | Mandatory Suspensions Related to Criminal Code Convictions Issued | **61** |
| 7.5 | Mandatory Suspensions Related to Criminal Code Convictions at Year End | **61** |
| 7.6 | Demerit Point Suspensions by Driver Age | **62** |


| **Figure** | **Title** | |
|---|---|---|

| 1 | Total Number of Collisions in Ontario, 1987 - 1996 | **1** |
| 1b | Per Cent of Hospital Admissions by Injury Type | **3** |
| 2 | Per Cent of Involved Persons in Collisions by Severity of Injury | **5** |
| 3 | Collision Rate Per One Million Kilometres Travelled in Ontario, 1987 - 1996 | **21** |
| 5 | Vehicle Population by Vehicle Class in Ontario - 1996 | **45** |
| 7 | Per Cent of Motor Vehicle Related Convictions in Ontario - 1996 | **59** |

# 1 Overview

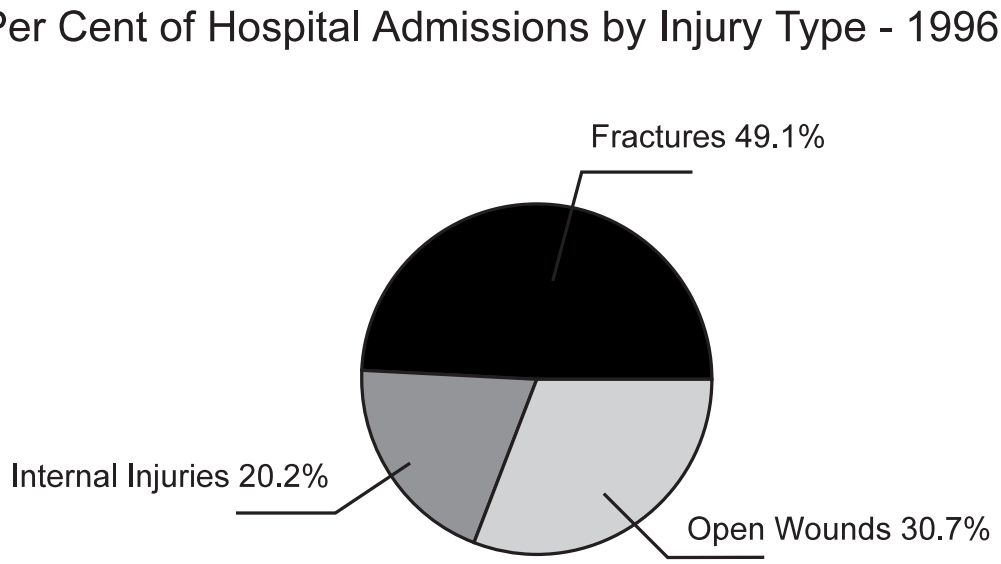

Total Number of Collisions in Ontario - 1987 to 1996
Total Number of Collisions
300,000
200,000
100,000
0
87
88
89
90
91
92
93
94
95
96
Years

## 1a. Synopsis

| Selected Statistics | |
|---|---|
| Total Reportable Collisions | 215,024 |
| Total Drivers Involved in Collisions | 384,453 |
| Total Vehicles Involved in Collisions | 398,720 |
| Fatal Collisions | 816 |
| Personal Injury Collisions | 57,791 |
| Property Damage Collisions | 156,417 |
| Persons Killed | 929 |
| Drivers Killed | 506 |
| Drivers Killed (Impaired or Had Been Drinking) | 127 |
| Passengers Killed | 270 |
| Pedestrians Killed | 144 |
| Other Road Users Killed | 5 |
| Persons Injured | 88,445 |
| Estimated Ontario Population (1994) | 10,303,529 |
| Licensed Drivers | 7,258,167 |
| Registered Motor Vehicles | 6,462,849 |
| Estimated Vehicle Kilometres Travelled (in millions) | 79,368 |
| Number of Persons Killed in Motor Vehicle Collisions per 100,000 People in Ontario | 9.0 |
| Number of Persons Killed in Motor Vehicle Collisions per 100 Million Kilometres Travelled | 1.2 |
| Collision Rate per 100 Million Kilometres Travelled | 270.9 |
| Fatal Collision Rate per 100 Million Kilometres Travelled | 1.0 |

## 1b. Selected Characteristics of Motor Vehicle Collisions

On January 1, 1988 a new Motor Vehicle Accident Report (MVAR) form was introduced. These data includes the changes which were made on the form used by the police forces in Ontario, which forms the basis for the collision statistics complied by the province of Ontario. This has resulted in changes in the ways in which the data are compiled. As a result, some of the information may not be directly comparable to data from years prior to 1988.



## 1c. The Health Perspective

**Selected Diagnoses of Motor Vehicle Collision Injuries Hospitalized in Ontario, 1995/96**

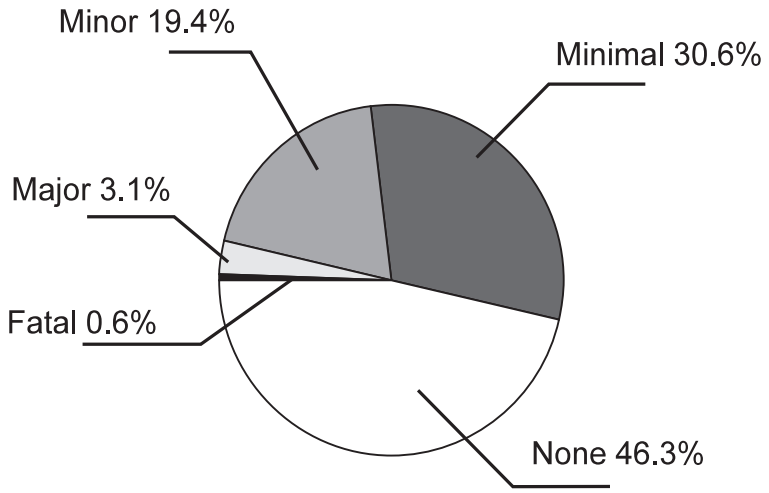
| Selected Diagnoses | Hospital Admissions | Hospital Days of Stay |
|---|---|---|
| Fracture of skull | 498 | 6,137 |
| Fracture of neck and trunk | 1,382 | 14,401 |
| Fracture of upper limb | 595 | 3,091 |
| Fracture of lower limb | 1,417 | 15,314 |
| Dislocation, sprains and strains | 296 | 1,289 |
| Intracranial injury, excluding those with skull fracture | 1,144 | 14,683 |
| Internal injury of chest, abdomen and pelvis | 583 | 5,171 |
| Open wound of head, neck and trunk | 254 | 728 |
| Open wound of upper limb | 62 | 329 |
| Open wound of lower limb | 73 | 556 |
| Other injuries, burns and traumatic complications | 2,231 | 48,627 |
| **Total Admissions and Days** | **8,535** | **110,326** |

**Selected Surgical Procedures for Motor Vehicle Collision Injuries Hospitalized in Ontario, 1996**

| Selected Procedure | Hospital Admissions | Hospital Days of Stay |
|---|---|---|
| Operations on skull, brain and cerebral meninges | 142 | 3,485 |
| Operations on spinal cord and canal structures | 57 | 1,113 |
| Operations on nose, mouth and pharynx | 53 | 224 |
| Operations on chest wall, pleura, mediastinum and diaphragm | 115 | 1,514 |
| Operations on bone marrow and spleen | 76 | 967 |
| Operations on kidney | 32 | 4,086 |
| Operation on facial bones and joints | 157 | 1,406 |
| Reduction of fracture and dislocation | 1,767 | 19,188 |
| Repair and plastic operations on joint structures | 135 | 3,180 |
| Operations on skin and subcutaneous tissue | 529 | 2,905 |
| Other surgical procedure | 576 | 7,822 |
| **Sub-total of surgical admission and days** | **3,639** | **45,890** |
| **No surgical procedures reported** | **4,896** | **64,436** |
| **Total Admissions and Days** | **8,535** | **110,326** |

## 2 The People

Per Cent of Involved Persons in Collisions by Severity of Injury - 1996



## 2a. People in Collisions

**Table 2.1** **Category of Involved Person by Severity of Injury in Fatal and Personal Injury Collisions 1996**

| Category of Involved Person | Severity of Injury None | Minimal | Minor | Major | Fatal | Total |
|---|---|---|---|---|---|---|
| Driver | 49,040 | 29,783 | 17,312 | 2,519 | 459 | **99,113** |
| Passenger* | 26,979 | 16,784 | 10,598 | 1,565 | 269 | **56,195** |
| Pedestrian | 125 | 2,208 | 2,458 | 670 | 144 | **5,605** |
| Cyclist | 37 | 1,529 | 1,178 | 156 | 20 | **2,920** |
| Cyclist Passenger | 14 | 60 | 39 | 2 | - | **115** |
| All Terrain Vehicle Driver | 10 | 9 | 5 | 6 | - | **30** |
| All Terrain Vehicle Passenger | 6 | 3 | 2 | - | - | **11** |
| Snow Vehicle Driver | 8 | 14 | 20 | 12 | 3 | **57** |
| Snow Vehicle Passenger | - | 4 | 6 | 8 | - | **18** |
| Motorcycle Driver | 65 | 322 | 507 | 177 | 27 | **1,098** |
| Motorcycle Passenger | 27 | 69 | 137 | 38 | 2 | **273** |
| Moped Driver | 7 | 10 | 12 | 2 | 1 | **32** |
| Moped Passenger | 3 | 6 | - | - | - | **9** |
| Hanger On | 22 | 24 | 29 | 10 | 1 | **86** |
| Other | 683 | 106 | 39 | 7 | 3 | **838** |
| **Total** | **77,026** | **50,931** | **32,342** | **5,172** | **929** | **166,400** |

* Includes bus passengers.

Due to a change in the method of tabulating collision statistics this table excludes individuals involved in property damage only collisions.

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

**Major** Person admitted to hospital. Includes person admitted for observation.

**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 complaint of pain.

**None** Uninjured person.

**Table 2.2** **Category of Person Killed by Age Groups 1996**

| Category of | Age Groups | | | | | | | | | | | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Person** | **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 | - | - | - | 4 | 2 | 8 | 10 | 13 | 50 | 104 | 72 | 61 | 45 | 55 | 35 | - | **459** |
| Passenger* | 6 | 13 | 8 | 9 | 21 | 11 | 12 | 5 | 34 | 36 | 24 | 18 | 26 | 20 | 27 | - | **270** |
| Pedestrian | 4 | 7 | 6 | 3 | 1 | - | 3 | 2 | 4 | 12 | 16 | 20 | 15 | 24 | 25 | 2 | **144** |
| Cyclist | 1 | - | 2 | 1 | - | - | 1 | - | 2 | 8 | - | 2 | - | 1 | 2 | - | **20** |
| Cyclist Passenger | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** |
| ATV Driver | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** |
| ATV Passenger | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** |
| Snow Vehicle Driver | - | - | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | **3** |
| Snow Vehicle Passenger | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** |
| Motorcycle Driver | - | - | - | 1 | 1 | - | 3 | - | 4 | 7 | 6 | 4 | 1 | - | - | - | **27** |
| Motorcycle Passenger | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | **2** |
| Moped Driver | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | **1** |
| Moped Passenger | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** |
| Other | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | **3** |
| **Total** | **11** | **20** | **17** | **18** | **26** | **19** | **29** | **20** | **95** | **168** | **119** | **105** | **87** | **103** | **89** | **3** | **929** |

* Includes 1 Hanger On

These are deaths in Highway Traffic Act (HTA) reportable collisions only. For more information on special vehicles see Chapter 6.

**Table 2.3** **Category of Persons Injured by Age Groups 1996**

| Category of | Age Groups | | | | | | | | | | | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Person** | **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 | 6 | 2 | 55 | 218 | 834 | 1,109 | 1,247 | 1,215 | 4,923 | 13,541 | 11,522 | 7,456 | 3,938 | 2,276 | 1,186 | 86 | **49,614** |
| Passenger* | 1,277 | 1,988 | 2,616 | 834 | 934 | 1,023 | 962 | 895 | 2,771 | 5,152 | 3,372 | 2,481 | 1,783 | 1,413 | 785 | 711 | **28,997** |
| Pedestrian | 145 | 464 | 808 | 139 | 140 | 106 | 100 | 95 | 360 | 780 | 682 | 490 | 354 | 304 | 235 | 134 | **5,336** |
| Cyclist | 23 | 213 | 626 | 94 | 88 | 79 | 84 | 83 | 277 | 529 | 309 | 139 | 67 | 37 | 16 | 199 | **2,863** |
| Cyclist Passenger | 5 | 10 | 24 | 1 | 4 | 5 | 6 | 2 | 12 | 18 | 11 | 3 | 1 | 5 | 1 | 1 | **109** |
| ATV Driver | - | - | 9 | 2 | 3 | 1 | - | - | - | 2 | 2 | 1 | - | - | - | - | **20** |
| ATV Passenger | - | - | 3 | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | **6** |
| Snow Vehicle Driver | - | - | 10 | 11 | 3 | 1 | 2 | 3 | 4 | 6 | 3 | 3 | - | - | - | - | **46** |
| Snow Vehicle Passenger | - | 1 | 7 | 2 | 2 | 1 | 2 | - | 1 | - | - | 1 | - | - | - | 1 | **18** |
| Motorcycle Driver | - | - | 13 | 20 | 31 | 23 | 28 | 44 | 159 | 306 | 209 | 129 | 34 | 10 | - | - | **1,006** |
| Motorcycle Passenger | 1 | 2 | 11 | 9 | 7 | 13 | 7 | 10 | 37 | 62 | 47 | 26 | 6 | - | - | 8 | **246** |
| Moped Driver | - | - | 1 | - | 2 | - | 1 | 2 | 2 | 3 | 6 | 5 | 1 | 1 | - | - | **24** |
| Moped Passenger | - | - | 1 | - | - | - | - | - | - | - | 2 | 2 | - | - | 1 | - | **6** |
| Other | - | 2 | 12 | 2 | 1 | 1 | 2 | 2 | 4 | 13 | 21 | 15 | 13 | 2 | 3 | 61 | **154** |
| **Total** | **1,457** | **2,682** | **4,196** | **1,333** | **2,050** | **2,362** | **2,442** | **2,351** | **8,550** | **20,412** | **16,186** | **10,751** | **6,197** | **4,048** | **2,227** | **1,201** | **88,445** |

* Includes 63 Hangers On

These are injuries in Highway Traffic Act (HTA) reportable collisions only. For more information on special vehicles see Chapter 6.

**Table 2.4 Sex of Driver by Class of Collision 1996**

| Sex of Driver | Class of Collision | | | Total |
|---|---|---|---|---|
| | Fatal | Personal Injury | Property Damage | |
| Male | 1,052 | 71,365 | 189,662 | **262,079** |
| Female | 310 | 36,197 | 82,919 | **119,426** |
| Unknown* | 5 | 654 | 2,289 | **2,948** |
| **Total** | **1,367** | **108,216** | **274,870** | **384,453** |

**Table 2.5 Driver Condition by Class of Collision 1996**

| Condition of Driver | Class of Collision | | | Total |
|---|---|---|---|---|
| | Fatal | Personal Injury | Property Damage | |
| Normal | 933 | 87,183 | 215,651 | **303,767** |
| Had Been Drinking | 71 | 2,291 | 3,417 | **5,779** |
| Ability Impaired - Alcohol over .08 | 123 | 1,461 | 2,277 | **3,861** |
| Ability Impaired Alcohol | 23 | 683 | 807 | **1,513** |
| Ability Impaired Drugs | 17 | 71 | 106 | **194** |
| Fatigue | 20 | 569 | 757 | **1,346** |
| Medical Physical Defect | 13 | 440 | 372 | **825** |
| Inattentive | 54 | 5,875 | 13,178 | **19,107** |
| Other | 6 | 241 | 525 | **772** |
| Unknown* | 107 | 9,402 | 37,780 | **47,289** |
| **Total** | **1,367** | **108,216** | **274,870** | **384,453** |

**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 accidental injuries up to one year after the collision. Since that date, only deaths from injuries within thirty days of the collision have been included.

**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.

The minimum reportable level for property damage only collision rose from $200 to $400 on January 1, 1978 and rose again to $700 on January 1, 1985.

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

**Ability Impaired Alcohol Over .08** Driver had consumed alcohol and upon testing was found to have a blood alcohol level in excess of 80 mg%. Eighty mg alcohol per 100 ml of blood is the legal limit in the province of Ontario.

**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.

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

**Table 2.6 Driver Age by Driver Condition In all Collisions 1996***

| Driver Age | Driver Condition | | | | | | Total |
|---|---|---|---|---|---|---|---|
| | Normal | Had Been Drinking | Impaired Alcohol over .08 | Ability Impaired Alcohol | Other | Unknown | |
| Under 16 | 1,056 | 21 | 1 | 4 | 198 | 113 | **1,393** |
| 16 | 1,462 | 26 | 8 | 7 | 150 | 140 | **1,793** |
| 17 | 5,841 | 113 | 25 | 13 | 692 | 466 | **7,150** |
| 18 | 6,719 | 138 | 56 | 25 | 694 | 652 | **8,284** |
| 19 | 7,036 | 272 | 121 | 38 | 696 | 678 | **8,841** |
| 20 | 7,039 | 257 | 127 | 40 | 598 | 631 | **8,692** |
| 21-24 | 28,963 | 870 | 447 | 140 | 2,202 | 3,058 | **35,680** |
| 25-34 | 81,333 | 1,819 | 1,226 | 514 | 5,177 | 8,876 | **98,945** |
| 35-44 | 70,324 | 1,156 | 1,050 | 390 | 4,396 | 7,250 | **84,566** |
| 45-54 | 46,379 | 577 | 490 | 188 | 2,822 | 4,641 | **55,097** |
| 55-64 | 24,651 | 260 | 200 | 86 | 1,684 | 2,383 | **29,264** |
| 65-74 | 14,408 | 115 | 79 | 34 | 1,373 | 1,298 | **17,307** |
| 75 & over | 6,646 | 24 | 15 | 10 | 1,041 | 614 | **8,350** |
| Unknown | 1,910 | 131 | 16 | 24 | 521 | 16,489 | **19,091** |
| **Total** | **303,767** | **5,779** | **3,861** | **1,513** | **22,244** | **47,289** | **384,453** |

* Includes all drivers in Highway Traffic Act (HTA) reportable collisions.

**Table 2.7 Recorded Driver Condition In Drivers Killed 1996***

| Recorded Occurrence | Drivers Number | Drivers % |
|---|---|---|
| Normal | 272 | 53.3 |
| Had Been Drinking | 28 | 5.5 |
| Ability Impaired - | | |
| Alcohol over .08 | 92 | 18.0 |
| Ability Impaired Alcohol | 7 | 1.4 |
| Ability Impaired Drugs | 13 | 2.5 |
| Fatigue | 12 | 2.4 |
| Medical Physical Defect | 13 | 2.5 |
| Inattentive | 19 | 3.7 |
| Other | 49 | 9.6 |
| Unknown | 5 | 1.0 |
| **Total** | **510** | **100** |

* In previous years Table 2.7 only included fatality injured drivers who were either normal or had been drinking. In order to better examine the other pre-crash factors related to deaths of all drivers this table has now been expanded to include the driver conditions of fatality injured drivers. These data can be recombined into the older format by recalculating the percentages based on only the alcohol and normal driver's data.

**Table 2.8** Apparent Driver Action by Class of Collision 1996

| Apparent Driver Action | Class of Collision | | | Total |
|---|---|---|---|---|
| | Fatal | Personal Injury | Property Damage | |
| Driving Properly | 590 | 51,145 | 125,984 | **177,719** |
| Following Too Close | 16 | 9,273 | 21,788 | **31,077** |
| Speed Too Fast | 84 | 1,202 | 1,774 | **3,060** |
| Speed Too Fast for Conditions | 102 | 5,978 | 16,753 | **22,833** |
| Speed Too Slow | | 80 | 164 | **244** |
| Improper Turn | 14 | 3,641 | 11,398 | **15,053** |
| Disobey Traffic Control | 77 | 5,021 | 7,163 | **12,261** |
| Fail to Yield Right of Way | 95 | 11,102 | 27,956 | **39,153** |
| Improper Passing | 21 | 770 | 2,824 | **3,615** |
| Lost Control | 176 | 7,946 | 21,115 | **29,237** |
| Wrong Way on One Way Road | 5 | 128 | 231 | **364** |
| Improper Lane Change | 14 | 1,789 | 9,179 | **10,982** |
| Other* | 126 | 6,908 | 16,836 | **23,870** |
| Unknown | 47 | 3,233 | 11,705 | **14,985** |
| **Total** | **1,367** | **108,216** | **274,870** | **384,453** |

* Includes actions defined as careless driving, inattentive driving, fell asleep, wrong side of road, improper parking, impaired, illegally parked, dangerous driving, inexperience, etc.

**Table 2.9** Seat Belt Usage by Severity of Driver Injury in Fatal and Personal Injury Collisions 1996

| Safety Equipment Used | Severity of Injury | | | | | |
|---|---|---|---|---|---|---|
| | Killed | Major | Minor | Minimal | Not Injured | Total |
| Seat Belt Used | 259 | 1,833 | 15,101 | 27,756 | 43,898 | **88,847** |
| Other Equipment* | 6 | 65 | 375 | 355 | 183 | **984** |
| Equipment Not used | 135 | 354 | 781 | 477 | 317 | **2,064** |
| No Safety Equipment | 1 | 9 | 40 | 32 | 71 | **153** |
| Use Unknown | 58 | 258 | 1,015 | 1,163 | 4,571 | **7,065** |
| **Total** | **459** | **2,519** | **17,312** | **29,783** | **49,040** | **99,113** |

* Other equipment includes helmets, including construction, motorcycle helmets, etc. It also includes the use of airbags. Seat belt usage in conjunction with airbag deployment is unknown.

**The tables on this page only include seat belt usage in collisions in which there were personal injuries or fatalities. Property damage only collisions are excluded. ORSARs published prior to 1988, included seat belt usage in all collisions.**

**Table 2.10 Seat Belt Usage by Severity of Passenger Injury in Fatal and Personal Injury Collisions 1996**

| Safety Equipment Used | Severity of Injury | | | | | |
|---|---|---|---|---|---|---|
| | Killed | Major | Minor | Minimal | Not Injured | Total |
| Seat Belt Used | 143 | 1,004 | 8,389 | 14,413 | 21,739 | **45,688** |
| Child Safety Seat Used Incorrectly | 1 | 5 | 11 | 18 | 71 | **106** |
| Child Safety Seat Used Correctly | 3 | 18 | 177 | 361 | 1,694 | **2,253** |
| Other Equipment* | 3 | 14 | 104 | 86 | 68 | **275** |
| Equipment Not used | 91 | 303 | 853 | 575 | 430 | **2,252** |
| No Safety Equipment | 8 | 58 | 428 | 570 | 828 | **1,892** |
| Use Unknown | 18 | 166 | 600 | 708 | 2,070 | **3,562** |
| **Total** | **267** | **1,568** | **10,562** | **16,731** | **26,900** | **56,028** |

* Other equipment includes helmets, including construction, motorcycle helmets, etc. It also includes the use of airbags. Seat belt usage in conjunction with airbag deployment is unknown.

**Table 2.11 Restraint Use for Children (0 - 4 Years) Killed in Collisions 1992-1996**

| Year | Child Restraint Used Correctly | Child Restraint Used Incorrectly | Lap/Lap & Shoulder Belt | Restraint Not Available | Available Not Used | Use Unknown | Total |
|---|---|---|---|---|---|---|---|
| 1992 | 8 | 4 | 4 | 3 | 2 | - | **21** |
| 1993 | 5 | 1 | 5 | 1 | - | - | **12** |
| 1994 | 5 | - | 4 | 1 | 2 | 1 | **13** |
| 1995 | 5 | 2 | 10 | 1 | 2 | - | **20** |
| 1996 | 3 | 1 | 1 | 0 | 1 | - | **6** |

**Table 2.12 Restraint Use for Children (0 - 4 Years) Involved in Fatal and Personal Injury Collisions by Severity of Injury 1996**

| Restraint Used | Injury Level | | |
|---|---|---|---|
| | Major / Fatal % | Minimal/Minor % | No Injuries % |
| Child Restraint Used Correctly | 34.5 | 38.6 | 47.0 |
| Child Restraint Used Incorrectly | 10.3 | 2.0 | 2.0 |
| Lap/Lap-Shoulder Belt | 41.4 | 49.2 | 44.5 |
| Not Available | - | 2.7 | 2.0 |
| Available/Not Used | 12.1 | 3.1 | 0.8 |
| Other | - | 0.5 | 0.2 |
| Unknown | 1.7 | 4.0 | 3.6 |
| **Total** | **100.0** | **100.0** | **100.0** |

**It is known from observation surveys that many child safety seats are not used correctly. This is not clear in these tables since children are often removed from the child safety seat before the police officer arrives on the scene. Both correct installation of the seats according to the manufacturer's instructions and correct use of the device in the vehicle are important for the child's protection.**

**Table 2.13 Pedestrian Condition by Severity of Injury 1996**

| Condition of Pedestrian | Killed | Injured |
|---|---|---|
| Normal | 76 | 3,506 |
| Had Been Drinking | 6 | 241 |
| Ability Impaired Alcohol over .08 | 20 | 20 |
| Ability Impaired Alcohol | 3 | 96 |
| Ability Impaired Drugs | 1 | 15 |
| Fatigue | - | 3 |
| Medical or Physical Defect | 4 | 91 |
| Inattentive | 17 | 699 |
| Other | 2 | 101 |
| Unknown | 15 | 564 |
| **Total** | **144** | **5,336** |

**Table 2.14 Apparent Pedestrian Action by Severity of Injury 1996**

| Apparent Pedestrian Action | Killed | Injured |
|---|---|---|
| Crossing Intersection With Right of Way | 11 | 1,481 |
| Crossing Intersection Without Right of Way | 26 | 878 |
| Crossing Intersection No Traffic Control | 27 | 409 |
| Crossing Pedestrian Crossover | 4 | 149 |
| Crossing Marked Crosswalk Without Right of Way | 8 | 109 |
| Walking on Roadway With Traffic | 8 | 147 |
| Walking on Roadway Against Traffic | 2 | 68 |
| On Sidewalk or Shoulder | 6 | 336 |
| Playing or Working on Highway | 3 | 86 |
| Coming from Behind Parked Vehicle or Object | 2 | 212 |
| Running onto Roadway | 11 | 624 |
| Getting On/Off School Bus* | 2 | 8 |
| Getting On/Off Vehicle | 1 | 78 |
| Pushing/Working on Vehicle | - | 27 |
| Other | 33 | 724 |
| Unknown | - | - |
| **Total** | **144** | **5,336** |

* Calender Year

## 2b. Putting the People in Context

**Table 2.15 Category of Persons Killed and Injured 1987-1996**

| Year | Ontario Population (Est.) | Driver | | Passenger* | | Pedestrian | | All Others | | Persons Killed In All Classes | | Persons Injured In All Classes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Rate Per | | Rate Per |
| | | Killed | Injured | Killed | Injured | Killed | Injured | Killed | Injured | Number | 100,000 | Number | 100,000 |
| 1987 | 9,270,700 | 545 | 64,588 | 318 | 39,596 | 187 | 5,939 | 179 | 10,966 | 1,229 | 13.3 | 121,089 | 1,306.2 |
| 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 |

* Excludes motorcycle passengers, which are included with “All Others”.

**Table 2.16 Sex of Driver Population by Age Groups 1996**

| Sex of Driver | Age Groups 16-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65+ | Total |
|---|---|---|---|---|---|---|---|---|
| Male | 194,941 | 323,772 | 842,124 | 892,165 | 688,949 | 449,938 | 490,706 | **3,882,595** |
| Female | 166,630 | 288,288 | 766,443 | 824,885 | 608,340 | 355,548 | 365,438 | **3,375,572** |
| **Total** | **361,571** | **612,060** | **1,608,567** | **1,717,050** | **1,297,289** | **805,486** | **856,144** | **7,258,167** |

**Table 2.17 Driver Population by Age Groups 1987-1996**

| Year | Age Groups 16-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65+ | Total |
|---|---|---|---|---|---|---|---|---|
| 1987 | 305,886 | 662,357 | 1,544,926 | 1,306,853 | 866,022 | 708,865 | 583,196 | **5,978,105** |
| 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** |

**Table 2.18** **Driver Licence Class by Sex 1995**

| Licence | Driver Sex | | | | Total | % |
|---|---|---|---|---|---|---|
| Class | Male | % | Female | % | | |
| A | 80,982 | 2.09 | 1,244 | .04 | **82,226** | **1.13** |
| AM | 28,776 | .74 | 174 | .01 | **28,950** | **.40** |
| AM1 | 336 | .01 | 4 | 0.00 | **340** | **.00** |
| AM2 | 619 | .02 | 11 | 0.00 | **630** | **.01** |
| AB | 4,161 | .11 | 373 | .01 | **4,534** | **.06** |
| AC | 13,133 | .34 | 287 | .01 | **13,420** | **.18** |
| ABM | 2,270 | .06 | 122 | .00 | **2,392** | **.03** |
| ABM1 | 12 | 0.00 | 3 | 0.00 | **15** | **0.00** |
| ABM2 | 53 | .00 | 11 | 0.00 | **64** | **0.00** |
| ACM | 6,883 | .18 | 83 | .00 | **6,966** | **.10** |
| ACM1 | 59 | .00 | 1 | 0.00 | **60** | **0.00** |
| ACM2 | 139 | .00 | 3 | 0.00 | **142** | **.00** |
| B | 16,386 | .42 | 15,415 | .46 | **31,801** | **.44** |
| BM | 4,631 | .12 | 904 | .03 | **5,535** | **.08** |
| BM1 | 30 | 0.00 | 23 | 0.00 | **53** | **0.00** |
| BM2 | 85 | .00 | 49 | .00 | **134** | **.00** |
| C | 6,268 | .16 | 427 | .01 | **6,695** | **.09** |
| CM | 1,840 | .05 | 57 | .00 | **1,897** | **.03** |
| CM1 | 16 | 0.00 | 2 | 0.00 | **18** | **0.00** |
| CM2 | 34 | 0.00 | 5 | 0.00 | **39** | **0.00** |
| D | 208,233 | 5.36 | 12,585 | .37 | **220,818** | **3.04** |
| DM | 51,032 | 1.31 | 853 | .03 | **51,885** | **.71** |
| DM1 | 441 | .01 | 18 | 0.00 | **459** | **.01** |
| DM2 | 880 | .02 | 41 | .00 | **921** | **.01** |
| DE | 119 | .00 | 15 | 0.00 | **134** | **.00** |
| DF | 2,056 | .05 | 87 | .00 | **2,143** | **.03** |
| DEM | 29 | 0.00 | 0 | .00 | **29** | **0.00** |
| DEM1 | 0 | .00 | 1 | 0.00 | **1** | **0.00** |
| DEM2 | 2 | 0.00 | 0 | .00 | **2** | **0.00** |
| DFM | 973 | .03 | 11 | 0.00 | **984** | **.01** |
| DFM1 | 15 | 0.00 | 0 | .00 | **15** | **0.00** |
| DFM2 | 19 | 0.00 | 1 | 0.00 | **20** | **0.00** |
| E | 1,399 | .04 | 2,167 | .06 | **3,566** | **.05** |
| EM | 195 | .01 | 48 | .00 | **243** | **.00** |
| EM1 | 1 | 0.00 | 1 | 0.00 | **2** | **0.00** |
| EM2 | 4 | 0.00 | 4 | 0.00 | **8** | **0.00** |
| F | 7,784 | .20 | 5,066 | .15 | **12,850** | **.18** |
| FM | 1,918 | .05 | 307 | .01 | **2,225** | **.03** |
| FM1 | 27 | 0.00 | 12 | 0.00 | **39** | **0.00** |

**Continued on next page**

**Table 2.18** **Driver Licence Class by Sex 1996** **Continued**

| Licence | Driver Sex | | | | Total | % |
|---|---|---|---|---|---|---|
| Class | Male | % | Female | % | | |
| FM2 | 71 | .00 | 19 | 0.00 | **90** | **.00** |
| G | 2,808,800 | 72.34 | 3,002,254 | 88.94 | **5,811,054** | **80.06** |
| GM | 335,771 | 8.65 | 50,834 | 1.51 | **386,605** | **5.33** |
| GM1 | 7,992 | .21 | 1,542 | .05 | **9,534** | **.13** |
| GM2 | 13,084 | .34 | 2,800 | .08 | **15,884** | **.22** |
| G1 | 113,680 | 2.93 | 132,113 | 3.91 | **245,793** | **3.39** |
| G1M | 118 | .00 | 19 | 0.00 | **137** | **.00** |
| G1M1 | 507 | .01 | 49 | .00 | **556** | **.01** |
| G1M2 | 542 | .01 | 44 | .00 | **586** | **.01** |
| G2 | 154,531 | 3.98 | 144,811 | 4.29 | **299,342** | **4.12** |
| G2M | 588 | .02 | 66 | .00 | **654** | **.01** |
| G2M1 | 982 | .03 | 75 | .00 | **1,057** | **.01** |
| G2M2 | 1,591 | .04 | 109 | .00 | **1,700** | **.02** |
| M | 1,635 | .04 | 302 | .01 | **1,937** | **.03** |
| M1 | 269 | .01 | 30 | 0.00 | **299** | **.00** |
| M2 | 593 | .02 | 90 | .00 | **683** | **.01** |
| Other | 1 | 0.00 | 0.0 | .00 | **1** | **0.00** |
| **Total** | **3,882,595** | **100** | **3,375,572** | **100** | **7,258,167** | **100** |

**Table 2.19 Licensed Drivers, Total Collisions, Persons Killed and Injured 1931-1996**

| 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 |
| 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 |

**Continued on next page**

**Table 2.19 Licensed Drivers, Total Collisions, Persons Killed and Injured 1931-1996**

| Year | Licensed Drivers | Total Collisions | Persons Killed | Persons Injured |
|---|---|---|---|---|
| 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 2.20 Original Licences Issued 1992-1996**

| Year | Original Licences |
|---|---|
| 1992 | 227,434 |
| 1993 | 246,387 |
| 1994* | 300,314 |
| 1995 | 241,412 |
| 1996 | 224,705 |

* Graduated Licensing System (GLS) began on April 1, 1994. See Appendix for more explanation on GLS.

**Table 2.21 Original Driver Licences Issued* 1995-1996**

| Year | Licence Permits | | | |
|---|---|---|---|---|
| | G1 | G2 | M1 | M2 |
| 1995 | 107,385 | 94,395 | 1,049 | 995 |
| 1996 | 139,385 | 47,637 | 653 | 683 |

* Only includes drivers who did not have a previous Ontario licence of any class.

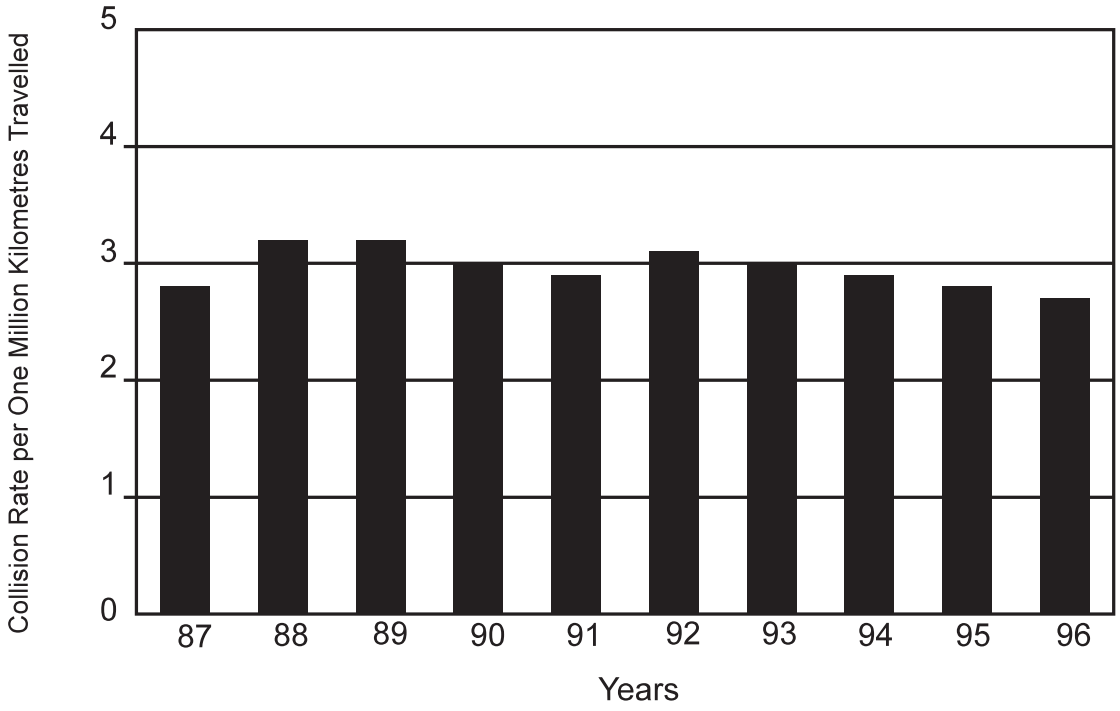
**Table 2.22 Driver Age Groups - Number Licensed, Collision Involvement and Per Cent Involved in Collisions 1996**

| 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 | - | - | **-** | 281 | 79 | **360** | - | - | **-** |
| 16 | 33,636 | 27,733 | **61,369** | 1,124 | 514 | **1,638** | 3.3 | 1.9 | **2.7** |
| 17 | 48,428 | 41,218 | **89,646** | 4,528 | 2,494 | **7,022** | 9.3 | 6.1 | **7.8** |
| 18 | 53,870 | 46,295 | **100,165** | 5,266 | 2,923 | **8,189** | 9.8 | 6.3 | **8.2** |
| 19 | 59,007 | 51,384 | **110,391** | 5,898 | 2,826 | **8,724** | 10.0 | 5.5 | **7.9** |
| 20 | 61,259 | 53,822 | **115,081** | 5,664 | 2,917 | **8,581** | 9.2 | 5.4 | **7.5** |
| 21-24 | 262,513 | 234,466 | **496,979** | 23,343 | 11,964 | **35,307** | 8.9 | 5.1 | **7.1** |
| 25-34 | 842,124 | 766,443 | **1,608,567** | 65,917 | 32,137 | **98,054** | 7.8 | 4.2 | **6.1** |
| 35-44 | 892,165 | 824,885 | **1,717,050** | 54,880 | 28,907 | **83,787** | 6.2 | 3.5 | **4.9** |
| 45-54 | 688,949 | 608,340 | **1,297,289** | 36,665 | 17,980 | **54,645** | 5.3 | 3.0 | **4.2** |
| 55-64 | 449,938 | 355,548 | **805,486** | 20,944 | 8,103 | **29,047** | 4.7 | 2.3 | **3.6** |
| 65-74 | 337,183 | 255,452 | **592,635** | 12,076 | 5,121 | **17,197** | 3.6 | 2.0 | **2.9** |
| 75 & over | 153,523 | 109,986 | **263,509** | 5,678 | 2,638 | **8,316** | 3.7 | 2.4 | **3.2** |
| Unknown | - | - | **-** | 27,775 | 5 | **27,780** | - | - | **-** |
| **Total** | **3,882,595** | **3,375,572** | **7,258,167** | **270,039** | **118,608** | **388,647** | **7.0** | **3.5** | **5.4** |

* This table excludes drivers of non-motor vehicles, i. e. bicyclists, snow vehicle operators, and ATVs etc.

## 3 The Collision

Collision Rate Per One Million Kilometres Travelled in Ontario - 1987 to 1996



## 3a. Types of Collisions

**Table 3.1 Class of Collision 1987-1996**

| Year | Class of Collision | | | Total |
|---|---|---|---|---|
| | | Personal | Property | |
| | Fatal | Injury | Damage | |
| 1987 | 1,085 | 80,432 | 121,914 | **203,431** |
| 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** |

**Table 3.2 Collision Rate Per One Million Kilometres Travelled 1987-1996**

| Year | Collision Rate |
|---|---|
| 1987 | 2.8 |
| 1988 | 3.2 |
| 1989 | 3.2 |
| 1990 | 3.0 |
| 1991 | 2.9 |
| 1992 | 3.1 |
| 1993 | 3.0 |
| 1994 | 2.9 |
| 1995 | 2.8 |
| 1996 | 2.7 |

**Table 3.3 Motor Vehicles Involved in Collisions Based on Initial Impact 1996***

| Motor Vehicle in Collision Involving Moveable Objects: | Class of Collision: Fatal | Personal Injury | Property Damage | Total |
|---|---|---|---|---|
| Other Motor Vehicles | 818 | 85,384 | 225,847 | **312,049** |
| Unattended Vehicles | 10 | 705 | 11,533 | **12,248** |
| Pedestrian | 136 | 4,723 | 136 | **4,995** |
| Cyclist | 21 | 2,886 | 337 | **3,244** |
| Railway Train | 11 | 29 | 24 | **64** |
| Street Car | 1 | 52 | 215 | **268** |
| Farm Tractor | 1 | 37 | 109 | **147** |
| Animal Domestic | 2 | 89 | 623 | **714** |
| Animal Wild | 4 | 343 | 7,088 | **7,435** |
| Other Moveable Objects | 3 | 34 | 127 | **164** |
| **Sub-total** | **1,007** | **94,282** | **246,039** | **341,328** |
| **Fixed Objects:** | | | | |
| Cable Guide Rail | 4 | 115 | 408 | **527** |
| Concrete Guide Rail | - | 190 | 525 | **715** |
| Steel Guide Rail | 3 | 282 | 1,033 | **1,318** |
| Pole (Utility Tower) | 3 | 476 | 1,365 | **1,844** |
| Pole (Sign/Parking Meter) | - | 118 | 774 | **892** |
| Fence/Noise Barrier | - | 32 | 258 | **290** |
| Culvert | 2 | 27 | 33 | **62** |
| Bridge Support | 1 | 63 | 126 | **190** |
| Rock Face | 2 | 20 | 42 | **64** |
| Snow Bank or Drift | 2 | 71 | 245 | **318** |
| Ditch | 11 | 347 | 774 | **1,132** |
| Curb | 16 | 577 | 1,705 | **2,298** |
| Crash Cushion | - | 20 | 27 | **47** |
| Building or Wall | 1 | 57 | 153 | **211** |
| Water Course | 1 | 6 | 12 | **19** |
| Construction Marker | - | 10 | 52 | **62** |
| Tree, Shrub, or Stump | 4 | 142 | 399 | **545** |
| Other Fixed Object | 6 | 266 | 1,346 | **1,618** |
| **Sub-total** | **56** | **2,819** | **9,277** | **12,152** |
| **Other Events:** | | | | |
| Ran Off Road | 134 | 3,906 | 7,751 | 11,791 |
| Skidding/Sliding | 148 | 6,205 | 17,721 | 24,074 |
| Jackknifing | 1 | 36 | 140 | 177 |
| Load Spill | - | 10 | 84 | 94 |
| Fire/Explosion | - | 12 | 437 | 449 |
| Submersion | - | 2 | 4 | 6 |
| Rollover | 3 | 213 | 361 | 577 |
| Debris on Road | 3 | 100 | 775 | 878 |
| Debris off Vehicle | 6 | 119 | 755 | 880 |
| Other Non-Collision Event | 39 | 1,811 | 4,464 | 6,314 |
| **Sub-total** | **334** | **12,414** | **32,492** | **45,240** |
| **Total** | **1,397** | **109,515** | **287,808** | **398,720** |

* Table 3.3 reflects the first event only for each vehicle in the collision.

**Table 3.4** **Initial Impact Type by Class of Collision 1996**

| Initial Impact Type | Class of Collision | | | Total |
|---|---|---|---|---|
| | | Personal | Property | |
| | Fatal | Injury | Damage | |
| Approaching | 175 | 1,565 | 2,208 | **3,948** |
| Angle | 105 | 7,616 | 15,917 | **23,638** |
| Rear End | 32 | 16,070 | 34,379 | **50,481** |
| Sideswipe | 37 | 3,408 | 16,968 | **20,413** |
| Turning Movement | 53 | 11,640 | 32,820 | **44,513** |
| Single Motor Vehicle Unattended | 12 | 707 | 11,647 | **12,366** |
| Single Motor Vehicle Other | 402 | 16,650 | 40,121 | **57,173** |
| Other | - | 134 | 2,345 | **2,479** |
| Unknown | - | 1 | 12 | **13** |
| **Total** | **816** | **57,791** | **156,417** | **215,024** |

## 3b. Time and Environment

**Table 3.5 Month of Occurrence by Class of Collision 1996**

| Month of Occurrence | Class of Collision | | | | | | Total | % |
|---|---|---|---|---|---|---|---|---|
| | | | Personal | | Property | | | |
| | Fatal | % | Injury | % | Damage | % | | |
| January | 75 | 9.2 | 5,299 | 9.2 | 17,497 | 11.2 | **22,871** | **10.6** |
| February | 69 | 8.5 | 4,493 | 7.8 | 14,064 | 9.0 | **18,626** | **8.7** |
| March | 63 | 7.7 | 4,191 | 7.3 | 12,634 | 8.1 | **16,888** | **7.9** |
| April | 42 | 5.1 | 4,151 | 7.2 | 10,628 | 6.8 | **14,821** | **6.9** |
| May | 62 | 7.6 | 4,632 | 8.0 | 10,928 | 7.0 | **15,622** | **7.3** |
| June | 67 | 8.2 | 5,293 | 9.2 | 11,730 | 7.5 | **17,090** | **7.9** |
| July | 77 | 9.4 | 5,058 | 8.8 | 10,982 | 7.0 | **16,117** | **7.5** |
| August | 86 | 10.5 | 5,099 | 8.8 | 11,118 | 7.1 | **16,303** | **7.6** |
| September | 64 | 7.8 | 5,169 | 8.9 | 12,040 | 7.7 | **17,273** | **8.0** |
| October | 78 | 9.6 | 4,974 | 8.6 | 13,110 | 8.4 | **18,162** | **8.4** |
| November | 66 | 8.1 | 4,891 | 8.5 | 16,203 | 10.4 | **21,160** | **9.8** |
| December | 67 | 8.2 | 4,541 | 7.9 | 15,483 | 9.9 | **20,091** | **9.3** |
| **Total** | **816** | **100.0** | **57,791** | **100.0** | **156,417** | **100.0** | **215,024** | **100.0** |

**Table 3.6 Day of Week by Class of Collision 1996**

| Day of Occurrence | Class of Collision | | | | | | Total | % |
|---|---|---|---|---|---|---|---|---|
| | | | Personal | | Property | | | |
| | Fatal | % | Injury | % | Damage | % | | |
| Monday | 112 | 13.7 | 7,726 | 13.4 | 21,215 | 13.6 | **29,053** | **13.5** |
| Tuesday | 99 | 12.1 | 8,368 | 14.5 | 23,598 | 15.1 | **32,065** | **14.9** |
| Wednesday | 95 | 11.6 | 8,347 | 14.4 | 22,400 | 14.3 | **30,842** | **14.3** |
| Thursday | 118 | 14.5 | 8,891 | 15.4 | 24,858 | 15.9 | **33,867** | **15.8** |
| Friday | 126 | 15.4 | 9,657 | 16.7 | 26,198 | 16.7 | **35,981** | **16.7** |
| Saturday | 145 | 17.8 | 8,664 | 15.0 | 22,507 | 14.4 | **31,316** | **14.6** |
| Sunday | 121 | 14.8 | 6,138 | 10.6 | 15,641 | 10.0 | **21,900** | **10.2** |
| **Total** | **816** | **100.0** | **57,791** | **100.0** | **156,417** | **100.0** | **215,024** | **100.0** |

**Table 3.7 Hour of Occurrence by Class of Collision 1996**

| Hour of | Class of Collision | | | | | | Total | % |
|---|---|---|---|---|---|---|---|---|
| Occurrence A.M. | | | Personal | | Property | | | |
| | Fatal | % | Injury | % | Damage | % | | |
| 12 to 1 a.m. | 28 | 3.4 | 985 | 1.7 | 2,763 | 1.8 | 3,776 | 1.8 |
| 1 to 2 a.m. | 35 | 4.3 | 1,117 | 1.9 | 2,838 | 1.8 | 3,990 | 1.9 |
| 2 to 3 a.m. | 27 | 3.3 | 1,011 | 1.7 | 2,514 | 1.6 | 3,552 | 1.7 |
| 3 to 4 a.m. | 27 | 3.3 | 644 | 1.1 | 1,778 | 1.1 | 2,449 | 1.1 |
| 4 to 5 a.m. | 16 | 2.0 | 425 | 0.7 | 1,281 | 0.8 | 1,722 | 0.8 |
| 5 to 6 a.m. | 16 | 2.0 | 467 | 0.8 | 1,512 | 1.0 | 1,995 | 0.9 |
| **Sub total** | **149** | **18.3** | **4,649** | **8.0** | **12,686** | **8.1** | **17,484** | **8.1** |
| 6 to 7 a.m. | 21 | 2.6 | 1,090 | 1.9 | 3,310 | 2.1 | 4,421 | 2.1 |
| 7 to 8 a.m. | 33 | 4.0 | 2,155 | 3.7 | 6,218 | 4.0 | 8,406 | 3.9 |
| 8 to 9 a.m. | 25 | 3.1 | 3,413 | 5.9 | 9,565 | 6.1 | 13,003 | 6.0 |
| 9 to 10 a.m. | 32 | 3.9 | 2,454 | 4.2 | 7,192 | 4.6 | 9,678 | 4.5 |
| 10 to 11 a.m. | 38 | 4.7 | 2,486 | 4.3 | 7,407 | 4.7 | 9,931 | 4.6 |
| 11 to 12 noon | 30 | 3.7 | 3,055 | 5.3 | 8,305 | 5.3 | 11,390 | 5.3 |
| **Sub total** | **179** | **21.9** | **14,653** | **25.4** | **41,997** | **26.8** | **56,829** | **26.4** |
| **Hour of** | | | | | | | | |
| **Occurrence P.M.** | | | | | | | | |
| 12 to 1 p.m. | 34 | 4.2 | 3,441 | 6.0 | 8,968 | 5.7 | 12,443 | 5.8 |
| 1 to 2 p.m. | 41 | 5.0 | 3,371 | 5.8 | 8,940 | 5.7 | 12,352 | 5.7 |
| 2 to 3 p.m. | 48 | 5.9 | 3,599 | 6.2 | 9,510 | 6.1 | 13,157 | 6.1 |
| 3 to 4 p.m. | 47 | 5.8 | 4,669 | 8.1 | 11,993 | 7.7 | 16,709 | 7.8 |
| 4 to 5 p.m. | 38 | 4.7 | 4,755 | 8.2 | 12,300 | 7.9 | 17,093 | 7.9 |
| 5 to 6 p.m. | 38 | 4.7 | 4,643 | 8.0 | 12,086 | 7.7 | 16,767 | 7.8 |
| **Sub total** | **246** | **30.1** | **24,478** | **42.4** | **63,797** | **40.8** | **88,521** | **41.2** |
| 6 to 7 p.m. | 44 | 5.4 | 3,745 | 6.5 | 9,612 | 6.1 | 13,401 | 6.2 |
| 7 to 8 p.m. | 43 | 5.3 | 2,802 | 4.8 | 7,177 | 4.6 | 10,022 | 4.7 |
| 8 to 9 p.m. | 37 | 4.5 | 2,065 | 3.6 | 5,647 | 3.6 | 7,749 | 3.6 |
| 9 to 10 p.m. | 41 | 5.0 | 2,060 | 3.6 | 5,424 | 3.5 | 7,525 | 3.5 |
| 10 to 11 p.m. | 34 | 4.2 | 1,696 | 2.9 | 4,470 | 2.9 | 6,200 | 2.9 |
| 11 to 12 midnight | 38 | 4.7 | 1,403 | 2.4 | 4,004 | 2.6 | 5,445 | 2.5 |
| **Sub total** | **237** | **29.0** | **13,771** | **23.8** | **36,334** | **23.2** | **50,342** | **23.4** |
| Unknown | 5 | 0.6 | 240 | 0.4 | 1,603 | 1.0 | 1,848 | 0.9 |
| **Total** | **816** | **100.0** | **57,791** | **100.0** | **156,417** | **100.0** | **215,024** | **100.0** |

**Table 3.8 Statutory Holidays, Holiday Weekends - Fatal Collisions, Persons Killed and Injured 1996**

| Statutory | Number of Fatal | Drivers | | Passengers | | Others | | Total | |
|---|---|---|---|---|---|---|---|---|---|
| Holiday* | Collisions | Killed | Injured | Killed | Injured | Killed | Injured | Killed | Injured |
| Easter Weekend | 7 | 2 | 6 | 4 | 8 | 1 | - | **7** | **14** |
| Victoria Day | 12 | 7 | 8 | 4 | 14 | 1 | - | **12** | **22** |
| Canada Day | 6 | 4 | 4 | 4 | 7 | - | - | **8** | **11** |
| Civic Holiday (Simcoe Day) | 10 | 7 | 8 | 3 | 13 | - | - | **10** | **21** |
| Labour Day | 15 | 9 | 11 | 8 | 12 | 1 | - | **18** | **23** |
| Thanksgiving Day | 15 | 13 | 4 | 3 | 7 | - | - | **16** | **11** |
| Christmas/Boxing Day | 4 | 0 | 6 | 4 | 4 | 1 | - | **5** | **10** |

* Actual length may vary depending on day holiday falls on. If holiday falls on a weekend then holiday includes the entire weekend.

**Table 3.9 Light Condition by Class of Collision 1996**

| Light | Class of Collision | | | | | | Total | % |
|---|---|---|---|---|---|---|---|---|
| Condition | | | Personal | | Property | | | |
| | Fatal | % | Injury | % | Damage | % | | |
| Daylight | 431 | 52.8 | 40,050 | 69.3 | 104,859 | 67.0 | **145,340** | **67.6** |
| Dawn | 13 | 1.6 | 725 | 1.3 | 2,510 | 1.6 | **3,248** | **1.5** |
| Dusk | 24 | 2.9 | 1,947 | 3.4 | 5,560 | 3.6 | **7,531** | **3.5** |
| Darkness | 345 | 42.3 | 15,039 | 26.0 | 43,260 | 27.7 | **58,644** | **27.3** |
| Other | 3 | 0.4 | 30 | 0.1 | 228 | 0.1 | **261** | **0.1** |
| **Total** | **816** | **100.0** | **57,791** | **100.0** | **156,417** | **100.0** | **215,024** | **100.0** |

**Table 3.10 Visibility by Class of Collision 1996**

| Visibility | Class of Collision | | | | | | Total | % |
|---|---|---|---|---|---|---|---|---|
| | | | Personal | | Property | | | |
| | Fatal | % | Injury | % | Damage | % | | |
| Clear | 644 | 78.9 | 42,910 | 74.3 | 111,139 | 71.1 | **154,693** | **71.9** |
| Rain | 71 | 8.7 | 8,644 | 15.0 | 21,994 | 14.1 | **30,709** | **14.3** |
| Snow | 60 | 7.4 | 4,329 | 7.5 | 16,915 | 10.8 | **21,304** | **9.9** |
| Freezing Rain | 10 | 1.2 | 560 | 1.0 | 2,052 | 1.3 | **2,622** | **1.2** |
| Drifting Snow | 10 | 1.2 | 417 | 0.7 | 1,463 | 0.9 | **1,890** | **0.9** |
| Strong Wind | 3 | 0.4 | 163 | 0.3 | 546 | 0.3 | **712** | **0.3** |
| Fog, Mist, Smoke, or Dust | 14 | 1.7 | 641 | 1.1 | 1,832 | 1.2 | **2,487** | **1.2** |
| Other | 4 | 0.5 | 127 | 0.2 | 476 | 0.3 | **607** | **0.3** |
| **Total** | **816** | **100.0** | **57,791** | **100.0** | **156,417** | **100.0** | **215,024** | **100.0** |

## 3c. The Collision Location

**Table 3.11 Road Jurisdiction by Class of Collision 1996**

| Road Jurisdiction | Class of Collision | | | Total |
|---|---|---|---|---|
| | | Personal | Property | |
| | Fatal | Injury | Damage | |
| Municipal (Excl. Twp. Rd.) | 189 | 31,396 | 81,395 | **112,980** |
| Provincial Highway | 341 | 12,203 | 34,323 | **46,867** |
| Township | 75 | 2,229 | 6,932 | **9,236** |
| County or District | 88 | 2,205 | 6,088 | **8,381** |
| Regional Municipality | 118 | 9,569 | 27,051 | **36,738** |
| Federal | 4 | 152 | 506 | **662** |
| Other | 1 | 37 | 122 | **160** |
| **Total** | **816** | **57,791** | **156,417** | **215,024** |

**Table 3.12 Road Jurisdiction for All Collisions 1987-1996**

| Road | Year | | | | | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Jurisdiction** | **1987** | **1988** | **1989** | **1990** | **1991** | **1992** | **1993** | **1994** | **1995** | **1996** | |
| Municipal | 135,949 | 159,228 | 139,926 | 117,218 | 112,651 | 117,800 | 119,421 | 117,478 | 114,848 | 112,980 | **1,247,499** |
| Provincial | 40,825 | 44,772 | 48,944 | 43,513 | 44,234 | 46,537 | 48,275 | 48,895 | 46,365 | 46,867 | **459,227** |
| Township | 10,460 | 12,277 | 11,882 | 10,684 | 10,332 | 10,777 | 10,667 | 10,497 | 9,774 | 9,236 | **106,586** |
| County or District | 7,024 | 7,527 | 8,773 | 8,582 | 8,482 | 9,186 | 9,076 | 8,839 | 8,815 | 8,381 | **84,685** |
| Regional Municipality* | 7,863 | 3,620 | 36,237 | 39,004 | 36,956 | 38,810 | 40,230 | 40,165 | 38,279 | 36,738 | **317,902** |
| Federal** | - | 748 | 940 | 913 | 769 | 899 | 863 | 825 | 753 | 662 | **7,372** |
| Other | 1,310 | 226 | 336 | 274 | 245 | 240 | 302 | 297 | 251 | 160 | **3,641** |
| **Total** | **203,431** | **228,398** | **247,038** | **220,188** | **213,669** | **224,249** | **228,834** | **226,996** | **219,085** | **215,024** | **2,226,912** |

* Some collisions occurring on regional municipal roads were recorded as occurring on municipal roads prior to 1989.

** Since January 1, 1988 the Motor Vehicle Accident Report form allows recording of jurisdiction for federal roads.

**Table 3.13** **Road Location by Class of Collision 1996**

| Road Location | Class of Collision | | | | | | Total | % |
|---|---|---|---|---|---|---|---|---|
| | | | Personal | | Property | | | |
| | Fatal | % | Injury | % | Damage | % | | |
| Non-intersection | 505 | 61.9 | 20,994 | 36.3 | 63,907 | 40.9 | **85,406** | **39.7** |
| Intersection Related | 74 | 9.1 | 12,047 | 20.8 | 31,647 | 20.2 | **43,768** | **20.4** |
| In Intersection | 153 | 18.8 | 17,449 | 30.2 | 34,343 | 22.0 | **51,945** | **24.2** |
| At/Near Private Drive | 54 | 6.6 | 6,574 | 11.4 | 24,464 | 15.6 | **31,092** | **14.5** |
| At Railway | 10 | 1.2 | 97 | 0.2 | 282 | 0.2 | **389** | **0.2** |
| Underpass or Tunnel | 3 | 0.4 | 88 | 0.2 | 308 | 0.2 | **399** | **0.2** |
| Overpass or Bridge | 10 | 1.2 | 417 | 0.7 | 1,156 | 0.7 | **1,583** | **0.7** |
| Other | 7 | 0.9 | 125 | 0.2 | 310 | 0.2 | **442** | **0.2** |
| **Total** | **816** | **100.0** | **57,791** | **100.0** | **156,417** | **100.0** | **215,024** | **100.0** |

**Table 3.14** **Road Surface Condition by Class of Collision 1996**

| Road Surface Condition | Class of Collision | | | | | | Total | % |
|---|---|---|---|---|---|---|---|---|
| | | | Personal | | Property | | | |
| | Fatal | % | Injury | % | Damage | % | | |
| Dry | 522 | 64.0 | 35,708 | 61.8 | 88,028 | 56.3 | **124,258** | **57.8** |
| Wet | 154 | 18.9 | 14,293 | 24.7 | 36,755 | 23.5 | **51,202** | **23.8** |
| Loose Snow | 23 | 2.8 | 1,659 | 2.9 | 7,258 | 4.6 | **8,940** | **4.2** |
| Slush | 24 | 2.9 | 1,201 | 2.1 | 4,179 | 2.7 | **5,404** | **2.5** |
| Packed Snow | 21 | 2.6 | 1,214 | 2.1 | 6,089 | 3.9 | **7,324** | **3.4** |
| Ice | 57 | 7.0 | 3,249 | 5.6 | 12,819 | 8.2 | **16,125** | **7.5** |
| Mud | - | - | 15 | - | 69 | - | **84** | **-** |
| Loose Sand or Gravel | 7 | 0.9 | 283 | 0.5 | 652 | 0.4 | **942** | **0.4** |
| Spilled Liquid | 1 | 0.1 | 12 | - | 31 | - | **44** | **-** |
| Other | 7 | 0.9 | 157 | 0.3 | 537 | 0.3 | **701** | **0.3** |
| **Total** | **816** | **100.0** | **57,791** | **100.0** | **156,417** | **100.0** | **215,024** | **100.0** |

## 4 Place of Collision in Ontario

# 4. Place of Collision in Ontario

**Table 4.1**

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| **ONTARIO** | | **10,303,529** | **215,024** | **816** | **57,791** | **156,417** | **929** | **88,445** | **6,462,849** |
| BLIND RIVER, T | | 3,911 | 28 | - | 8 | 20 | - | 13 | |
| ELLIOT LAKE, C | M | 12,387 | 89 | - | 15 | 74 | - | 19 | |
| SAULT STE MARIE, C | M | 81,476 | 1,722 | - | 356 | 1,366 | - | 539 | |
| THESSALON, T | | 1,371 | 11 | - | 1 | 10 | - | 1 | |
| PROVINCIAL HIGHWAY | | - | 735 | 9 | 194 | 532 | 9 | 303 | |
| OTHER AREAS | | 13,964 | 251 | 2 | 43 | 206 | 2 | 74 | |
| **ALGOMA** | | **118,913** | **2,836** | **11** | **617** | **2,208** | **11** | **949** | **89,932** |
| BRANTFORD, C | M | 81,074 | 1,615 | 3 | 339 | 1,273 | 3 | 480 | |
| BRANTFORD, TP | | 6,241 | 7 | - | 1 | 6 | - | 3 | |
| PARIS, T | M | 8,552 | 58 | - | 6 | 52 | - | 7 | |
| PROVINCIAL HIGHWAY | | - | 430 | 5 | 114 | 311 | 5 | 205 | |
| OTHER AREAS | | 1,336 | 298 | 4 | 89 | 205 | 4 | 141 | |
| **BRANT** | | **109,645** | **2,408** | **12** | **549** | **1,847** | **12** | **836** | **73,420** |
| AMABEL, TP | | 3,577 | 4 | - | - | 4 | - | - | |
| BRANT, TP | | 3,267 | 2 | - | 1 | 1 | - | 2 | |
| CARRICK, TP | | 2,373 | 1 | - | - | 1 | - | - | |
| CHESLEY, T | | 1,815 | 11 | - | 2 | 9 | - | 2 | |
| KINCARDINE, T | M | 6,318 | 81 | - | 17 | 64 | - | 22 | |
| PORT ELGIN, T | M | 6,772 | 65 | - | 14 | 51 | - | 21 | |
| SOUTHHAMPTON, T | M | 3,118 | 29 | - | 6 | 23 | - | 9 | |
| WALKERTON, T | M | 4,735 | 54 | - | 22 | 32 | - | 26 | |
| WIARTON, T | | 2,350 | 17 | - | 3 | 14 | - | 5 | |
| PROVINCIAL HIGHWAY | | - | 272 | 2 | 58 | 212 | 2 | 98 | |
| OTHER AREAS | | 13,131 | 571 | 6 | 136 | 429 | 7 | 246 | |
| **BRUCE** | | **61,763** | **1,107** | **8** | **259** | **840** | **9** | **431** | **48,868** |

**Legend**

**T** town
**C** city
**VL** village
**TP** township

**Other Areas -** Jurisdictions with less than 1,500 population

**M** Muncipal Police Force

* Source: Ontario Ministry of Municipal Affairs Municipal Directory 1994.
Population data in this table refers to persons residing in a municipality on a permanent basis.

**Table 4.1** **Continued**

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| COCHRANE, T | | 4,357 | 50 | - | 10 | 40 | - | 15 | |
| HEARST, T | | 5,529 | 71 | - | 11 | 60 | - | 12 | |
| IROQUOIS FALLS, T | | 5,581 | 58 | 1 | 12 | 45 | 1 | 15 | |
| KAPUSKASING, T | M | 9,658 | 134 | - | 34 | 100 | - | 45 | |
| SMOOTH ROCK FALLS, T | | 1,877 | 12 | - | 3 | 9 | - | 3 | |
| TIMMINS, C | M | 45,816 | 675 | 1 | 191 | 483 | 1 | 274 | |
| PROVINCIAL HIGHWAY | | - | 643 | 10 | 175 | 458 | 11 | 274 | |
| OTHER AREAS | | 5,311 | 181 | 1 | 60 | 120 | 1 | 83 | |
| **COCHRANE** | | **83,507** | **1,824** | **13** | **496** | **1,315** | **14** | **721** | **66,801** |
| AMARANTH, TP | | 3,247 | 2 | - | - | 2 | - | - | |
| EAST GARAFRAXA, TP | | 2,037 | 3 | - | - | 3 | - | - | |
| MELANCTHON, TP | | 2,286 | 3 | - | - | 3 | - | - | |
| MONO, TP | | 5,980 | 3 | - | 1 | 2 | - | 2 | |
| MULMUR, TP | | 2,509 | 3 | - | 2 | 1 | - | 2 | |
| ORANGEVILLE, T | M | 21,373 | 276 | - | 29 | 247 | - | 40 | |
| SHELBURNE, T | M | 3,450 | 31 | - | 1 | 30 | - | 1 | |
| PROVINCIAL HIGHWAY | | - | 311 | 5 | 76 | 230 | 5 | 174 | |
| OTHER AREAS | | - | 362 | 3 | 86 | 273 | 4 | 142 | |
| **DUFFERIN** | | **43,419** | **994** | **8** | **195** | **791** | **9** | **361** | **31,131** |
| MORRISBURG, VL | | 2,362 | 13 | - | 1 | 12 | - | 1 | |
| MOUNTAIN, TP | | 3,319 | 1 | - | - | 1 | - | - | |
| WILLIAMSBURGH, TP | | 3,335 | 2 | - | - | 2 | - | - | |
| WINCHESTER, TP | | 3,445 | 14 | - | - | 14 | - | - | |
| WINCHESTER, VL | | 2,275 | 2 | - | - | 2 | - | - | |
| PROVINCIAL HIGHWAY | | - | 178 | 1 | 41 | 136 | 1 | 87 | **(Veh. Reg.** |
| OTHER AREAS | | 1,206 | 171 | 1 | 33 | 137 | 2 | 48 | **included in** |
| **DUNDAS** | | **20,870** | **381** | **2** | **75** | **304** | **3** | **136** | **Stormont)** |
| AJAX, T | | 58,854 | 540 | - | 153 | 387 | - | 233 | |
| BROCK, TP | | 10,991 | 93 | 1 | 19 | 73 | 1 | 24 | |
| CLARINGTON | | 61,305 | 23 | 1 | 4 | 18 | 1 | 5 | |
| OSHAWA, C | | 133,500 | 2,119 | 7 | 528 | 1,584 | 8 | 794 | |
| PICKERING, T | | 70,733 | 753 | 3 | 176 | 574 | 5 | 280 | |
| SCUGOG, TP | | 17,880 | 159 | - | 45 | 114 | - | 74 | |
| UXBRIDGE, TP | | 14,672 | 207 | 2 | 60 | 145 | 2 | 107 | |
| WHITBY, T | | 67,325 | 949 | 2 | 267 | 680 | 2 | 407 | |
| PROVINCIAL HIGHWAY | | - | 2,115 | 14 | 579 | 1,522 | 16 | 940 | |
| OTHER AREAS | | - | 942 | 3 | 234 | 705 | 3 | 336 | |
| **DURHAM** | | **435,260** | **7,900** | **33** | **2,065** | **5,802** | **38** | **3,200** | **278,743** |
| ALDBOROUGH, TP | | 3,772 | 5 | - | 1 | 4 | - | 1 | |
| AYLMER, T | M | 6,275 | 80 | - | 10 | 70 | - | 14 | |
| BAYHAM, TP | | 4,152 | 3 | - | 1 | 2 | - | 1 | |
| DUNWICH, TP | | 2,279 | 1 | - | 1 | - | - | 1 | |
| MALAHIDE, TP | | 5,671 | 6 | - | 1 | 5 | - | 1 | |
| PORT STANLEY, VL | | 2,183 | 21 | - | 2 | 19 | - | 2 | |
| SOUTHWOLD, TP | | 4,431 | 2 | - | - | 2 | - | - | |

**Table 4.1** **Continued**

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| ST THOMAS, C | M | 29,758 | 384 | - | 107 | 277 | - | 149 | |
| YARMOUTH, TP | | 7,994 | 7 | - | 2 | 5 | - | 3 | |
| PROVINCIAL HIGHWAY | | - | 431 | 6 | 149 | 276 | 6 | 243 | |
| OTHER AREAS | | 6,033 | 367 | 4 | 101 | 262 | 4 | 158 | |
| **ELGIN** | | **74,354** | **1,307** | **10** | **375** | **922** | **10** | **573** | **57,326** |
| AMHERSTBURG, T | M | 9,905 | 74 | - | 13 | 61 | - | 22 | |
| ANDERDON, TP | M | 5,725 | 12 | - | 4 | 8 | - | 5 | |
| BELLE RIVER, T | | 4,353 | 20 | - | 8 | 12 | - | 9 | |
| COLCHESTER SOUTH, TP | M | 5,625 | 4 | - | - | 4 | - | - | |
| ESSEX, T | M | 6,745 | 67 | - | 11 | 56 | - | 19 | |
| GOSFIELD NORTH, TP | | 4,765 | 4 | - | 2 | 2 | - | 2 | |
| GOSFIELD SOUTH, TP | | 7,604 | 4 | - | - | 4 | - | - | |
| HARROW, T | | 2,656 | 24 | - | 3 | 21 | - | 3 | |
| KINGSVILLE, T | M | 5,841 | 52 | - | 17 | 35 | - | 21 | |
| LEAMINGTON, T | M | 14,982 | 297 | - | 50 | 247 | - | 56 | |
| MAIDSTONE, TP | | 10,764 | 7 | - | 3 | 4 | - | 3 | |
| MALDEN, TP | | 3,220 | 3 | - | - | 3 | - | - | |
| MERSEA, TP | M | 8,787 | 7 | - | - | 7 | - | - | |
| ROCHESTER, TP | | 4,465 | 1 | - | 1 | - | - | 1 | |
| SANDWICH SOUTH, TP | | 6,475 | 6 | - | 5 | 1 | - | 5 | |
| ST CLAIR BEACH, VL | M | 3,669 | 15 | - | 2 | 13 | - | 2 | |
| TECUMSEH, T | | 11,913 | 102 | - | 27 | 75 | - | 37 | |
| WINDSOR, C | M | 195,627 | 3,217 | 3 | 1,030 | 2,184 | 4 | 1,475 | |
| PROVINCIAL HIGHWAY | | - | 643 | 13 | 176 | 454 | 18 | 304 | |
| OTHER AREAS | | 275 | 1,037 | 14 | 291 | 732 | 14 | 433 | |
| **ESSEX** | | **341,208** | **5,596** | **30** | **1,643** | **3,923** | **36** | **2,397** | **220,205** |
| KINGSTON, C | M | 59,624 | 1,106 | 2 | 292 | 812 | 2 | 413 | |
| KINGSTON, TP | | 39,679 | 19 | - | 7 | 12 | - | 12 | |
| LOUGHBOROUGH, TP | | 4,436 | 1 | - | - | 1 | - | - | |
| PITTSBURGH, TP | | 10,675 | 3 | - | - | 3 | - | - | |
| PORTLAND, TP | | 4,529 | 1 | - | - | 1 | - | - | |
| PROVINCIAL HIGHWAY | | - | 463 | 6 | 126 | 331 | 6 | 225 | |
| OTHER AREAS | | 7,866 | 912 | 5 | 227 | 680 | 6 | 377 | |
| **FRONTENAC** | | **130,723** | **2,505** | **13** | **652** | **1,840** | **14** | **1,027** | **83,005** |
| ALEXANDRIA, T | M | 3,272 | 40 | 1 | 8 | 31 | 1 | 12 | |
| CHARLOTTENBURGH, TP | | 7,670 | 1 | - | - | 1 | - | - | |
| KENYON, TP | | 3,336 | 1 | - | - | 1 | - | - | |
| LANCASTER, TP | | 3,684 | 6 | - | - | 6 | - | - | |
| LOCHIEL, TP | | 2,921 | 1 | - | - | 1 | - | - | |
| PROVINCIAL HIGHWAY | | - | 233 | 2 | 71 | 160 | 2 | 115 | **(Veh. Reg.** |
| OTHER AREAS | | 1,580 | 176 | 4 | 53 | 119 | 4 | 80 | **included in** |
| **GLENGARRY** | | **22,463** | **458** | **7** | **132** | **319** | **7** | **207** | **Stormont)** |
| AUGUSTA, TP | | 7,285 | 13 | - | 1 | 12 | - | 1 | |
| CARDINAL, VL | M | 1,580 | 1 | - | - | 1 | - | - | |
| EDWARDSBURG, TP | | 4,566 | 9 | - | 2 | 7 | - | 4 | |

**Table 4.1** **Continued**

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| KEMPTVILLE, T | M | 2,721 | 19 | 1 | 8 | 10 | 1 | 10 | |
| OXFORD ON RIDEAU, TP | | 6,333 | 8 | - | - | 8 | - | - | |
| PRESCOTT, T | M | 3,999 | 50 | - | 17 | 33 | - | 24 | |
| SOUTH GOWER, TP | | 2,280 | 1 | - | - | 1 | - | - | |
| PROVINCIAL HIGHWAY | | - | 328 | 4 | 77 | 247 | 9 | 153 | (Veh. Reg. |
| OTHER AREAS | | 2,450 | 310 | - | 57 | 253 | - | 96 | included in |
| **GRENVILLE** | | **31,214** | **739** | **5** | **162** | **572** | **10** | **288** | Leeds) |
| BENTICK, TP | | 3,396 | 1 | - | 1 | - | - | 2 | |
| COLLINGWOOD, TP | | 3,390 | 1 | - | - | 1 | - | - | |
| DURHAM, T | M | 2,546 | 25 | - | 4 | 21 | - | 5 | |
| EGREMONT, TP | | 2,391 | 5 | - | 3 | 2 | - | 6 | |
| HANOVER, T | M | 6,710 | 91 | - | 24 | 67 | - | 36 | |
| KEPPEL, TP | | 3,751 | 2 | - | - | 2 | - | - | |
| MEAFORD, T | M | 4,330 | 27 | - | 6 | 21 | - | 8 | |
| NORMANBY, TP | | 2,550 | 4 | - | 1 | 3 | - | 1 | |
| OSPREY, TP | | 1,996 | 2 | - | 2 | - | - | 3 | |
| OWEN SOUND, C | M | 20,399 | 298 | - | 86 | 212 | - | 122 | |
| PROTON, TP | | 1,783 | 2 | - | - | 2 | - | - | |
| ST VINCENT, TP | | 2,296 | 1 | - | - | 1 | - | - | |
| SULLIVAN, TP | | 2,655 | 2 | - | 1 | 1 | - | 1 | |
| SYDENHAM, TP | | 2,997 | 1 | - | - | 1 | - | - | |
| THORNBURY, T | M | 1,647 | 10 | - | - | 10 | - | - | |
| PROVINCIAL HIGHWAY | | - | 475 | 2 | 150 | 323 | 2 | 275 | |
| OTHER AREAS | | 4,662 | 745 | 7 | 158 | 580 | 8 | 245 | |
| **GREY** | | **81,960** | **1,692** | **9** | **436** | **1,247** | **10** | **704** | **55,282** |
| DELHI, TP | | 15,134 | 127 | 1 | 37 | 89 | 1 | 64 | |
| DUNNVILLE, T | | 11,908 | 120 | 1 | 25 | 94 | 1 | 33 | |
| HALDIMAND, T | | 20,824 | 81 | 2 | 15 | 64 | 2 | 23 | |
| NANTICOKE, C | | 22,401 | 213 | 2 | 58 | 153 | 3 | 92 | |
| NORFOLK, TP | | 11,096 | 67 | - | 19 | 48 | - | 33 | |
| SIMCOE, T | | 15,538 | 277 | - | 67 | 210 | - | 92 | |
| PROVINCIAL HIGHWAY | | - | 359 | 8 | 122 | 229 | 9 | 225 | |
| OTHER AREAS | | - | 392 | 2 | 100 | 290 | 4 | 146 | |
| **HALDIMAND-NORFOLK** | | **96,901** | **1,636** | **16** | **443** | **1,177** | **20** | **708** | **76,011** |
| ANSON, HINDON & MINDEN, TP | | 3,160 | 6 | - | 1 | 5 | - | 2 | |
| DYSART ET AL, TP | | 4,702 | 7 | - | 2 | 5 | - | 3 | |
| PROVINCIAL HIGHWAY | | - | 255 | 2 | 61 | 192 | 2 | 97 | |
| OTHER AREAS | | 6,033 | 166 | 1 | 35 | 130 | 1 | 56 | |
| **HALIBURTON** | | **13,895** | **434** | **3** | **99** | **332** | **3** | **158** | **11,950** |
| BURLINGTON, C | | 128,453 | 1,434 | 4 | 393 | 1,037 | 4 | 580 | |
| HALTON HILLS, T | | 40,173 | 519 | 1 | 107 | 411 | 1 | 169 | |
| MILTON, T | | 30,278 | 604 | 7 | 152 | 445 | 8 | 242 | |
| OAKVILLE, T | | 118,063 | 1,171 | 6 | 262 | 903 | 6 | 378 | |
| PROVINCIAL HIGHWAY | | - | 1,900 | 6 | 455 | 1,439 | 6 | 730 | |
| OTHER AREAS | | - | 71 | 1 | 11 | 59 | 1 | 14 | |
| **HALTON** | | **316,967** | **5,699** | **25** | **1,380** | **4,294** | **26** | **2,113** | **221,774** |

**Table 4.1** Continued

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| BANCROFT, T | | 2,340 | 64 | - | 11 | 53 | - | 16 | |
| BELLEVILLE, C | M | 34,954 | 776 | 1 | 176 | 599 | 1 | 249 | |
| DESERONTO, T | M | 1,728 | 11 | - | 3 | 8 | - | 4 | |
| FRANKFORD, VL | | 2,012 | 7 | - | 2 | 5 | - | 4 | |
| HUNGERFORD, TP | | 3,024 | 2 | - | - | 2 | - | - | |
| HUNTINGDON, TP | | 2,216 | 1 | - | - | 1 | - | - | |
| MADOC, TP | | 1,831 | 2 | - | - | 2 | - | - | |
| SIDNEY, TP | | 15,926 | 11 | - | 1 | 10 | - | 1 | |
| STIRLING, VL | M | 1,998 | 13 | 1 | 2 | 10 | 1 | 7 | |
| THURLOW, TP | | 7,327 | 6 | - | 1 | 5 | - | 1 | |
| TRENTON, C | M | 16,908 | 280 | 1 | 59 | 220 | 1 | 87 | |
| PROVINCIAL HIGHWAY | | - | 686 | 7 | 191 | 488 | 8 | 322 | |
| OTHER AREAS | | 13,530 | 706 | 4 | 153 | 549 | 5 | 235 | |
| **HASTINGS** | | **111,667** | **2,565** | **14** | **599** | **1,952** | **16** | **926** | **88,046** |
| ASHFIELD, TP | | 1,849 | 1 | - | - | 1 | - | - | |
| CLINTON, T | M | 3,183 | 44 | - | 7 | 37 | - | 11 | |
| EXETER, T | M | 4,384 | 64 | - | 21 | 43 | - | 40 | |
| GODERICH, T | M | 7,500 | 93 | - | 17 | 76 | - | 23 | |
| GODERICH, TP | | 2,607 | 3 | - | - | 3 | - | - | |
| GREY, TP | | 2,036 | 1 | - | 1 | - | - | 4 | |
| HAY, TP | | 2,184 | 1 | - | 1 | - | - | 3 | |
| SEAFORTH, T | M | 2,316 | 19 | - | 2 | 17 | - | 4 | |
| STEPHEN, TP | | 4,182 | 1 | - | - | 1 | - | - | |
| TUCKERSMITH, TP | | 3,036 | 1 | - | - | 1 | - | - | |
| TURNBERRY, TP | | 1,739 | 1 | - | 1 | - | - | 2 | |
| WINGHAM, T | M | 2,921 | 39 | - | 7 | 32 | - | 9 | |
| PROVINCIAL HIGHWAY | | - | 391 | 3 | 104 | 284 | 4 | 184 | |
| OTHER AREAS | | 9,010 | 427 | 6 | 90 | 331 | 9 | 147 | |
| **HURON** | | **59,279** | **1,086** | **9** | **251** | **826** | **13** | **427** | **40,092** |
| DRYDEN, T | M | 6,300 | 115 | - | 15 | 100 | - | 19 | |
| IGNACE, TP | | 1,770 | 5 | - | 2 | 3 | - | 3 | |
| JAFFRAY MELICK, T | | 4,012 | 11 | - | 3 | 8 | - | 3 | |
| KEEWATIN, T | | 1,994 | 17 | - | 4 | 13 | - | 9 | |
| KENORA, T | M | 9,715 | 252 | - | 42 | 210 | - | 65 | |
| RED LAKE, TP | | 2,061 | 5 | - | 1 | 4 | - | 1 | |
| SIOUX LOOKOUT, T | | 3,400 | 66 | 1 | 10 | 55 | 1 | 12 | |
| PROVINCIAL HIGHWAY | | - | 720 | 6 | 146 | 568 | 6 | 256 | |
| OTHER AREAS | | 4,399 | 251 | 2 | 53 | 196 | 2 | 86 | |
| **KENORA** | | **35,834** | **1,442** | **9** | **276** | **1,157** | **9** | **454** | **38,984** |
| BLENHEIM, T | | 4,567 | 51 | - | 10 | 41 | - | 11 | |
| CAMDEN, TP | | 2,067 | 1 | - | - | 1 | - | - | |
| CHATHAM, C | M | 43,555 | 799 | 2 | 231 | 566 | 3 | 304 | |
| CHATHAM, TP | | 6,059 | 2 | - | - | 2 | - | - | |
| DOVER, TP | | 3,973 | 2 | - | - | 2 | - | - | |
| DRESDEN, T | M | 2,492 | 23 | - | 4 | 19 | - | 5 | |

**Table 4.1** Continued

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| HARWICH, TP | | 6,116 | 7 | - | 3 | 4 | - | 4 | |
| HOWARD, TP | | 2,249 | 1 | - | - | 1 | - | - | |
| RALEIGH, TP | | 5,209 | 2 | - | 1 | 1 | - | 2 | |
| RIDGETOWN, T | | 3,234 | 27 | - | 5 | 22 | - | 6 | |
| ROMNEY, TP | | 1,946 | 1 | - | - | 1 | - | - | |
| TILBURY EAST, TP | | 2,282 | 48 | - | 10 | 38 | - | 14 | |
| TILBURY, T | M | 4,254 | 3 | - | 1 | 2 | - | 1 | |
| WALLACEBURG, T | M | 10,992 | 122 | 1 | 22 | 99 | 1 | 37 | |
| WHEATLEY, VL | | 1,557 | 13 | - | 1 | 12 | - | 1 | |
| PROVINCIAL HIGHWAY | | - | 402 | 6 | 126 | 270 | 6 | 219 | |
| OTHER AREAS | | 5,243 | 444 | 6 | 157 | 281 | 7 | 233 | |
| **KENT** | | **105,795** | **1,948** | **15** | **571** | **1,362** | **17** | **837** | **78,737** |
| BOSANQUET, TP | | 4,899 | 24 | - | 4 | 20 | - | 5 | |
| BROOKE, TP | | 1,877 | 3 | - | - | 3 | - | - | |
| DAWN, TP | | 1,503 | 1 | - | - | 1 | - | - | |
| ENNISKILLEN, TP | | 3,159 | 4 | - | - | 4 | - | - | |
| FOREST, T | | 2,795 | 30 | - | 3 | 27 | - | 4 | |
| MOORE, TP | | 10,684 | 2 | - | 1 | 1 | - | 1 | |
| PETROLIA, T | M | 4,809 | 47 | - | 6 | 41 | - | 7 | |
| PLYMPTON, TP | | 5,116 | 1 | - | - | 1 | - | - | |
| POINT EDWARD, VL | M | 2,277 | 20 | - | 10 | 10 | - | 15 | |
| SARNIA, C | M | 69,657 | 1,124 | 2 | 223 | 899 | 2 | 337 | |
| SOMBRA, TP | | 4,081 | 1 | - | - | 1 | - | - | |
| WARWICK, TP | | 2,446 | 3 | - | - | 3 | - | - | |
| WYOMING, VL | | 2,077 | 8 | - | 2 | 6 | - | 2 | |
| PROVINCIAL HIGHWAY | | - | 362 | 5 | 100 | 257 | 5 | 179 | |
| OTHER AREAS | | 5,060 | 442 | 4 | 124 | 314 | 4 | 192 | |
| **LAMBTON** | | **122,140** | **2,072** | **11** | **473** | **1,588** | **11** | **742** | **87,126** |
| ALMONTE, T | | 4,352 | 33 | - | 8 | 25 | - | 8 | |
| CARLETON PLACE, T | M | 7,483 | 83 | - | 16 | 67 | - | 22 | |
| MONTAGUE, TP | | 3,557 | 2 | - | - | 2 | - | - | |
| PAKENHAM, TP | | 1,872 | 3 | - | 1 | 2 | - | 1 | |
| PERTH, T | M | 5,524 | 133 | - | 33 | 100 | - | 54 | |
| RAMSAY, TP | | 4,011 | 1 | - | - | 1 | - | - | |
| SMITHS FALLS, T | M | 9,001 | 190 | - | 25 | 165 | - | 35 | |
| PROVINCIAL HIGHWAY | | - | 327 | 8 | 85 | 234 | 11 | 148 | |
| OTHER AREAS | | 4,513 | 412 | 3 | 87 | 322 | 3 | 139 | |
| **LANARK** | | **55,284** | **1,184** | **11** | **255** | **918** | **14** | **407** | **40,171** |
| BROCKVILLE, C | M | 21,103 | 404 | 2 | 74 | 328 | 2 | 115 | |
| ELIZABETHTOWN, TP | | 7,497 | 5 | - | 1 | 4 | - | 1 | |
| F LEEDS & LANSDOWNE, TP | | 4,798 | 9 | 1 | 1 | 7 | 1 | 6 | |
| FRONT OF YONGE, TP | | 2,337 | 6 | - | 5 | 1 | - | 8 | |
| GANANOQUE, T | M | 4,973 | 72 | - | 12 | 60 | - | 20 | |
| KITLEY, TP | | 2,236 | 1 | - | - | 1 | - | - | |
| R LEEDS & LANSDOWNE, TP | | 2,689 | 2 | - | - | 2 | - | - | |

**Table 4.1** **Continued**

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| REAR OF YONGE & ESCOTT, TP | | 1,883 | 8 | - | - | 8 | - | - | |
| SOUTH CROSBY, TP | | 1,771 | 1 | - | - | 1 | - | - | |
| SOUTH ELMSLEY, TP | | 3,312 | 2 | - | 1 | 1 | - | 3 | **(Veh. Reg.** |
| PROVINCIAL HIGHWAY | | - | 450 | 3 | 148 | 299 | 3 | **239** | **includes** |
| OTHER AREAS | | 4,056 | 354 | 1 | 99 | 254 | 1 | 164 | **Grenville)** |
| **LEEDS** | | **59,163** | **1,314** | **7** | **341** | **966** | **7** | **556** | **65,938** |
| ERNESTOWN, TP | | 12,177 | 7 | - | 3 | 4 | - | 6 | |
| N FREDERICKSBURGH, TP | | 3,095 | 2 | - | 1 | 1 | - | 2 | |
| NAPANEE, T | | 4,955 | 136 | - | 29 | 107 | - | 44 | |
| PROVINCIAL HIGHWAY | | - | 404 | 3 | 124 | 277 | 3 | 220 | |
| OTHER AREAS | | 7,749 | 315 | 1 | 75 | 239 | 1 | 124 | |
| **LENNOX & ADDINGTON** | | **36,323** | **864** | **4** | **232** | **628** | **4** | **396** | **23,567** |
| PROVINCIAL HIGHWAY | | - | 150 | 2 | 37 | 111 | 2 | 54 | |
| OTHER AREAS | | 7,069 | 121 | 3 | 29 | 89 | 4 | 43 | |
| **MANITOULIN** | | **7,069** | **271** | **5** | **66** | **200** | **6** | **97** | **9,495** |
| ADELAIDE, TP | | 2,000 | 3 | - | 1 | 2 | - | 1 | |
| BIDDULPH, TP | | 2,194 | 5 | - | 4 | 1 | - | 5 | |
| CARADOC, TP | | 6,117 | 5 | - | 1 | 4 | - | 1 | |
| DELAWARE, TP | | 2,465 | 2 | - | - | 2 | - | - | |
| EKFRID, TP | | 2,202 | 2 | - | - | 2 | - | - | |
| GLENCOE, VL | | 2,054 | 19 | - | 5 | 14 | - | 7 | |
| LOBO, TP | | 5,464 | 1 | - | - | 1 | - | - | |
| LONDON, C | M | 325,437 | 6,175 | 20 | 1,891 | 4,264 | 23 | 2,800 | |
| LONDON, TP | | 4,741 | 8 | - | 1 | 7 | - | 1 | |
| LUCAN, VL | | 1,950 | 7 | - | 4 | 3 | - | 5 | |
| MCGILLIVRAY, TP | | 1,843 | 2 | - | 1 | 1 | - | 1 | |
| NORTH DORCHESTER, TP | | 8,144 | 7 | - | - | 7 | - | - | |
| STRATHROY, T | M | 10,981 | 5 | - | 1 | 4 | - | 3 | |
| WEST NISSOURI, TP | | 3,524 | 96 | 1 | 26 | 69 | 1 | 46 | |
| PROVINCIAL HIGHWAY | | - | 858 | 10 | 226 | 622 | 12 | 389 | |
| OTHER AREAS | | 6,331 | 705 | 11 | 202 | 492 | 13 | 318 | |
| **MIDDLESEX** | | **387,124** | **7,900** | **42** | **2,363** | **5,495** | **49** | **3,577** | **240,621** |
| GEORGIAN BAY, TP | | 2,074 | 147 | - | 33 | 114 | - | 43 | |
| GRAVENHURST, T | | 8,941 | 93 | - | 21 | 72 | - | 31 | |
| HUNTSVILLE, T | | 18,000 | 117 | - | 23 | 94 | - | 32 | |
| LAKE OF BAYS, TP | | 2,588 | 2 | - | 1 | 1 | - | 1 | |
| MUSKOKA LAKES, TP | | 5,715 | 29 | - | 5 | 24 | - | 7 | |
| PROVINCIAL HIGHWAY | | - | 689 | 7 | 171 | 511 | 7 | 292 | |
| OTHER AREAS | | - | 317 | - | 57 | 260 | - | 84 | |
| **MUSKOKA** | | **51,418** | **1,394** | **7** | **311** | **1,076** | **7** | **490** | **37,580** |
| FORT ERIE, T | | 26,221 | 369 | 3 | 94 | 272 | 3 | 141 | |
| GRIMSBY, T | | 18,925 | 210 | 1 | 49 | 160 | 1 | 78 | |
| LINCOLN, T | | 19,000 | 213 | - | 55 | 158 | - | 88 | |
| NIAGARA FALLS, C | | 76,895 | 1,465 | 6 | 348 | 1,111 | 6 | 525 | |

**Table 4.1** Continued

| Location | | Estimated Population (1994)* | Class of Collsion Total Collisions | Fatal | Personal Injury | Property Damage | Persons Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| NIAGARA ON THE LAKE, T | | 12,695 | 147 | - | 41 | 106 | - | 63 | |
| PELHAM, T | | 13,956 | 125 | - | 26 | 99 | - | 31 | |
| PORT COLBORNE, C | | 18,389 | 239 | 1 | 46 | 192 | 1 | 68 | |
| ST CATHARINES, C | | 130,000 | 2,175 | 6 | 455 | 1,714 | 6 | 651 | |
| THOROLD, C | | 18,000 | 190 | 1 | 48 | 141 | 3 | 63 | |
| WAINFLEET, TP | | 6,139 | 54 | 1 | 13 | 40 | 1 | 21 | |
| WELLAND, C | | 47,423 | 779 | 1 | 161 | 617 | 1 | 247 | |
| WEST LINCOLN, TP | | 11,060 | 92 | - | 28 | 64 | - | 47 | |
| PROVINCIAL HIGHWAY | | - | 1,754 | 6 | 497 | 1,251 | 6 | 848 | |
| OTHER AREAS | | - | 447 | 5 | 112 | 330 | 5 | 166 | |
| **NIAGARA** | | **398,703** | **8,259** | **31** | **1,973** | **6,255** | **33** | **3,037** | **268,126** |
| BONFIELD, TP | | 2,027 | 2 | - | 1 | 1 | - | 1 | |
| CALDWELL, TP | | 1,569 | 2 | - | 1 | 1 | - | 1 | |
| EAST FERRIS, TP | | 4,153 | 2 | - | 1 | 1 | - | 1 | |
| MATTAWA, T | | 2,472 | 16 | - | - | 16 | - | - | |
| NORTH BAY C | M | 56,000 | 693 | - | 177 | 516 | - | 277 | |
| SPRINGER, TP | | 2,434 | 2 | - | 2 | - | - | 5 | |
| STURGEON FALLS, T | M | 6,161 | 65 | - | 10 | 55 | - | 16 | |
| PROVINCIAL HIGHWAY | | - | 701 | 6 | 186 | 509 | 6 | 301 | |
| OTHER AREAS | | 5,752 | 182 | - | 46 | 136 | - | 68 | |
| **NIPISSING** | | **80,568** | **1,665** | **6** | **424** | **1,235** | **6** | **670** | **57,640** |
| BRIGHTON, TP | | 3,418 | 1 | - | - | 1 | - | - | |
| BRIGHTON, T | | 4,199 | 28 | - | 2 | 26 | - | 2 | |
| CAMPBELLFORD, T | | 3,305 | 45 | - | 7 | 38 | - | 11 | |
| COBOURG, T | M | 15,037 | 216 | - | 52 | 164 | - | 82 | |
| COLBORNE, VL | | 1,971 | 5 | - | 1 | 4 | - | 1 | |
| HALDIMAND, TP | | 4,131 | 5 | - | 3 | 2 | - | 6 | |
| HAMILTON, TP | | 9,470 | 6 | - | 1 | 5 | - | 2 | |
| MURRAY, TP | | 6,841 | 10 | - | 1 | 9 | - | 2 | |
| PORT HOPE, T | M | 11,040 | 2 | - | - | 2 | - | - | |
| SEYMOUR, TP | | 4,226 | 104 | 1 | 24 | 79 | 1 | 35 | |
| PERCY, TP | | 3,082 | 2 | - | 1 | 1 | - | 2 | |
| PROVINCIAL HIGHWAY | | - | 660 | 6 | 178 | 476 | 6 | 330 | |
| OTHER AREAS | | 2,079 | 428 | 6 | 116 | 306 | 6 | 176 | |
| **NORTHUMBERLAND** | | **75,471** | **1,512** | **13** | **386** | **1,113** | **13** | **649** | **53,126** |
| CUMBERLAND, TP | | 44,630 | 229 | 1 | 62 | 166 | 2 | 92 | |
| GLOUCESTER, C | M | 106,900 | 922 | 3 | 194 | 725 | 3 | 293 | |
| GOULBOURN, TP | | 19,350 | 142 | 1 | 31 | 110 | 1 | 45 | |
| KANATA, C | | 49,000 | 475 | 1 | 106 | 368 | 1 | 147 | |
| NEPEAN, C | M | 116,000 | 1,511 | 4 | 347 | 1,160 | 5 | 552 | |
| OSGOODE, TP | | 15,207 | 184 | 1 | 37 | 146 | 1 | 65 | |
| OTTAWA, C | M | 317,000 | 6,813 | 3 | 1,709 | 5,101 | 4 | 2,339 | |
| RIDEAU, TP | | 12,106 | 137 | 1 | 30 | 106 | 1 | 58 | |
| ROCKCLIFFE PARK, VL | | 2,183 | 18 | - | 2 | 16 | - | 2 | |
| VANIER, C | | 17,562 | 263 | - | 64 | 199 | - | 79 | |

**Table 4.1** **Continued**

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| WEST CARLETON, TP | | 16,000 | 116 | - | 30 | 86 | - | 51 | |
| PROVINCIAL HIGHWAY | | - | 1,558 | 12 | 395 | 1,151 | 12 | 649 | |
| OTHER AREAS | | - | 744 | 4 | 165 | 575 | 4 | 240 | |
| **OTTAWA-CARLETON** | | **715,938** | **13,112** | **31** | **3,172** | **9,909** | **34** | **4,612** | **381,921** |
| EAST ZORRA-TAVISTOCK, TP | | 7,370 | 3 | - | 1 | 2 | - | 1 | |
| INGERSOLL, T | M | 9,545 | 94 | - | 11 | 83 | - | 17 | |
| NORWICH, TP | M | 10,302 | 18 | 1 | 2 | 15 | 1 | 2 | |
| S WEST OXFORD, TP | | 8,427 | 5 | - | 2 | 3 | - | 2 | |
| TILLSONBURG, T | M | 12,729 | 138 | - | 45 | 93 | - | 83 | |
| WOODSTOCK, C | M | 31,252 | 628 | - | 124 | 504 | - | 191 | |
| ZORRA, TP | | 8,182 | 3 | - | 1 | 2 | - | 1 | |
| PROVINCIAL HIGHWAY | | - | 696 | 3 | 194 | 499 | 6 | 318 | |
| OTHER AREAS | | - | 507 | 8 | 136 | 363 | 8 | 206 | |
| **OXFORD** | | **94,964** | **2,092** | **12** | **516** | **1,564** | **15** | **821** | **68,273** |
| HIMSWORTH NORTH, TP | | 2,993 | 3 | - | - | 3 | - | - | |
| MCDOUGALL, TP | | 2,162 | 1 | - | - | 1 | - | - | |
| PERRY, TP | | 2,023 | 1 | - | 1 | - | - | 2 | |
| PROVINCIAL HIGHWAY | | - | 689 | 10 | 180 | 499 | 15 | 347 | |
| OTHER AREAS | | 17,426 | 354 | 8 | 72 | 274 | 10 | 104 | |
| **PARRY SOUND** | | **33,614** | **1,048** | **18** | **253** | **777** | **25** | **453** | **34,576** |
| BRAMPTON, C | | 278,160 | 3,489 | 8 | 742 | 2,739 | 8 | 1,133 | |
| CALEDON, T | | 39,832 | 695 | 4 | 151 | 540 | 4 | 228 | |
| MISSISSAUGA, C | | 559,000 | 7,250 | 23 | 1,436 | 5,791 | 24 | 2,173 | |
| PROVINCIAL HIGHWAY | | - | 3,026 | 11 | 703 | 2,312 | 14 | 1,138 | |
| OTHER AREAS | | - | 300 | - | 61 | 239 | - | 90 | |
| **PEEL** | | **876,992** | **14,760** | **46** | **3,093** | **11,621** | **50** | **4,762** | **511,896** |
| LOGAN, TP | | 2,184 | 49 | - | 6 | 43 | - | 6 | |
| MITCHELL, T | | 3,518 | 29 | - | 11 | 18 | - | 15 | |
| ST MARYS, T | M | 5,493 | 58 | - | 14 | 44 | - | 24 | |
| STRATFORD, C | M | 28,700 | 568 | 1 | 111 | 456 | 1 | 169 | |
| PROVINCIAL HIGHWAY | | - | 371 | 4 | 95 | 272 | 4 | 171 | |
| OTHER AREAS | | 1,340 | 398 | 11 | 119 | 268 | 14 | 204 | |
| **PERTH** | | **70,869** | **1,473** | **16** | **356** | **1,101** | **19** | **589** | **47,668** |
| BELMONT & METHUEN, TP | | 2,877 | 3 | - | - | 3 | - | - | |
| CAVAN, TP | | 5,344 | 2 | - | 1 | 1 | - | 1 | |
| DOURO, TP | | 3,524 | 1 | - | - | 1 | - | - | |
| DUMMER, TP | | 2,847 | 1 | - | - | 1 | - | - | |
| HARVEY, TP | | 3,059 | 4 | - | 1 | 3 | - | 1 | |
| LAKEFIELD, VL | | 2,387 | 9 | - | 5 | 4 | - | 6 | |
| OTONABEE, TP | | 5,060 | 1 | - | 1 | - | - | 1 | |
| PETERBOROUGH, C | M | 66,494 | 884 | - | 339 | 545 | - | 447 | |
| SMITH, TP | | 8,692 | 6 | - | 1 | 5 | - | 1 | |
| PROVINCIAL HIGHWAY | | - | 538 | 4 | 177 | 357 | 7 | 352 | |
| OTHER AREAS | | 8,983 | 527 | 1 | 132 | 394 | 2 | 188 | |
| **PETERBOROUGH** | | **115,924** | **1,976** | **5** | **657** | **1,314** | **9** | **997** | **81,963** |
| ALFRED, TP | | 2,216 | 2 | - | 1 | 1 | - | 1 | |

**Table 4.1** **Continued**

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| CASSELMAN, VL | | 2,586 | 17 | - | 3 | 14 | - | 5 | |
| E HAWKESBURY, TP | | 3,153 | 2 | - | 1 | 1 | - | 1 | |
| HAWKESBURY, T | M | 9,871 | 208 | - | 33 | 175 | - | 42 | |
| L'ORIGNAL, VL | | 1,971 | 7 | - | 2 | 5 | - | 3 | |
| ROCKLAND, T | | 7,547 | 49 | - | 8 | 41 | - | 9 | |
| RUSSELL, TP | | 11,417 | 5 | - | 2 | 3 | - | 3 | |
| SOUTH PLANTAGENET, TP | | 1,788 | 1 | - | - | 1 | - | - | |
| VANKLEEK HILL, T | | 1,941 | 13 | - | 2 | 11 | - | 2 | |
| W HAWKESBURY, TP | | 2,957 | 2 | - | 1 | 1 | - | 1 | **(Veh. Reg.** |
| PROVINCIAL HIGHWAY | | - | 216 | 5 | 70 | 141 | 5 | 118 | **includes** |
| OTHER AREAS | | 4,252 | 230 | 1 | 71 | 158 | 1 | 100 | **Russell)** |
| **PRESCOTT** | | **52,993** | **752** | **6** | **194** | **552** | **6** | **285** | **56,660** |
| AMELIASBURG, TP | | 5,235 | 3 | - | 1 | 2 | - | 1 | |
| HALLOWELL, TP | | 4,101 | 3 | - | - | 3 | - | - | |
| HILLIER, TP | | 1,700 | 1 | - | - | 1 | - | - | |
| PICTON, T | | 4,077 | 68 | - | 16 | 52 | - | 19 | |
| PROVINCIAL HIGHWAY | | - | 131 | 2 | 16 | 113 | 3 | 32 | |
| OTHER AREAS | | 4,026 | 247 | 2 | 52 | 193 | 2 | 82 | |
| **PRINCE EDWARD** | | **22,746** | **453** | **4** | **85** | **364** | **5** | **134** | **17,615** |
| ATIKOKAN, TP | M | 3,632 | 22 | - | 4 | 18 | - | 4 | |
| FORT FRANCES, T | M | 8,514 | 227 | - | 35 | 192 | - | 47 | |
| PROVINCIAL HIGHWAY | | - | 228 | 3 | 52 | 173 | 3 | 78 | |
| OTHER AREAS | | 6,429 | 94 | - | 19 | 75 | - | 33 | |
| **RAINY RIVER** | | **18,575** | **571** | **3** | **110** | **458** | **3** | **162** | **17,692** |
| ALICE & FRASER, TP | | 3,955 | 1 | - | - | 1 | - | - | |
| ARNPRIOR, T | | 6,376 | 77 | - | 20 | 57 | - | 35 | |
| DEEP RIVER, T | M | 4,278 | 20 | - | 4 | 16 | - | 5 | |
| PEMBROKE, C | M | 13,445 | 287 | - | 68 | 219 | - | 103 | |
| PETAWAWA, TP | | 8,430 | 1 | - | 1 | - | - | 1 | |
| PETAWAWA, VL | | 6,016 | 23 | - | 7 | 16 | - | 8 | |
| RENFREW, T | M | 7,665 | 97 | 2 | 17 | 78 | 2 | 32 | |
| STAFFORD & PEMBROKE, TP | | 4,603 | 2 | - | - | 2 | - | - | |
| PROVINCIAL HIGHWAY | | - | 557 | 6 | 155 | 396 | 8 | 246 | |
| OTHER AREAS | | 14,873 | 570 | 7 | 149 | 414 | 7 | 215 | |
| **RENFREW** | | **90,601** | **1,635** | **15** | **421** | **1,199** | **17** | **645** | **67,594** |
| CAMBRIDGE, TP | | 6,002 | 2 | - | 1 | 1 | - | 2 | |
| CLARENCE, TP | | 10,069 | 1 | - | - | 1 | - | - | |
| PROVINCIAL HIGHWAY | | - | 143 | 3 | 28 | 112 | 3 | 52 | **(Veh. Reg.** |
| OTHER AREAS | | 1,441 | 281 | 2 | 71 | 208 | 2 | 117 | **included in** |
| **RUSSELL** | | **17,512** | **427** | **5** | **100** | **322** | **5** | **171** | **Prescott)** |
| ADJALA-TOSORONTIO, TP | | 8,896 | 2 | - | - | 2 | - | - | |
| BARRIE, C | M | 71,413 | 1,498 | 1 | 308 | 1,189 | 1 | 465 | |
| BRADFORD W GWILLIMBURY, T | M | 18,222 | 227 | - | 51 | 176 | - | 68 | |
| COLLINGWOOD, T | M | 14,673 | 281 | - | 65 | 216 | - | 105 | |
| ESSA, TP | | 15,745 | 9 | - | 2 | 7 | - | 2 | |

**Table 4.1** **Continued**

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| INNISFIL, T | M | 22,523 | 139 | 2 | 36 | 101 | 2 | 58 | |
| MIDLAND, T | M | 14,284 | 294 | 1 | 78 | 215 | 1 | 101 | |
| NEW TECUMSETH, T | | 20,767 | 159 | - | 27 | 132 | - | 38 | |
| ORILIA, C | | 27,384 | 470 | - | 115 | 355 | - | 171 | |
| PENETANGUISHENE, T | M | 6,948 | 76 | - | 13 | 63 | - | 24 | |
| TAY, TP | | 10,058 | 5 | - | - | 5 | - | - | |
| TINY, TP | | 8,204 | 6 | - | 2 | 4 | - | 2 | |
| WASAGA BEACH, T | | 7,463 | 126 | - | 35 | 91 | - | 47 | |
| PROVINCIAL HIGHWAY | | - | 2,143 | 13 | 514 | 1,616 | 18 | 906 | |
| OTHER AREAS | | - | 1,437 | 12 | 373 | 1,052 | 14 | 591 | |
| **SIMCOE** | | **305,502** | **6,872** | **29** | **1,619** | **5,224** | **36** | **2,578** | **228,382** |
| CORNWALL, C | M | 46,802 | 893 | 2 | 238 | 653 | 2 | 346 | **(Veh. Reg.** |
| PROVINCIAL HIGHWAY | | - | 245 | 4 | 66 | 175 | 4 | 126 | **incl. Dundas** |
| OTHER AREAS | | 441 | 184 | - | 39 | 145 | - | 48 | **& Glengarry)** |
| **STORMONT** | | **64,384** | **1,322** | **6** | **343** | **973** | **6** | **520** | **71,525** |
| CAPREOL, T | | 3,621 | 24 | - | 6 | 18 | - | 8 | |
| ESPANOLA, T | | 5,144 | 51 | - | 13 | 38 | - | 13 | |
| NICKEL CENTRE, T | | 12,129 | 70 | 2 | 18 | 50 | 2 | 34 | |
| ONAPING FALLS, T | | 5,068 | 16 | - | 1 | 15 | - | 2 | |
| RAYSIDE-BALFOUR, T | | 15,039 | 94 | 2 | 26 | 66 | 2 | 47 | |
| SUDBURY, C | M | 87,087 | 1,839 | 7 | 462 | 1,370 | 9 | 694 | |
| VALLEY EAST, T | | 22,102 | 162 | - | 63 | 99 | - | 103 | |
| WALDEN, T | | 9,753 | 74 | - | 19 | 55 | - | 30 | |
| PROVINCIAL HIGHWAY | | - | 786 | 14 | 216 | 556 | 16 | 374 | |
| OTHER AREAS | | - | 415 | 1 | 114 | 300 | 1 | 176 | |
| **SUDBURY** | | **159,943** | **3,531** | **26** | **938** | **2,567** | **30** | **1,481** | **129,406** |
| GERALDTON, T | | 2,578 | 29 | - | 4 | 25 | - | 6 | |
| LONGLAC, T | | 1,833 | 33 | - | 4 | 29 | - | 4 | |
| MANITOUWADGE, TP | | 3,554 | 22 | - | 3 | 19 | - | 3 | |
| MARATHON, T | M | 4,702 | 29 | - | 3 | 26 | - | 5 | |
| NIPIGON, TP | | 2,095 | 12 | - | 2 | 10 | - | 2 | |
| OLIVER, TP | | 2,488 | 5 | - | - | 5 | - | - | |
| PAIPOONGE, TP | | 3,064 | 1 | - | - | 1 | - | - | |
| SCHREIBER, TP | | 1,762 | 3 | - | 2 | 1 | - | 2 | |
| SHUNIAH, TP | | 2,144 | 2 | - | - | 2 | - | - | |
| TERRACE BAY, TP | | 2,309 | 12 | - | 4 | 8 | - | 5 | |
| THUNDER BAY, C | M | 113,562 | 2,290 | 6 | 442 | 1,842 | 7 | 639 | |
| PROVINCIAL HIGHWAY | | - | 1,073 | 12 | 258 | 803 | 16 | 444 | |
| OTHER AREAS | | 4,726 | 252 | 3 | 38 | 211 | 4 | 59 | |
| **THUNDER BAY** | | **144,817** | **3,763** | **21** | **760** | **2,982** | **27** | **1,169** | **117,593** |
| ENGLEHART, T | | 1,655 | 9 | - | 3 | 6 | - | 4 | |
| HAILEYBURY, T | | 4,666 | 43 | - | 6 | 37 | - | 10 | |
| KIRKLAND LAKE, T | M | 10,330 | 124 | - | 17 | 107 | - | 19 | |
| NEW LISKEARD, T | M | 4,986 | 96 | - | 14 | 82 | - | 19 | |
| PROVINCIAL HIGHWAY | | - | 376 | 2 | 101 | 273 | 2 | 198 | |
| OTHER AREAS | | 12,372 | 115 | - | 20 | 95 | - | 33 | |
| **TIMISKAMING** | | **34,009** | **763** | **2** | **161** | **600** | **2** | **283** | **27,766** |

**Table 4.1** Continued

| Location | | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|
| EAST YORK, BOROUGH | | 98,594 | 926 | - | 327 | 599 | - | 476 | |
| ETOBICOKE, C | | 309,993 | 4,706 | 4 | 1,644 | 3,058 | 4 | 2,425 | |
| NORTH YORK, C | | 557,869 | 12,106 | 12 | 4,086 | 8,008 | 12 | 6,408 | |
| SCARBOROUGH, C | | 507,680 | 9,724 | 14 | 3,545 | 6,165 | 14 | 5,427 | |
| TORONTO, C | | 635,395 | 21,441 | 39 | 6,827 | 14,575 | 39 | 9,645 | |
| YORK, C | | 138,080 | 799 | 1 | 294 | 504 | 1 | 433 | |
| PROVINCIAL HIGHWAY | | - | 8,533 | 9 | 2,316 | 6,208 | 10 | 3,600 | |
| **TORONTO, METRO** | **M** | **2,247,611** | **58,235** | **79** | **19,039** | **3,917** | **80** | **28,414** | **1,087,907** |
| BOBCAYGEON, VL | | 2,472 | 14 | - | 3 | 11 | - | 3 | |
| EMILY, TP | | 6,254 | 7 | - | - | 7 | - | - | |
| FENELON FALLS, VL | | 1,806 | 21 | - | 4 | 17 | - | 4 | |
| FENELON, TP | | 5,567 | 2 | - | - | 2 | - | - | |
| LINDSAY, T | M | 17,000 | 284 | - | 81 | 203 | - | 135 | |
| MANVERS, TP | | 5,157 | 3 | - | - | 3 | - | - | |
| MARIPOSA, TP | | 6,839 | 7 | - | 1 | 6 | - | 2 | |
| SOMERVILLE, TP | | 2,092 | 1 | - | - | 1 | - | - | |
| VERULAM, TP | | 5,075 | 3 | - | - | 3 | - | - | |
| PROVINCIAL HIGHWAY | | - | 463 | 7 | 120 | 336 | 8 | 196 | |
| OTHER AREAS | | 5,329 | 524 | 5 | 127 | 392 | 5 | 205 | |
| **VICTORIA** | | **64,502** | **1,329** | **12** | **336** | **981** | **13** | **545** | **50,434** |
| CAMBRIDGE, C | | 99,000 | 1,903 | 4 | 386 | 1,513 | 5 | 605 | |
| KITCHENER, C | | 183,200 | 3,569 | 2 | 778 | 2,789 | 2 | 1,128 | |
| NORTH DUMFRIES, TP | | 7,090 | 138 | 1 | 39 | 98 | 1 | 53 | |
| WATERLOO, C | | 89,663 | 1,577 | 3 | 330 | 1,244 | 3 | 482 | |
| WELLESLEY, TP | | 8,370 | 28 | 1 | 4 | 23 | 2 | 8 | |
| WILMOT, TP | | 13,135 | 135 | 2 | 34 | 99 | 2 | 47 | |
| WOOLWICH, TP | | 16,711 | 240 | - | 57 | 183 | - | 102 | |
| PROVINCIAL HIGHWAY | | - | 1,079 | 6 | 252 | 821 | 7 | 403 | |
| OTHER AREAS | | - | 342 | 1 | 55 | 286 | 1 | 75 | |
| **WATERLOO** | | **417,169** | **9,011** | **20** | **1,935** | **7,056** | **23** | **2,903** | **248,746** |
| ARTHUR, TP | | 2,472 | 4 | - | - | 4 | - | - | |
| ARTHUR, VL | | 1,960 | 24 | - | 2 | 22 | - | 5 | |
| ELORA, VL | | 3,116 | 22 | - | 6 | 16 | - | 9 | |
| ERAMOSA, TP | | 5,764 | 1 | - | - | 1 | - | - | |
| ERIN, TP | | 7,468 | 2 | - | - | 2 | - | - | |
| ERIN, VL | | 2,414 | 13 | - | 4 | 9 | - | 6 | |
| FERGUS, T | M | 8,008 | 94 | - | 23 | 71 | - | 39 | |
| GUELPH, C | M | 93,400 | 1,268 | 1 | 463 | 804 | 1 | 695 | |
| HARRISTON, T | M | 1,900 | 12 | - | 2 | 10 | - | 2 | |
| MARYBOROUGH, TP | | 2,573 | 3 | - | 1 | 2 | - | 2 | |
| MINTO, TP | | 2,357 | 5 | - | 1 | 4 | - | 2 | |
| MOUNT FOREST, T | | 4,164 | 69 | - | 7 | 62 | - | 11 | |
| NICHOL, TP | | 3,999 | 3 | - | 1 | 2 | - | 3 | |
| PALMERSTON, T | M | 2,400 | 8 | - | 2 | 6 | - | 2 | |
| PEEL, TP | | 4,294 | 10 | - | 1 | 9 | - | 2 | |

**Table 4.1** **Continued**

| Location | Estimated Population (1994)* | Class of Collision: Total Collisions | Fatal | Personal Injury | Property Damage | Persons: Killed | Injured | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|
| PILKINGTON, TP | 2,400 | 2 | - | 1 | 1 | - | 1 | |
| PUSLINCH, TP | 4,607 | 5 | - | - | 5 | - | - | |
| WEST GARAFRAXA, TP | 3,341 | 1 | - | - | 1 | - | - | |
| PROVINCIAL HIGHWAY | - | 1,039 | 13 | 246 | 780 | 16 | 448 | |
| OTHER AREAS | 3,169 | 833 | 5 | 207 | 621 | 5 | 324 | |
| **WELLINGTON** | **162,851** | **3,418** | **19** | **967** | **2,432** | **22** | **1,551** | **111,621** |
| ANCASTER, T | 22,810 | 218 | - | 86 | 132 | - | 135 | |
| DUNDAS, T | 22,154 | 166 | 1 | 56 | 109 | 1 | 84 | |
| FLAMBOROUGH, T | 33,381 | 203 | 2 | 62 | 139 | 3 | 95 | |
| GLANBROOK, TP | 10,238 | 62 | - | 24 | 38 | - | 39 | |
| HAMILTON, C | 318,500 | 4,617 | 6 | 1,721 | 2,890 | 6 | 2,482 | |
| STONEY CREEK, C | 51,865 | 365 | 1 | 129 | 235 | 1 | 200 | |
| PROVINCIAL HIGHWAY | - | 1,375 | 13 | 375 | 987 | 17 | 679 | |
| OTHER AREAS | - | 133 | - | 38 | 95 | - | 55 | |
| **HAMILTON-WENTWORTH** | **458,948** | **7,139** | **23** | **2,491** | **4,625** | **28** | **3,769** | **264,369** |
| AURORA, T | 33,595 | 362 | 2 | 65 | 295 | 2 | 102 | |
| E GWILLIMBURY, T | 18,023 | 229 | 1 | 34 | 194 | 3 | 61 | |
| GEORGINA, T | 30,802 | 280 | 1 | 78 | 201 | 1 | 117 | |
| KING, TP | 17,504 | 227 | - | 46 | 181 | - | 75 | |
| MARKHAM, T | 164,376 | 1,990 | 7 | 382 | 1,601 | 11 | 609 | |
| NEWMARKET, T | 49,645 | 594 | - | 123 | 471 | - | 181 | |
| RICHMOND HILL, T | 100,000 | 966 | 3 | 179 | 784 | 3 | 279 | |
| VAUGHAN, C | 131,720 | 1,735 | 2 | 350 | 1,383 | 2 | 581 | |
| WHITCHURCH-STOUFFVILLE , T | 18,500 | 198 | 1 | 49 | 148 | 1 | 92 | |
| PROVINCIAL HIGHWAY | - | 3,277 | 12 | 731 | 2,534 | 13 | 1,235 | |
| OTHER AREAS | - | 492 | - | 109 | 383 | 1 | 195 | |
| **YORK** | **564,165** | **10,350** | **29** | **2,146** | **8,175** | **37** | **3,527** | **380,570** |

**Legend**

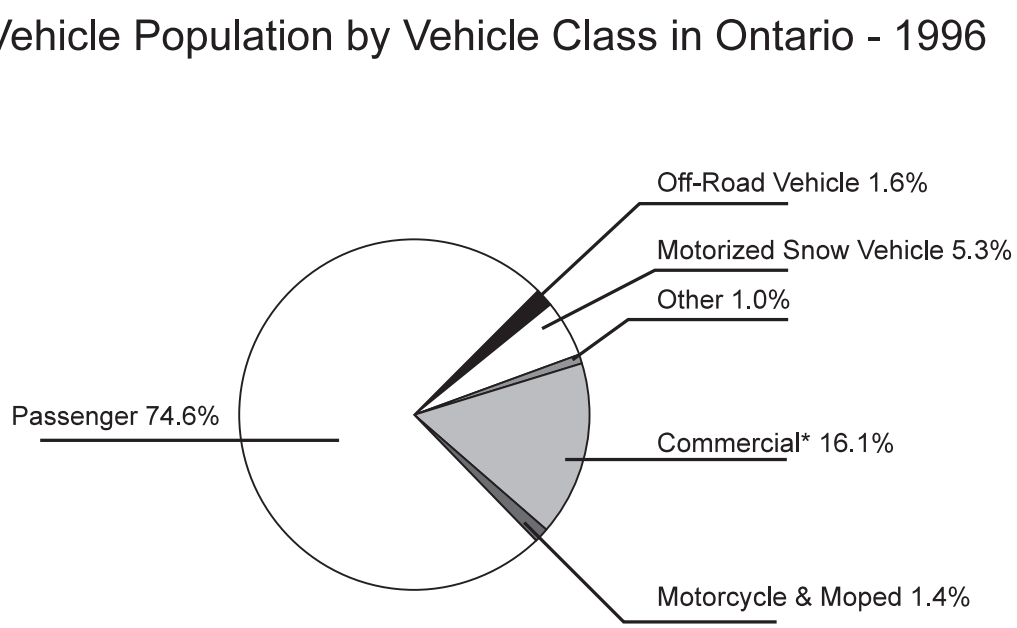
**T** town
**C** city
**VL** village
**TP** township

**Other Areas -** Jurisdictions with less than 1,500 population

**M** Muncipal Police Force

* Source: Ontario Ministry of Municipal Affairs Municipal Directory 1994.
Population data in this table refers to persons residing in a municipality on a permanent basis.

## 5 The Vehicle




Other includes bus, school bus, road building machinery, permanent apparatus and farm trucks.

* Commercial excludes Single Application Vehicle Registration (SAVR).

## 5a. Vehicles in Collisions

**Table 5.1** **Type of Vehicle Involved in All Collisions 1996**

| Type of Vehicle | Class of Collision | | | Total |
|---|---|---|---|---|
| | | Personal | Property | |
| | Fatal | Injury | Damage | |
| Passenger Car | 834 | 79,942 | 204,631 | **285,407** |
| Passenger Car & Trailer | 4 | 128 | 454 | **586** |
| Truck | 356 | 21,164 | 64,967 | **86,487** |
| Truck & Trailer | 21 | 503 | 1,811 | **2,335** |
| Tractor & Semi-trailer | 79 | 1,392 | 4,909 | **6,380** |
| Motorcycle | 34 | 1,138 | 395 | **1,567** |
| Bus | 13 | 669 | 1,567 | **2,249** |
| School Bus/Vehicle | 5 | 202 | 877 | **1,084** |
| Other - Or Not Known | 8 | 1,017 | 6,819 | **7,844** |
| Non Motor Vehicle | 43 | 3,360 | 1,378 | **4,781** |
| **Total** | **1,397** | **109,515** | **287,808** | **398,720** |

In 1988, major revisions were made in the recording of motor vehicle collision data. The above table now reflects a consolidation of various types of vehicles and/or trailers. Therefore, valid conclusions cannot be made when comparing these data to that of the years previous to 1988.

**More detailed information for some vehicles is provided in the Vehicles of Special Interest Section.**

**Table 5.2 Condition of Vehicle by Class of Collision 1996**

| Condition of Vehicle | Class of Collision | | | Total |
|---|---|---|---|---|
| | | Personal | Property | |
| | Fatal | Injury | Damage | |
| No Apparent Defect | 1,293 | 103,728 | 267,621 | **372,642** |
| Service Brakes Defective | 9 | 120 | 273 | **402** |
| Steering Defective | - | 16 | 49 | **65** |
| Tire Puncture or Blow Out | 1 | 76 | 176 | **253** |
| Tire Tread Insufficient | 4 | 48 | 55 | **107** |
| Headlamps Defective | 1 | 9 | 15 | **25** |
| Other Lamps or Reflectors Defective | - | 16 | 67 | **83** |
| Engine Controls Defective | - | 12 | 34 | **46** |
| Wheels or Suspension Defective | - | 7 | 65 | **72** |
| Vision Obscured | - | 4 | 31 | **35** |
| Trailer Hitch Defective | - | 3 | 17 | **20** |
| Other Defects | 25 | 749 | 1,927 | **2,701** |
| Unknown | 64 | 4,727 | 17,478 | **22,269** |
| **Total** | **1,397** | **109,515** | **287,808** | **398,720** |

**Table 5.3 Model Year of Vehicle by Class of Collision 1996**

| Model Year of Vehicle | Class of Collision | | | Total |
|---|---|---|---|---|
| | | Personal | Property | |
| | Fatal | Injury | Damage | |
| 1997 | 9 | 404 | 1,493 | **1,906** |
| 1996 | 83 | 4,912 | 13,422 | **18,417** |
| 1995 | 124 | 7,987 | 22,609 | **30,720** |
| 1994 | 112 | 7,181 | 20,162 | **27,455** |
| 1993 | 81 | 7,300 | 20,443 | **27,824** |
| 1992 | 86 | 7,499 | 20,915 | **28,500** |
| 1991 | 110 | 7,694 | 20,422 | **28,226** |
| 1990 | 84 | 8,370 | 22,549 | **31,003** |
| 1989 | 125 | 9,443 | 24,591 | **34,159** |
| 1988 | 110 | 9,663 | 25,170 | **34,943** |
| 1987 and earlier | 428 | 32,990 | 81,950 | **115,368** |
| Unknown | 45 | 6,072 | 14,082 | **20,199** |
| **Total** | **1,397** | **109,515** | **287,808** | **398,720** |

**Table 5.4 Insurance Status of Vehicle by Class of Collision 1996**

| Insurance | Class of Collision | | | Total |
|---|---|---|---|---|
| | | Personal | Property | |
| | Fatal | Injury | Damage | |
| Insured | 1,273 | 100,412 | 267,970 | **369,655** |
| Not Insured | 63 | 3,081 | 3,862 | **7,006** |
| Unknown | 61 | 6,022 | 15,976 | **22,059** |
| **Total** | **1,397** | **109,515** | **287,808** | **398,720** |

## 5b. Putting the Vehicle in Context

**Table 5.5 Vehicle Population by Type of Vehicle 1996**

| Vehicle Class | |
|---|---|
| Passenger | 5,120,509 |
| Motorcycle | 94,431 |
| Moped | 3,218 |
| Commercial* | 1,106,829 |
| Bus | 18,879 |
| School Bus | 8,639 |
| Motorized Snow Vehicle | 361,596 |
| Off-Road Vehicle | 111,344 |
| Road Building Machinery | 714 |
| Permanent Apparatus | 3,333 |
| Farm Trucks | 34,561 |
| **Total** | **6,824,445** |

* Excludes Single Application Vehicle Registrations (SAVR - 26,068 vehicles).

**Table 5.6 Selected Types of Vehicles by Model Year 1996**

| Vehicle Class | Model Years | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **97** | **96** | **95** | **94** | **93** | **92** | **91** | **90** | **89** | **88** | **87+** | **Total** |
| Passenger | 102,488 | 295,422 | 366,872 | 341,855 | 359,169 | 388,347 | 373,727 | 393,692 | 423,291 | 429,011 | 1,646,635 | **5,120,509** |
| Motorcycle | 330 | 2,773 | 2,803 | 2,788 | 2,970 | 2,440 | 2,207 | 2,397 | 2,547 | 2,803 | 70,373 | **94,431** |
| Moped | 3 | 6 | 4 | 14 | 12 | 4 | 20 | 15 | 22 | 10 | 3,108 | **3,218** |
| Commercial* | 20,833 | 56,110 | 73,833 | 68,275 | 55,527 | 56,876 | 57,688 | 77,925 | 95,757 | 107,112 | 435,893 | **1,105,829** |
| Bus | 218 | 1,760 | 2,021 | 1,407 | 1,627 | 2,072 | 2,202 | 2,600 | 2,677 | 2,518 | 8,416 | **27,518** |
| Motorized Snow Vehicle | 11,796 | 15,350 | 14,680 | 14,813 | 12,625 | 10,013 | 13,980 | 15,231 | 14,795 | 12,748 | 225,565 | **361,596** |
| Off-Road Vehicle | 705 | 4,262 | 5,082 | 4,240 | 5,146 | 4,884 | 4,925 | 5,729 | 4,686 | 4,107 | 67,578 | **111,344** |
| **Total**** | **136,373** | **375,683** | **465,295** | **433,392** | **437,076** | **464,636** | **454,733** | **497,589** | **543,775** | **558,309** | **2,457,568** | **6,824,445** |

* Excludes Single Application Vehicle Registrations (SAVR - 26,068 vehicles).

**Table 5.7 Vehicle Damage Level 1996**

| Damage | Class of Collision | | | Total |
|---|---|---|---|---|
| | | Personal | Property | |
| | Fatal | Injury | Damage | |
| None | 78 | 10,814 | 19,694 | **30,586** |
| Light | 149 | 30,557 | 123,025 | **153,731** |
| Moderate | 150 | 29,516 | 95,556 | **125,222** |
| Severe | 222 | 23,028 | 27,940 | **51,190** |
| Demolished | 780 | 11,220 | 5,274 | **17,274** |
| Unknown | 18 | 4,380 | 16,319 | **20,717** |
| **Total** | **1,397** | **109,515** | **287,808** | **398,720** |

**Vehicle Damage**

**None** No visible damage.

**Light** Slight or superficial damage. Includes scratches, small dents, and 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 the requirements of the law. Vehicle can be driven off road or a 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 acceptable.

# 6 Vehicles of Special Interest

## 6a. Motorcycles

**Table 6.1 Motorcyclists* Killed and Injured 1992-1996**

| Year | Drivers | | Passengers | |
|---|---|---|---|---|
| | Killed | Injured | Killed | Injured |
| 1992 | 55 | 1,814 | 6 | 404 |
| 1993 | 54 | 1,706 | 5 | 398 |
| 1994 | 50 | 1,526 | 4 | 324 |
| 1995 | 37 | 1,309 | 4 | 289 |
| 1996 | 27 | 1,006 | 2 | 244 |

* Excludes moped drivers and passengers.

**Table 6.2 Selected Factors Relevant to Fatal Motorcycle Collisions 1996**

| Factors | % |
|---|---|
| Unlicensed Motorcycle Drivers | 9 |
| Under 25 years Old | 32 |
| Alcohol Used | |
| Ability Impaired Alcohol > .08 | 18 |
| Had Been Drinking | 15 |
| Unknown | 9 |
| Helmet Not Worn (Fatalities) | 18 |
| Motorcycle Driver Error | |
| Speed Too Fast/Lost Control | 44 |
| Other Error | 26 |
| Single Vehicle Collisions | 48 |
| Day/Night | 58/42 |
| Weekend | 48 |

## 6b. School Vehicles

**Table 6.3** Pupils Transported Daily, Total Collisions and Injury Rate per 100,000 Pupils - School Years 1991/92-1995/96

| School Year | Pupils Transported Daily | Total Number of Collisions | Injury Rate per 100,000 Pupils | |
|---|---|---|---|---|
| | | | Fatals | Non-Fatal |
| 1991/92 | 794,941 | 1,194 | 0.2 | 18 |
| 1992/93 | 796,347 | 1,174 | - | 20 |
| 1993/94 | 798,926 | 1,293 | 0.4 | 27 |
| 1994/95 | 816,273 | 1,018 | 0.1 | 21 |
| 1995/96* | N/A | 1,091 | N/A | N/A |

* In 1995 the Ministry of Education and Training (MET) implemented a change to the funding formula for the transportation of pupils consequently these data will no longer be available.

**Table 6.4** School Vehicle Type by Nature of Collision 1995/96

| School Vehicle Type | Nature of Collision | | | | Total Number of Collisions | Five Year Total (1991/92 1995/96) |
|---|---|---|---|---|---|---|
| | Fatal | Pupil Injury | Non-Pupil Injury | Property Damage | | |
| School Bus | 3 | 71 | 94 | 806 | 974 | **4,993** |
| School Van | - | 10 | 9 | 75 | 94 | **643** |
| Other School Vehicles | - | 4 | 3 | 16 | 23 | **134** |
| **Total** | **3** | **85** | **106** | **897** | **1,091** | **5,770** |

**Table 6.5** Pupil Injury by Collision Event and Vehicle Type 1995/96

| School Vehicle Type | Collision Event | | | | | | Total | | Five Year Total (1991/92 1995/96) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Crossing Road | | Within School Vehicle | | Other | | | | | |
| | Killed | Injured | Killed | Injured | Killed | Injured | Killed | Injured | Killed | Injured |
| School Bus | - | 1 | - | 94 | - | 9 | - | 104 | **5** | **749** |
| School Van | - | - | - | 12 | - | 1 | - | 13 | **-** | **62** |
| Other School Vehicles | - | - | - | 4 | - | - | - | 4 | **-** | **10** |
| **Total** | **-** | **1** | **-** | **110** | **-** | **10** | **-** | **121** | **5** | **821** |

## 6c. Trucks

**Table 6.6 Class of Truck Collision 1992-1996**

| Year | Class of Collision | | | Total |
|---|---|---|---|---|
| | | Personal | Property | |
| | Fatal | Injury | Damage | |
| 1992 | 361 | 13,563 | 43,330 | **57,254** |
| 1993 | 419 | 13,312 | 42,915 | **56,646** |
| 1994 | 326 | 13,335 | 43,906 | **57,567** |
| 1995 | 365 | 12,647 | 40,487 | **53,499** |
| 1996 | 320 | 12,377 | 39,595 | **52,292** |
| **Total** | **1,791** | **65,234** | **210,233** | **277,258** |

**Table 6.7 Driver Licence Class Required by Class of Truck Collision 1996**

| Driver Licence | Class of Collision | | | Total |
|---|---|---|---|---|
| Required | | Personal | Property | |
| | Fatal | Injury | Damage | |
| G | 194 | 10,238 | 32,115 | **42,547** |
| D | 35 | 617 | 2,220 | **2,872** |
| A* | 91 | 1,522 | 5,260 | **6,873** |
| **Total** | **320** | **12,377** | **39,595** | **52,292** |

* Includes truck/trailer combinations requiring a Class "A" licence.

**Table 6.8 Driver Licence Class Required - Collisions, Registered Trucks and Collision Rate 1996**

| Driver Licence | Collisions | Registered | | Collision |
|---|---|---|---|---|
| Required | | Vehicles | | Rate |
| G | 42,547 | 967,309 | | 4.4 |
| D | 2,872 | 49,812 | | 5.8 |
| A* | 6,873 | 114,776 | ** | 6.0 |
| **Total** | **52,292** | **1,131,897** | | 4.6 |

* Tractor/trailer combination only.
** Includes vehicles registered under SAVR - 26,068.

Data for truck/trailer combinations requiring Class "A" driver licence are not reported separately in the Vehicle Registration System.

**Table 6.9 Selected Factors Relevant to Fatal Truck Collisions 1996**

| | Driver Licence Required | | |
|---|---|---|---|
| Factors | Class G | Class D | Class A |
| Driver Condition in Fatal Collisions: | | | |
| Alcohol Involved | 24.2% | 5.7% | 0.0% |
| Driving Properly | 44.8% | 60.0% | 74.7% |
| Single Vehicle | 39.7% | 28.6% | 20.9% |
| Vehicle Defect Present* | 2.1% | 11.4% | 2.2% |
| Urban Area | 30.4% | 48.6% | 24.2% |
| Daylight | 57.7% | 71.4% | 63.7% |

* Excludes unknown category.

Class G trucks refers to trucks that have a gross weight less than 11,000 kilograms i.e. pickups.

## 6d. Off-Road Vehicles

**Table 6.10 Collision Location by Off-Road Vehicle Drivers Killed and Injured 1992-1996**

| Location | Killed | | | | | Injured | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1992 | 1993 | 1994 | 1995 | 1996 | 1992 | 1993 | 1994 | 1995 | 1996 |
| On-Highway | - | 3 | 3 | - | - | 36 | 22 | 22 | 23 | 20 |
| Off-Highway | 2 | 2 | 3 | 6 | 5 | 67 | 68 | 63 | 74 | 46 |
| **Total** | **2** | **5** | **6** | **6** | **5** | **103** | **90** | **85** | **97** | **66** |

**Table 6.11 Collision Location by Off-Road Vehicle Passengers Killed and Injured 1992-1996**

| Location | Killed | | | | | Injured | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1992 | 1993 | 1994 | 1995 | 1996 | 1992 | 1993 | 1994 | 1995 | 1996 |
| On-Highway | - | 1 | - | - | - | 9 | 4 | 6 | 5 | 6 |
| Off-Highway | 2 | - | - | - | - | 17 | 17 | 23 | 23 | 9 |
| **Total** | **2** | **1** | **-** | **-** | **-** | **26** | **21** | **29** | **28** | **15** |

**Table 6.12 Registered Off-Road Vehicle 1992-1996**

| Year | Vehicles Registered |
|---|---|
| 1992 | 92,020 |
| 1993 | 97,104 |
| 1994 | 101,954 |
| 1995 | 106,677 |
| 1996 | 111,344 |

**Table 6.13 Selected Factors Relevant to All Off-Road Vehicle Collisions 1996**

| Factors | % |
|---|---|
| Drivers Under 25 Years of Age | 56 |
| Alcohol Used | 19 |
| Speeding | 23 |
| Helmet Not Worn | 46 |
| Daytime | 71 |
| Two-Wheeled | 19 |
| Three-Wheeled | 18 |
| Four-Wheeled | 64 |

**For the purposes of this publication, off-road vehicles include dune buggies, off-road motorcycles (dirt bikes), and three and four wheeled all-terrain vehicles. Off-road vehicles were first required to be registered on June 1, 1984 (one time registration requirement).**

## 6e. Motorized Snow Vehicles

**Table 6.14** Collision Location by Motorized Snow Vehicle* Drivers Killed and Injured - Riding Seasons 1991/92-1995/96

| Location | Killed | | | | | Injured | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 91/92 | 92/93 | 93/94 | 94/95 | 95/96 | 91/92 | 92/93 | 93/94 | 94/95 | 95/96 |
| On-Highway | 1 | 3 | 2 | 6 | 3 | 61 | 37 | 62 | 36 | 73 |
| Off-Highway | 11 | 22 | 9 | 22 | 25 | 195 | 121 | 237 | 243 | 304 |
| **Total** | **12** | **25** | **11** | **28** | **28** | **256** | **158** | **299** | **279** | **377** |
| % On-Highway | **8** | **12** | **18** | **21** | **11** | **24** | **23** | **21** | **13** | **19** |

**Table 6.15** Collision Location by Motorized Snow Vehicle* Passengers Killed and Injured - Riding Seasons 1991/92-1995/96

| Location | Killed | | | | | Injured | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 91/92 | 92/93 | 93/94 | 94/95 | 95/96 | 91/92 | 92/93 | 93/94 | 94/95 | 95/96 |
| On-Highway | 1 | - | 1 | - | - | 29 | 16 | 25 | 17 | 33 |
| Off-Highway | 4 | 2 | 3 | 2 | 2 | 97 | 82 | 63 | 62 | 103 |
| **Total** | **5** | **2** | **4** | **2** | **2** | **126** | **98** | **88** | **79** | **136** |

**Table 6.16** Registered Motorized Snow Vehicles 1992-1996

| Year | Registered Motorized |
|---|---|
| 1992 | 366,730 |
| 1993 | 383,083 |
| 1994 | 391,847 |
| 1995 | 339,803 |
| 1996 | 361,596 |

**Table 6.17** All Motorized Snow Vehicle* Collisions 1995/96

| Factors | % |
|---|---|
| Unlicensed Operators | 10 |
| Rider Error; Speed too Fast | 35 |
| Alcohol Used | 23 |
| Surface Condition; Icy or Packed Snow | 56 |

* The numbers in these tables are captured under the Motorized Snow Vehicle Act (MVSA) and the Highway Traffic Act (HTA) therefore they are not comparable with the numbers in Tables 2.2 and 2.3 which are HTA reportable collisions only.

## 6f. Bicycles

**Table 6.18 Bicyclists* Killed and Injured 1992-1996**

| | Drivers | | Passengers | |
|---|---|---|---|---|
| Year | Killed | Injured | Killed | Injured |
| 1992 | 27 | 3,333 | - | 168 |
| 1993 | 31 | 3,290 | - | 123 |
| 1994 | 27 | 3,283 | - | 107 |
| 1995 | 19 | 2,983 | - | 105 |
| 1996 | 20 | 2,863 | - | 109 |

**Table 6.20 Selected Factors Relevant to All Bicycle Collisions 1996**

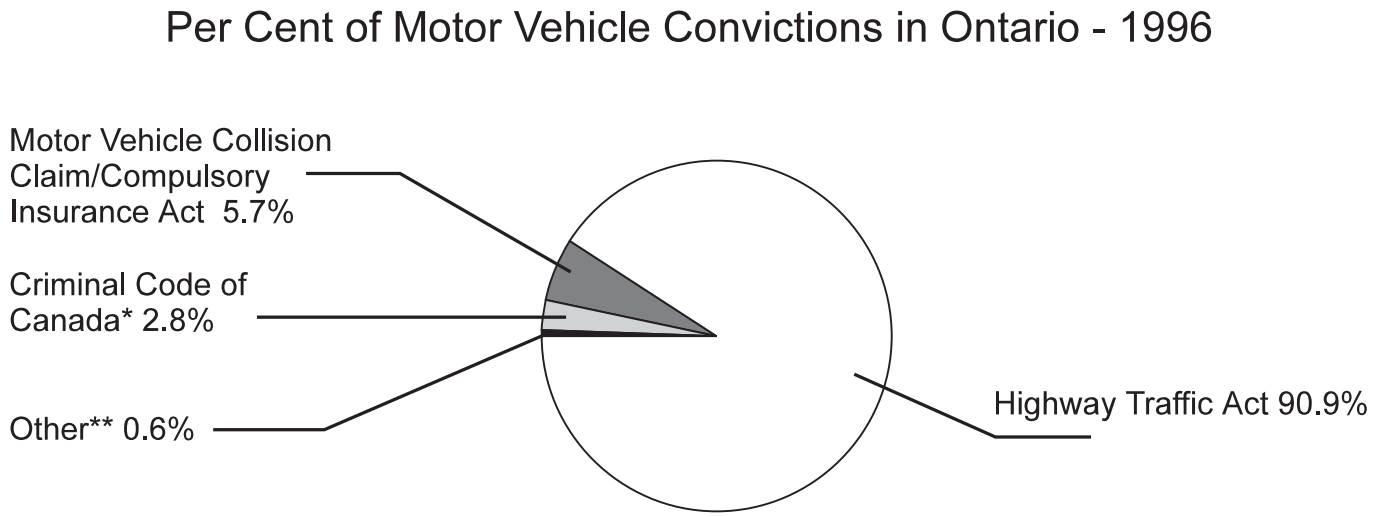
| Factors | % |
|---|---|
| Driving Properly (Bicyclist) | 40 |
| Driving Properly (Motor Vehicle Driver) | 48 |
| Intersection Related | 65 |
| Going Ahead (Bicyclist) | 82 |
| Alcohol Related (Bicyclist) | 3 |
| No Apparent Vehicle Defect (Bicycle) | 90 |
| Clear Visibility | 90 |
| Weekend | 19 |

**Table 6.19 Age of Bicyclist* Involved in Collisions by Light Condition 1996**

| Light | Age Groups | | | | | | |
|---|---|---|---|---|---|---|---|
| Condition | 0 - 5 | 6 - 15 | 16 - 30 | 31 - 60 | 61+ | UK | Total |
| Daylight | 254 | 797 | 953 | 647 | 90 | 69 | **2,810** |
| Dawn | 2 | 1 | 6 | 4 | - | - | **13** |
| Dusk | 11 | 56 | 47 | 34 | 1 | 1 | **150** |
| Dark | 37 | 85 | 212 | 122 | 4 | 10 | **470** |
| **Total** | **304** | **939** | **1,218** | **807** | **95** | **80** | **3,443** |

*** Only collisions involving a bicycle and a moving motor vehicle or a streetcar are required to be reported. These tables do not include bicycle only bicycle/bicycle or bicycle/pedestrian collisions.**

## 7 Conviction and Suspension Data




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

** Includes Municipal By-Law, Motorized Snow Vehicles Act, Off-Road Vehicles Act convictions and H.T.A. Regulation convictions.

# 7a. Conviction Data

**Table 7.1 Summary of Motor Vehicle Related Convictions 1996**

| Convictions** | Number |
|---|---|
| Highway Traffic Act | 779,217 |
| Regulation H.T.A | 1,353 |
| Criminal Code of Canada* | 23,675 |
| Municipal By-Law | 1,243 |
| Motor Vehicle Collision Claim/Compulsory Insurance Act** | 49,204 |
| Motorized Snow Vehicles Act | 1,990 |
| Off-Road Vehicle | 698 |
| **Total** | **857,380** |

* This figure does not include 359 convictions for young offenders under the Criminal Code.

**Table 7.2 Motor Vehicle Convictions Related to the Highway Traffic Act 1996**

| Convictions | Number |
|---|---|
| Equipment | 14,316 |
| Administrative* | 89,755 |
| Seat Belt (Driver & Passenger) | 46,599 |
| Other Non-Pointable Convictions ** | 9,774 |
| Speeding (< 16km/h, non-pointable) | 241,831 |
| Pointable Speeding | 207,677 |
| Other Pointable Convictions (2 - 4 pt) | 118,264 |
| Other Pointable Convictions (5 - 7 pt) | 8,072 |
| Driving While Suspended | 11,560 |
| **Total** | **747,848** |

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

** Now includes some out of province convictions.

**Table 7.3 Motor Vehicle Convictions Related to the Criminal Code 1996***

| Convictions | Number |
|---|---|
| Alcohol Related** | 19,956 |
| Criminal Negligence | 46 |
| Fail to Remain at Collision | 566 |
| Driving While Disqualified | 2,128 |
| Dangerous Driving | 979 |
| Motor Manslaughter | - |
| **Total** | **23,675** |

* Does not include 359 convictions for young offenders.
** Includes some out of province convictions.

## 7b. Suspension Data

**Table 7.4** **Mandatory Suspensions Related to Criminal Code Convictions Issued 1996**

| Suspensions | 3 Months | 6 Months | 1 Year | 2 Years | 3 Years | Total |
|---|---|---|---|---|---|---|
| Criminal Negligence (sect. 220, 221) | - | - | 15 | 22 | 9 | **46** |
| Fail to Remain | - | - | 231 | 190 | 139 | **560** |
| Dangerous Driving | - | - | 352 | 341 | 278 | **971** |
| Impaired Driving | - | - | 3,121 | 4,258 | 3,519 | **10,898** |
| Blood/Alcohol over .08 | - | - | 2,125 | 2,996 | 2,571 | **7,692** |
| Failure to Provide Breath Sample | - | - | 448 | 471 | 389 | **1,308** |
| Failure to Provide Roadside Breath Sample | - | - | - | - | - | **-** |
| Drive while Disqualified or Prohibited | - | - | 803 | 788 | 541 | **2,132** |
| **Total** | **-** | **-** | **7,095** | **9,066** | **7,446** | **23,607** |

Federal and provincial laws relating to drinking and driving were amended December 20, 1985. The current minimum suspension periods are 1 year for a first conviction, 2 years for a second conviction within five years and 3 years for a third conviction within five years.

**Table 7.5** **Mandatory Suspensions Related to Criminal Code Convictions at Year End 1996****

| Suspensions | 3 Months | 6 Months | 1 Year | 2 Years | 3 Years | Total |
|---|---|---|---|---|---|---|
| Criminal Negligence | - | 1 | 29 | 34 | 26 | **90** |
| Fail to Remain | - | - | 319 | 351 | 307 | **977** |
| Dangerous Driving | - | - | 577 | 684 | 571 | **1,832** |
| Impaired Driving | - | - | 4,415 | 6,537 | 5,786 | **16,738** |
| Blood/Alcohol over .08 | - | - | 2,625 | 4,085 | 3,470 | **10,180** |
| Failure to Provide Breath Sample | - | - | 571 | 763 | 685 | **2,019** |
| Failure to Provide Roadside Breath Sample | - | - | - | - | - | **-** |
| Drive while Disqualified or Prohibited | - | - | 2,316 | 2,691 | 641 | **5,648** |
| **Total** | **-** | **1** | **10,852** | **15,145** | **11,486** | **37,484** |

** This table reflects the suspensions in effect at year end. The total exceeds the number of suspensions issued in 1996 due to the fact some suspensions are in effect for more than one year.

**Table 7.6 Demerit Point Suspensions by Driver Age 1996**

| Driver Age | Demerit Point Suspensions | | | | | |
|---|---|---|---|---|---|---|
| | | | Novice | Novice | Regular | Regular |
| | | | First | Second | First | Second |
| | | Probationary | Accumulation | Accumulation | Accumulation | Accumulation |
| 16 | | 1 | 2 | 1 | - | - |
| 17 | | 13 | 94 | 7 | - | - |
| 18 | | 381 | 160 | 5 | 3 | - |
| 19 | | 325 | 83 | 13 | 16 | - |
| 20-24 | | 731 | 228 | 11 | 352 | 17 |
| 25-34 | | 498 | 187 | 5 | 405 | 24 |
| 35-44 | | 115 | 52 | 2 | 141 | 5 |
| 45-54 | | 17 | 17 | - | 60 | 3 |
| 55-64 | | 3 | 3 | - | 17 | 1 |
| 65-74 | | - | - | - | 7 | - |
| 75 + | | - | - | - | 1 | - |
| **Total** | | **2,084** | **826** | **44** | **1,002** | **50** |

Since 1994 novice drivers have been under the new graduated licensing system. These drivers are subject to escalating actions from a warning letter at 2 to 5 points, an interview at 6 to 8 points and a 60 day suspension for a first accumulation of 9 points. After a first suspension, the points are reduced to 4 and if they attain 9 points again the subsequent suspension is 6 months.

Regular drivers are suspended for 30 days on the first accumulation of 15 demerit points and are suspended for 6 months on the second accumulation of 15 points within 2 years.

Until 1994 newly licensed drivers were covered by the probationary licence system until they had successfully completed two one-year periods of suspension-free driving. Probationary drivers were suspended for 30 days after accumulating 6 or more demerit points. The probationary licensing system ended on March 31, 1994. Drivers were grandfathered into the system by the new graduated licensing system.

# 8 Appendix

## 8a. Glossary

**Ability Impaired Alcohol:**
Driving while one's ability is impaired by alcohol or driving with a blood alcohol concentration exceeding 80 milligrams in 100 milliliters of blood.

**Alcohol Involved:**
This category includes both drivers reported as ability impaired by alcohol and drivers reported as "had been drinking".

**Class G1 Driver's Licence:**
A holder of a Class G1 driver's licence:

- must have a zero blood alcohol content while driving.
- must have only one passenger in the front seat. That person, the accompanying driver, must be a fully licensed driver (Class A, B, C, D, E, F and G) with at least four years driving experience. That person's blood alcohol content must be less than .05.
- 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 limit the number of back seat passengers they carry to the number of seat belts in the back seats of the vehicle.
- must not drive between the hours of midnight and 5 a.m.
- may drive Class G vehicle only.

Level One lasts 12 months, but that time can be reduced to eight months by completing an approved driver education course. For information about approved courses contact any Ministry of Transportation licensing office. At the end of this level, drivers must pass a road test before proceeding to Level Two.

**Class G2 Driver's Licence:**
A holder of a Class G2 driver's licence:

- must have a zero blood alcohol content while driving.
- is allowed to drive any motor vehicle that requires a Class G driver's licence (e.g. an automobile) on the road.
- must limit the number of back seat passengers they carry to the number of seat belts in the back seats of the vehicle.

Level Two lasts 12 months. After completing this level, drivers will be 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:

- allows the holder to operate a motorcycle 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).
- is only allowed to drive on roads with speed limits of 80 km/h or less, except where there is no other route you can drive. You may drive on highways 11, 17, 61, 69, 71, 101, 102, 144, and 655.
- may not carry passengers.

Level One lasts at least 60 days, and the licence is valid for 90 days. Level One drivers must pass a motorcycle road test before proceeding to Level Two. Alternatively, during Level One they may take an approved motorcycle 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 content while driving.

After completing Level Two, drivers will be eligible to take a comprehensive test to qualify for full licence privileges.

**Conviction:**
Awarded 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 bylaw.

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

**Had Been Drinking:**
Driving after having drunk 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. Blood alcohol concentration between .05 and .08 results in a 12 hour suspension.

**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:**
Vehicle fleet mileage is estimated on the basis of taxed gasoline and motor fuel sales. Total litres sold are converted to kilometres traveled based on a conversion factor of 22.0 kilometres per gallon.

**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 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:**
An off-highway collision involving any of the motorized vehicles which are covered by legislation under the Highway Traffic Act, the Motorized Snow Vehicles Act, and the Off-Road Vehicles Act.

**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.

**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 accidental injuries up to one year after the collision. Since that date, only deaths from injuries within thirty days of the collision have been included.

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

**Suspension:**
Withdrawal of a drivers' privilege to operate motor vehicle for a prescribed period of time.

* The minimum reportable level for property damage only collision rose from $200 to $400 on January 1, 1978 and rose again to $700 on January 1, 1985.

**ISSN # 0832-8269**