

# **2008 NWT Traffic Collision Facts**

Department of Transportation  
Road Licensing and Safety Division  
September 2009

## **Acknowledgements**

This report was prepared by the Road Licensing and Safety Division of the Department of Transportation, Government of the Northwest Territories, in cooperation with the Planning and Policy Division.

If you have any comments or questions related to the content of this report, please contact the Road Licensing and Safety Division at telephone (867) 873-7406, or by facsimile at (867) 873-0120.

## 2008 QUICK FACTS REPORT

### 2008 Compared to 2007

	<u>2007</u>	<u>2008</u>	<u>% Change</u>
PROPERTY DAMAGE ONLY COLLISIONS	619	740	19.5
PERSONAL INJURY COLLISIONS	114	116	1.8
FATAL COLLISIONS	5	5	0.0
TOTAL REPORTED COLLISIONS	738	861	16.7
NUMBER OF PERSONS KILLED	5	5	0.0
NUMBER OF PERSONS INJURED	156	173	10.9
NWT HIGHWAY SYSTEM COLLISIONS	149	179	20.1
RURAL COLLISIONS	8	5	-37.5
COLLISIONS IN COMMUNITIES	581	677	16.5
REGISTERED VEHICLES	30,078	31,042	3.2
LICENSED DRIVERS	24,442	24,323	-0.5
NWT POPULATION [1]	42,637	43,282	1.5
COLLISIONS PER 100 LICENSED DRIVERS	3.02	3.54	17.2
COLLISIONS PER 100 REGISTERED VEHICLES	2.45	2.77	13.0
COLLISIONS PER 100 POPULATION	1.73	1.99	14.9
COLLISIONS INVOLVING ALCOHOL	46	52	13.0

[1] 2007 and 2008 population from NWT Bureau of Statistics July 1 estimate published in 'Quarterly Report', March 2009.

### Introduction

The Traffic Collision Information System (TCIS) is a computer-based system that compiles information on traffic collisions occurring throughout the Northwest Territories. Information in this publication is derived from the motor vehicle collision report forms that are completed by Royal Canadian Mounted Police detachments in accordance with Section 262 of the *Motor Vehicles Act*. The collection of this valuable data is made possible by the efforts and dedication of the many Royal Canadian Mounted Police officers across the Northwest Territories who complete the forms from their collision investigations.

This publication contains useful information on issues such as - drinking and driving, unsafe speed, young and old drivers, and use of occupant restraints - that affect crashes and their severities. This report is organized in twelve sections. The contents of each section are described below.

---

### Section 1 -Historical Trends

This section illustrates the 20-year history of collisions, victims and licensed drivers and vehicles. There were a total of 861 collisions reported in 2008, which is 16.7 percent greater than 2007. Reporting definitions have remained the same since 1989. Trends in injuries, property damage collisions and total collisions declined steadily between 1989 and 1997. This decline took place in spite of the increased population and number of licensed drivers and registered vehicles. Total collisions and property damage only collisions, however, have generally been increasing since 1997.

Because of the small number of fatal collisions in the Northwest Territories, trends are difficult to identify and subject to year-to-year fluctuations. The 5 traffic fatalities reported in 2008 is close to the 20-year average while the 173 persons injured in 2008 is less than the 20-year average.

### Section 2 - Time of Occurrence

Section 2 shows the distribution of collisions by; time of day, by day of week, and by month. The highest number of collisions occurred during the winter months, November to March. Conversely, injury-producing collisions are more likely to occur during the summer months.

Collisions are most likely to take place during the late afternoon and early evening. More collisions take place on Fridays and Saturdays than on Sundays and weekdays.

### **Section 3 - Major Contributing Factors**

Contributing factors are those circumstances or factors that the reporting police officer perceives to have directly contributed to the collision or its severity. Factors are selected from four categories: driver condition, driver action, vehicle condition and driving environment.

Driver condition is more than twice as prevalent in injury and fatal collisions (15%) than in all collisions (6%). Driver error accounts for 73% of all factors in collisions, as compared to vehicular (1%) and environmental (5%).

### **Section 4 - Environmental Factors**

The driving environment consists of road, light and weather conditions, as well as events leading up to and during a collision. It is important to understand all of these factors to properly design effective countermeasures for reducing collisions. Section 4 provides a breakdown of collisions for each of the different driving environments by severity and road system.

Most collisions occur under favourable conditions, such as clear weather, daylight and on a road surface that is free of defects. Intersection related collisions are far more frequent in communities than in rural areas or on the NWT Highway system.

### **Section 5 - Driver Factors**

This section describes the characteristics of drivers involved in collisions. In 2008, 1,235 drivers were involved in 861 collisions. This is an average of 1.43 drivers per collision. Details on driver age, gender, condition, action and class of licence is presented.

Of particular interest and concern is the over-representation of young drivers in collisions. Drivers aged 15 to 20 years are nearly twice as likely to be involved in a collision than drivers aged 35 to 44 years. On August 1, 2005, the Graduated Driver Licensing Program was introduced to make the process of learning to drive a safer experience. New drivers are required to go through three stages to obtain a full Class 5 licence:

#### **Stage 1 – Learner Class 7**

- Must be 15 years of age.
- Must pass a written examination.
- The Learner's Stage lasts for a minimum of 12 months, providing the driver remains suspension free.

#### **Conditions**

- A Learner must drive with a fully licensed driver, who has a minimum of 24 months experience with a full Class 5 licence.
- Time spent suspended will have to be made up before moving on to the next stage.

- A Learner cannot have any passengers other than the supervisor.
- A Learner cannot drive between the hours of 11 p.m. and 6 a.m.

### Stage 2 – Probationary Class 5P

- Must be 16 years of age.
- Must have completed the 12-month Learner Stage.
- Must pass a practical road examination.
- The Probationary Stage lasts for a minimum of 12 months, providing the driver remains suspension free.

### Conditions

- No supervisor required.
- The number of passengers for a probationary driver can be equal to the number of seat belts available in the vehicle.
- Only one passenger is permitted in the front seat.

### Stage 3 – Full Class 5

- Must be 17 years of age.
- Must have completed the Probationary Stage.

## Section 6 - Vehicle Factors

There were a total of 1,494 vehicles involved in 861 collisions in 2008. This is an average of 1.74 vehicles per collision. This section provides details on the different vehicle types involved in collisions.

## Section 7 - Victims and Occupant Restraints

The Traffic Collision Information System (TCIS) attempts to capture information on all road users involved in collisions, whether they are injured or not. This data can be used to calculate exposure rates for road users by injury severity, age, road user class, gender and many other variables.

Of interest is the relationship between the severity of injury to motor vehicle occupants and seat belt use. The severity of injury is lower for victims using seat belts. In the Northwest Territories, only 8% of victims wearing seat belts were injured. On the other hand, 22% of the victims who were not wearing seat belts were injured.

The proper use of seat belts is an important factor when evaluating their effectiveness in reducing or preventing injuries. This is especially true of young children and the use of child restraints. In the Northwest Territories, it is estimated that less than 35% of children are restrained. It is further estimated that only half of these children are in a correctly installed device or one that is appropriate for the size and age of the child.

### Section 8 - Pedestrians

This section presents a summary of collisions involving pedestrians. For 2008:

- 14 pedestrians were injured;
- no pedestrians were killed;
- 21% of the pedestrians injured were under the age of 15;
- 13 pedestrians were injured within a community;
- none of the pedestrians had been drinking or were impaired by alcohol.

### Section 9 - Alcohol

On December 1, 2004, the Department of Transportation introduced new measures to reduce impaired driving in the Northwest Territories:

- Drivers caught with .05 to .08 blood alcohol content automatically have their driver's licence suspended for 24 hours for a first offence or 30 days for further offences within a 2 year period.
- New drivers with any blood alcohol content automatically have their driver's licence suspended for 30 days.
- Drivers caught with over .08 blood alcohol content or who refuse to provide a breathalyzer sample automatically have their driver's licence suspended for 90 days in addition to Criminal Code charges for impaired driving.
- Drivers convicted of impaired driving under the Criminal Code are automatically prohibited from driving for:
  - 1 year for a first conviction;
  - 3 years for a second conviction;
  - 5 years for a third conviction;
  - 5 or more years for additional convictions or if the offence caused a death.
- Drivers wishing to have their driving privileges reinstated after an administrative licence suspension are required to pay reinstatement fees and may be required to satisfy conditions including:
  - An alcohol dependency assessment;
  - A driver assessment;
  - Participation in a driver improvement program;
  - Participation in an alcohol dependency awareness program;
  - Participation in an alcohol treatment program;
  - Participation in an alcohol ignition interlock program, or
  - Any other condition the Registrar considers appropriate.

- Police have the authority to impound a vehicle for 30 days if the vehicle is operated by a driver whose driving privileges are suspended.

In 2008, there were 52 collisions involving alcohol, resulting in 24 persons being injured. There were 2 alcohol-related fatalities in 2008. These figures are significantly below the 20-year averages.

### **Section 10 - Off-Road Vehicles**

Off-road vehicles, including snowmobiles and All-Terrain Vehicles (ATVs) are a common form of transportation in isolated communities in the Northwest Territories. From the figures presented in this section, the facts below should be noted:

- 73% of off-road vehicle collisions resulted in injuries or fatalities;
- 54% of off-road vehicle drivers involved in collisions are 24 years of age or younger;
- 33% of off-road vehicle drivers in collisions had been drinking or were impaired by alcohol;
- 11% of off-road vehicle drivers or passengers in collisions were wearing helmets;
- 76% of the off-road vehicles involved in collisions were snowmobiles.

### **Section 11 - Geographic Distribution**

This section presents a detailed summary of collisions by Region, RCMP detachment and severity. 62% of collisions took place in the North Slave Region. The North Slave Region also accounted for 39% of persons injured. Fatalities took place in all four Regions.

A map detailing collisions that occurred on the NWT Highway system is shown on Page 44. Highway 3 (Yellowknife Highway) accounted for 43% of collisions occurring on the eight numbered highways.

### **Section 12 – National Comparison**

This section compares injury and fatality rates for Canadian jurisdictions for the 2007 calendar year. This is the most recent year for which complete data is available. Fatality and injury rates are shown; per 100,000 population, per billion vehicle-kilometres of travel, and per 100,000 licensed drivers for each province and territory. The casualty rates for the Northwest Territories are less than the Canada average for three of the six indicators.



## **Definitions**

**REPORTABLE MOTOR VEHICLE COLLISION** - an incident involving one or more motor vehicles resulting in death, personal injury or a minimum of \$1,000 in property damage. The Traffic Collision Information System (TCIS) only records reportable motor vehicle collisions that occur on, or adjacent to, roadways intended for use by the general public. The following is a list of words and terms used in reportable collisions:

**INCIDENT** - Any set of events not under human control that includes at least one occurrence of injury or damage. It originates when human control is lost and terminates when control is regained, or in the absence of persons who are able to regain control when all persons and property are at rest.

Excluded are events which are known to be the result of deliberate intent, legal intervention or natural disasters. As an example, if a vehicle catches fire due to mechanical failure and the driver is able to stop the car, this is not a traffic collision because control of the vehicle was never lost.

**VEHICLE** - is any vehicle designed to travel on land that is drawn, propelled or driven by any kind of power, including muscular power, but does not include a device designed to run exclusively on rails.

**MOTOR VEHICLE** - is a vehicle propelled or driven by power other than by wind, gravity or muscular power and includes a trailer, but does not include:

- (a) an aircraft or a marine vehicle,
- (b) a device that runs or is designed to run exclusively on rails,
- (c) a mechanically propelled wheelchair or mobility device.

**PEDESTRIAN** - is a person on foot, in a wheelchair or mobility device and includes a child in a carriage or carried by a person on foot, persons on ice skates, skis, roller blades, skate boards and persons pushing or pulling vehicles. A pedestrian does NOT include persons jumping or falling from a vehicle in motion.

**DAMAGE** - harm to property that reduces the monetary value of that property. It includes harm to animals that have monetary value. It excludes mechanical failure incurred by normal operation such as a tire blow out or broken fan belt.

**ROADWAY** - any highway, secondary road, rural road, street, avenue, parkway, lane, alley or bridge designed and intended for, or used by, the general public for the passage of vehicles and pedestrians. This includes sidewalks, boulevards and the immediate right-of-way adjacent to and parallel with the roadway. It also

includes winter/ice roads, trails, privately maintained roads, driveways and parking lots on which the general public may travel.

**NWT HIGHWAY COLLISION** – a collision occurring on one of the eight numbered highways or on an Access or Winter road maintained by the Department of Transportation.

**COMMUNITY COLLISION** – a collision occurring within the corporate limits of a community but not on any of the roads on the NWT Highway system.

**RURAL COLLISION** – a collision occurring outside of the corporate limits of a community and off of any of the roads on the NWT Highway system.

**PROPERTY DAMAGE ONLY COLLISION (Property Damage)** - a motor vehicle collision resulting in total damages over the prescribed amount as defined in the *Motor Vehicles Act* (\$1,000) with no personal injuries or deaths.

**INJURY COLLISION (Personal Injury)** - a motor vehicle collision resulting in a non-fatal injury to one or more persons. An injury is defined as any bodily harm resulting from the collision.

**FATAL COLLISION (Fatal)** - a motor vehicle collision resulting in death within 30 days to one or more involved persons. Death must be the result of injuries incurred from the collision. This excludes death from natural causes such as heart attacks.

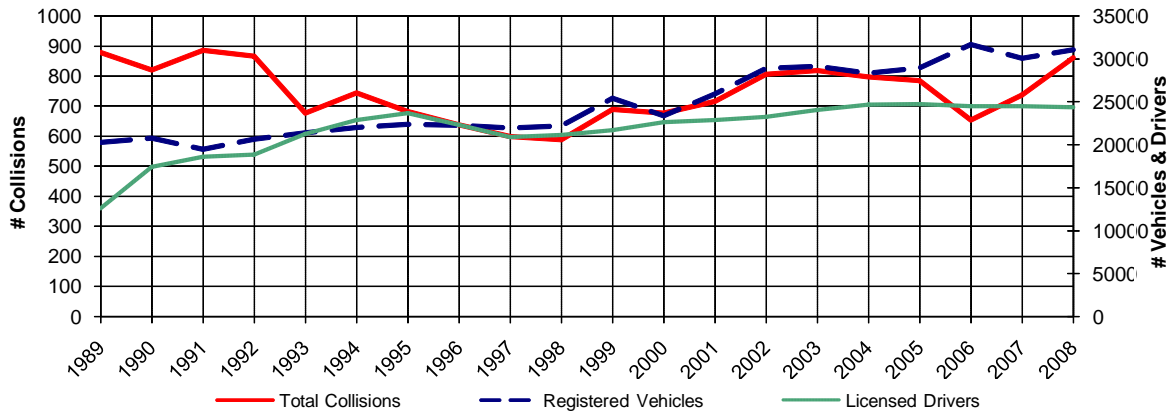
		Page
	<b>Quick Facts - Inside Front Cover</b>	
<b><u>Section 1</u></b>	<b><u>Historical Trends</u></b>	<b>1</b>
Figure	1.1 Trends in Licensed Drivers, Registered Vehicles and Collisions	1
	1.2 Trends in Collision Rates by Vehicles, Drivers and Population	1
	1.3 Trends in Injuries and Fatalities	2
	1.4 Trends in Property Damage Collisions	2
	1.5 Trends in Personal Injury Collisions	3
	1.6 Trends in Fatal Collisions	3
	1.7 Trends in All Reported Collisions	4
	1.8 Property Damage Collisions by Month and Year	4
	1.9 Personal Injury Collisions by Month and Year	5
	1.10 Fatal Collisions by Month and Year	5
	1.11 Total Collisions by Month and Year	6
<b><u>Section 2</u></b>	<b><u>Time of Occurrence</u></b>	<b>7</b>
Figure	2.1 Personal Injury Collisions by Month of Occurrence	7
	2.2 Fatal Collisions by Month of Occurrence	7
	2.3 Total Collisions by Month of Occurrence	7
	2.4 Collisions and Victims by Month of Occurrence	7
	2.5 Total Collisions by Time of Day	7
	2.6 Total Collisions by Day of Week	7
	2.7 Total Collisions by Time of Day and Day of Week	8
<b><u>Section 3</u></b>	<b><u>Major Contributing Factors</u></b>	<b>9</b>
Figure	3.1 Collision by Severity Where Human Condition was a Major Contributing Factor	9
	3.2 Collisions by Severity Where Human Action was a Major Contributing Factor	9
	3.3 Collisions by Severity Where Vehicle Condition was a Major Contributing Factor	9
	3.4 Collisions by Severity Where Environmental Condition was a Major Contributing Factor	10
	3.5 Collisions by Severity Where Major Contributing Factor was Unspecified or Unknown	10
	3.6 Major Contributing Factors by Collision Severity	10
	3.7 Collisions by Road System Where Human Condition was a Major Contributing Factor	11
	3.8 Collisions by Road System Where Human Action was a Major Contributing Factor	11
	3.9 Collisions by Road System Where Vehicle Condition was a Major Contributing Factor	11
	3.10 Collisions by Road System Where Environmental Condition was a Major Contributing Factor	12
	3.11 Collisions by Road System Where Major Contributing Factor was Unspecified or Unknown	12
	3.12 Major Contributing Factors in Collisions - Communities and NWT Highways	12

		Page
<b><u>Section 4</u></b>	<b><u>Environmental Factors</u></b>	<b>13</b>
Figure	4.1 Collisions by Road Surface Type and Severity	13
	4.2 Collisions by Road Surface Environmental Condition and Severity	13
	4.3 Collisions by Road Defect and Severity	14
	4.4 Collisions by Light Condition and Severity	14
	4.5 Collisions by Weather Condition and Severity	15
	4.6 Collisions by Configuration and Severity	16
	4.7 Collisions by Configuration and Road System	17
	4.8 Collisions by Collision Site and Severity	18
	4.9 Collisions by Collision Site and Road System	18
	4.10 Collisions by Roadway Alignment and Severity	18
	4.11 Collisions by Roadway Type and Severity	19
	4.12 Collisions by Sequence of Events and Severity	19
	4.13 Collisions by Sequence of Events and Road System	20
<b><u>Section 5</u></b>	<b><u>Driver Factors</u></b>	<b>21</b>
Figure	5.1 Drivers in Collisions and Relative Risk by Driver Age	21
	5.2 Collision Rates by Severity and Driver Age	21
	5.3 Number of Drivers in Collisions by Licence Class and Age	22
	5.4 Number of Drivers in Collisions by Driver Condition and Age	22
	5.5 Number of Drivers in Collisions by Driver Action and Age	23
<b><u>Section 6</u></b>	<b><u>Vehicle Factors</u></b>	<b>24</b>
Figure	6.1 Number of Vehicles in Collisions by Vehicle Type and Severity	24
	6.2 Number of Vehicles in Collisions by Vehicle Condition and Severity	24
	6.3 Number of Vehicles in Collisions by Vehicle Manoeuvre and Severity	25
	6.4 Number of Vehicles in Collisions by Vehicle Year and Severity	25
<b><u>Section 7</u></b>	<b><u>Victims and Occupant Restraints</u></b>	<b>26</b>
Figure	7.1 Fatalities Classification	26
	7.2 Injuries Classification	26
	7.3 Persons Injured by Road User Class and Age Group	27
	7.4 Persons Killed by Road User Class and Age Group	27
	7.5 Persons Injured or Killed by Road User Class and Gender	27
	7.6 Motor Vehicle Occupants by Injury Severity and Restraint Use	28
	7.7 Restraints Used/Not Used	28
	7.8 Motor Vehicle Occupants by Injury Severity and Age Group	29
	7.9 Victim Restraint Use Rate by Victim Age	29

			Page
<b><u>Section 8</u></b>	<b><u>Pedestrians</u></b>		<b>30</b>
Figure	8.1	Pedestrians Injured or Killed by Age Group	30
	8.2	Pedestrians Injured or Killed by Pedestrian Action and Age Group	30
	8.3	Pedestrians Injured or Killed by Place of Occurrence and Injury Severity	31
	8.4	Pedestrians Injured or Killed by Collision Site	31
	8.5	Pedestrians Injured or Killed by Pedestrian Condition	31
<b><u>Section 9</u></b>	<b><u>Alcohol</u></b>		<b>32</b>
Figure	9.1	Drinking Drivers in Collisions by Driver Age and Gender	32
	9.2	Collisions Involving Alcohol by Day of Week	32
	9.3	Percentage of Collisions Involving Alcohol by Year and Severity	32
	9.4	Number of Collisions and Victims Involving Alcohol	32
	9.5	Number of Alcohol Related Collisions by Time of Day	33
	9.6	Injury Severity by Alcohol Involvement	33
	9.7	Alcohol-Involved Collisions by Month	33
<b><u>Section 10</u></b>	<b><u>Off-Road Vehicles</u></b>		<b>34</b>
Figure	10.1	Off-Road Vehicle Collisions by Month and Severity	34
	10.2	Off-Road Vehicle Collisions by Vehicle Type	34
	10.3	Off-Road Vehicle Drivers in Collisions by Driver Age and Gender	35
	10.4	Off-Road Vehicle Collisions by Severity and Driver Condition	35
	10.5	Off-Road Vehicle Collisions by Severity and Driver Action	36
	10.6	Off-Road Vehicle Occupants by Injury Severity and Helmet Use	36
<b><u>Section 11</u></b>	<b><u>Geographic Distribution</u></b>		<b>37</b>
Figure	11.1	Collisions by Region, RCMP Detachment and Severity	37
	11.2	Collision Rates by Region and RCMP Detachment	38
	11.3	Collisions on the NWT Highway System	39
	11.4	Collisions on the NWT Highway System - Map	44
	11.5	Collision Rates on the NWT Highway System - Map	45
<b><u>Section 12</u></b>	<b><u>National Comparison</u></b>		<b>46</b>
Figure	12.1	Casualty Rates by Canadian Jurisdiction	46
<b><u>Appendix</u></b>			<b>47</b>
Section	A1	Northwest Territories Collision Report Form Side I	47
	A2	Northwest Territories Collision Report Form Side II	48
	A3	Brief Description of Fatal Collisions	49

## Trends in Licensed Drivers, Registered Vehicles and Collisions

Figure 1.1

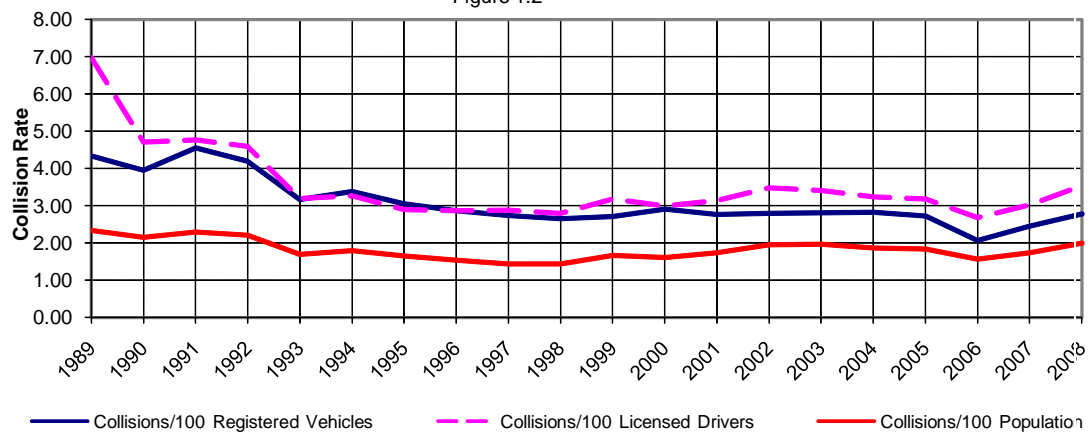


### 3 Year Summary

	2006	2007	2008	% Change
Registered Vehicles	31,664	30,078	31,042	3.2
Licensed Drivers	24,432	24,442	24,323	-0.5
Total Collisions	654	738	861	16.7

## Trends in Collision Rates by Vehicles, Drivers and Population

Figure 1.2

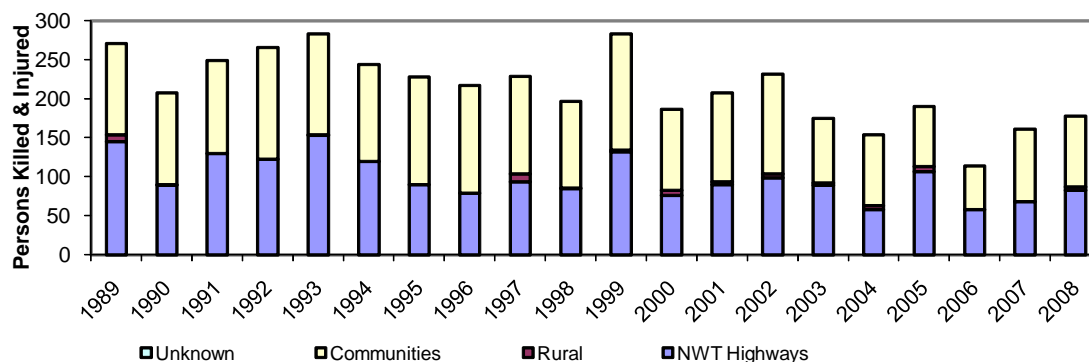


### 3 Year Summary

	2006	2007	2008	% Change
Collisions/100 Registered Vehicles	2.07	2.45	2.77	13.0
Collisions/100 Licensed Drivers	2.68	3.02	3.54	17.2
Collisions/100 Population	1.56	1.73	1.99	14.9

## Trends in Injuries & Fatalities

Figure 1.3

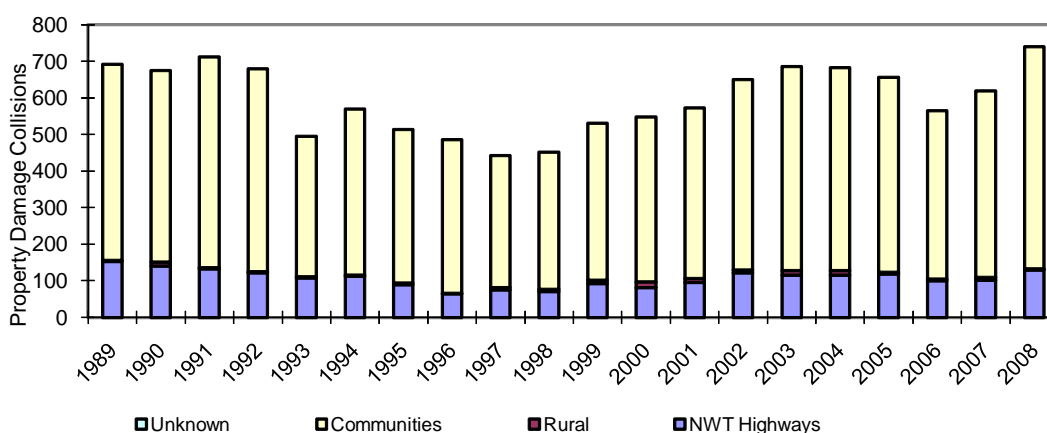


### 3 Year Summary

	Persons Injured					Persons Killed			
	2006	2007	2008	Average		2006	2007	2008	Average
NWT Highways	56	63	80	66	2	5	3	3	
Rural	0	0	4	1	0	0	0	0	
Communities	56	93	89	79	0	0	2	1	
<b>Total</b>	<b>112</b>	<b>156</b>	<b>173</b>	<b>147</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>4</b>	

## Trends in Property Damage Collisions

Figure 1.4

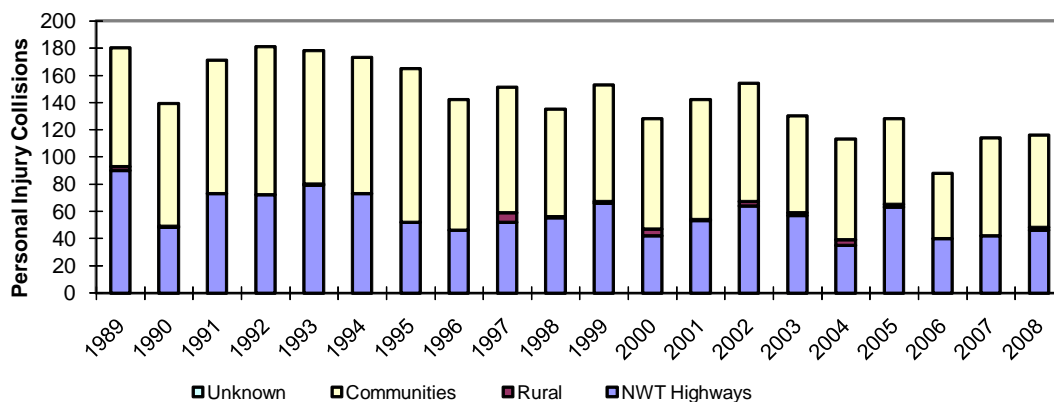


### 3 Year Summary

	Property Damage Collisions			
	2006	2007	2008	Average
NWT Highways	100	102	130	111
Rural	5	8	3	5
Communities	459	509	607	525
<b>Total</b>	<b>564</b>	<b>619</b>	<b>740</b>	<b>641</b>

## Trends in Personal Injury Collisions

Figure 1.5

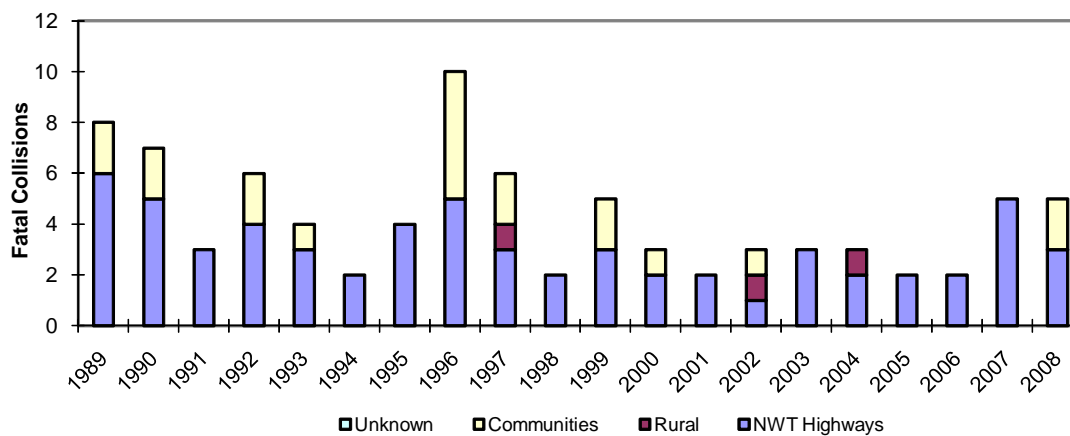


### 3 Year Summary

Personal Injury Collisions				
	2006	2007	2008	Average
NWT Highways	40	42	46	43
Rural	0	0	2	1
Communities	48	72	68	63
<b>Total</b>	<b>88</b>	<b>114</b>	<b>116</b>	<b>106</b>

## Trends in Fatal Collisions

Figure 1.6



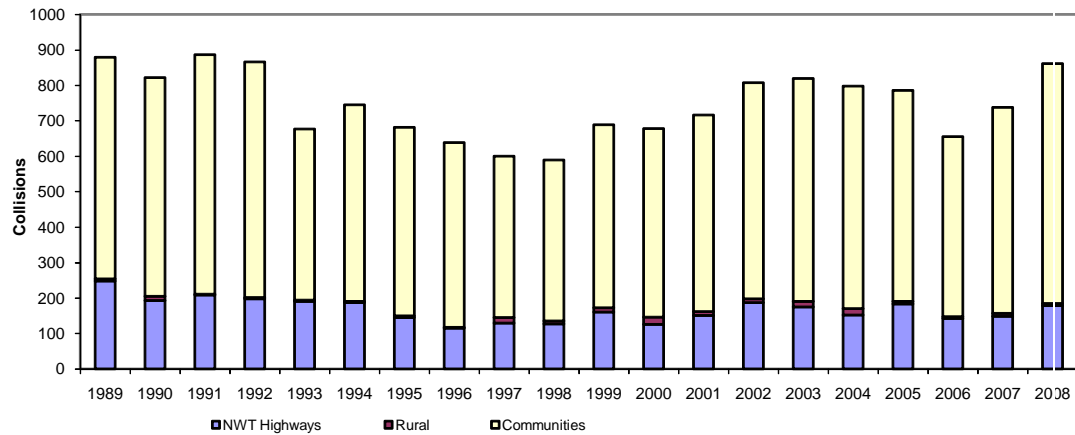
### 3 Year Summary

Fatal Collisions				
	2006	2007	2008	Average
NWT Highways	2	5	3	3
Rural	0	0	0	0
Communities	0	0	2	1
<b>Total</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>4</b>



**Trends in All Reported Collisions**

Figure 1.7



## 3 Year Summary

	2006	2007	2008	Average
NWT Highways	142	149	179	157
Rural	5	8	5	6
Communities	507	581	677	588
<b>Total</b>	<b>654</b>	<b>738</b>	<b>861</b>	<b>751</b>

## Property Damage Collisions by Month and Year

Figure 1.8

Month	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Avg. 98 to 07	2008
January	64	65	60	50	85	91	90	75	62	58	70	101
February	46	65	49	65	64	76	85	87	54	72	66	68
March	36	47	45	59	64	82	58	65	45	84	59	91
April	22	34	33	35	35	47	37	52	42	33	37	44
May	20	30	34	34	42	41	27	39	29	26	32	38
June	29	30	27	39	41	47	51	43	30	45	38	33
July	34	29	31	22	38	38	32	52	45	39	36	37
August	34	38	36	38	53	34	35	42	34	39	38	53
September	34	36	34	32	40	43	49	53	41	43	41	43
October	39	63	58	65	61	47	59	47	33	50	52	56
November	37	45	53	61	64	69	66	51	90	54	59	82
December	57	49	87	72	63	72	93	50	59	76	68	94
<b>Total</b>	<b>452</b>	<b>531</b>	<b>547</b>	<b>572</b>	<b>650</b>	<b>687</b>	<b>682</b>	<b>656</b>	<b>564</b>	<b>619</b>	<b>596</b>	<b>740</b>

## Historical Trends – Section 1

**Personal Injury Collisions by Month and Year**

Figure 1.9

Month	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Avg. 98 to 07	2008
January	10	15	17	13	11	9	15	10	12	6	12	10
February	10	13	14	14	6	25	8	8	4	15	12	16
March	11	11	9	7	8	11	7	10	8	9	9	10
April	7	9	4	7	5	7	11	3	10	7	7	7
May	4	6	9	8	9	10	9	5	4	3	7	11
June	20	12	9	14	15	9	10	15	8	10	12	10
July	11	22	11	6	19	12	9	17	6	11	12	9
August	14	12	7	16	16	11	18	15	8	13	13	7
September	11	11	9	10	13	6	10	9	5	12	10	6
October	17	20	12	21	22	15	6	13	9	9	14	10
November	8	10	10	10	15	7	3	16	10	8	10	10
December	12	12	17	16	15	8	7	7	4	11	11	10
<b>Total</b>	<b>135</b>	<b>153</b>	<b>128</b>	<b>142</b>	<b>154</b>	<b>130</b>	<b>113</b>	<b>128</b>	<b>88</b>	<b>114</b>	<b>129</b>	<b>116</b>

**Fatal Collisions by Month and Year**

Figure 1.10

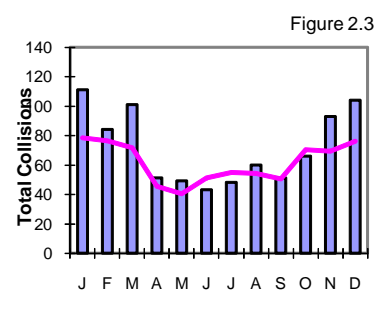
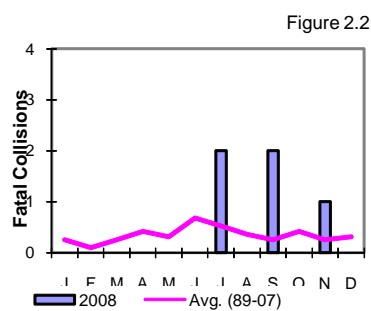
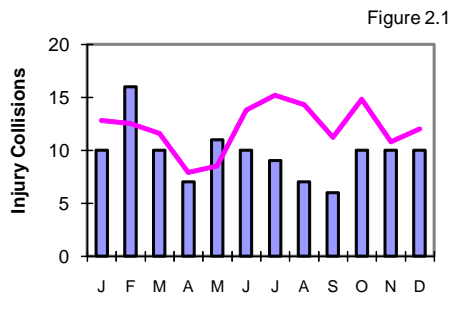
Month	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Avg. 98 to 07	2008
January	0	0	1	1	0	1	0	0	1	0	0.4	0
February	0	0	0	0	1	0	1	0	0	0	0.2	0
March	0	0	0	0	0	0	0	0	0	0	0.0	0
April	0	1	0	1	0	0	0	0	0	0	0.2	0
May	0	0	0	0	0	0	0	1	0	1	0.2	0
June	0	0	0	0	0	1	1	1	0	0	0.3	0
July	0	1	0	0	0	0	0	0	1	1	0.3	2
August	0	1	1	0	0	0	0	0	0	0	0.2	0
September	1	1	0	0	0	0	0	0	0	2	0.4	2
October	1	0	1	0	1	0	0	0	1	0	0.4	0
November	0	0	0	0	1	0	0	0	0	0	0.1	1
December	0	1	0	0	0	1	1	0	0	1	0.4	0
<b>Total</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>3.1</b>	<b>5</b>

**Total Collisions by Month and Year**

Figure 1.11

Month	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Avg. 98 to 07	2008
January	74	80	78	64	96	101	105	85	75	64	82	111
February	56	78	63	79	71	101	94	95	58	87	78	84
March	47	58	54	66	72	93	65	75	53	93	68	101
April	29	44	37	43	40	54	48	55	52	40	44	51
May	24	36	43	42	51	51	36	45	33	30	39	49
June	49	42	36	53	56	57	62	59	38	55	51	43
July	45	52	42	28	57	50	41	69	52	51	49	48
August	48	51	44	54	69	45	53	57	42	52	52	60
September	46	48	43	42	53	48	59	62	46	57	50	51
October	57	83	71	86	84	62	65	60	43	59	67	66
November	45	55	63	71	80	76	69	67	100	62	69	93
December	69	62	104	88	78	81	101	57	63	88	79	104
<b>Total</b>	<b>589</b>	<b>689</b>	<b>678</b>	<b>716</b>	<b>807</b>	<b>819</b>	<b>798</b>	<b>786</b>	<b>655</b>	<b>738</b>	<b>728</b>	<b>861</b>

## Collisions by Month of Occurrence



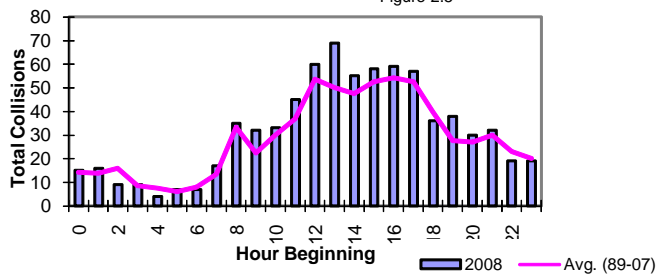
## Collisions & Victims by Month of Occurrence

Figure 2.4

Month	Number of Collisions				Number of Victims	
	Property Damage	Personal Injury	Fatal	Total	Injured	Killed
January	101	10	0	111	11	0
February	68	16	0	84	23	0
March	91	10	0	101	14	0
April	44	7	0	51	8	0
May	38	11	0	49	13	0
June	33	10	0	43	27	0
July	37	9	2	48	11	2
August	53	7	0	60	12	0
September	43	6	2	51	10	2
October	56	10	0	66	10	0
November	82	10	1	93	22	1
December	94	10	0	104	12	0
<b>Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>173</b>	<b>5</b>

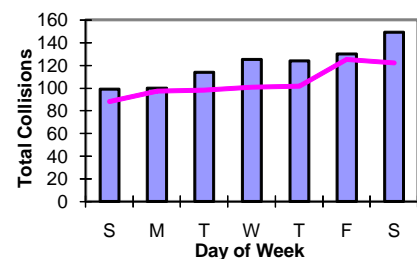
## Total Collisions by Time of Day

Figure 2.5



## Total Collisions by Day of Week

Figure 2.6



**Collisions by Time of Day & Day of Week\***

Figure 2.7

Collision Hour	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Total	%
12 to 1 a.m.	3	1	3	3	2	1	2	15	1.8
1 to 2 a.m.	1	1	2	2	2	1	7	16	1.9
2 to 3 a.m.	3	0	1	1	0	1	3	9	1.1
3 to 4 a.m.	4	0	0	1	2	1	1	9	1.1
4 to 5 a.m.	3	0	0	0	1	0	0	4	0.5
5 to 6 a.m.	0	1	1	0	3	0	2	7	0.8
6 to 7 a.m.	1	1	0	2	0	1	2	7	0.8
7 to 8 a.m.	3	3	3	4	0	2	2	17	2.0
8 to 9 a.m.	1	11	2	7	10	4	0	35	4.2
9 to 10 a.m.	2	4	7	2	6	7	4	32	3.8
10 to 11 a.m.	1	6	4	5	4	7	6	33	3.9
11 to 12 a.m.	7	4	7	6	7	5	9	45	5.4
12 to 1 p.m.	2	7	9	9	13	9	11	60	7.1
1 to 2 p.m.	4	5	13	12	10	13	12	69	8.2
2 to 3 p.m.	11	8	5	4	9	9	9	55	6.5
3 to 4 p.m.	9	3	10	11	7	8	10	58	6.9
4 to 5 p.m.	1	9	7	3	9	16	14	59	7.0
5 to 6 p.m.	5	9	6	12	8	7	10	57	6.8
6 to 7 p.m.	5	2	8	5	3	2	11	36	4.3
7 to 8 p.m.	5	4	4	11	6	3	5	38	4.5
8 to 9 p.m.	5	4	3	4	3	7	4	30	3.6
9 to 10 p.m.	4	2	8	6	4	3	5	32	3.8
10 to 11 p.m.	2	3	2	3	0	5	4	19	2.3
11 to 12 p.m.	3	2	2	1	4	4	3	19	2.3
Not Stated	14	10	7	11	11	14	13	80	9.5
<b>Total</b>	<b>99</b>	<b>100</b>	<b>114</b>	<b>125</b>	<b>124</b>	<b>130</b>	<b>149</b>	<b>841</b>	
<b>%</b>	<b>11.8</b>	<b>11.9</b>	<b>13.6</b>	<b>14.9</b>	<b>14.7</b>	<b>15.5</b>	<b>17.7</b>	<b>100.0</b>	

\* Excludes collisions in which Day of Week was unknown.

## Major Contributing Factors – Section 3

**Collisions by Severity Where Human Condition was a Major Contributing Factor**

Figure 3.1

Human Condition	Property Damage	Personal Injury	Fatal	% of Total	
				Total	Factors
Fatigued, Fell Asleep	2	0	0	2	0.2
Inexperience	0	0	0	0	0.0
Under Influence - Alcohol	34	16	2	52	6.0
Under Influence - Drugs	0	0	0	0	0.0
Sudden Illness, Lost Consciousness	0	0	0	0	0.0
Other Driver Condition	0	0	0	0	0.0
<b>Total</b>	<b>36</b>	<b>16</b>	<b>2</b>	<b>54</b>	<b>6.3</b>

**Collisions by Severity Where Human Action was a Major Contributing Factor**

Figure 3.2

Human Action	Property Damage	Personal Injury	Fatal	% of Total	
				Total	Factors
Following Too Closely	40	8	0	48	5.6
Distracted, Inattentive	75	17	0	92	10.7
Driving Too Fast for Conditions	88	18	2	108	12.5
Improper Turning or Passing	15	1	0	16	1.9
Failed to Yield Right-of-Way	24	6	0	30	3.5
Disobeyed Traffic Control/Officer	0	2	0	2	0.2
Driving on Wrong Side of Road	1	2	0	3	0.3
Driving in Wrong Direction	0	0	0	0	0.0
Backing Unsafely	187	6	0	193	22.4
Lost Control	101	35	1	137	15.9
Other Driver Action	0	0	0	0	0.0
<b>Total</b>	<b>531</b>	<b>95</b>	<b>3</b>	<b>629</b>	<b>73.1</b>

**Collisions by Severity Where Vehicle Condition was a Major Contributing Factor**

Figure 3.3

Vehicle Condition	Property Damage	Personal Injury	Fatal	% of Total	
				Total	Factors
Defective Brakes	0	0	0	0	0.0
Defective Steering	0	0	0	0	0.0
Defective Lights	0	0	0	0	0.0
Tire Blown Out	0	0	0	0	0.0
Unsecured Load, Spilled Load	0	0	0	0	0.0
Oversized Load, Overload	1	0	0	1	0.1
Visibility Obstructed	1	0	0	1	0.1
Other Vehicle Contributing Factor	4	0	0	4	0.5
<b>Total</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0.7</b>

## Major Contributing Factors – Section 3

**Collisions by Severity Where Environmental Condition was a Major Contributing Factor**

Figure 3.4

Environmental Condition	Property Damage	Personal Injury	Fatal	% of Total	
				Total	Factors
Animal on Roadway	38	2	0	40	4.6
Road Surface or Condition	2	1	0	3	0.3
Obstruction/Debris on Road	1	0	0	1	0.1
View Obstructed, Glare, Reflection	0	0	0	0	0.0
Weather or Other Acts of God	0	0	0	0	0.0
Other Environmental Factor	0	0	0	0	0.0
<b>Total</b>	<b>41</b>	<b>3</b>	<b>0</b>	<b>44</b>	<b>5.1</b>

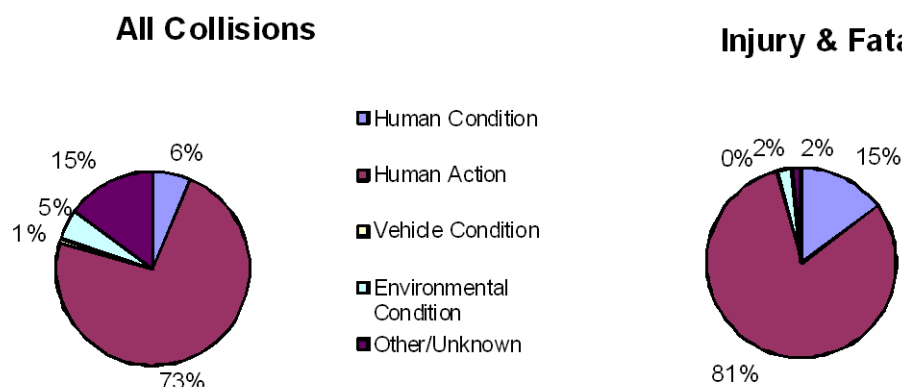
**Collisions by Severity Where Major Contributing Factor was Unspecified or Unknown**

Figure 3.5

Factor	Property Damage	Personal Injury	Fatal	% of Total	
				Total	Factors
Unspecified	1	0	0	1	0.1
Unknown	125	2	0	127	14.8
<b>Total</b>	<b>126</b>	<b>2</b>	<b>0</b>	<b>128</b>	<b>14.9</b>
<b>Total All Factors</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100.0</b>

**Major Contributing Factors by Collision Severity**

Figure 3.6



TCIS recognizes that a collision is usually the result of a chain of events. The collision data system accepts up to four contributing factors for each vehicle involved in a collision. During the analysis of collisions, knowledge of the factors is important. By removing any one of the factors, the collision may be avoided.

An example: Because of inattention, a driver may have failed to see a stop sign behind some trees and thereby reduced his/her stopping time. The car's brakes, being in poor condition, caused the car to spin out of control on ice and collide with another vehicle that was speeding through the intersection. The collision may not have occurred if any of these factors were not present.

### Collisions by Road System Where Human Condition was a Major Contributing Factor

Figure 3.7

Human Condition	NWT Highways	In Communities	Rural	Total	% of Total Factors
Fatigued, Fell Asleep	2	0	0	2	0.2
Inexperience	0	0	0	0	0.0
Under Influence - Alcohol	13	39	0	52	6.0
Under Influence - Drugs	0	0	0	0	0.0
Sudden Illness, Lost Consciousness	0	0	0	0	0.0
Other Driver Condition	0	0	0	0	0.0
<b>Total</b>	<b>15</b>	<b>39</b>	<b>0</b>	<b>54</b>	<b>6.3</b>

### Collisions by Road System Where Human Action was a Major Contributing Factor

Figure 3.8

Human Action	NWT Highways	In Communities	Rural	Total	% of Total Factors
Following Too Closely	4	44	0	48	5.6
Distracted, Inattentive	10	81	1	92	10.7
Driving Too Fast for Conditions	19	89	0	108	12.5
Improper Turning or Passing	0	16	0	16	1.9
Failed to Yield Right-of-Way	2	28	0	30	3.5
Disobeyed Traffic Control/Officer	1	1	0	2	0.2
Driving on Wrong Side of Road	0	3	0	3	0.3
Driving in Wrong Direction	0	0	0	0	0.0
Backing Unsafely	1	190	2	193	22.4
Lost Control	80	56	1	137	15.9
Other Driver Action	0	0	0	0	0.0
<b>Total</b>	<b>117</b>	<b>508</b>	<b>4</b>	<b>629</b>	<b>73.1</b>

### Collisions by Road System Where Vehicle Condition was a Major Contributing Factor

Figure 3.9

Vehicle Condition	NWT Highways	In Communities	Rural	Total	% of Total Factors
Defective Brakes	0	0	0	0	0.0
Defective Steering	0	0	0	0	0.0
Defective Lights	0	0	0	0	0.0
Tire Blown Out	0	0	0	0	0.0
Unsecured Load, Spilled Load	0	0	0	0	0.0
Oversized Load, Overload	0	1	0	1	0.1
Visibility Obstructed	1	0	0	1	0.1
Other Vehicle Contributing Factor	1	3	0	4	0.5
<b>Total</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>0.7</b>



## Major Contributing Factors – Section 3

**Collisions by Road System Where Environmental Condition was a Major Contributing Factor**

Figure 3.10

Environmental Condition	NWT	In	Rural	% of Total	
	Highways	Communities		Total	Factors
Animal on Roadway	39	1	0	40	4.6
Road Surface or Condition	0	3	0	3	0.3
Obstruction/Debris on Road	0	1	0	1	0.1
View Obstructed, Glare, Reflection	0	0	0	0	0.0
Weather or Other Acts of God	0	0	0	0	0.0
Other Environmental Factor	0	0	0	0	0.0
<b>Total</b>	<b>39</b>	<b>5</b>	<b>0</b>	<b>44</b>	<b>5.1</b>

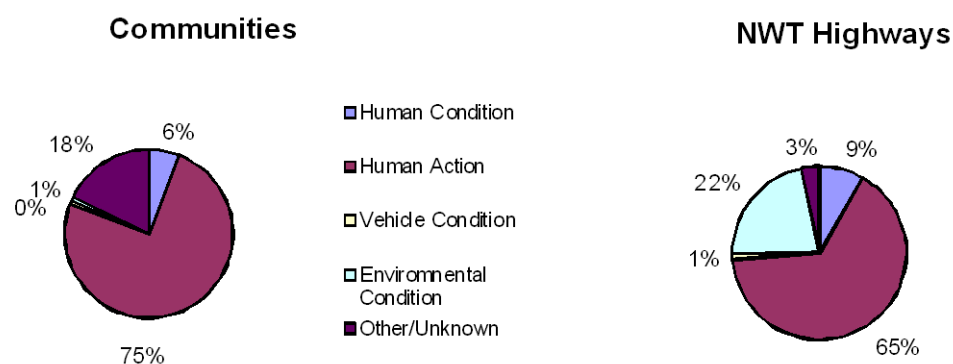
**Collisions by Road System Where Major Contributing Factor was Unspecified or Unknown**

Figure 3.11

Factor	NWT	In	Rural	% of Total	
	Highways	Communities		Total	Factors
Unspecified	0	1	0	1	0.1
Unknown	6	120	1	127	14.8
<b>Total</b>	<b>6</b>	<b>121</b>	<b>1</b>	<b>128</b>	<b>14.9</b>
<b>Total All Factors</b>	<b>179</b>	<b>677</b>	<b>5</b>	<b>861</b>	<b>100.0</b>

**Major Contributing Factors in Collisions - Communities and NWT Highways**

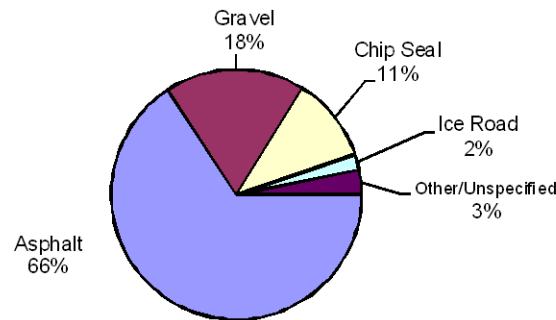
Figure 3.12



## Collisions by Road Surface Type and Severity

Figure 4.1

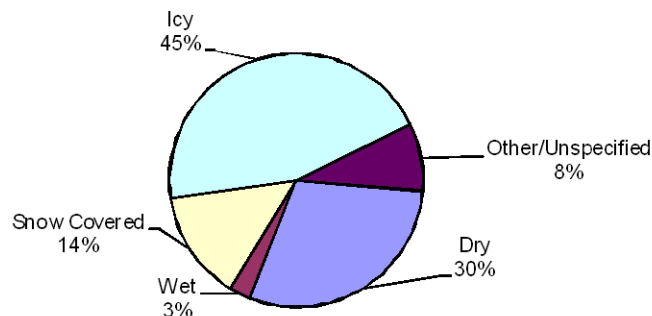
Road Surface Type	Property Damage	Personal Injury	Fatal	Total	%
Asphalt	515	51	0	566	65.7
Concrete	3	0	0	3	0.3
Gravel (Crushed Stone)	115	38	3	156	18.1
Earth, Dirt	6	0	0	6	0.7
Chip Seal	71	21	2	94	10.9
Brick, Cobblestone	0	0	0	0	0.0
Wooden	0	0	0	0	0.0
Steel	0	0	0	0	0.0
Ice Road	12	6	0	18	2.1
Unspecified	18	0	0	18	2.1
<b>Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100.0</b>



## Collisions by Road Surface Environmental Condition and Severity

Figure 4.2

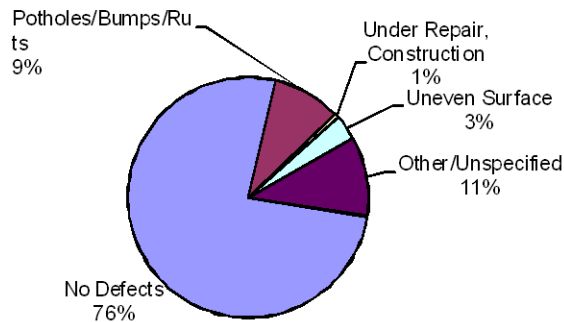
Surface Condition	Property Damage	Personal Injury	Fatal	Total	%
Dry	213	40	2	255	29.6
Wet	20	3	0	23	2.7
Snow (Fresh, Loose)	104	11	1	116	13.5
Slush, Wet Snow	4	1	0	5	0.6
Icy	336	52	0	388	45.1
Loose Sand/Gravel/Dirt	22	7	2	31	3.6
Muddy	3	1	0	4	0.5
Fresh Oil	0	0	0	0	0.0
Flooded	0	0	0	0	0.0
Other	3	0	0	3	0.3
Unspecified	35	1	0	36	4.2
<b>Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100</b>



## Collisions by Road Defect and Severity

Figure 4.3

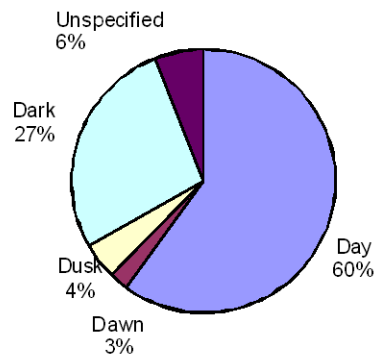
Road Defect	Property Damage	Personal Injury	Fatal	Total	%
No Defects	582	71	3	656	76.2
Potholes/Bumps/Ruts	56	21	2	79	9.2
Under Repair, Construction	3	2	0	5	0.6
Uneven Pavement Surface	21	8	0	29	3.4
Worn	11	1	0	12	1.4
Obscured or Faded Markings	2	3	0	5	0.6
Other	16	5	0	21	2.4
Unspecified	49	5	0	54	6.3
<b>Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100.0</b>



## Collisions by Light Condition and Severity

Figure 4.4

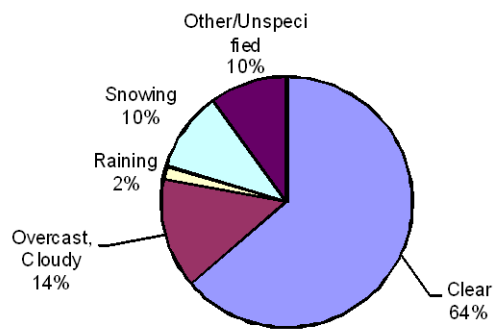
Light Condition	Property Damage	Personal Injury	Fatal	Total	%
Day	432	80	4	516	59.9
Dawn	16	5	0	21	2.4
Dusk	34	4	0	38	4.4
Dark	206	27	1	234	27.2
Unspecified	52	0	0	52	6.0
<b>Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100.0</b>



**Collisions by Weather Condition and Severity**

Figure 4.5

Weather Condition	Property Damage	Personal Injury	Fatal	Total	%
Clear (Sunny)	464	82	3	549	63.8
Overcast, Cloudy (No Precipitation)	106	14	2	122	14.2
Raining	12	3	0	15	1.7
Snowing	76	12	0	88	10.2
Freezing Rain/Sleet/Hail	1	0	0	1	0.1
Visibility Limitations (fog, dust, etc.)	20	3	0	23	2.7
Strong Winds	5	2	0	7	0.8
Other	0	0	0	0	0.0
Unspecified	56	0	0	56	6.5
<b>Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100.0</b>











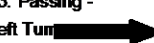

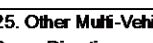
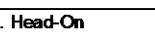

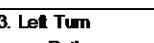






## Environmental Factors – Section 4

**Collisions by Configuration and Severity**

Figure 4.6

Configuration*	Property Damage	Personal Injury	Fatal	Total	% of Total
01. Hit Moving Object					
a) With Bison	29	2	0	31	3.6
b) With Other Animal	12	0	0	12	1.4
c) With Pedestrian	0	13	0	13	1.5
d) Other	0	0	0	0	0.0
02. Hit Stationary Object	58	5	1	64	7.4
03. Off Road Left					
a) With Rollover	8	7	1	16	1.9
b) No Rollover	18	6	1	25	2.9
04. Off Road Right					
a) With Rollover	19	14	1	34	3.9
b) No Rollover	22	7	0	29	3.4
05. Rollover on Roadway	9	9	1	19	2.2
06. Other Single Vehicle	1	1	0	2	0.2
21. Rear End	116	27	0	143	16.6
22. Sideswipe - Same Direction	21	0	0	21	2.4
23. Passing - Left Turn	0	0	0	0	0.0
24. Passing - Right Turn	2	0	0	2	0.2
25. Other Multi-Vehicle Same Direction	5	1	0	6	0.7
31. Head-On	3	1	0	4	0.5
32. Sideswipe - Opposite Direction	11	1	0	12	1.4
33. Left Turn Across Path	10	3	0	13	1.5
34. Right Turn Including Conflict	5	1	0	6	0.7
35. Right Angle	86	11	0	97	11.3
36. Other Multi-Vehicle Opposite Direction	13	1	0	14	1.6
41. Hit Parked Vehicle	292	6	0	298	34.6
QQ. Other Collision Type	0	0	0	0	0.0
UU. Unknown Collision Type	0	0	0	0	0.0
<b>Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100.0</b>

**\*Collision Configurations**

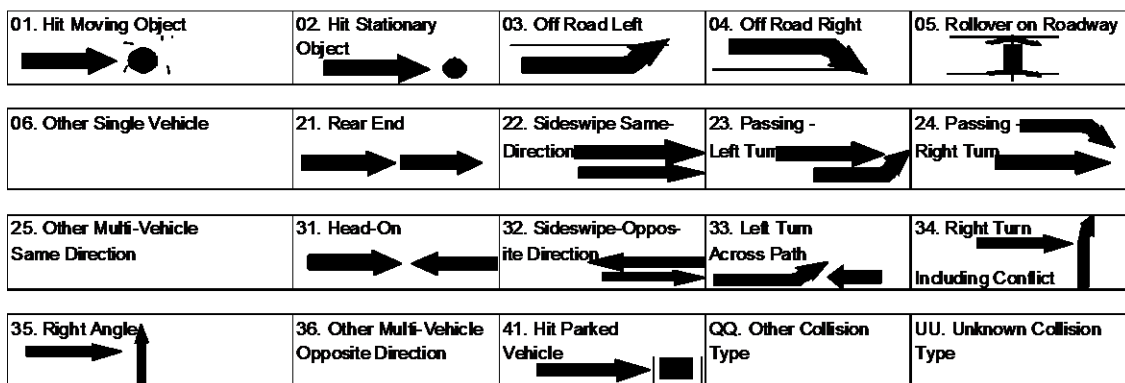
01. Hit Moving Object 	02. Hit Stationary Object 	03. Off Road Left 	04. Off Road Right 	05. Rollover on Roadway 
06. Other Single Vehicle 	21. Rear End 	22. Sideswipe Same-Direction 	23. Passing - Left Turn 	24. Passing - Right Turn 
25. Other Multi-Vehicle Same Direction 	31. Head-On 	32. Sideswipe-Opposite Direction 	33. Left Turn Across Path 	34. Right Turn Including Conflict 
35. Right Angle 	36. Other Multi-Vehicle Opposite Direction 	41. Hit Parked Vehicle 	QQ. Other Collision Type 	UU. Unknown Collision Type 

**Collisions by Configuration and Road System**

Figure 4.7

Configuration*	NWT Highways	In Communities	Rural	Total	% of Total
01. Hit Moving Object					
a) With Bison	31	0	0	31	3.6
b) With Other Animal	11	1	0	12	1.4
c) With Pedestrian	0	12	1	13	1.5
d) Other	0	0	0	0	0.0
02. Hit Stationary Object	10	54	0	64	7.4
03. Off Road Left					
a) With Rollover	15	1	0	16	1.9
b) No Rollover	18	7	0	25	2.9
04. Off Road Right					
a) With Rollover	32	2	0	34	3.9
b) No Rollover	19	10	0	29	3.4
05. Rollover on Roadway	15	3	1	19	2.2
06. Other Single Vehicle	0	2	0	2	0.2
21. Rear End	10	133	0	143	16.6
22. Sideswipe - Same Direction	1	20	0	21	2.4
23. Passing - Left Turn	0	0	0	0	0.0
24. Passing - Right Turn	0	2	0	2	0.2
25. Other Multi-Vehicle Same Direction	1	5	0	6	0.7
31. Head-On	1	3	0	4	0.5
32. Sideswipe - Opposite Direction	5	7	0	12	1.4
33. Left Turn Across Path	3	10	0	13	1.5
34. Right Turn Including Conflict	0	6	0	6	0.7
35. Right Angle	3	94	0	97	11.3
36. Other Multi-Vehicle Opposite Direction	1	13	0	14	1.6
41. Hit Parked Vehicle	3	292	3	298	34.6
QQ. Other Collision Type	0	0	0	0	0.0
UU. Unknown Collision Type	0	0	0	0	0.0
<b>Total</b>	<b>179</b>	<b>677</b>	<b>5</b>	<b>861</b>	<b>100.0</b>

**\*Collision Configurations**



**Collisions by Collision Site and Severity**

Figure 4.8

<b>Collision Site</b>	<b>Property Damage</b>	<b>Personal Injury</b>	<b>Fatal</b>	<b>Total</b>	<b>%</b>
Non-Intersection	334	57	4	395	45.9
Intersection - Two Public Roadways	160	45	1	206	23.9
Intersection - Parking Lot, Driveway	161	11	0	172	20.0
Railroad Level Crossing	0	0	0	0	0.0
Bridge, Overpass, Viaduct	1	0	0	1	0.1
Tunnel, Underpass	0	0	0	0	0.0
Passing, Climbing Lane	0	0	0	0	0.0
Ramp	0	0	0	0	0.0
Other	78	3	0	81	9.4
Unknown	6	0	0	6	0.7
<b>Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100.0</b>

**Collisions by Collision Site and Road System**

Figure 4.9

<b>Collision Site</b>	<b>NWT Highways</b>	<b>In Communities</b>	<b>Rural</b>	<b>Total</b>	<b>%</b>
Non-Intersection	156	236	3	395	45.9
Intersection - Two Public Roadways	17	189	0	206	23.9
Intersection - Parking Lot, Driveway	4	167	1	172	20.0
Railroad Level Crossing	0	0	0	0	0.0
Bridge, Overpass, Viaduct	1	0	0	1	0.1
Tunnel, Underpass	0	0	0	0	0.0
Passing, Climbing Lane	0	0	0	0	0.0
Ramp	0	0	0	0	0.0
Other	1	79	1	81	9.4
Unknown	0	6	0	6	0.7
<b>Total</b>	<b>179</b>	<b>677</b>	<b>5</b>	<b>861</b>	<b>100.0</b>

**Collisions by Roadway Alignment and Severity**

Figure 4.10

<b>Road Alignment</b>	<b>Property Damage</b>	<b>Personal Injury</b>	<b>Fatal</b>	<b>Total</b>	<b>%</b>
Straight & Level	572	79	2	653	75.8
Straight with Grade	60	13	0	73	8.5
Curved and Level	57	14	2	73	8.5
Curve with Grade	22	5	1	28	3.3
Top of Hill or Grade	6	3	0	9	1.0
Bottom of Hill or Grade	13	0	0	13	1.5
Other	0	0	0	0	0.0
Unknown	10	2	0	12	1.4
<b>Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100.0</b>

**Collisions by Roadway Type and Severity**

Figure 4.11

Road Type	Property Damage	Personal Injury	Fatal	Total	%
One-Way, Two Lane	2	0	0	2	0.2
One-Way, Multi Lane	1	0	0	1	0.1
Undivided, Two-Way, Two Lane	453	90	5	548	63.6
Undivided, Two-Way, Multi Lane	39	9	0	48	5.6
Divided, Barrier Median	1	2	0	3	0.3
Divided with Median, No Barrier	31	9	0	40	4.6
Divided, Divider Unspecified	0	0	0	0	0.0
Other	208	6	0	214	24.9
Unknown	5	0	0	5	0.6
<b>Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100.0</b>

**Collision Sequence of Events by Severity**

Figure 4.12

Non-Moving Objects	Property Damage	Personal Injury	Fatal	Total	%
Hit Parked Trailer	0	0	0	0	0.0
Hit Non-Fixed Object	2	0	0	2	0.2
Hit Building	5	0	0	5	0.6
Hit Ditch	0	0	0	0	0.0
Hit Embankment, Dirt Pile, Rock	2	0	0	2	0.2
Hit Culvert End, Drainage Structure	0	0	0	0	0.0
Hit Tree, Bush, Hedge	0	0	0	0	0.0
Hit Utility Pole, Lamp Pole	6	1	0	7	0.8
Hit Curb	0	0	0	0	0.0
Hit Post	4	0	0	4	0.5
Hit Traffic Barrier	2	0	0	2	0.2
Hit Fixed Object Part of Road Structure	2	0	0	2	0.2
Hit Fixed Object NOT Part of Road Structure	1	0	0	1	0.1
Hit Other Type Fixed Object	2	0	0	2	0.2
<b>Sub Total Fixed Objects</b>	<b>26</b>	<b>1</b>	<b>0</b>	<b>27</b>	<b>3.1</b>
<b>Moveable Objects</b>					
Another Road Vehicle	564	52	0	616	71.5
Bison	29	2	0	31	3.6
Other Animal	12	0	0	12	1.4
Pedestrian	0	13	0	13	1.5
Other Moveable Object	0	0	0	0	0.0
<b>Sub Total Moveable Objects</b>	<b>605</b>	<b>67</b>	<b>0</b>	<b>672</b>	<b>78.0</b>
<b>Non-Collision Events</b>					
Ran Off Road	40	0	0	40	4.6
Rollover	36	30	3	69	8.0
Jack Knife or Trailer Swing	0	0	0	0	0.0
Fire or Explosion	0	0	0	0	0.0
Load Spill	0	0	0	0	0.0
Load Shift	0	0	0	0	0.0
Submersion	1	0	0	1	0.1
Other Non-Collision Event	0	0	0	0	0.0
<b>Sub Total Non-Collision Events</b>	<b>77</b>	<b>30</b>	<b>3</b>	<b>110</b>	<b>12.8</b>
<b>Other/Unknown Event</b>	<b>32</b>	<b>18</b>	<b>2</b>	<b>52</b>	<b>6.0</b>
<b>Grand Total</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>100.0</b>



Collision Sequence of Events by Road System

Figure 4.13

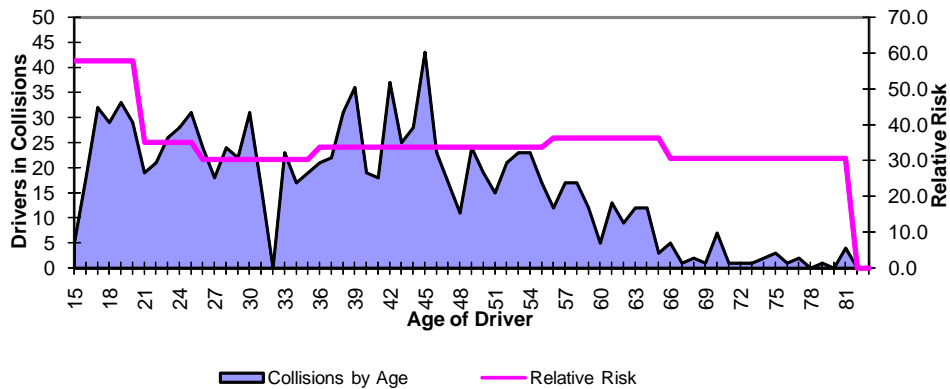
	NWT Highways	In Communities	Rural	Total	%
<b>Non-Moving Objects</b>					
Hit Parked Trailer	0	0	0	0	0.0
Hit Non-Fixed Object	1	1	0	2	0.2
Hit Building	0	5	0	5	0.6
Hit Ditch	0	0	0	0	0.0
Hit Embankment, Dirt Pile, Rock	0	2	0	2	0.2
Hit Culvert End, Drainage Structure	0	0	0	0	0.0
Hit Tree, Bush, Hedge	0	0	0	0	0.0
Hit Utility Pole, Lamp Pole	0	7	0	7	0.8
Hit Curb	0	0	0	0	0.0
Hit Post	0	4	0	4	0.5
Hit Traffic Barrier	0	2	0	2	0.2
Hit Fixed Object Part of Road Structure	0	2	0	2	0.2
Hit Fixed Object NOT Part of Road Structure	0	1	0	1	0.1
Hit Other Type Fixed Object	0	2	0	2	0.2
<b>Sub Total Fixed Objects</b>	<b>1</b>	<b>26</b>	<b>0</b>	<b>27</b>	<b>3.1</b>
<b>Moveable Objects</b>					
Another Road Vehicle	28	585	3	616	71.5
Bison	31	0	0	31	3.6
Other Animal	11	1	0	12	1.4
Pedestrian	0	12	1	13	1.5
Other Moveable Object	0	0	0	0	0.0
<b>Sub Total Moveable Objects</b>	<b>70</b>	<b>598</b>	<b>4</b>	<b>672</b>	<b>78.0</b>
<b>Non-Collision Events</b>					
Ran Off Road	0	0	0	0	0.0
Rollover	62	6	1	69	8.0
Jack Knife or Trailer Swing	0	0	0	0	0.0
Fire or Explosion	0	0	0	0	0.0
Load Spill	0	0	0	0	0.0
Load Shift	0	0	0	0	0.0
Submersion	0	1	0	1	0.1
Other Non-Collision Event	0	0	0	0	0.0
<b>Sub Total Non-Collision Events</b>	<b>62</b>	<b>7</b>	<b>1</b>	<b>70</b>	<b>8.1</b>
<b>Unknown Event</b>	<b>46</b>	<b>46</b>	<b>0</b>	<b>92</b>	<b>10.7</b>
<b>Grand Total</b>	<b>179</b>	<b>677</b>	<b>5</b>	<b>861</b>	<b>100.0</b>

**Licensed Drivers and Drivers in Collisions by Driver Age**

Figure 5.1

	Under 16	16 to 19	20 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 and Over	Not Stated	Total
Licensed Drivers	110	1,256	2,276	5,493	5,532	5,530	3,118	1,008	0	24,323
Drivers in Collisions	12	112	123	233	256	219	121	35	124	1,235

**Drivers in Collisions and Relative Risk by Driver Age**



**Collision Rates (Collisions Per 1,000 Licensed Drivers) by Severity and Driver Age**

Figure 5.2

	15 to 19	20 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 and Over	Average Rate
Property Damage	46.2	29.8	24.9	29.3	28.9	33.3	24.6	33.4
Personal Injury & Fatal	11.7	5.4	5.5	4.5	4.9	3.0	6.1	5.4
<b>Total</b>	<b>57.9</b>	<b>35.2</b>	<b>30.3</b>	<b>33.8</b>	<b>33.8</b>	<b>36.3</b>	<b>30.7</b>	<b>38.8</b>
<b>Relative Risk*</b>	<b>1.5</b>	<b>0.9</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0.8</b>	<b>1.0</b>

\* Relative Risk = (% of drivers in collisions in age group)/(% of total licence holders in age group)

The age of drivers involved in traffic collisions can form the basis of various analysis and countermeasure programs. The reason for this interest is the over-involvement of young drivers in collisions and the disproportionately large number of charges laid as a result of collisions.

Figure 5.1 shows that the relative risk of drivers between the ages of 15 and 19 are 1.5 times more likely to be involved in a collision than the average driving population. On average, 6% of 15 to 19 year olds were involved in collisions, compared to 3% of 35 to 44 year olds.

Other factors such as exposure, risk, experience, alcohol, and vehicle type must be known to fully understand the relationship of driver age and collision involvement. Studies indicate that the risk of having a collision is a factor of driving experience, not just driver age.

Number of Drivers Involved in Collisions by Licence Class and Age

Figure 5.3

Age Group	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 7 Req'd.	Class Not	Class Not	Total
Under 16	0	0	0	0	0	0	1	4	7	0	12
16	0	0	0	0	13	0	2	1	2	0	18
17	0	0	0	0	27	0	1	2	2	0	32
18	0	0	0	0	23	0	1	3	1	1	29
19	1	0	0	0	25	0	2	1	4	0	33
20	2	0	0	0	24	0	0	1	2	0	29
21-24	2	0	1	2	81	0	1	3	1	3	94
25-34	16	1	9	10	176	0	6	4	7	4	233
35-44	26	5	5	28	185	0	0	1	5	1	256
45-54	20	6	11	20	154	0	2	1	3	2	219
55-64	16	1	5	16	79	0	0	0	0	4	121
65 and over	3	0	0	1	31	0	0	0	0	0	35
Not Stated	0	0	0	0	0	0	0	2	3	119	124
Drivers in Collisions	86	13	31	77	818	0	16	23	37	134	1,235
Total Licensed Drivers	1,326	192	722	1,164	19,213	2	1,704	N/A	N/A	N/A	24,323
Relative Risk*	1.28	1.33	0.85	1.30	0.84	0.00	0.18	N/A	N/A	N/A	1.00

\*Relative Risk = (% of Total Collisions in Class)/(% of Total Licence Holders in Class)

Number of Drivers Involved in Collisions by Condition and Age

Figure 5.4

Driver Condition	< 16	16	17	18	19	20	21-24	25-34	35-44	45-54	55-64	65+	Not Stated	Total	%
Apparently Normal	0	15	25	23	24	23	70	194	218	183	105	33	1	914	74.0
Fatigued, Fell Asleep	0	0	2	0	0	1	1	1	1	3	0	0	0	9	0.7
Inexperience	10	0	4	0	2	2	3	4	1	1	0	0	1	28	2.3
Under Influence - Alcohol	1	2	1	3	2	0	7	13	11	9	3	0	0	52	4.2
Under Influence - Drugs	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.1
Sudden Illness, Lost Consciousness	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Other Condition	1	0	0	0	0	1	0	1	0	0	0	1	0	4	0.3
Unknown	0	1	0	3	5	2	13	20	25	23	13	1	121	227	18.4
Total	12	18	32	29	33	29	94	233	256	219	121	35	124	1,235	
%	1.0	1.5	2.6	2.3	2.7	2.3	7.6	18.9	20.7	17.7	9.8	2.8	10.0		100.0

Number of Drivers Involved in Collisions by Driver Action and Age

Figure 5.5

Driver Action	< 16													17					18					19					20					21-24					25-34					35-44					45-54					55-64					65+					Not Stated					Total	%
	12	18	16	32	29	33	29	94	233	256	219	121	35	124	12	18	16	32	29	33	29	94	233	256	219	121	35	124	12	18	16	32	29	33	29	94	233	256	219	121	35	124	12	18	16	32	29	33	29	94	233	256	219	121	35	124														
Driving Properly	0	4	6	7	2	8	27	71	101	80	48	11	0	365	29.6																																																							
Following Too Closely	0	2	3	2	1	4	4	9	13	6	5	1	0	50	4.0																																																							
Distracted, Inattentive	0	0	4	2	7	3	11	17	19	25	11	4	0	103	8.3																																																							
Driving Too Fast	0	4	11	6	4	6	11	34	18	27	5	0	1	127	10.3																																																							
Improper Turning or Passing	1	1	0	0	2	0	0	4	5	5	2	0	0	20	1.6																																																							
Failing to Yield Right of Way	1	0	0	1	1	0	6	5	8	6	6	0	1	35	2.8																																																							
Disobeying Traffic Control/Officer	0	0	1	0	1	0	0	2	0	0	0	0	0	4	0.3																																																							
Driving on Wrong Side of Road	1	0	0	0	0	0	1	0	0	0	1	1	1	5	0.4																																																							
Driving in Wrong Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0																																																							
Backing Unsafely	2	4	5	6	6	4	14	42	48	41	26	9	3	210	17.0																																																							
Lost Control	7	3	1	4	7	3	12	37	28	21	12	8	3	146	11.8																																																							
Other Driver Action	0	0	0	0	0	1	1	2	0	1	0	0	0	5	0.4																																																							
Unknown	0	0	1	1	2	0	7	10	16	7	5	1	115	165	13.4																																																							
Total	12	18	32	29	33	29	94	233	256	219	121	35	124	1,235																																																								
%	1.0	1.5	2.6	2.3	2.7	2.3	7.6	18.9	20.7	17.7	9.8	2.8	10.0	100.0																																																								

## Number of Vehicles in Collisions by Vehicle Type and Severity

Figure 6.1

Vehicle Type	Property Damage	Personal Injury	Fatal	Total	%
Passenger Car	366	33	1	400	26.8
Passenger Van	139	11	0	150	10.0
Light Utility Vehicle	207	22	2	231	15.5
Pickup Truck	414	62	0	476	31.9
Panel/Cargo Van	23	11	1	35	2.3
Other Truck/Van <= 4536 kg	6	1	0	7	0.5
Unit Truck > 4536 kg	16	2	0	18	1.2
Road Tractor	26	3	0	29	1.9
School Bus	1	0	0	1	0.1
Small School Bus	0	0	0	0	0.0
Urban Transit Bus	2	1	0	3	0.2
Intercity Bus	0	0	0	0	0.0
Bus - Unspecified	0	0	0	0	0.0
Motorcycle	0	4	0	4	0.3
Limited Speed Motorcycle	0	0	0	0	0.0
Off Road Vehicles (ATV)	2	4	1	7	0.5
Bicycle	0	2	0	2	0.1
Motor Home	1	0	0	1	0.1
Farm Equipment	0	0	0	0	0.0
Construction Equipment	3	0	0	3	0.2
Fire Engine	0	0	0	0	0.0
Snowmobile	5	17	0	22	1.5
Streetcar	0	0	0	0	0.0
Other	0	0	0	0	0.0
Unknown	104	1	0	105	7.0
<b>Total</b>	<b>1315</b>	<b>174</b>	<b>5</b>	<b>1494</b>	<b>100.0</b>

## Number of Vehicles in Collisions by Vehicle Condition and Severity

Figure 6.2

Vehicle Condition	Property Damage	Personal Injury	Fatal	Total	%
No Apparent Defect	1073	137	3	1213	81.2
Defective Brakes	1	1	0	2	0.1
Defective Steering	0	0	0	0	0.0
Defective Lighting	1	1	0	2	0.1
Tire Blown Out	1	1	0	2	0.1
Unsecured Load, Spilled Load	0	0	0	0	0.0
Oversized Load, Overload	1	1	0	2	0.1
Visibility Obstructed	9	3	0	12	0.8
Other Defective Vehicular Parts	5	1	0	6	0.4
Other Vehicular Factor	2	0	0	2	0.1
Unknown	222	29	2	253	16.9
<b>Total</b>	<b>1315</b>	<b>174</b>	<b>5</b>	<b>1494</b>	<b>100.0</b>

## Number of Vehicles in Collisions by Vehicle Manoeuvre and Severity

Figure 6.3

Vehicle Manoeuvre	Property Damage	Personal Injury	Fatal	Total	%
Going Straight Ahead	332	95	3	430	28.8
Turning Left	71	8	1	80	5.4
Turning Right	35	8	0	43	2.9
Making U-Turn	3	2	0	5	0.3
Changing Lanes	8	0	0	8	0.5
Merging	0	0	0	0	0.0
Reversing	220	7	0	227	15.2
Overtaking	1	1	0	2	0.1
Negotiating Curve	56	10	1	67	4.5
Slowing or Stopped in Traffic	165	33	0	198	13.3
Starting in Traffic	2	0	0	2	0.1
Leaving Roadside	6	1	0	7	0.5
Stopped/Parked Legally	290	8	0	298	19.9
Stopped/Parked Illegally	9	0	0	9	0.6
Swerving to Avoid Collision	10	0	0	10	0.7
Run-away or Roll-away Vehicle	3	0	0	3	0.2
Unspecified Manoeuvre	0	0	0	0	0.0
Other	0	0	0	0	0.0
Unknown	104	1	0	105	7.0
<b>Total</b>	<b>1315</b>	<b>174</b>	<b>5</b>	<b>1494</b>	<b>100.0</b>

## Number of Vehicles in Collisions by Vehicle Year and Severity

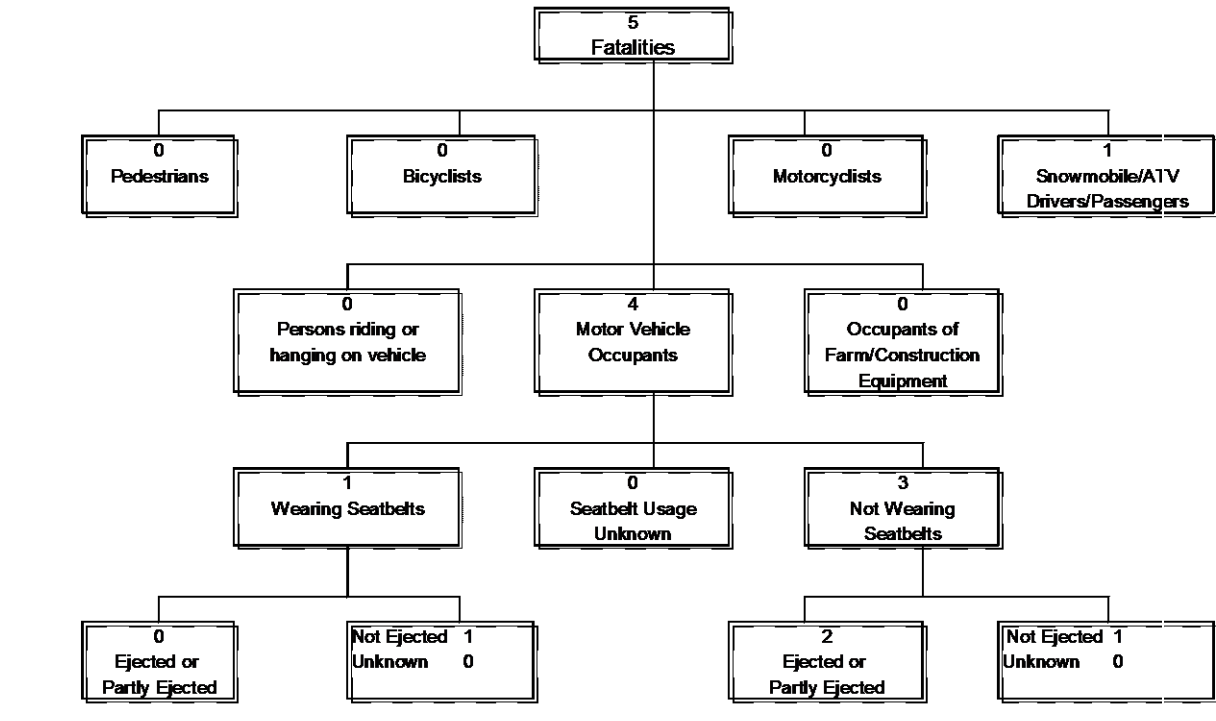
Figure 6.4

Model Year	Property Damage	Personal Injury	Fatal	Total	%
2009	6	1	0	7	0.5
2008	116	14	0	130	8.7
2007	169	17	0	186	12.4
2006	137	14	1	152	10.2
2005	119	14	0	133	8.9
2004	102	11	1	114	7.6
2003	89	12	0	101	6.8
2002	89	6	0	95	6.4
2001	57	12	0	69	4.6
2000	62	14	0	76	5.1
1999	42	8	1	51	3.4
1998	32	8	1	41	2.7
1997 & Older	180	27	1	208	13.9
Unspecified	115	16	0	131	8.8
<b>Total</b>	<b>1315</b>	<b>174</b>	<b>5</b>	<b>1494</b>	<b>100.0</b>

## Victims and Occupant Restraints – Section 7

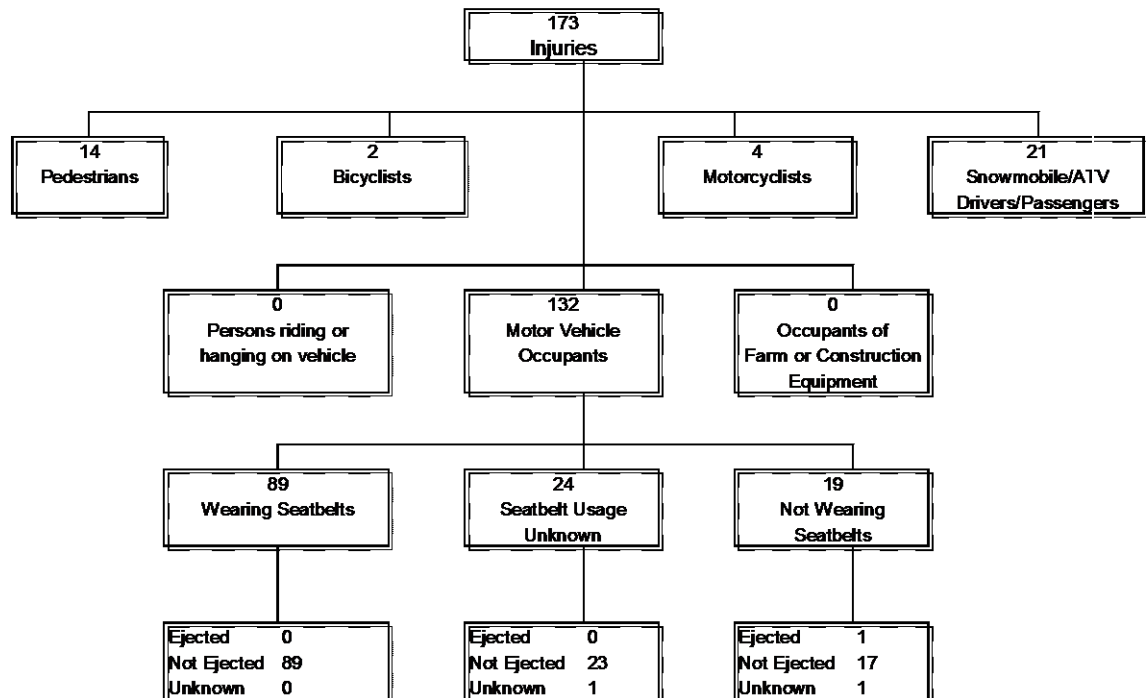
**Fatalities Classification**  
(January 1 to December 31, 2008)

Figure 7.1



**Injuries Classification**  
(January 1 to December 31, 2008)

Figure 7.2



## Victims and Occupant Restraints – Section 7

**Persons Injured by Road User Class and Age Group**

Figure 7.3

Road User Class	0 to 4	5 to 14	15 to 19	20 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 & older	Not Stated	Total	%
Motor Vehicle Driver	0	1	8	8	16	16	16	3	3	1	72	41.6
Motor Vehicle Passenger	2	6	16	4	6	1	7	2	9	7	60	34.7
Pedestrian	0	3	1	2	3	1	1	0	2	1	14	8.1
Bicyclist	0	0	0	2	0	0	0	0	0	0	2	1.2
Motorcyclist (includes passengers)	0	1	0	0	2	0	1	0	0	0	4	2.3
ATV Operators & Passengers	0	1	0	0	1	1	2	0	0	0	5	2.9
Snowmobile Operators & Passengers	0	3	6	2	2	1	1	0	0	1	16	9.2
Farm/Construction Equipment	0	0	0	0	0	0	0	0	0	0	0	0.0
Other	0	0	0	0	0	0	0	0	0	0	0	0.0
Unspecified	0	0	0	0	0	0	0	0	0	0	0	0.0
<b>Total</b>	<b>2</b>	<b>15</b>	<b>31</b>	<b>18</b>	<b>30</b>	<b>20</b>	<b>28</b>	<b>5</b>	<b>14</b>	<b>10</b>	<b>173</b>	<b>100.0</b>

**Persons Killed by Road User Class and Age Group**

Figure 7.4

Road User Class	0 to 4	5 to 14	15 to 19	20 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 & older	Not Stated	Total	%
Motor Vehicle Driver	0	0	0	1	0	0	1	0	0	0	2	40.0
Motor Vehicle Passenger	0	0	1	0	1	0	0	0	0	0	2	40.0
Pedestrian	0	0	0	0	0	0	0	0	0	0	0	0.0
Bicyclist	0	0	0	0	0	0	0	0	0	0	0	0.0
Motorcyclist (includes passengers)	0	0	0	0	0	0	0	0	0	0	0	0.0
ATV Operators & Passengers	0	0	0	0	1	0	0	0	0	0	1	20.0
Snowmobile Operators & Passengers	0	0	0	0	0	0	0	0	0	0	0	0.0
Farm/Construction Equipment	0	0	0	0	0	0	0	0	0	0	0	0.0
Other	0	0	0	0	0	0	0	0	0	0	0	0.0
Unspecified	0	0	0	0	0	0	0	0	0	0	0	0.0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>100.0</b>

**Persons Injured or Killed by Road User Class and Gender**

Figure 7.5

Road User Class	Persons Injured				Persons Killed			
	Male	Female	Unknown	Total	Male	Female	Unknown	Total
Motor Vehicle Driver	37	35	0	72	2	0	0	2
Motor Vehicle Passenger	24	36	0	60	0	2	0	2
Pedestrian	5	9	0	14	0	0	0	0
Bicyclist	1	1	0	2	0	0	0	0
Motorcyclist (includes passengers)	4	0	0	4	0	0	0	0
ATV Operators & Passengers	5	0	0	5	1	0	0	1
Snowmobile Operators & Passengers	11	5	0	16	0	0	0	0
Farm/Construction Equipment	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Unspecified	0	0	0	0	0	0	0	0
<b>Total</b>	<b>87</b>	<b>86</b>	<b>0</b>	<b>173</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>5</b>



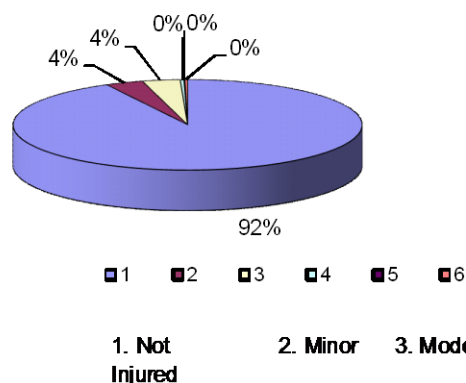
## Motor Vehicle\* Occupants by Injury Severity and Restraint Use

Figure 7.6

Injury Severity	Not Restrained	Lap Belt Only	Lap & Torso Belt	Child Restraint Device	Restraint Use Unknown	Total	%
Not Injured	79	11	1043	28	516	1677	92.5
Minimal Injuries	9	0	40	1	14	64	3.5
Minor Injuries	6	0	41	0	6	53	2.9
Major (Hospital Admission)	2	0	4	0	3	9	0.5
Fatal	3	0	1	0	0	4	0.2
Injured - Extent Unknown	2	0	3	0	1	6	0.3
<b>Total</b>	<b>101</b>	<b>11</b>	<b>1132</b>	<b>29</b>	<b>540</b>	<b>1813</b>	<b>100.0</b>

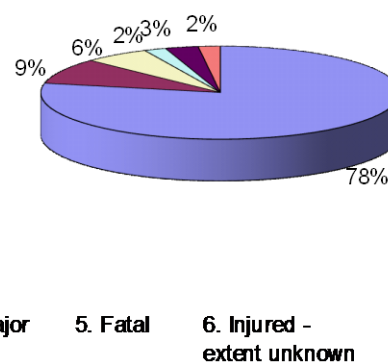
\* Excludes occupants of motorcycles, mopeds, snowmobiles, all-terrain vehicles, and farm/construction equipment

Restraints Used



Restraints Not Used

Figure 7.7



Note: The totals used to calculate the percentages in Figures 7.2 and 7.3 do not include occupants where seat belt use was coded as "unknown".

### Injury Classification

- 1 Not Injured - no visible signs or any complaint of injury
- 2 Minor - minor complaint of injury by victim, but no medical treatment required
- 3 Moderate - an injury requiring medical attention but not serious enough to require hospital admission
- 4 Major - an injury serious enough to require hospital admission
- 5 Fatal - death within 30 days as a result of injuries incurred in the traffic collision
- 6 Injured- Extent Unknown - victim sustained injuries, precise extent unknown

## Victims and Occupant Restraints – Section 7

**Motor Vehicle\* Occupants by Injury Severity & Age Group**

Figure 7.8

**Restraints Used**

	0 to 4	5 to 14	15 to 19	20 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 & older	Not Stated	Total
<b>Injury Severity</b>											
Not Injured	34	52	157	98	184	200	166	93	21	77	1082
Minimal Injuries	2	1	7	3	5	5	5	2	7	4	41
Minor Injuries	0	0	6	5	10	7	9	0	3	1	41
Major (Hospital Admission)	0	0	0	0	0	1	2	1	0	0	4
Fatal	0	0	0	0	0	0	1	0	0	0	1
Injured - Extent Unknown	0	0	0	0	0	0	1	0	0	2	3
<b>Total</b>	<b>36</b>	<b>53</b>	<b>170</b>	<b>106</b>	<b>199</b>	<b>213</b>	<b>184</b>	<b>96</b>	<b>31</b>	<b>84</b>	<b>1172</b>

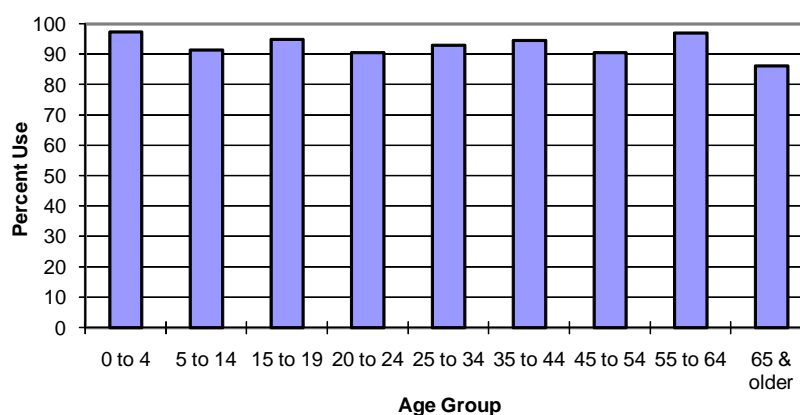
**Restraints Not Used**

	0 to 4	5 to 14	15 to 19	20 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 & older	Not Stated	Total
<b>Injury Severity</b>											
Not Injured	1	3	5	6	11	11	15	3	3	21	79
Minimal Injuries	0	1	3	2	2	0	0	0	1	0	9
Minor Injuries	0	1	0	1	1	0	3	0	0	0	6
Major (Hospital Admission)	0	0	0	0	0	1	1	0	0	0	2
Fatal	0	0	1	1	1	0	0	0	0	0	3
Injured - Extent Unknown	0	0	0	1	0	0	0	0	1	0	2
<b>Total</b>	<b>1</b>	<b>5</b>	<b>9</b>	<b>11</b>	<b>15</b>	<b>12</b>	<b>19</b>	<b>3</b>	<b>5</b>	<b>21</b>	<b>101</b>

\* Excludes occupants of motorcycles, mopeds, snowmobiles, all-terrain vehicles, and farm/construction equipment

**Victim Restraint Use Rate by Victim Age**

Figure 7.9



Pedestrians Injured or Killed by Age Group

Figure 8.1

	0 to 4	5 to 14	15 to 19	20 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 & older	Not Stated	Total	%
Injured	0	3	1	2	3	1	1	0	2	1	14	100.0
Killed	0	0	0	0	0	0	0	0	0	0	0	0.0
<b>Total</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>14</b>	
%	0.0	21.4	7.1	14.3	21.4	7.1	7.1	0.0	14.3	7.1	100.0	

Pedestrians Injured or Killed by Pedestrian Action and Age Group

Figure 8.2

Pedestrian Action	0 to 4	5 to 14	15 to 19	20 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 & older	Not Stated	Total	%
Crossing Intersection With Traffic Control, With Right-of-Way	0	0	0	0	2	0	0	0	1	0	3	21.4
Crossing Intersection With Traffic Control, Without Right-of-Way	0	0	0	0	1	0	1	0	0	0	2	14.3
Crossing Intersection - No Traffic Control	0	0	0	0	0	0	0	0	0	0	0	0.0
Crossing Roadway at Crosswalk	0	0	0	0	0	0	0	0	0	0	0	0.0
Crossing Roadway Not at Intersection	0	0	1	0	0	0	0	0	0	0	1	7.1
Walking Along Roadway Against Traffic	0	1	0	0	0	0	0	0	0	0	1	7.1
Walking Along Roadway With Traffic	0	0	0	2	0	0	0	0	0	0	2	14.3
On Sidewalk, Median, Safety Zone	0	0	0	0	0	1	0	0	0	0	1	7.1
Walking on Travelled Part of Roadway Against Traffic	0	0	0	0	0	0	0	0	0	0	0	0.0
Walking on Travelled Part of Roadway With Traffic	0	0	0	0	0	0	0	0	0	0	0	0.0
Coming from Behind Parked Vehicle/Object on Roadside	0	0	0	0	0	0	0	0	0	1	1	7.1
Coming from Behind Moving Vehicle	0	0	0	0	0	0	0	0	0	0	0	0.0
Running into Roadway	0	0	0	0	0	0	0	0	0	0	0	0.0
Getting On/Off School Bus	0	0	0	0	0	0	0	0	0	0	0	0.0
Getting On/Off Other Vehicles	0	0	0	0	0	0	0	0	0	0	0	0.0
Pushing Vehicle on Road	0	0	0	0	0	0	0	0	0	0	0	0.0
Working on Vehicle on Side of Road	0	0	0	0	0	0	0	0	0	0	0	0.0
Playing on Roadway	0	2	0	0	0	0	0	0	0	0	2	14.3
Working on Roadway	0	0	0	0	0	0	0	0	0	0	0	0.0
Lying on Road	0	0	0	0	0	0	0	0	0	0	0	0.0
Other	0	0	0	0	0	0	0	0	1	0	1	7.1
Unknown	0	0	0	0	0	0	0	0	0	0	0	0.0
<b>Total</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>14</b>	<b>100.0</b>

**Pedestrians Injured or Killed By Place of Occurrence and Injury Severity**

Figure 8.3

Place of Occurrence	Killed	Injured	Total	%
Urban	0	13	13	92.9
Rural	0	1	1	7.1
Unspecified	0	0	0	0.0
<b>Total</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>100.0</b>

**Pedestrians Injured or Killed by Collision Site**

Figure 8.4

Accident Site	Killed	Injured	Total	%
Non-Intersection	0	6	6	42.9
At Intersection of At Least Two Roadways	0	6	6	42.9
Intersection With Parking Lot/Driveway/Alley	0	2	2	14.3
Railroad Level Crossing	0	0	0	0.0
Bridge/Overpass/Viaduct	0	0	0	0.0
Tunnel or Underpass	0	0	0	0.0
Passing Lane/Climbing Lane	0	0	0	0.0
Other	0	0	0	0.0
Unspecified	0	0	0	0.0
<b>Total</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>100.0</b>

**Pedestrians Injured or Killed by Pedestrian Condition**

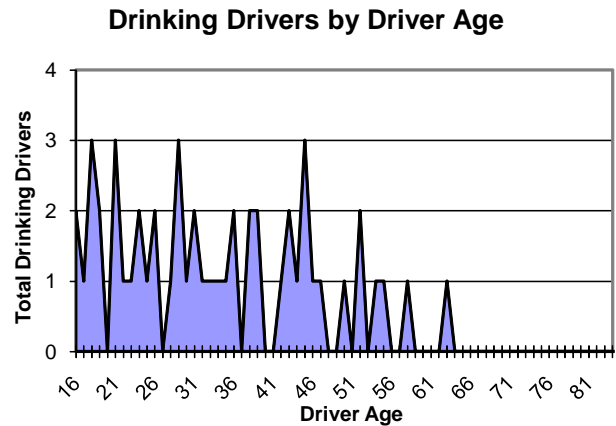
Figure 8.5

Pedestrian Condition	Killed	Injured	Total	%
Apparently Normal	0	12	12	85.7
Had Been Drinking	0	0	0	0.0
Impaired by Alcohol	0	0	0	0.0
Unknown	0	2	2	14.3
<b>Total</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>100.0</b>

## Drinking Drivers in Collisions by Driver Age and Gender

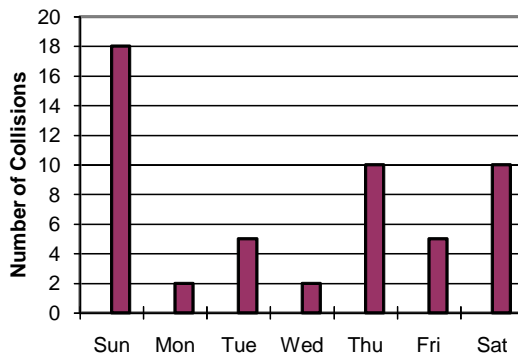
Figure 9.1

Driver Age	Male	Female	Not Stated	Total Drinking Drivers
Under 16	0	1	0	1
16	1	1	0	2
17	0	1	0	1
18	2	1	0	3
19	1	1	0	2
20	0	0	0	0
21 to 24	6	1	0	7
25 to 34	12	1	0	13
35 to 44	9	2	0	11
45 to 54	6	3	0	9
55 to 64	3	0	0	3
65 & Older	0	0	0	0
Not Stated	0	0	0	0
<b>Total</b>	<b>40</b>	<b>12</b>	<b>0</b>	<b>52</b>



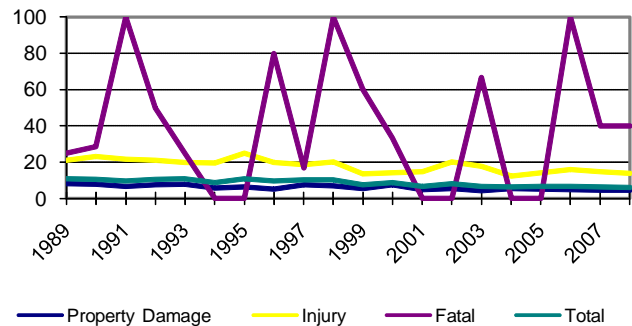
## Collisions Involving Alcohol by Day of Week

Figure 9.2



## Percentage of Collisions Involving Alcohol by Year and Severity

Figure 9.3



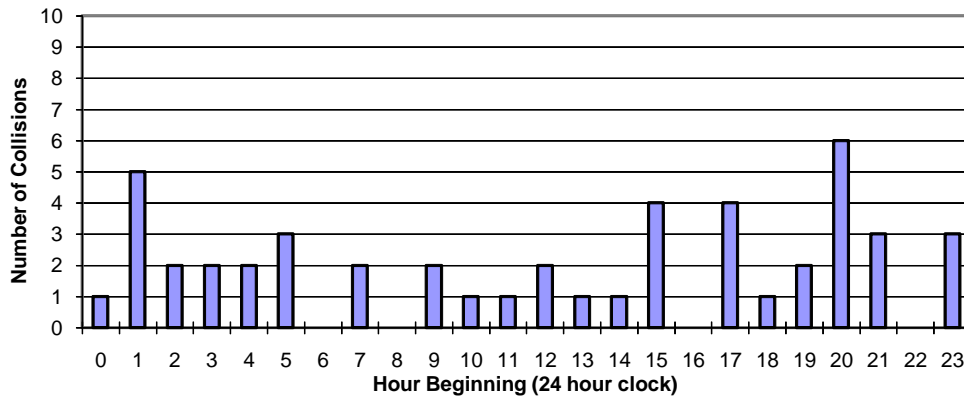
## Number of Collisions and Victims Involving Alcohol

Figure 9.4

Number of Collisions						Number of Victims			
Year	Property Damage	Personal Injury	Fatal	Total	% of Total Collisions	Injured	Killed	Total	% of Total Victims
1998	31	27	2	60	10.2	45	2	47	23.7
1999	29	21	3	53	7.7	54	5	59	20.8
2000	41	18	1	60	8.8	30	3	33	17.6
2001	27	21	0	48	6.7	36	0	36	17.3
2002	36	31	0	67	8.3	59	0	59	25.1
2003	29	23	2	54	6.6	35	2	37	21.1
2004	36	14	0	50	6.3	21	0	21	13.6
2005	33	18	0	51	6.5	25	0	25	13.3
2006	27	14	2	43	6.6	19	2	21	18.4
2007	27	17	2	46	6.2	31	2	33	20.5
2008	34	16	2	52	6.0	24	2	26	14.6
Average	32	20	1	53	7.3	34	2	36	18.7

Number of Alcohol Related Collisions by Time of Day

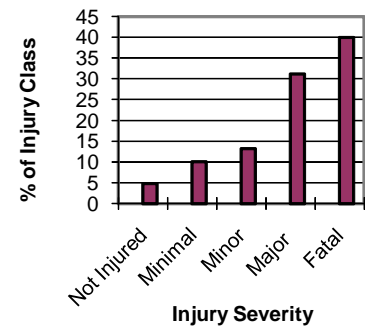
Figure 9.5



Injury Severity by Alcohol Involvement

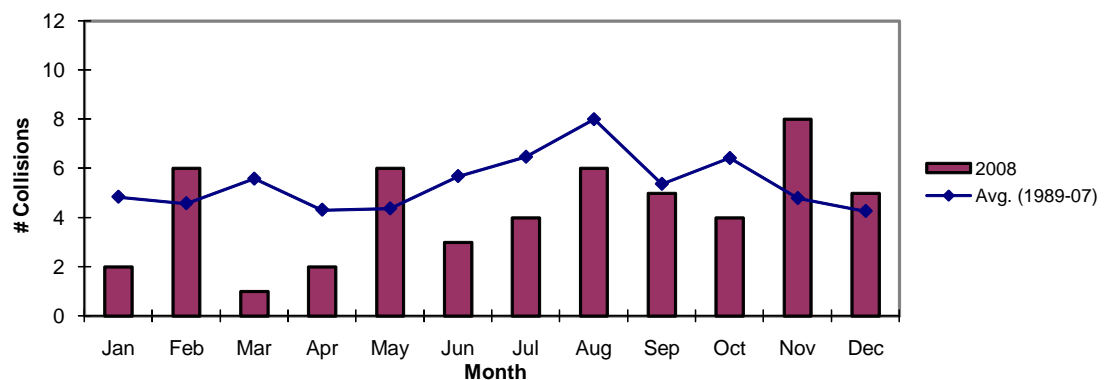
Figure 9.6

Injury Severity	Alcohol Involvement		Totals	% with Alcohol
	Yes	No		
Not Injured	83	1,612	1695	4.9
Minimal Injuries	8	71	79	10.1
Minor	9	59	68	13.2
Major	5	11	16	31.3
Fatal	2	3	5	40.0
Injured - Extent Unknown	2	8	10	20.0
<b>Total</b>	<b>109</b>	<b>1764</b>	<b>1873</b>	<b>5.8</b>



Alcohol-Involved Collisions by Month

Figure 9.7



Off-Road Vehicle Collisions by Month and Severity

Figure 10.1

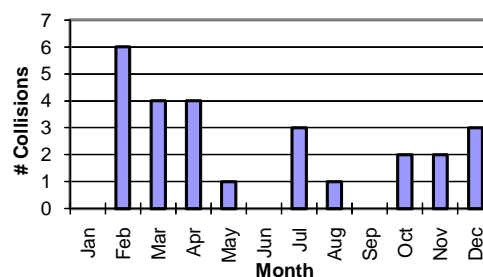
Month	Number of Collisions				Number of Victims	
	Property Damage	Personal Injury	Fatal	Total	Injured	Killed
January	0	0	0	0	0	0
February	0	6	0	6	6	0
March	2	2	0	4	3	0
April	3	1	0	4	2	0
May	0	1	0	1	2	0
June	0	0	0	0	0	0
July	0	2	1	3	2	1
August	0	1	0	1	1	0
September	0	0	0	0	0	0
October	1	1	0	2	1	0
November	1	1	0	2	3	0
December	0	3	0	3	3	0
<b>Total</b>	<b>7</b>	<b>18</b>	<b>1</b>	<b>26</b>	<b>23</b>	<b>1</b>

Off-Road Vehicle Collisions by Vehicle Type

Figure 10.2

	Snowmobile	ATV	Total
<b>Total Victims</b>	<b>16</b>	<b>6</b>	<b>22</b>
Killed	0	1	1
Injured	16	5	21
<b>Total Vehicles Involved</b>	<b>22</b>	<b>7</b>	<b>29</b>
Fatal	0	1	1
Injury	17	4	21
Property Damage	5	2	7

Off-Road Vehicle Collisions by Month



**Off-Road Vehicle Drivers in Collisions by Driver Age and Gender**

Figure 10.3

Age Group	Snowmobile			ATV			Total	%
	Male	Female	Unknown	Male	Female	Unknown		
0 to 4	0	0	0	0	0	0	0	0.0
5 to 14	0	2	0	1	0	0	3	10.7
15 to 19	7	2	0	0	1	0	10	35.7
20 to 24	1	1	0	0	0	0	2	7.1
25 to 34	3	1	0	2	0	0	6	21.4
35 to 44	1	0	0	2	0	0	3	10.7
45 to 54	1	0	0	0	0	0	1	3.6
55 to 64	0	0	0	0	0	0	0	0.0
65 & Over	0	0	0	0	0	0	0	0.0
Unknown	0	0	2	1	0	0	3	10.7
<b>Total</b>	<b>13</b>	<b>6</b>	<b>2</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>28</b>	<b>100.0</b>

**Off-Road Vehicle Collisions by Severity and Driver Condition**

Figure 10.4

Driver Condition	Property Damage	Personal Injury	Fatal	Total	%
Apparently Normal	1	8	0	9	33.3
Fatigue/Fell Asleep	0	0	0	0	0.0
Inexperience	1	3	0	4	14.8
Under Influence - Alcohol	2	7	0	9	33.3
Under Influence - Drugs	0	0	0	0	0.0
Sudden Illness, Lost Consciousness	0	0	0	0	0.0
Other Condition	0	0	0	0	0.0
Unknown	3	1	1	5	18.5
<b>Total</b>	<b>7</b>	<b>19</b>	<b>1</b>	<b>27</b>	<b>100.0</b>



### Off-Road Vehicle Collisions by Severity and Driver Action

Figure 10.5

<b>Driver Action</b>	<b>Property Damage</b>	<b>Personal Injury</b>	<b>Fatal</b>	<b>Total</b>	<b>%</b>
Driving Properly	1	1	0	2	7.4
Following Too Closely	0	0	0	0	0.0
Distracted, Inattentive	0	3	0	3	11.1
Driving Too Fast for Conditions	2	4	1	7	25.9
Improper Turning or Passing	0	1	0	1	3.7
Failed to Yield Right-of-Way	0	1	0	1	3.7
Disobeyed Traffic Control or Officer	0	2	0	2	7.4
Driving on Wrong Side of Road	1	1	0	2	7.4
Driving in Wrong Direction	0	0	0	0	0.0
Backing Unsafely	1	0	0	1	3.7
Lost Control	1	4	0	5	18.5
Other	0	0	0	0	0.0
Unknown	1	2	0	3	11.1
<b>Total</b>	<b>7</b>	<b>19</b>	<b>1</b>	<b>27</b>	<b>100.0</b>

### Off-Road Vehicle Occupants by Injury Severity and Helmet Use

Figure 10.6

<b>Injury Severity</b>	<b>Helmet Worn</b>	<b>Helmet Not Worn</b>	<b>Unknown</b>	<b>Total</b>	<b>%</b>
Not Injured	1	12	3	16	42.1
Minimal Injuries	1	6	0	7	18.4
Minor Injuries	1	7	0	8	21.1
Major (Hospital Admission)	0	3	0	3	7.9
Fatal	1	0	0	1	2.6
Injured - Extent Unknown	0	3	0	3	7.9
<b>Total</b>	<b>4</b>	<b>31</b>	<b>3</b>	<b>38</b>	<b>100.0</b>

**Collisions by Region, RCMP Detachment and Severity**

Figure 11.1

**A - Inuvik Region**

RCMP Detachment	Number of Collisions				Number of Victims	
	Property Damage	Personal Injury	Fatal	Total	Injured	Killed
Aklavik	2	3	0	5	5	0
Deline	6	2	0	8	2	0
Fort Good Hope	9	0	0	9	0	0
Fort McPherson	9	6	0	15	11	0
Holman	1	5	0	6	8	0
Inuvik	58	9	0	67	14	0
Norman Wells	10	2	0	12	10	0
Sachs Harbour	0	0	0	0	0	0
Tuktoyaktuk	2	2	1	5	2	1
Tulita	4	0	0	4	0	0
<b>Sub Total</b>						
<b>Inuvik Region</b>	<b>101</b>	<b>29</b>	<b>1</b>	<b>131</b>	<b>52</b>	<b>1</b>

**B - Fort Simpson Region**

RCMP Detachment	Number of Collisions				Number of Victims	
	Property Damage	Personal Injury	Fatal	Total	Injured	Killed
Fort Liard	2	1	1	4	3	1
Fort Simpson	22	4	0	26	6	0
<b>Sub Total</b>						
<b>Fort Simpson Region</b>	<b>24</b>	<b>5</b>	<b>1</b>	<b>30</b>	<b>9</b>	<b>1</b>

**C - South Slave Region**

RCMP Detachment	Number of Collisions				Number of Victims	
	Property Damage	Personal Injury	Fatal	Total	Injured	Killed
Hay River	82	14	0	96	23	0
Fort Providence	20	6	0	26	9	0
Fort Resolution	5	2	0	7	2	0
Fort Smith	24	7	2	33	10	2
Lutsel K'e	0	0	0	0	0	0
<b>Sub Total</b>						
<b>South Slave Region</b>	<b>131</b>	<b>29</b>	<b>2</b>	<b>162</b>	<b>44</b>	<b>2</b>

**D - North Slave Region**

RCMP Detachment	Number of Collisions				Number of Victims	
	Property Damage	Personal Injury	Fatal	Total	Injured	Killed
Rae/Wha Ti	47	12	1	60	20	1
Yellowknife	437	41	0	478	48	0
<b>Sub Total</b>						
<b>North Slave Region</b>	<b>484</b>	<b>53</b>	<b>1</b>	<b>538</b>	<b>68</b>	<b>1</b>

<b>Total - All Regions</b>	<b>740</b>	<b>116</b>	<b>5</b>	<b>861</b>	<b>173</b>	<b>5</b>
----------------------------	------------	------------	----------	------------	------------	----------

## Collision Rates by Region and RCMP Detachment

Figure 11.2

### A - Inuvik Region

RCMP Detachment	Number of Collisions	Licensed Drivers [1]	Registered Vehicles [1]	Population (2008 estimate [2])	Collision Rates		
					Collisions/ 100 Licensed Drivers	Collisions/ 100 Registered Vehicles	Collisions/ 100 Population
Aklavik	5	191	133	655	2.62	3.76	0.76
Deline	8	163	126	541	4.91	6.35	1.48
Fort Good Hope	9	187	153	718	4.81	5.88	1.25
Fort McPherson	15	309	302	1,033	4.85	4.97	1.45
Ulukhaktok	6	62	112	451	9.68	5.36	1.33
Inuvik	67	1,797	1,995	3,608	3.73	3.36	1.86
Norman Wells	12	496	789	869	2.42	1.52	1.38
Sachs Harbour	0	31	38	126	0.00	0.00	0.00
Tuktoyaktuk	5	265	303	1,197	1.89	1.65	0.42
Tulita	4	164	155	564	2.44	2.58	0.71
<b>Sub Total</b>							
<b>Inuvik Region</b>	<b>131</b>	<b>3,665</b>	<b>4,106</b>	<b>9,762</b>	<b>3.57</b>	<b>3.19</b>	<b>1.34</b>

### B - Fort Simpson Region

RCMP Detachment	Number of Collisions	Licensed Drivers [1]	Registered Vehicles [1]	Population (2008 estimate [2])	Collision Rates		
					Collisions/ 100 Licensed Drivers	Collisions/ 100 Registered Vehicles	Collisions/ 100 Population
Fort Liard	4	224	264	582	1.79	1.52	0.69
Fort Simpson	26	906	1,109	1,653	2.87	2.34	1.57
<b>Sub Total</b>							
<b>Fort Simpson Region</b>	<b>30</b>	<b>1,130</b>	<b>1,373</b>	<b>2,235</b>	<b>2.65</b>	<b>2.18</b>	<b>1.34</b>

### C - South Slave Region

RCMP Detachment	Number of Collisions	Licensed Drivers [1]	Registered Vehicles [1]	Population (2008 estimate [2])	Collision Rates		
					Collisions/ 100 Licensed Drivers	Collisions/ 100 Registered Vehicles	Collisions/ 100 Population
Hay River	96	2,781	4,886	4,261	3.45	1.96	2.25
Fort Providence	26	260	416	756	10.00	6.25	3.44
Fort Resolution	7	241	294	499	2.90	2.38	1.40
Fort Smith	33	1,484	2,022	2,459	2.22	1.63	1.34
Lutsel K'e	0	74	77	349	0.00	0.00	0.00
<b>Sub Total</b>							
<b>South Slave Region</b>	<b>162</b>	<b>4,840</b>	<b>7,695</b>	<b>8,324</b>	<b>3.35</b>	<b>2.11</b>	<b>1.95</b>

### D - North Slave Region

RCMP Detachment	Number of Collisions	Licensed Drivers [1]	Registered Vehicles [1]	Population (2008 estimate [2])	Collision Rates		
					Collisions/ 100 Licensed Drivers	Collisions/ 100 Registered Vehicles	Collisions/ 100 Population
Behchoko/Whati	60	1,008	974	3,025	5.95	6.16	1.98
Yellowknife	478	13,680	16,894	19,520	3.49	2.83	2.45
<b>Sub Total</b>							
<b>North Slave Region</b>	<b>538</b>	<b>14,688</b>	<b>17,868</b>	<b>22,545</b>	<b>3.66</b>	<b>3.01</b>	<b>2.39</b>

### Total - All Regions

	<b>861</b>	<b>24,323</b>	<b>31,042</b>	<b>43,283</b>	<b>3.54</b>	<b>2.77</b>	<b>1.99</b>
--	------------	---------------	---------------	---------------	-------------	-------------	-------------

[1] Number of registered vehicles and licensed drivers are as of December 31, 2008.

[2] 2008 population from NWT Bureau of Statistics July 1 estimate published in 'Quarterly Report', March 2009.

## Geographic Distribution – Section 11

Collisions on the NWT Highway System

Figure 11.3

Highway #1 (Mackenzie)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	2.0	9 Jan 2008	Property Damage	Single Vehicle Rollover	0	0
	2.0	8 Nov 2008	Property Damage	Sideswipe - Same Direction	0	0
	5.0	15 Feb 2008	Injury	Single Vehicle Rollover	3	0
	33.0	5 Nov 2008	Property Damage	Ran Off Road - Left	0	0
	68.0	21 Jan 2008	Property Damage	Collision with Fixed Object	0	0
	68.3	15 Nov 2008	Property Damage	Collision with Other Animal	0	0
	78.8	27 Dec 2008	Property Damage	Single Vehicle Rollover	0	0
	81.0	1 Jan 2008	Property Damage	Ran Off Road - Right	0	0
	83.0	29 Feb 2008	Injury	Single Vehicle Rollover	1	0
	90.0	10 Aug 2008	Injury	Ran Off Road - Left	1	0
	93.0	26 Jan 2008	Property Damage	Ran Off Road - Right	0	0
	108.0	13 Feb 2008	Property Damage	Single Vehicle Rollover	0	0
	142.0	31 Jul 2008	Property Damage	Collision with Other Animal	0	0
	168.0	30 Dec 2008	Injury	Single Vehicle Rollover	2	0
	172.0	7 Feb 2008	Property Damage	Collision with Parked Vehicle	0	0
	179.0	14 Mar 2008	Property Damage	Ran Off Road - Right	0	0
	182.0	7 Feb 2008	Property Damage	Ran Off Road - Right	0	0
	208.0	16 Feb 2008	Property Damage	Ran Off Road - Left	0	0
	220.0	11 Jan 2008	Injury	Single Vehicle Rollover	1	0
	234.0	2 Aug 2008	Property Damage	Single Vehicle Rollover	0	0
	410.0	11 Jan 2008	Property Damage	Ran Off Road - Left	0	0
	534.0	29 Jan 2008	Property Damage	Single Vehicle Rollover	0	0
	625.0	3 Jul 2008	Property Damage	Ran Off Road - Left	0	0
	655.0	6 Aug 2008	Property Damage	Single Vehicle Rollover	0	0

Summary Highway #1	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	19	5	0	24	8	0

Highway #2 (Hay River)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	4.0	1 Dec 2008	Property Damage	Single Vehicle Rollover	0	0
	10.0	15 Feb 2008	Property Damage	Single Vehicle Rollover	0	0
	27.5	22 Aug 2008	Injury	Single Vehicle Rollover	3	0
	33.0	29 Nov 2008	Injury	Left Turn Across Path	3	0
	35.6	27 Jul 2008	Injury	Ran Off Road - Left	1	0
	37.0	28 Feb 2008	Property Damage	Ran Off Road - Right	0	0
	37.1	17 Apr 2008	Property Damage	Ran Off Road - Right	0	0
	37.4	7 Jul 2008	Property Damage	Right Angle	0	0
	37.4	17 Dec 2008	Property Damage	Other Multi-Vehicle Different Direction	0	0
	38.0	26 Feb 2008	Injury	Rear End	1	0
	38.0	23 Oct 2008	Property Damage	Collision with Fixed Object	0	0
	39.7	22 Nov 2008	Property Damage	Collision with Fixed Object	0	0
	40.9	14 Dec 2008	Property Damage	Head-on	0	0
	43.5	19 Jan 2008	Property Damage	Collision with Fixed Object	0	0
	43.8	29 Mar 2008	Property Damage	Single Vehicle Rollover	0	0

Summary Highway #2	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	11	4	0	15	8	0

## Geographic Distribution – Section 11

Highway #3 (Yellowknife)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	1.0	8 Nov 2008	Injury	Single Vehicle Rollover	3	0
	10.0	22 Jan 2008	Property Damage	Collision with Other Animal	0	0
	17.2	13 Mar 2008	Property Damage	Single Vehicle Rollover	0	0
	17.2	29 Aug 2008	Property Damage	Rear End	0	0
	34.0	18 Oct 2008	Property Damage	Collision with Bison	0	0
	35.0	16 Aug 2008	Property Damage	Collision with Bison	0	0
	36.0	31 Aug 2008	Property Damage	Collision with Bison	0	0
	38.0	30 Sep 2008	Property Damage	Collision with Bison	0	0
	38.0	10 Oct 2008	Property Damage	Collision with Bison	0	0
	73.0	24 Oct 2008	Property Damage	Collision with Bison	0	0
	80.0	21 Oct 2008	Property Damage	Collision with Bison	0	0
	86.0	15 Dec 2008	Property Damage	Rear End	0	0
	116.0	26 Jan 2008	Injury	Single Vehicle Rollover	2	0
	120.0	21 Oct 2008	Property Damage	Collision with Bison	0	0
	124.0	12 Oct 2008	Property Damage	Collision with Bison	0	0
	138.0	22 Oct 2008	Property Damage	Collision with Bison	0	0
	140.0	20 Sep 2008	Property Damage	Collision with Bison	0	0
	140.0	23 Oct 2008	Property Damage	Collision with Bison	0	0
	160.0	19 Oct 2008	Property Damage	Collision with Bison	0	0
	170.0	5 Nov 2008	Property Damage	Collision with Bison	0	0
	172.0	21 Mar 2008	Property Damage	Ran Off Road - Right	0	0
	187.0	20 Dec 2008	Injury	Collision with Bison	1	0
	198.0	28 Oct 2008	Property Damage	Collision with Bison	0	0
	200.0	9 Oct 2008	Property Damage	Collision with Bison	0	0
	200.0	30 Dec 2008	Property Damage	Collision with Other Animal	0	0
	210.0	22 Oct 2008	Property Damage	Collision with Bison	0	0
	214.0	5 Nov 2008	Property Damage	Collision with Bison	0	0
	217.0	3 Nov 2008	Property Damage	Ran Off Road - Right	0	0
	220.0	16 Nov 2008	Property Damage	Collision with Other Animal	0	0
	225.0	8 Oct 2008	Property Damage	Collision with Bison	0	0
	229.0	25 May 2008	Property Damage	Single Vehicle Rollover	0	0
	232.0	5 Aug 2008	Property Damage	Collision with Bison	0	0
	237.5	16 Feb 2008	Property Damage	Ran Off Road - Left	0	0
	243.0	7 Oct 2008	Property Damage	Collision with Bison	0	0
	250.0	13 Mar 2008	Injury	Single Vehicle Rollover	2	0
	251.0	UU Jan 2008	Property Damage	Single Vehicle Rollover	0	0
	255.0	13 Sep 2008	Fatal	Single Vehicle Rollover	1	1
	255.0	15 Nov 2008	Property Damage	Collision with Bison	0	0
	257.0	8 Jan 2008	Injury	Single Vehicle Rollover	1	0
	258.0	17 Nov 2008	Property Damage	Collision with Bison	0	0
	260.0	6 Aug 2008	Property Damage	Collision with Bison	0	0
	269.0	26 Jan 2008	Injury	Single Vehicle Rollover	1	0
	270.0	9 Dec 2008	Property Damage	Collision with Bison	0	0
	278.0	10 Dec 2008	Property Damage	Ran Off Road - Left	0	0
	280.0	29 Jan 2008	Property Damage	Ran Off Road - Right	0	0
	280.0	19 Nov 2008	Property Damage	Collision with Bison	0	0
	280.0	27 Dec 2008	Injury	Collision with Bison	2	0
	285.0	20 Apr 2008	Property Damage	Single Vehicle Rollover	0	0
	290.0	4 May 2008	Property Damage	Collision with Bison	0	0
	290.0	12 May 2008	Injury	Single Vehicle Rollover	1	0
	290.0	18 Jun 2008	Injury	Single Vehicle Rollover	5	0
	292.7	12 Jul 2008	Property Damage	Single Vehicle Rollover	0	0
	298.0	24 Nov 2008	Property Damage	Collision with Other Animal	0	0
	302.0	11 May 2008	Injury	Single Vehicle Rollover	2	0
	305.0	27 Mar 2008	Property Damage	Single Vehicle Rollover	1	0
	309.0	20 May 2008	Property Damage	Single Vehicle Rollover	0	0
	312.0	20 May 2008	Property Damage	Collision with Parked Vehicle	0	0
	314.0	16 Feb 2008	Injury	Single Vehicle Rollover	2	0
	322.0	20 Jan 2008	Property Damage	Collision with Other Animal	0	0
	327.0	4 Dec 2008	Property Damage	Single Vehicle Rollover	0	0
	335.0	2 Aug 2008	Property Damage	Sideswipe - Opposite Direction	0	0
	336.0	8 Jul 2008	Property Damage	Rear End	0	0
	338.0	4 May 2008	Property Damage	Single Vehicle Rollover	0	0
	338.0	31 Dec 2008	Property Damage	Collision with Fixed Object	0	0
	338.8	30 Jan 2008	Property Damage	Rear End	0	0
	338.8	11 Jun 2008	Property Damage	Rear End	0	0
Summary Highway #3	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	54	11	1	66	24	1

## Geographic Distribution – Section 11

Highway #4 (Ingraham Trail)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	0.0	7 Mar 2008	Injury	Left Turn Across Path	2	0
	0.0	26 Jun 2008	Property Damage	Left Turn Across Path	0	0
	2.0	7 Jan 2008	Property Damage	Ran Off Road - Left	0	0
	5.0	30 Jun 2008	Injury	Ran Off Road - Right	1	0
	6.5	12 May 2008	Property Damage	Sideswipe - Opposite Direction	0	0
	7.0	28 Feb 2008	Property Damage	Single Vehicle Rollover	0	0
	20.0	5 Jun 2008	Injury	Ran Off Road - Right	1	0
	27.5	21 Oct 2008	Property Damage	Ran Off Road - Left	0	0
	30.0	20 Jul 2008	Injury	Ran Off Road - Right	1	0

Summary Highway #4	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	5	4	0	9	5	0

Highway #5 (Fort Smith Highway)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	2.5	23 Jul 2008	Property Damage	Ran Off Road - Right	0	0
	2.5	4 Nov 2008	Property Damage	Ran Off Road - Right	0	0
	25.0	25 Jan 2008	Property Damage	Single Vehicle Rollover	0	0
	26.0	9 Nov 2008	Injury	Single Vehicle Rollover	3	0
	40.0	18 Dec 2008	Property Damage	Single Vehicle Rollover	0	0
	61.0	15 Dec 2008	Property Damage	Ran Off Road - Right	0	0
	106.0	30 Jun 2008	Injury	Single Vehicle Rollover	1	0
	116.0	15 Aug 2008	Property Damage	Collision with Bison	0	0
	119.0	10 Dec 2008	Property Damage	Collision with Other Animal	0	0
	165.0	17 Mar 2008	Property Damage	Single Vehicle Rollover	0	0
	170.0	4 Apr 2008	Property Damage	Collision with Other Animal	0	0
	170.0	28 Oct 2008	Property Damage	Collision with Bison	0	0
	202.0	19 Feb 2008	Property Damage	Single Vehicle Rollover	0	0
	206.0	19 Feb 2008	Property Damage	Ran Off Road - Left	0	0
	238.0	3 Sep 2008	Fatal	Single Vehicle Rollover	0	1
	261.0	8 Oct 2008	Property Damage	Collision with Other Animal	0	0
	263.0	17 Dec 2008	Injury	Rear End	1	0
	263.8	21 Sep 2008	Injury	Single Vehicle Rollover	1	0

Summary Highway #5	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	13	4	1	18	6	1

Highway #6 (Fort Resolution Highway)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	82.0	18 May 2008	Injury	Single Vehicle Rollover	1	0

Summary Highway #6	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	0	1	0	1	1	0

## Geographic Distribution – Section 11

Highway #7 (Liard Highway)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	4.0	12 Oct 2008	Injury	Single Vehicle Rollover	1	0
	22.0	10 Jul 2008	Fatal	Single Vehicle Rollover	2	1
	86.0	2 Feb 2008	Property Damage	Ran Off Road - Left	0	0
	251.3	12 Sep 2008	Injury	Ran Off Road - Left	1	0

Summary Highway #7	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	1	2	1	4	4	1

Highway #8 (Dempster Highway)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	21.0	18 Sep 2008	Property Damage	Single Vehicle Rollover	0	0
	26.0	13 Apr 2008	Property Damage	Single Vehicle Rollover	0	0
	30.0	8 Jan 2008	Property Damage	Collision with Other Animal	0	0
	108.4	12 Feb 2008	Injury	Single Vehicle Rollover	4	0
	122.0	11 Sep 2008	Injury	Single Vehicle Rollover	1	0
	142.0	3 Mar 2008	Injury	Single Vehicle Rollover	2	0
	142.0	15 Mar 2008	Property Damage	Ran Off Road - Left	0	0
	142.7	13 Oct 2008	Property Damage	Collision with Fixed Object	0	0
	159.0	18 Sep 2008	Property Damage	Ran Off Road - Left	0	0
	180.0	24 Aug 2008	Injury	Single Vehicle Rollover	2	0
	243.1	27 Jun 2008	Injury	Rear End	4	0
	260.0	8 Oct 2008	Property Damage	Single Vehicle Rollover	0	0
	264.3	25 Jun 2008	Property Damage	Single Vehicle Rollover	0	0
	271.3	18 Oct 2008	Injury	Right Angle	1	0
	272.4	24 Nov 2008	Injury	Right Angle	2	0

Summary Highway #8	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	8	7	0	15	16	0

## Geographic Distribution – Section 11

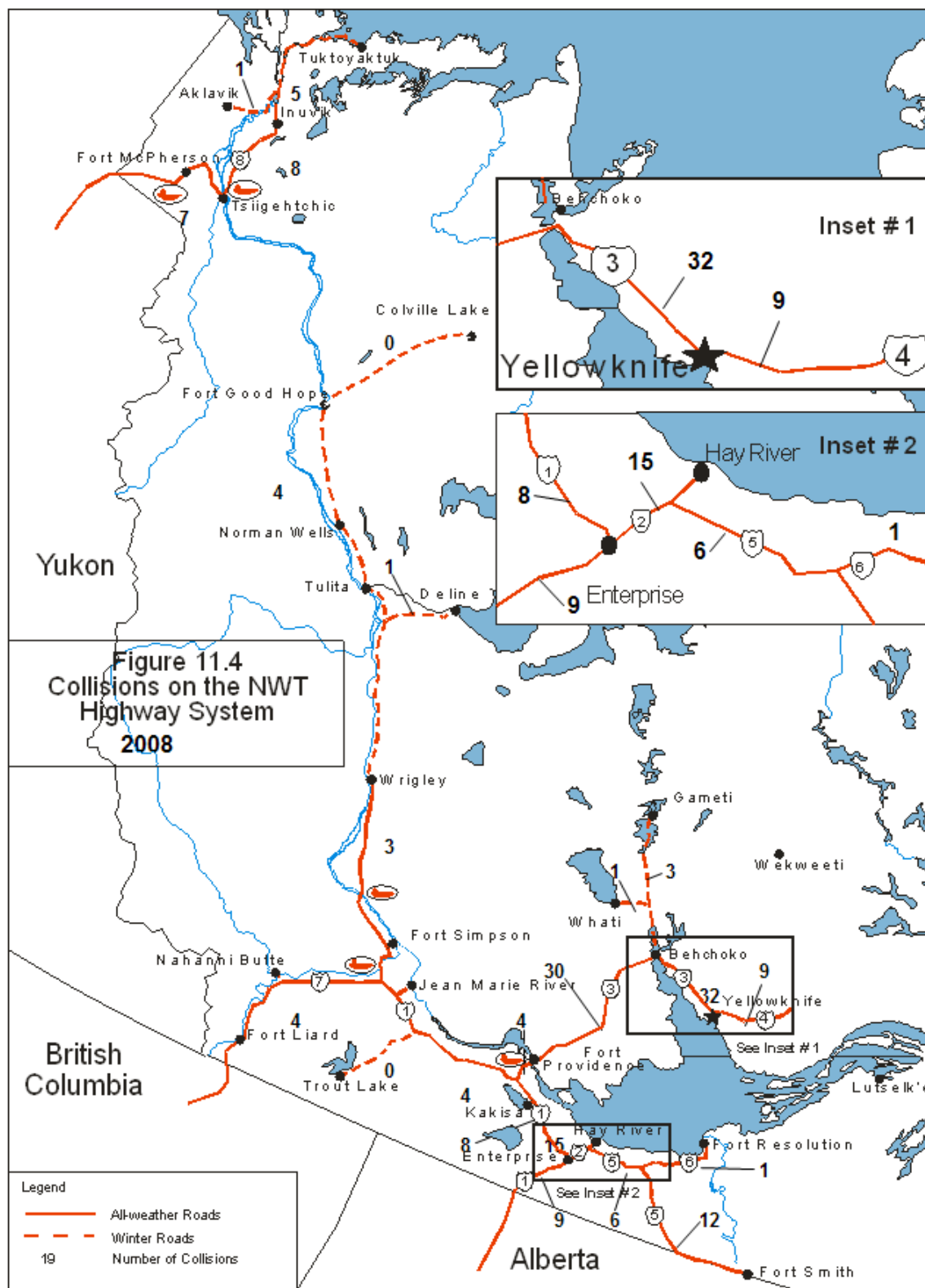
Access and Winter Roads	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
Fort Simpson Access Road	28 Feb 2008	Injury	Rear End	2	0
Fort Simpson Access Road	30 Mar 2008	Property Damage	Sideswipe - Opposite Direction	0	0
Hay River Reserve Access Road	22 Jul 2008	Property Damage	Single Vehicle Rollover	0	0
Hay River Reserve Access Road	17 Aug 2008	Property Damage	Collision with Fixed Object	0	0
Kakisa Lake Access Road	19 Jul 2008	Injury	Ran Off Road - Right	1	0
Rae Access Road	20 Mar 2008	Property Damage	Single Vehicle Rollover	0	0
Rae Access Road	23 Nov 2008	Property Damage	Ran Off Road - Left	0	0
Yellowknife Access Road	30 Aug 2008	Property Damage	Rear End	0	0
Yellowknife Access Road	15 Nov 2008	Property Damage	Collision with Fixed Object	0	0
Yellowknife Access Road	21 Nov 2008	Property Damage	Collision with Fixed Object	0	0
Yellowknife Access Road	21 Dec 2008	Property Damage	Ran Off Road - Left	0	0
Aklavik Winter Access Road	21 Mar 2008	Property Damage	Single Vehicle Rollover	0	0
Deline Winter Access Road	27 Jan 2008	Property Damage	Collision with Parked Vehicle	0	0
Dettah Winter Access Road	7 Feb 2008	Injury	Other Multi-Vehicle Same Direction	1	0
Inuvik-tuktoyaktuk Winter Road	2 Feb 2008	Property Damage	Single Vehicle Rollover	0	0
Inuvik-tuktoyaktuk Winter Road	19 Feb 2008	Property Damage	Single Vehicle Rollover	0	0
Inuvik-tuktoyaktuk Winter Road	11 Mar 2008	Injury	Ran Off Road - Left	1	0
Inuvik-tuktoyaktuk Winter Road	16 Mar 2008	Injury	Ran Off Road - Right	1	0
Inuvik-tuktoyaktuk Winter Road	25 Dec 2008	Injury	Ran Off Road - Right	1	0
Mackenzie Highway Winter Road	3 Jan 2008	Property Damage	Single Vehicle Rollover	0	0
Mackenzie Highway Winter Road	8 Mar 2008	Property Damage	Sideswipe - Opposite Direction	0	0
Mackenzie Highway Winter Road	22 Mar 2008	Injury	Single Vehicle Rollover	1	0
Mackenzie Highway Winter Road	UU Apr 2008	Property Damage	Sideswipe - Opposite Direction	0	0
Rae Lakes Winter Access Road	26 Mar 2008	Property Damage	Ran Off Road - Right	0	0
Rae Lakes Winter Access Road	1 Apr 2008	Injury	Single Vehicle Rollover	1	0
Rae Lakes Winter Access Road	1 Apr 2008	Property Damage	Single Vehicle Rollover	0	0
Wha Ti Winter Access Road	10 Mar 2008	Property Damage	Collision with Fixed Object	0	0

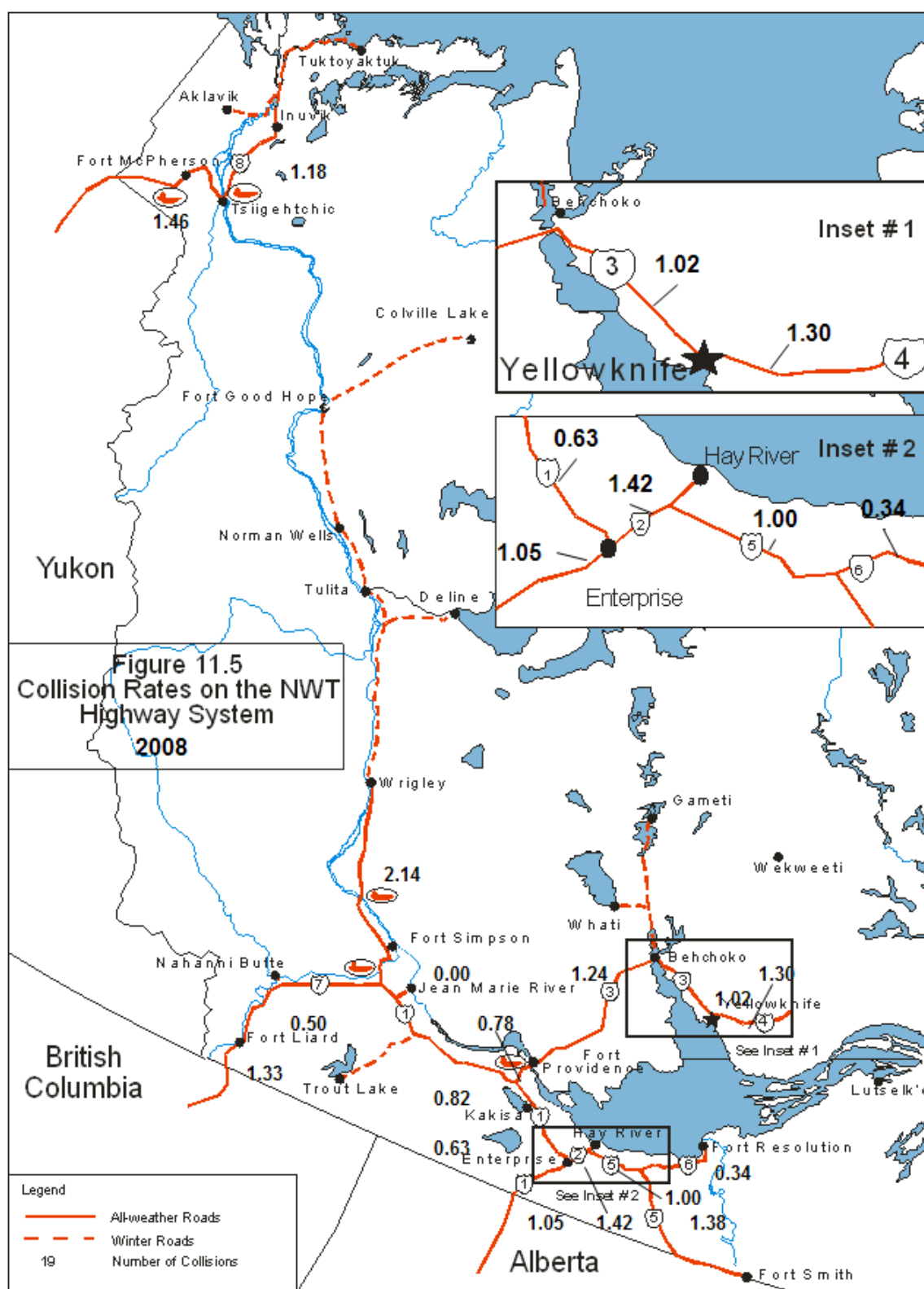
Summary Access and Winter Roads	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	19	8	0	27	9	0

Summary All NWT Highways	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	130	46	3	179	80	3







**Casualty Rates by Canadian Jurisdiction - 2007 [1]**

Figure 12.1

Province/ Territory	Casualty Rates					
	Per 100,000 Population		Per Billion Vehicle Kilometres [2]		Per 100,000 Licensed Drivers	
	Fatalities	Injuries	Fatalities	Injuries	Fatalities	Injuries
<b>Canada</b>	<b>8.4</b>	<b>588.8</b>	<b>8.3</b>	<b>584</b>	<b>12.2</b>	<b>859.0</b>
Newfoundland & Labrador	8.1	447.2	9.4	519	12.0	661.3
Prince Edward Island	5.8	585.0	5.6	566	8.3	837.5
Nova Scotia	10.6	656.5	9.3	578	14.9	924.6
New Brunswick	11.9	497.2	11.0	460	16.6	693.9
Quebec	8.1	623.0	8.8	679	12.6	977.3
Ontario	6.0	523.3	6.2	535	8.6	749.0
Manitoba	9.2	719.7	7.9	617	14.2	1,113.0
Saskatchewan	14.3	686.6	10.6	509	20.8	993.7
Alberta	13.2	706.1	9.6	513	17.6	942.9
British Columbia	9.5	592.9	11.6	726	13.9	864.2
Yukon	16.1	671.2	10.3	427	20.7	862.0
<b>Northwest Territories</b>	<b>11.7</b>	<b>365.9</b>	<b>13.9</b>	<b>435</b>	<b>20.5</b>	<b>638.2</b>
Nunavut	0.0	48.2	0.0	462	0.0	N/A

[1] Canadian Motor Vehicle Traffic Collision Statistics: 2007. Published by Transport Canada.

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

# Appendix A1 – Collision Report Form Side I

Northwest Territories ACCIDENT REPORT				02. POLICE DETACHMENT				03. CASE NUMBER				PAGE OF			
1. In Community of (Give Park, Special Area Etc.)				31. DIRECTION OF TRAVEL				REPORT TYPE				REPORT STATUS			
2. Near On Km				8 7 6 5 4 3 2 1				1. Original 3. Amendment 2. Continuation 4. Correction				1. Complete 2. Incomplete			
At Intersection With Of Highway Number Or Street/Road/Avenue				9. Parked 5				04. SCENE ATTENDED 1. Yes 2. No				05. - 08. DATE OF COLLISION			
If Not At Intersection metres of Street, Highway, Town, Etc.				Q. Other U. Unknown				10. COLLISION SEVERITY 1. Fatal 3. Property Damage 2. Injury U. Unknown				15. HIT AND RUN 1. Yes 2. No			
Special Reference If Location Can Be Described More Precisely, Enter Here				14. TYPE				32. Sideswipe-Opposite Direction				34. Right Turn Including Conflict			
01. H&M Moving Object				21. Rear End				33. Left Turn Across Path				35. Right Angle			
02. H&M Stationary Object				22. Sideswipe Same Direction				34. Right Turn Including Conflict				41. Hit Parked Vehicle			
03. Off Road Left				23. Passing - Left Turn				35. Right Angle				41. Hit Parked Vehicle			
04. Off Road Right				24. Passing - Right Turn				36. Other Multi-Vehicle Opposite Direction				Q0. Other Collision Type			
05. Rollover on Roadway				25. Other Multi-Vehicle Same Direction				37. Left Turn Across Path				Q0. Other Collision Type			
06. Other Single Vehicle				31. Head-On				38. Right Turn Including Conflict				Q0. Other Collision Type			
07. Other Multi-Vehicle				32. Sideswipe-Opposite Direction				39. Left Turn Across Path				Q0. Other Collision Type			
08. Other Multi-Vehicle				33. Left Turn Across Path				40. Right Turn Including Conflict				Q0. Other Collision Type			
09. Ped. UU. Unknown				34. Right Turn Including Conflict				41. Hit Parked Vehicle				Q0. Other Collision Type			
10. Ped. UU. Unknown				35. Right Angle				42. HIT AND RUN				Q0. Other Collision Type			
11. Ped. UU. Unknown				36. Other Multi-Vehicle Opposite Direction				43. FIRST IMPACT LOCATION				44. DAMAGE SEVERITY			
12. Ped. UU. Unknown				37. Left Turn Across Path				15. Right Rear Two-Thirds				1. None			
13. Ped. UU. Unknown				38. Right Turn Including Conflict				16. Entire Right Side				2. Minimal			
14. Ped. UU. Unknown				39. Left Turn Across Path				17. Right Side Unspecified				3. Moderate			
15. Ped. UU. Unknown				40. Right Turn Including Conflict				18. Undercarriage				4. Severe			
16. Ped. UU. Unknown				41. Left Turn Across Path				19. Interior				5. Demolished			
17. Ped. UU. Unknown				42. Right Turn Including Conflict				20. Attachment				Q. Other U. Unknown			
18. Ped. UU. Unknown				43. Left Turn Across Path				21. No Apparent Damage				Q. Other U. Unknown			
19. Ped. UU. Unknown				44. Right Turn Including Conflict				22. Other U. Unknown				Q. Other U. Unknown			
20. Ped. UU. Unknown				45. Left Turn Across Path				23. Other U. Unknown				Q. Other U. Unknown			
21. Ped. UU. Unknown				46. Right Turn Including Conflict				24. Other U. Unknown				Q. Other U. Unknown			
22. Ped. UU. Unknown				47. Left Turn Across Path				25. Other U. Unknown				Q. Other U. Unknown			
23. Ped. UU. Unknown				48. Right Turn Including Conflict				26. Other U. Unknown				Q. Other U. Unknown			
24. Ped. UU. Unknown				49. Left Turn Across Path				27. Other U. Unknown				Q. Other U. Unknown			
25. Ped. UU. Unknown				50. Right Turn Including Conflict				28. Other U. Unknown				Q. Other U. Unknown			
26. Ped. UU. Unknown				51. Left Turn Across Path				29. Other U. Unknown				Q. Other U. Unknown			
27. Ped. UU. Unknown				52. Right Turn Including Conflict				30. Other U. Unknown				Q. Other U. Unknown			
28. Ped. UU. Unknown				53. Left Turn Across Path				31. Other U. Unknown				Q. Other U. Unknown			
29. Ped. UU. Unknown				54. Right Turn Including Conflict				32. Other U. Unknown				Q. Other U. Unknown			
30. Ped. UU. Unknown				55. Left Turn Across Path				33. Other U. Unknown				Q. Other U. Unknown			
31. Ped. UU. Unknown				56. Right Turn Including Conflict				34. Other U. Unknown				Q. Other U. Unknown			
32. Ped. UU. Unknown				57. Left Turn Across Path				35. Other U. Unknown				Q. Other U. Unknown			
33. Ped. UU. Unknown				58. Right Turn Including Conflict				36. Other U. Unknown				Q. Other U. Unknown			
34. Ped. UU. Unknown				59. Left Turn Across Path				37. Other U. Unknown				Q. Other U. Unknown			
35. Ped. UU. Unknown				60. Right Turn Including Conflict				38. Other U. Unknown				Q. Other U. Unknown			
36. Ped. UU. Unknown				61. Left Turn Across Path				39. Other U. Unknown				Q. Other U. Unknown			
37. Ped. UU. Unknown				62. Right Turn Including Conflict				40. Other U. Unknown				Q. Other U. Unknown			
38. Ped. UU. Unknown				63. Left Turn Across Path				41. Other U. Unknown				Q. Other U. Unknown			
39. Ped. UU. Unknown				64. Right Turn Including Conflict				42. Other U. Unknown				Q. Other U. Unknown			
40. Ped. UU. Unknown				65. Left Turn Across Path				43. Other U. Unknown				Q. Other U. Unknown			
41. Ped. UU. Unknown				66. Right Turn Including Conflict				44. Other U. Unknown				Q. Other U. Unknown			
42. Ped. UU. Unknown				67. Left Turn Across Path				45. Other U. Unknown				Q. Other U. Unknown			
43. Ped. UU. Unknown				68. Right Turn Including Conflict				46. Other U. Unknown				Q. Other U. Unknown			
44. Ped. UU. Unknown				69. Left Turn Across Path				47. Other U. Unknown				Q. Other U. Unknown			
45. Ped. UU. Unknown				70. Right Turn Including Conflict				48. Other U. Unknown				Q. Other U. Unknown			
46. Ped. UU. Unknown				71. Left Turn Across Path				49. Other U. Unknown				Q. Other U. Unknown			
47. Ped. UU. Unknown				72. Right Turn Including Conflict				50. Other U. Unknown				Q. Other U. Unknown			
48. Ped. UU. Unknown				73. Left Turn Across Path				51. Other U. Unknown				Q. Other U. Unknown			
49. Ped. UU. Unknown				74. Right Turn Including Conflict				52. Other U. Unknown				Q. Other U. Unknown			
50. Ped. UU. Unknown				75. Left Turn Across Path				53. Other U. Unknown				Q. Other U. Unknown			
51. Ped. UU. Unknown				76. Right Turn Including Conflict				54. Other U. Unknown				Q. Other U. Unknown			
52. Ped. UU. Unknown				77. Left Turn Across Path				55. Other U. Unknown				Q. Other U. Unknown			
53. Ped. UU. Unknown				78. Right Turn Including Conflict				56. Other U. Unknown				Q. Other U. Unknown			
54. Ped. UU. Unknown				79. Left Turn Across Path				57. Other U. Unknown				Q. Other U. Unknown			
55. Ped. UU. Unknown				80. Right Turn Including Conflict				58. Other U. Unknown				Q. Other U. Unknown			
56. Ped. UU. Unknown				81. Left Turn Across Path				59. Other U. Unknown				Q. Other U. Unknown			
57. Ped. UU. Unknown				82. Right Turn Including Conflict				60. Other U. Unknown				Q. Other U. Unknown			
58. Ped. UU. Unknown				83. Left Turn Across Path				61. Other U. Unknown				Q. Other U. Unknown			
59. Ped. UU. Unknown				84. Right Turn Including Conflict				62. Other U. Unknown				Q. Other U. Unknown			
60. Ped. UU. Unknown				85. Left Turn Across Path				63. Other U. Unknown				Q. Other U. Unknown			
61. Ped. UU. Unknown				86. Right Turn Including Conflict				64. Other U. Unknown				Q. Other U. Unknown			
62. Ped. UU. Unknown				87. Left Turn Across Path				65. Other U. Unknown				Q. Other U. Unknown			
63. Ped. UU. Unknown				88. Right Turn Including Conflict				66. Other U. Unknown				Q. Other U. Unknown			
64. Ped. UU. Unknown				89. Left Turn Across Path				67. Other U. Unknown				Q. Other U. Unknown			
65. Ped. UU. Unknown				90. Right Turn Including Conflict				68. Other U. Unknown				Q. Other U. Unknown			
66. Ped. UU. Unknown				91. Left Turn Across Path				69. Other U. Unknown				Q. Other U. Unknown			
67. Ped. UU. Unknown				92. Right Turn Including Conflict				70. Other U. Unknown				Q. Other U. Unknown			
68. Ped. UU. Unknown				93. Left Turn Across Path				71. Other U. Unknown				Q. Other U. Unknown			
69. Ped. UU. Unknown				94. Right Turn Including Conflict				72. Other U. Unknown				Q. Other U. Unknown			
70. Ped. UU. Unknown				95. Left Turn Across Path				73. Other U. Unknown				Q. Other U. Unknown			
71. Ped. UU. Unknown				96. Right Turn Including Conflict				74. Other U. Unknown				Q. Other U. Unknown			
72. Ped. UU. Unknown				97. Left Turn Across Path				75. Other U. Unknown				Q. Other U. Unknown			
73. Ped. UU. Unknown				98. Right Turn Including Conflict				76. Other U. Unknown				Q. Other U. Unknown			
74. Ped. UU. Unknown				99. Left Turn Across Path				77. Other U. Unknown				Q. Other U. Unknown			
75. Ped. UU. Unknown				100. Right Turn Including Conflict				78. Other U. Unknown				Q. Other U. Unknown			
76. Ped. UU. Unknown				101. Left Turn Across Path				79. Other U. Unknown				Q. Other U. Unknown			
77. Ped. UU. Unknown				102. Right Turn Including Conflict				80. Other U. Unknown				Q. Other U. Unknown			
78. Ped. UU. Unknown				103. Left Turn Across Path				81. Other U. Unknown				Q. Other U. Unknown			
79. Ped. UU. Unknown				104. Right Turn Including Conflict				82. Other U. Unknown				Q. Other U. Unknown			
80. Ped. UU. Unknown				105. Left Turn Across Path				83. Other U. Unknown				Q. Other U. Unknown			
81. Ped. UU. Unknown				106. Right Turn Including Conflict				84. Other U. Unknown				Q. Other U. Unknown			
82. Ped. UU. Unknown				107. Left Turn Across Path				85. Other U. Unknown				Q. Other U. Unknown			
83. Ped. UU. Unknown				108. Right Turn Including Conflict				86. Other U. Unknown				Q. Other U. Unknown			
84. Ped. UU. Unknown				109. Left Turn Across Path				87. Other U. Unknown				Q. Other U. Unknown			
85. Ped. UU. Unknown				110. Right Turn Including Conflict				88. Other U. Unknown				Q. Other U. Unknown			
86. Ped. UU. Unknown				111. Left Turn Across Path				89. Other U. Unknown				Q. Other U. Unknown			
87. Ped. UU. Unknown				112. Right Turn Including Conflict				90. Other U. Unknown				Q. Other U. Unknown			
88. Ped. UU. Unknown				113. Left Turn Across Path				91. Other U. Unknown				Q. Other U. Unknown			
89. Ped. UU. Unknown				114. Right Turn Including Conflict				92. Other U. Unknown				Q. Other U. Unknown			
90. Ped. UU. Unknown				115. Left Turn Across Path				93. Other U. Unknown				Q. Other U. Unknown			
91. Ped. UU. Unknown				116. Right Turn Including Conflict				94. Other U. Unknown				Q. Other U. Unknown			
92. Ped. UU. Unknown				117. Left Turn Across Path				95. Other U. Unknown				Q. Other U. Unknown			
93. Ped. UU. Unknown				118. Right Turn Including Conflict				96. Other U. Unknown				Q. Other U. Unknown			
94. Ped. UU. Unknown				119. Left Turn Across Path				97. Other U. Unknown				Q. Other U. Unknown			
95. Ped. UU. Unknown				120. Right Turn Including Conflict				98. Other U. Unknown				Q. Other U. Unknown			
96. Ped. UU. Unknown				121. Left Turn Across Path				99. Other U. Unknown				Q. Other U. Unknown			
97. Ped. UU. Unknown				122. Right Turn Including Conflict				100. Other U. Unknown				Q. Other U. Unknown			
98. Ped. UU. Unknown				123. Left Turn Across Path				101. Other U. Unknown				Q. Other U. Unknown			
99. Ped. UU. Unknown				124. Right Turn Including Conflict				102. Other U. Unknown				Q. Other U. Unknown			
100. Ped. UU. Unknown				125. Left Turn Across Path				103. Other U. Unknown				Q. Other U. Unknown			
101. Ped. UU. Unknown				126. Right Turn Including Conflict				104. Other U. Unknown				Q. Other U. Unknown			
102. Ped. UU. Unknown				127. Left Turn Across Path				105. Other U. Unknown				Q. Other U. Unknown			
103. Ped. UU. Unknown				128. Right Turn Including Conflict				106. Other U. Unknown				Q. Other U. Unknown			
104. Ped. UU. Unknown				129. Left Turn Across Path				107. Other U. Unknown				Q. Other U. Unknown			
105. Ped. UU. Unknown				130. Right Turn Including Conflict				108. Other U. Unknown				Q. Other U. Unknown			
106. Ped. UU. Unknown				131. Left Turn Across Path				109. Other U. Unknown				Q. Other U. Unknown			
107. Ped. UU. Unknown				132. Right Turn Including Conflict				110. Other U. Unknown				Q. Other U. Unknown			
108. Ped. UU. Unknown				133. Left Turn Across Path				111. Other U. Unknown				Q. Other U. Unknown			
109. Ped. UU. Unknown				134. Right Turn Including Conflict				112. Other U. Unknown				Q. Other U. Unknown			
110. Ped. UU. Unknown				135. Left Turn Across Path				113. Other U. Unknown				Q. Other U. Unknown			
111. Ped. UU. Unknown				136. Right Turn Including Conflict				114. Other U. Unknown				Q. Other U. Unknown			
112. Ped. UU. Unknown				137. Left Turn Across Path				115. Other U. Unknown				Q. Other U. Unknown			
113. Ped. UU. Unknown				138. Right Turn Including Conflict				116. Other U. Unknown				Q. Other U. Unknown			
114. Ped. UU. Unknown				139. Left Turn Across Path				117. Other U. Unknown				Q. Other U. Unknown			
115. Ped. UU. Unknown				140. Right Turn Including Conflict				118. Other U. Unknown				Q. Other U. Unknown			
116. Ped. UU. Unknown				141. Left Turn Across Path				119. Other U. Unknown				Q. Other U. Unknown			
117. Ped. UU. Unknown				142. Right Turn Including Conflict				120. Other U. Unknown				Q. Other U. Unknown			
118. Ped. UU. Unknown				143. Left Turn Across Path				121. Other U. Unknown				Q. Other U. Unknown			
119. Ped. UU. Unknown				144. Right Turn Including Conflict				122. Other U. Unknown				Q. Other U. Unknown			
120. Ped. UU. Unknown				145. Left Turn Across Path				123. Other U. Unknown				Q. Other U. Unknown			
121. Ped. UU. Unknown				146. Right Turn Including Conflict				124. Other U. Unknown				Q. Other U. Unknown			
122. Ped. UU. Unknown				147. Left Turn Across Path				125. Other U. Unknown				Q. Other U. Unknown			
123. Ped. UU. Unknown				148. Right Turn Including Conflict				126. Other U. Unknown				Q. Other U. Unknown			
124. Ped. UU. Unknown				149. Left Turn Across Path				127. Other U. Unknown				Q. Other U. Unknown			
125. Ped. UU. Unknown				150. Right Turn Including Conflict				128. Other U. Unknown				Q. Other U. Unknown			
126. Ped. UU. Unknown				151. Left Turn Across Path				129. Other U. Unknown				Q. Other U. Unknown			
127. Ped. UU. Unknown				152. Right Turn Including Conflict				130. Other U. Unknown				Q. Other U. Unknown			
128. Ped. UU. Unknown				153. Left Turn Across Path				131. Other U. Unknown				Q. Other U. Unknown			
129. Ped. UU. Unknown				154. Right Turn Including Conflict				132. Other U. Unknown				Q. Other U. Unknown			
130. Ped. UU. Unknown				155. Left Turn Across Path				133. Other U. Unknown				Q. Other U. Unknown			
131. Ped. UU. Unknown				156. Right Turn Including Conflict				134. Other U. Unknown				Q. Other U. Unknown			
132. Ped. UU. Unknown				157. Left Turn Across Path				135. Other U. Unknown				Q. Other U. Unknown			
133. Ped. UU. Unknown				158. Right Turn Including Conflict				136. Other U. Unknown				Q. Other U. Unknown			
134. Ped. UU. Unknown				159. Left Turn Across Path				137. Other U. Unknown				Q. Other U. Unknown			
135. Ped. UU. Unknown				160. Right Turn Including Conflict				138. Other U. Unknown				Q. Other U. Unknown			
136. Ped. UU. Unknown				161. Left Turn Across Path				139. Other U. Unknown				Q. Other U. Unknown			
137. Ped. UU. Unknown				162. Right Turn Including Conflict				140. Other U. Unknown				Q. Other U. Unknown			
138. Ped. UU. Unknown				163. Left Turn Across Path				141. Other U. Unknown				Q. Other U. Unknown			
139. Ped. UU. Unknown				164. Right Turn Including Conflict				142. Other U. Unknown				Q. Other U. Unknown			
140. Ped. UU. Unknown				165. Left Turn Across Path				143. Other U. Unknown				Q. Other U. Unknown			
141. Ped. UU. Unknown				166. Right Turn Including Conflict				144. Other U. Unknown				Q. Other U. Unknown			
142. Ped. UU. Unknown				167. Left Turn Across Path				145. Other U. Unknown				Q. Other U. Unknown			
143. Ped. UU. Unknown				168. Right Turn Including Conflict				146. Other U. Unknown				Q. Other U. Unknown			
144. Ped. UU. Unknown				169. Left Turn Across Path				147. Other U. Unknown				Q. Other U. Unknown			
145. Ped. UU. Unknown				170. Right Turn Including Conflict				148. Other U. Unknown				Q. Other U. Unknown			
146. Ped. UU. Unknown				171. Left Turn Across Path				149. Other U. Unknown				Q. Other U. Unknown			
147. Ped. UU. Unknown				172. Right Turn Including Conflict				150. Other U. Unknown				Q. Other U. Unknown			
148. Ped. UU. Unknown				173. Left Turn Across Path				151. Other U. Unknown				Q. Other U. Unknown			
149. Ped. UU. Unknown				174. Right Turn Including Conflict				152. Other U. Unknown				Q. Other U. Unknown			
150. Ped. UU. Unknown				175. Left Turn Across Path				153. Other U. Unknown				Q. Other U. Unknown			
151. Ped. UU. Unknown				176. Right Turn Including Conflict				154. Other U. Unknown				Q. Other U. Unknown			
152. Ped. UU. Unknown				177. Left Turn Across Path				155. Other U. Unknown				Q. Other U. Unknown			
153. Ped. UU. Unknown				178. Right Turn Including Conflict				156. Other U. Unknown				Q. Other U. Unknown			
154. Ped. UU. Unknown				179. Left Turn Across Path				157. Other U. Unknown				Q. Other U. Unknown			
155. Ped. UU. Unknown				180. Right Turn Including Conflict				158. Other U. Unknown				Q. Other U. Unknown			
156. Ped. UU. Unknown				181. Left Turn Across Path				159. Other U. Unknown				Q. Other U. Unknown			
157. Ped. UU. Unknown				182. Right Turn Including Conflict				160. Other U. Unknown				Q. Other U. Unknown			
158. Ped. UU. Unknown				183. Left Turn Across Path				161. Other U. Unknown				Q. Other U. Unknown			
159. Ped. UU. Unknown				184. Right Turn Including Conflict				162. Other U. Unknown				Q. Other U. Unknown			
160. Ped. UU. Unknown				185. Left Turn Across Path				163. Other U. Unknown				Q. Other U. Unknown			
161. Ped. UU. Unknown				186. Right Turn Including Conflict				164. Other U. Unknown				Q. Other U. Unknown			
162. Ped. UU. Unknown				187. Left Turn Across Path				165. Other U. Unknown				Q. Other U. Unknown			
163. Ped. UU. Unknown				188. Right Turn Including Conflict				166. Other U. Unknown				Q. Other U. Unknown			
164. Ped. UU. Unknown				18											

# Appendix A2 – Collision Report Form Side II

<b>16. ROADWAY CONFIGURATION</b> 1. Non-Intersection 2. Intersection 2 Roads 3. Intersection With Parking Lot/Driveway/Alley 4. Railroad Level Crossing 5. Bridge, Overpass, Viaduct 6. Tunnel Or Underpass 7. Other 8. Unknown	<b>24. ROAD SURFACE</b> 1. Dry, Normal 2. Wet 3. Snow (Fresh/Loose) 4. Slush, Wet Snow 5. Ice 6. Sandy/Gravel/Dirt 7. Muddy 8. Oil 9. Flooded 10. Other 11. Unknown	<b>31. VEHICLE TYPE</b> 1. Urban Transit Bus 2. Inter-city Bus 3. Motorcycle 4. Motorcycle - Speed Limited 5. Off-Road Vehicle 6. Bicycle 7. Purpose-Built Motor Home 8. Farm Equipment 9. Construction Equipment 10. Snowmobile 11. Other UU, Unknown	<b>41. VEHICLE MANOEUVRE</b> 01. Going Straight 02. Turning Left 03. Turning Right 04. Making U-Turn 05. Changing Lanes 06. Merging 07. Reversing 08. Overtaking 09. Negotiating Curve 10. Slowing, Stopping 11. Starting In Traffic 12. Leaving Roadside 13. Stopped/Parked Legally 14. Stopped/Parked Illegally 15. Swerving To Avoid Collision 16. Run-Away Or Roll Away Vehicle 21. Unspecified Manoeuvre QQ. Other UU, Unknown	<b>48. DRIVER ACTION</b> 21. Following Too Closely 22. Distracted, Inattentive 23. Driving Too Fast For Conditions 24. Improper Turning Or Passing 25. Fail To Yield Right-Of-Way 26. Disobeyed Traffic Control Device/ Police Officer 27. Driving On Wrong Side Of Road 29. Backing Unsafely 30. Lost Control NN. Driving Properly QQ. Other UU, Unknown	<b>68. PEDESTRIAN ACTION</b> 01. Crossing Intersection With ROW 02. Crossing Intersection Without ROW 04. In Crosswalk 05. Crossing Roadway At Midblock 06. Walking On Roadway Against Traffic 07. Walking On Roadway With Traffic 08. On Sidewalk, Median, Safety Zone 11. Coming From Behind Parked Vehicle/Object 12. Coming From Behind Moving Vehicle 13. Running Into Roadway 14. Getting On/Off School Bus 15. Getting On/Off Vehicle 16. Pushing Vehicle 17. Working On Vehicle 18. Playing On Road 19. Working On Road 20. Lying On Road NN. Not a Pedestrian QQ. Other UU, Unknown	<b>INDEPENDENT WITNESSES</b> Last Name First Name Address Home Phone Work Phone Last Name First Name Address Home Phone Work Phone
<b>17. WEATHER CONDITION</b> 1. Clear and/or Sunny 2. Overcast, Cloudy - No Precipitation 3. Raining 4. Snowing, Not Including Drifting Snow 5. Freez. Rain, Sleet, Hail 6. Visibility Limitation (Eg. Fog, Smoke, Dust, Mist) 7. Strong Wind 8. Other 9. Unknown	<b>25. ROAD CONDITION</b> 1. Good 2. Potholes, Bumps, Ruts 3. Under Construction, Repair 4. Uneven 5. Worn 6. Obscured/Faded Markings 7. Other 8. Unknown	<b>36. VEHICLE USE</b> 01. Taxi 02. School Bus 03. Other Bus 04. Military 05. Police Cruiser 06. Other Police 07. Ambulance 08. Hearse 09. Tow Truck 10. Delivery Vehicle 11. Road Maintenance 12. Utilities Maintenance 13. Fire Response 99. No Special Use QQ. Other UU, Unknown	<b>44 - 46. VEHICLE EVENTS</b> NON-COLLISION EVENTS: 01. Skidded Or Spun On Roadway 02. Ran Off Road 03. Overturned, Rollover 04. Jackknife Or Trailer Swing 05. Fire Or Explosion 06. Load Spill 07. Load Shift 08. Submersion 09. Other Non-Collision Event HIT MOVING OBJECTS: 11. Hit Moving Motor Vehicle 12. Hit Pedestrian 13. Hit Bicyclist 14. Hit Animal 15. Hit Train 19. Hit Another Moving Object HIT NON-MOVING OBJECTS: 21. Hit Parked Vehicle 22. Hit Non-Fixed Object 23. Hit Building 24. Hit Ditch 25. Hit Embankment, Dirt Pile, Rock 26. Hit Culvert, Drainage Structure 27. Hit Tree/Bush/Hedge 28. Hit Light/Utility Pole 29. Hit Curb 30. Hit Post 31. Hit Traffic Barrier 32. Hit Other Fixed Object, Part Of Road Structure 33. Hit Other Fixed Object NOT Part Of Road Structure 39. Hit Other Type Fixed Object NN. No 2nd or 3rd Event QQ. Other UU, Unknown	<b>49. VEHICLE FACTORS</b> 41. Defective Brakes 42. Defective Steering 43. Defective Lights 44. Tire Blown Out 45. Unsecured Or Spilled Load 46. Oversized Load, Overload 47. Visibility Obstructed 48. Other Defective Parts NN. No Defects QQ. Other UU, Unknown	<b>50. ENVIRONMENTAL FACTORS</b> 51. Animal On Roadway 52. Road Surface Or Other Condition 53. Obstruction On Road 54. View Obstructed, Glare, Reflection 55. Weather Or Acts Of God NN. No Environmental Factors QQ. Other UU, Unknown	<b>ADDITIONAL WITNESSES ON FILE?</b> Yes No <b>DESCRIPTION:</b> Show Direction of Travel, Obstructions, Vehicle Movement, Travel Lane, Fixed Objects, Traffic Controls.
<b>18. LIGHT CONDITION</b> 1. Daylight 2. Dawn 3. Dusk 4. Darkness 5. Unknown	<b>26. ROAD ALIGNMENT</b> 1. Straight And Level 2. Straight With Grade 3. Under Construction, Repair 4. Curved And Level 4. Curved With Grade 5. Top Of Hill/Gradient 6. Bottom Of Hill/Gradient 7. Other 8. Unknown	<b>37. EMERGENCY USE</b> 1. Yes 2. No N. Not an Emergency Vehicle UU. Unknown	<b>38. TRAILER TYPE</b> 1. Recreational Trailer 2. Light Utility Trailer (Boat) 3. Commercial Full Trailer 4. One Semi-Trailer 5. Two Semi-Trailers, A-Train 6. Two Semi-Trailers, B-Train 7. Two Semi-Trailers, C-Train 8. Two Semi-Trailers, Connector Unknown 9. Three Semi-Trailers N. No Trailers Q. Other UU. Unknown	<b>51. DANGEROUS GOODS CLASS</b> 1. Explosives 2. Gases 3. Flammable Liquids 4. Flammable Solids, Spontaneous Combustibles 5. Oxidizers & Organic Peroxides 6. Poisonous & Infectious Substances 7. Radioactives 8. Corrosives 9. Misc. Dangerous Goods N. Not a Commercial Vehicle Q. Other UU, Unknown	<b>52. DANGEROUS GOODS CLASS</b> 1. Explosives 2. Gases 3. Flammable Liquids 4. Flammable Solids, Spontaneous Combustibles 5. Oxidizers & Organic Peroxides 6. Poisonous & Infectious Substances 7. Radioactives 8. Corrosives 9. Misc. Dangerous Goods N. Not a Commercial Vehicle Q. Other UU, Unknown	<b>DIAGRAM</b> Use Solid Direction Lines, Before Impact and Broken Lines After 
<b>19. ARTIFICIAL LIGHT CONDITION</b> 1. No Artificial Light 2. Artificial Light - On 3. Artificial Light - Off 4. Unknown	<b>27. TRAFFIC CONTROL</b> 01. Traffic Signals - Oper. 02. Traffic Signals - Flashing 03. Stop Sign 04. Yield Sign 05. Warning Sign 06. Pedestrian Crosswalk 07. Police Officer 08. School Guard, Flagman 09. School Crossing 10. Reduced Speed Zone 11. No Passing Zone Sign 12. Road Markings 13. School Bus Stopped/ Lights Flashing 14. School Bus Stopped/ Lights Not Flashing 15. Rail Crossing With Signals and/or Gates 16. Rail X-ing, Signs Only 17. Unspec. Control Device 18. No Control Present QQ. Other UU. Unknown	<b>39. USE OF HEADLIGHTS</b> 1. No Headlights On/Not Equipped 2. Daytime Running Lights On 3. Headlights On 4. Parking Lights Only On 5. Fog Or Auxiliary Lights On Q. Other UU. Unknown	<b>40. VEHICLE SPEED</b> 000. Stopped in Traffic NN. Parked UU. Unknown	<b>53. LOAD STATUS</b> <b>COMMERCIAL VEHICLES</b> 1. Fully/Partially Loaded 2. Not Loaded N. Not a Commercial Vehicle Q. Other UU, Unknown	<b>60. BLOOD ALCOHOL CONCENTRATION</b> (100-500 BAC (mg%) of Driver) /Pedestrian 600. Not Tested, Driver/Pedestrian Dead, Alcohol Use Suspected 610. Not Tested Due To Injury, Alcohol Use Suspected 620. Not Tested - Other Reasons, Alcohol Use Suspected 998. No Alcohol Suspected NNN. Passenger UU, Unknown	<b>POLICE COMMENTS</b>  
<b>20. ROAD CLASSIFICATION I</b> 1. Urban 2. Rural 3. Unknown	<b>28. POSTED SPEED LIMIT</b> UU. Unknown	<b>47. DRIVER/PEDESTRIAN CONDITION</b> 01. Fatigued/Fell Asleep 02. Inexperience 03. Under Influence - Alcohol 04. Under Influence - Drugs 05. Sudden Illness, Lost Consciousness NN. Apparently Normal QQ. Other UU, Unknown	<b>47. DRIVER/PEDESTRIAN</b> 01. Fatigued/Fell Asleep 02. Inexperience 03. Under Influence - Alcohol 04. Under Influence - Drugs 05. Sudden Illness, Lost Consciousness NN. Apparently Normal QQ. Other UU, Unknown	<b>54. LOAD STATUS</b> <b>COMMERCIAL VEHICLES</b> 1. Fully/Partially Loaded 2. Not Loaded N. Not a Commercial Vehicle Q. Other UU, Unknown	<b>60. BLOOD ALCOHOL CONCENTRATION</b> (100-500 BAC (mg%) of Driver) /Pedestrian 600. Not Tested, Driver/Pedestrian Dead, Alcohol Use Suspected 610. Not Tested Due To Injury, Alcohol Use Suspected 620. Not Tested - Other Reasons, Alcohol Use Suspected 998. No Alcohol Suspected NNN. Passenger UU, Unknown	<b>PROPOSED ACTION</b> Dri 1 Dri 2 Ped 1 Ped 2 Ped 3 Ped 4
<b>21. ROAD CLASSIFICATION II</b> 1. Arterial 2. Collector 3. Local 4. Other (Parking Lot) 5. Unknown	<b>29. ROAD CLASSIFICATION III</b> 1. One-Way, 2-Lane 2. One-Way, Multi-Lane 3. Undivided, 2-Way, 2-Lane 4. Undivided, 2-Way, Multi-Lane 5. Divided, With Barrier 6. Divided, With Median 7. Divided, Type Unspecified 8. Other (Parking Lot) 9. Unknown	<b>35. VEHICLE TYPE</b> 01. Passenger Car 02. Passenger Van 03. Light Utility Vehicle 04. Pickup Truck, To 4500 kg 05. Panel Cargo Van, To 4500 kg 06. Other Truck, Van, To 4500 kg 07. Unit Truck, > 4500 kg 08. Road Tractor 09. School Bus	<b>40. VEHICLE SPEED</b> 000. Stopped in Traffic NN. Parked UU. Unknown	<b>54. LOAD STATUS</b> <b>COMMERCIAL VEHICLES</b> 1. Fully/Partially Loaded 2. Not Loaded N. Not a Commercial Vehicle Q. Other UU, Unknown	<b>60. BLOOD ALCOHOL CONCENTRATION</b> (100-500 BAC (mg%) of Driver) /Pedestrian 600. Not Tested, Driver/Pedestrian Dead, Alcohol Use Suspected 610. Not Tested Due To Injury, Alcohol Use Suspected 620. Not Tested - Other Reasons, Alcohol Use Suspected 998. No Alcohol Suspected NNN. Passenger UU, Unknown	<b>PROPOSED ACTION</b> Dri 1 Dri 2 Ped 1 Ped 2 Ped 3 Ped 4

## Appendix A3 – Brief Description of Fatal Collisions

---

The following is a brief description of the 5 fatal traffic collisions that took place in the Northwest Territories in 2008, resulting in 5 fatalities.

RCMP Detachment	Date	Description
Tuktoyaktuk	03-Jul	Operator of all-terrain vehicle lost control on gravel road in community and struck utility pole. The operator sustained fatal injuries. A helmet was worn. It is unknown if alcohol was involved.
Fort Liard	10-Jul	Single vehicle rollover near Kilometre 22 on Highway #7. The driver of the sport utility vehicle was fatally injured while the two passengers sustained moderate to serious injuries. The driver was fully restrained while the two passengers were unrestrained. Speed was a factor. It is unknown if alcohol was involved.
Fort Smith	03-Sep	Single vehicle rollover near Kilometre 238 on Highway #5. The unrestrained driver of the van was totally ejected from the vehicle and died at the scene.
Tlicho	13-Sep	Single vehicle rollover near Kilometre 255 on Highway #3. Both the driver and passenger were unrestrained. The passenger sustained fatal injuries while the driver was partially ejected and sustained serious injuries. Speed and alcohol were factors.
Fort Smith	23-Nov	Alcohol impaired driver of sport utility vehicle lost control on snow-covered road within community and struck tree. None of the 4 occupants were restrained. The left rear passenger was ejected and killed. The other 3 occupants remained in the vehicle and suffered minor injuries.