

2003 NWT Traffic Collision Facts

Department of Transportation
Road Licensing and Safety Division
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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 Transportation 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.

2003 QUICK FACTS REPORT

2003 Compared to 2002

	<u>2002</u>	<u>2003</u>	<u>% Change</u>
PROPERTY DAMAGE ONLY COLLISIONS	650	686	5.5
PERSONAL INJURY COLLISIONS	154	130	-15.6
FATAL COLLISIONS	3	3	0.0
TOTAL REPORTED COLLISIONS	807	819	1.5
NUMBER OF PERSONS KILLED	3	3	0.0
NUMBER OF PERSONS INJURED	232	172	-25.9
NWT HIGHWAY SYSTEM COLLISIONS	187	175	-6.4
RURAL COLLISIONS	11	15	36.4
COLLISIONS IN COMMUNITIES	609	629	3.3
REGISTERED VEHICLES	28,856	29,106	0.9
LICENSED DRIVERS	23,223	24,040	3.5
NWT POPULATION [1]	41,400	41,900	1.2
COLLISIONS PER 100 LICENSED DRIVERS	3.48	3.41	-2.0
COLLISIONS PER 100 REGISTERED VEHICLES	2.80	2.81	0.6
COLLISIONS PER 100 POPULATION	1.95	1.95	0.3
COLLISIONS INVOLVING ALCOHOL	67	54	-19.4

[1] 2002 and 2003 population from NWT Bureau of Statistics July 1 estimate published in 'Quarterly Report', March 2004.

Introduction

The Traffic Collision Information System (TCIS) is a computer-based system that compiles information on traffic collisions occurring throughout the Northwest Territories. This information is obtained from the motor vehicle collision (MVA) report forms that are completed by Royal Canadian Mounted Police detachments in accordance with Section 262 of the *Motor Vehicles Act*.

TCIS provides valuable information for many traffic collision countermeasure programs. TCIS, the MVA report form, and various collision publications are administered by the GNWT Department of Transportation, Road Licensing and Safety Division. 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 MVA forms from their collision investigations.

TCIS 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. TCIS only records reportable motor vehicle collisions which 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 which 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.

TRAFFIC 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.

TRAFFIC FATALITY 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.

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Historical Trends

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Historical Trends

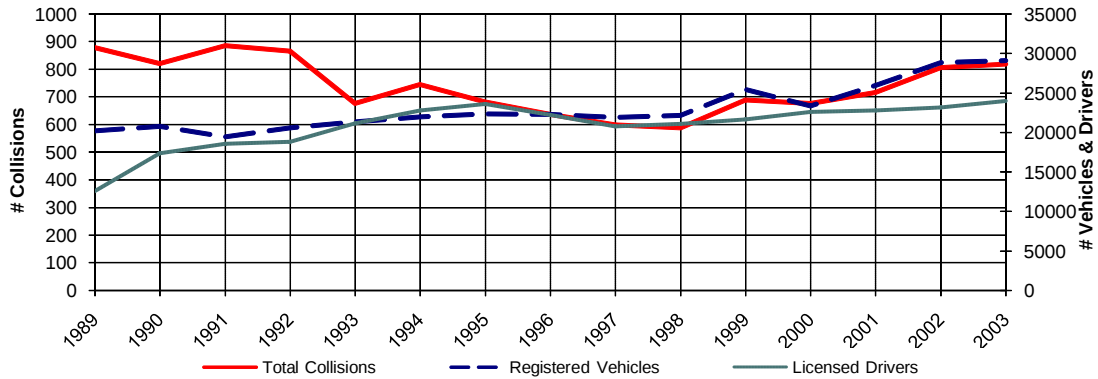
This section illustrates the 15-year history of collisions, victims and licensed drivers and vehicles.

Reporting definitions have remained the same since the inception of TCIS in 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 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 total of three traffic fatalities reported in 2003 is close to the 15-year average.

Trends in Licensed Drivers, Registered Vehicles and Collisions

Figure 1.1

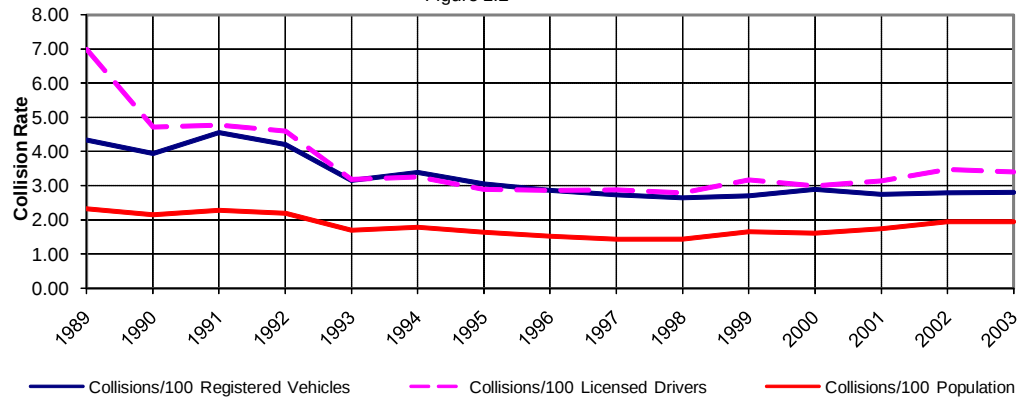


3 Year Summary

	2001	2002	2003	% Change
Registered Vehicles	25,936	28,856	29,106	0.9
Licensed Drivers	22,838	23,223	24,040	3.5
Total Collisions	716	807	819	1.5

Trends in Collision Rates by Vehicles, Drivers and Population

Figure 1.2

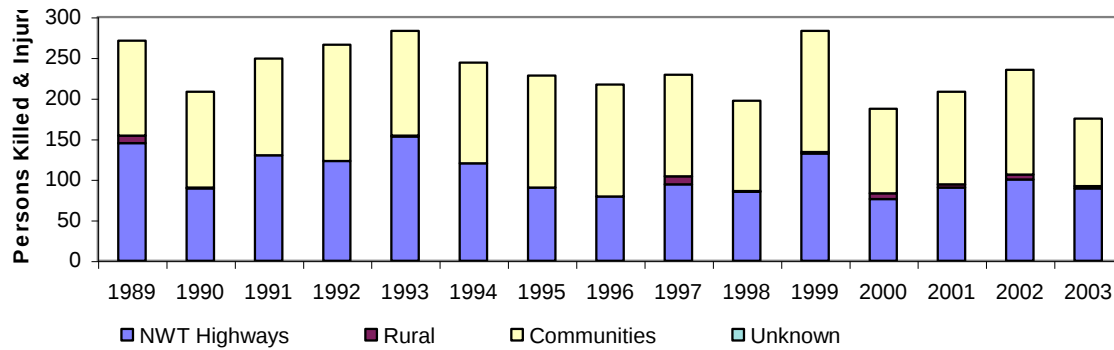


3 Year Summary

	2001	2002	2003	% Change
Collisions/100 Registered Vehicles	2.76	2.80	2.81	0.6
Collisions/100 Licensed Drivers	3.14	3.48	3.41	-2.0
Collisions/100 Population	1.74	1.95	1.95	0.3

Trends in Injuries & Fatalities

Figure 1.3

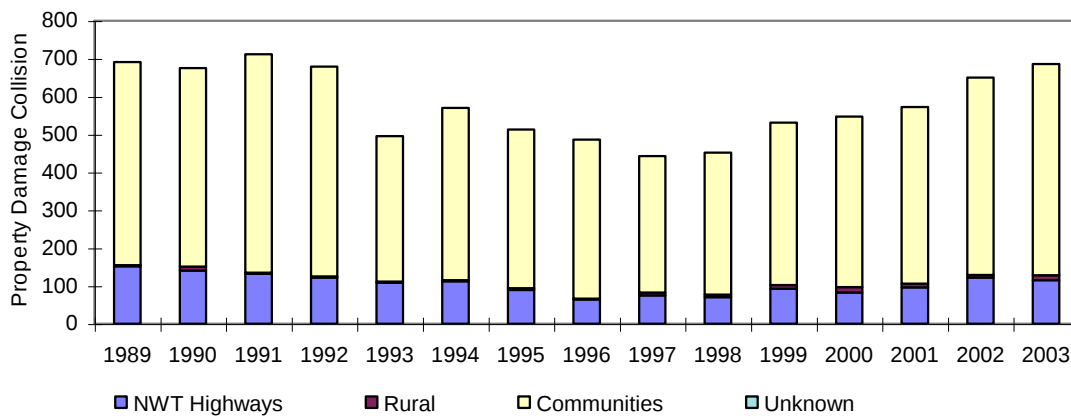


3 Year Summary

	Persons Injured				Persons Killed			
	2001	2002	2003	Average	2001	2002	2003	Average
NWT Highways	87	99	86	91	3	1	3	2
Rural	4	5	3	4	0	1	0	0
Communities	114	128	83	108	0	1	0	0
Total	205	232	172	203	3	3	3	3

Trends in Property Damage Collisions

Figure 1.4

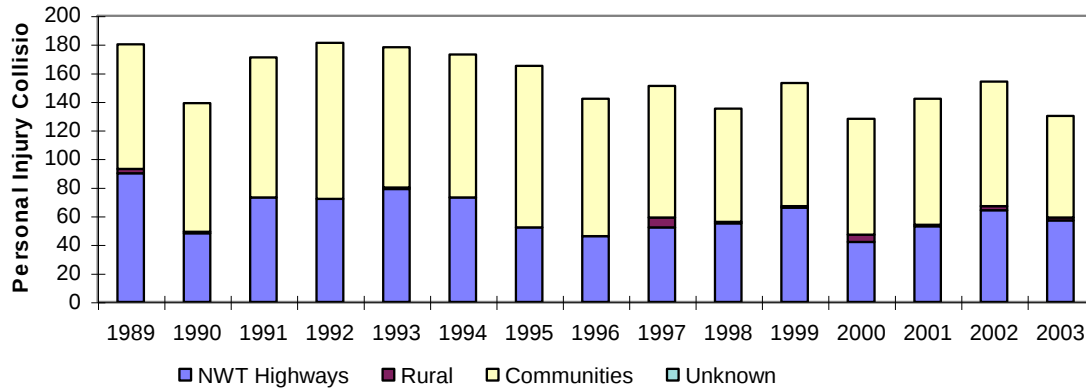


3 Year Summary

	Property Damage Collisions			
	2001	2002	2003	Average
NWT Highways	96	122	115	111
Rural	10	7	13	10
Communities	466	521	558	515
Total	572	650	686	636

Trends in Personal Injury Collisions

Figure 1.5

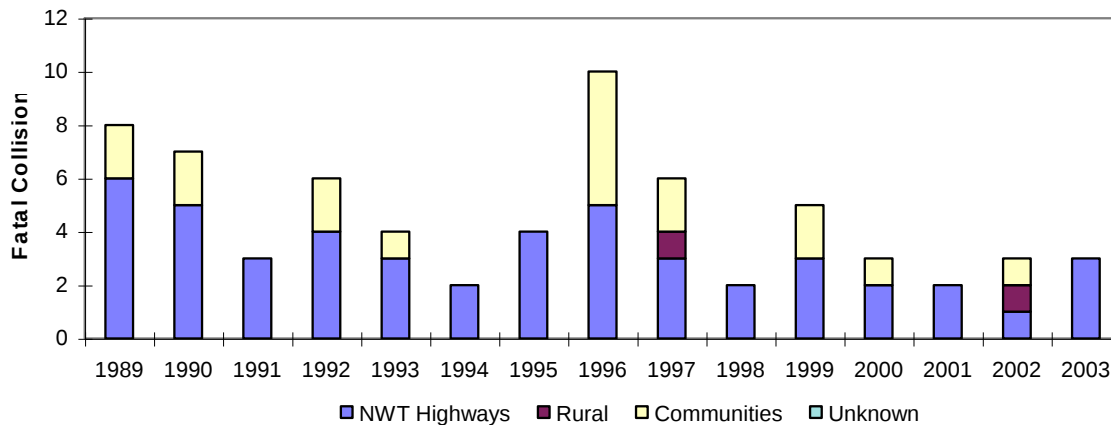


3 Year Summary

Personal Injury Collisions				
	2001	2002	2003	Average
NWT Highways	53	64	57	58
Rural	1	3	2	2
Communities	88	87	71	82
Total	142	154	130	142

Trends in Fatal Collisions

Figure 1.6

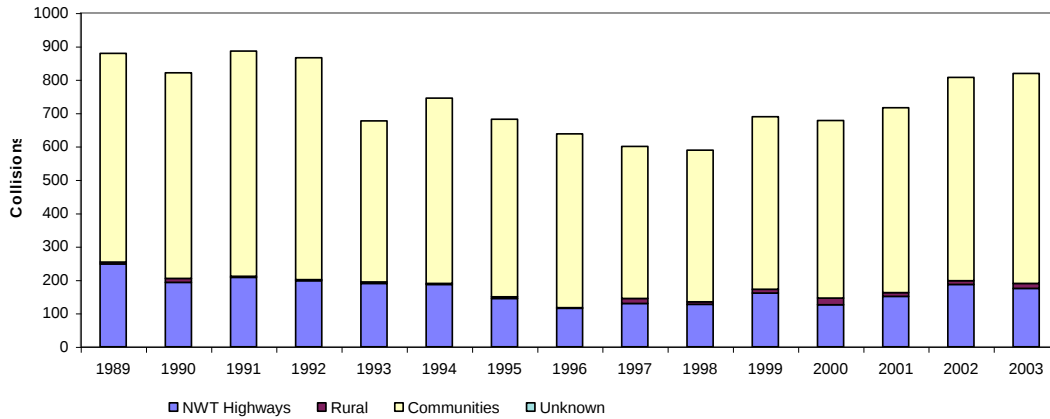


3 Year Summary

Fatal Collisions				
	2001	2002	2003	Average
NWT Highways	2	1	3	2
Rural	0	1	0	0
Communities	0	1	0	0
Total	2	3	3	3

Trends in All Reported Collisions

Figure 1.7



3 Year Summary

	2001	2002	2003	Average
NWT Highways	151	187	175	171
Rural	11	11	15	12
Communities	554	609	629	597
Total	716	807	819	781

Property Damage Collisions by Month and Year

Figure 1.8

Month	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Avg. 93 to 02	2003
January	46	52	50	54	53	64	65	60	50	85	58	91
February	56	72	46	59	45	46	65	49	65	64	57	76
March	52	50	78	56	44	36	47	45	59	64	53	82
April	30	32	32	31	26	22	34	33	35	35	31	47
May	23	33	31	26	23	20	30	34	34	42	30	41
June	23	31	24	32	32	29	30	27	39	41	31	47
July	33	39	38	36	37	34	29	31	22	38	34	38
August	35	42	39	24	37	34	38	36	38	53	38	34
September	39	34	29	29	25	34	36	34	32	40	33	42
October	52	59	38	56	48	39	63	58	65	61	54	47
November	53	73	49	42	26	37	45	53	61	64	50	69
December	53	53	59	41	47	57	49	87	72	63	58	72
Total	495	570	513	486	443	452	531	547	572	650	526	686

Personal Injury Collisions by Month and Year

Figure 1.9

Month	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Avg. 93 to 02	2003
January	16	11	16	15	13	10	15	17	13	11	14	9
February	16	7	14	15	19	10	13	14	14	6	13	25
March	16	9	20	10	16	11	11	9	7	8	12	11
April	13	6	12	7	19	7	9	4	7	5	9	7
May	13	9	11	7	11	4	6	9	8	9	9	10
June	17	18	15	10	6	20	12	9	14	15	14	9
July	24	18	15	16	8	11	22	11	6	19	15	12
August	9	23	18	11	16	14	12	7	16	16	14	11
September	12	14	11	14	10	11	11	9	10	13	12	6
October	16	20	10	15	14	17	20	12	21	22	17	15
November	14	19	12	9	10	8	10	10	10	15	12	7
December	12	19	11	13	9	12	12	17	16	15	14	8
Total	178	173	165	142	151	135	153	128	142	154	152	130

Fatal Collisions by Month and Year

Figure 1.10

Month	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Avg. 93 to 02	2003
January	0	0	0	0	0	0	0	1	1	0	0.2	1
February	0	0	0	0	0	0	0	0	0	1	0.1	0
March	1	0	0	2	2	0	0	0	0	0	0.5	0
April	1	0	1	1	0	0	1	0	1	0	0.5	0
May	0	1	0	1	1	0	0	0	0	0	0.3	0
June	0	0	0	1	1	0	0	0	0	0	0.2	1
July	1	0	1	1	1	0	1	0	0	0	0.5	0
August	0	0	0	3	1	0	1	1	0	0	0.6	0
September	0	0	1	0	0	1	1	0	0	0	0.3	0
October	0	1	0	1	0	1	0	1	0	1	0.5	0
November	1	0	1	0	0	0	0	0	0	1	0.3	0
December	0	0	0	0	0	0	1	0	0	0	0.1	1
Total	4	2	4	10	6	2	5	3	2	3	4.1	3

Total Collisions by Month and Year

Figure 1.11

Month	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Avg. 93 to 02	2003
January	62	63	66	69	66	74	80	78	64	96	72	101
February	72	79	60	74	64	56	78	63	79	71	70	101
March	69	59	98	68	62	47	58	54	66	72	65	93
April	44	38	45	39	45	29	44	37	43	40	40	54
May	36	43	42	34	35	24	36	43	42	51	39	51
June	40	49	39	43	39	49	42	36	53	56	45	57
July	58	57	54	53	46	45	52	42	28	57	49	50
August	44	65	57	38	54	48	51	44	54	69	52	45
September	51	48	41	43	35	46	48	43	42	53	45	48
October	68	80	48	72	62	57	83	71	86	84	71	62
November	68	92	62	51	36	45	55	63	71	80	62	76
December	65	72	70	54	56	69	62	104	88	78	72	81
Total	677	745	682	638	600	589	689	678	716	807	682	819

Time of Occurrence

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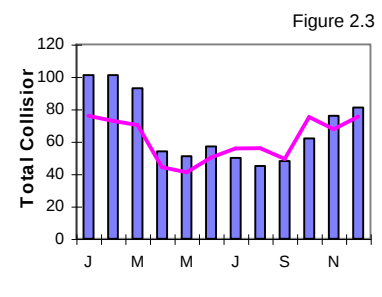
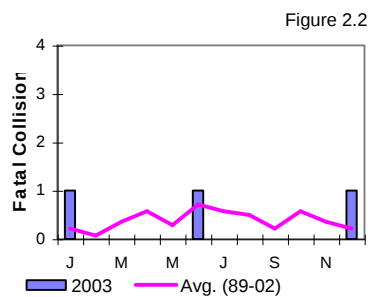
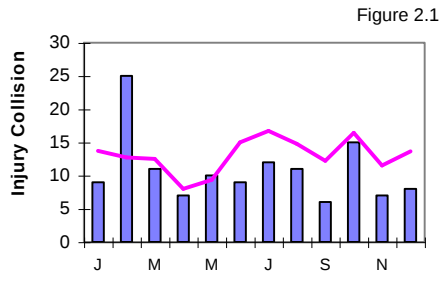
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Time of Occurrence

Figure 2.3 shows the highest number of collisions occurred during the winter months, November to March. Conversely Figure 2.1 shows more injury-producing collisions 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.

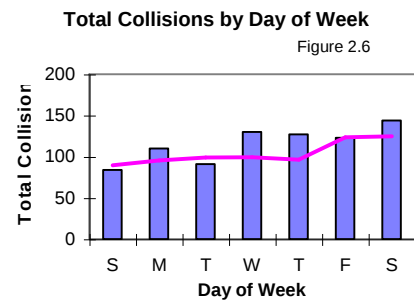
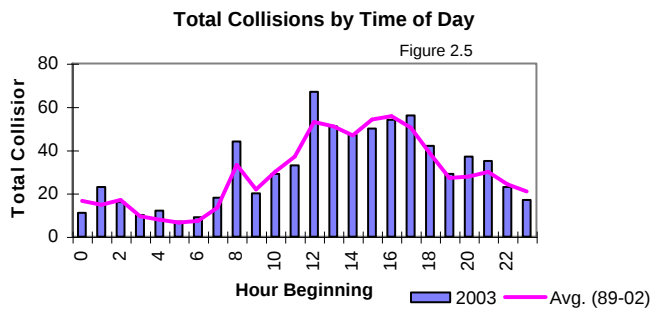
Collisions by Month of Occurrence



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	91	9	1	101	11	1
February	76	25	0	101	31	0
March	82	11	0	93	14	0
April	47	7	0	54	12	0
May	41	10	0	51	14	0
June	47	9	1	57	13	1
July	38	12	0	50	14	0
August	34	11	0	45	16	0
September	42	6	0	48	11	0
October	47	15	0	62	20	0
November	69	7	0	76	7	0
December	72	8	1	81	9	1
Total	686	130	3	819	172	3



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.	1	3	0	1	1	1	4	11	1.4
1 to 2 a.m.	2	4	2	4	2	2	7	23	2.8
2 to 3 a.m.	4	0	1	1	0	5	5	16	2.0
3 to 4 a.m.	2	0	2	0	0	0	6	10	1.2
4 to 5 a.m.	2	1	2	1	0	1	5	12	1.5
5 to 6 a.m.	1	0	1	1	2	0	2	7	0.9
6 to 7 a.m.	1	3	0	1	1	1	2	9	1.1
7 to 8 a.m.	3	4	3	3	2	1	2	18	2.2
8 to 9 a.m.	3	4	5	11	10	8	3	44	5.4
9 to 10 a.m.	2	4	4	2	2	3	3	20	2.5
10 to 11 a.m.	3	3	5	3	5	5	5	29	3.6
11 to 12 a.m.	4	3	1	5	10	6	4	33	4.1
12 to 1 p.m.	4	12	11	9	12	13	6	67	8.3
1 to 2 p.m.	3	7	6	10	6	5	14	51	6.3
2 to 3 p.m.	8	7	3	7	8	7	7	47	5.8
3 to 4 p.m.	7	3	8	10	9	4	9	50	6.2
4 to 5 p.m.	5	10	8	10	8	5	8	54	6.7
5 to 6 p.m.	3	12	6	7	13	9	6	56	6.9
6 to 7 p.m.	6	5	3	8	5	10	5	42	5.2
7 to 8 p.m.	2	5	0	6	6	6	4	29	3.6
8 to 9 p.m.	3	7	1	5	7	4	10	37	4.6
9 to 10 p.m.	5	2	4	2	3	12	7	35	4.3
10 to 11 p.m.	1	4	4	0	7	5	2	23	2.8
11 to 12 p.m.	0	0	3	2	3	4	5	17	2.1
Not Stated	9	7	8	21	5	6	13	69	8.5
Total	84	110	91	130	127	123	144	809	
%	10.4	13.6	11.2	16.1	15.7	15.2	17.8	100.0	

* Excludes collisions in which Day of Week was unknown.

MAJOR CONTRIBUTING FACTORS

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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 can be selected from four categories: human condition, human action, vehicle condition or driving environment. Police officers are encouraged to use their skilled judgement in reporting the likely factors, even if the collision scene was not attended.

Figure 3.6 shows that human condition is nearly three times as prevalent in injury and fatal collisions (20%) than in all collisions (7%). Human factors account for 69% of all factors in collisions, as compared to vehicular (2%) and environmental (4%).

Figure 3.12 points out the difference between collisions occurring in communities and on the NWT Highway system. Environmental factors are more prevalent on NWT Highways (15%) than in communities (1%).

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	1	1	0	2	0.2
Inexperience	0	0	0	0	0.0
Under Influence - Alcohol	27	23	2	52	6.3
Under Influence - Drugs	1	0	0	1	0.1
Sudden Illness, Lost Consciousness	0	1	0	1	0.1
Other Driver Condition	0	0	0	0	0.0
Total	29	25	2	56	6.8

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	37	10	0	47	5.7
Distracted, Inattentive	49	10	1	60	7.3
Driving Too Fast for Conditions	95	17	0	112	13.7
Improper Turning or Passing	9	0	0	9	1.1
Failed to Yield Right-of-Way	44	13	0	57	7.0
Disobeyed Traffic Control/Officer	0	1	0	1	0.1
Driving on Wrong Side of Road	3	0	0	3	0.4
Driving in Wrong Direction	0	0	0	0	0.0
Backing Unsafely	149	6	0	155	18.9
Lost Control	87	33	0	120	14.7
Other Driver Action	0	1	0	1	0.1
Total	473	91	1	565	69.0

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	1	0	1	0.1
Defective Steering	0	0	0	0	0.0
Defective Lights	0	0	0	0	0.0
Tire Blown Out	1	1	0	2	0.2
Unsecured Load, Spilled Load	0	0	0	0	0.0
Oversized Load, Overload	3	0	0	3	0.4
Visibility Obstructed	0	0	0	0	0.0
Other Vehicle Contributing Factor	6	1	0	7	0.9
Total	10	3	0	13	1.6

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	16	2	0	18	2.2
Road Surface or Condition	10	2	0	12	1.5
Obstruction/Debris on Road	2	0	0	2	0.2
View Obstructed, Glare, Reflection	1	2	0	3	0.4
Weather or Other Acts of God	0	0	0	0	0.0
Other Environmental Factor	0	0	0	0	0.0
Total	29	6	0	35	4.3

Collisions by Severity Where Major Contributing Factor was Unspecified or Unknown

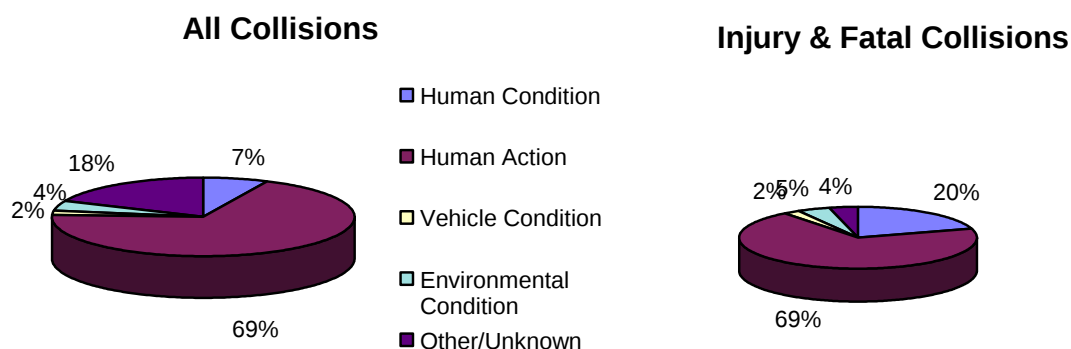
Figure 3.5

Factor	Property Damage	Personal Injury	Fatal	% of Total	
				Total	Factors
Unspecified	3	2	0	5	0.6
Unknown	142	3	0	145	17.7
Total	145	5	0	150	18.3

Total All Factors	686	130	3	819	100.0
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Major Contributing Factors by Collision Severity

Figure 3.6



TAIS 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.

Major Contributing Factors – Section 3

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

Figure 3.7

Human Condition	NWT Highways	In Communities	Rural	% of Total	
				Total	Factors
Fatigued, Fell Asleep	2	0	0	2	0.2
Inexperience	0	0	0	0	0.0
Under Influence - Alcohol	16	36	0	52	6.3
Under Influence - Drugs	0	1	0	1	0.1
Sudden Illness, Lost Consciousness	0	1	0	1	0.1
Other Driver Condition	0	0	0	0	0.0
Total	18	38	0	56	6.8

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

Figure 3.8

Human Action	NWT Highways	In Communities	Rural	% of Total	
				Total	Factors
Following Too Closely	3	44	0	47	5.7
Distracted, Inattentive	8	51	1	60	7.3
Driving Too Fast for Conditions	31	75	6	112	13.7
Improper Turning or Passing	0	9	0	9	1.1
Failed to Yield Right-of-Way	2	55	0	57	7.0
Disobeyed Traffic Control/Officer	0	1	0	1	0.1
Driving on Wrong Side of Road	1	2	0	3	0.4
Driving in Wrong Direction	0	0	0	0	0.0
Backing Unsafely	5	150	0	155	18.9
Lost Control	67	50	3	120	14.7
Other Driver Action	0	1	0	1	0.1
Total	117	438	10	565	69.0

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

Figure 3.9

Vehicle Condition	NWT Highways	In Communities	Rural	% of Total	
				Total	Factors
Defective Brakes	1	0	0	1	0.1
Defective Steering	0	0	0	0	0.0
Defective Lights	0	0	0	0	0.0
Tire Blown Out	2	0	0	2	0.2
Unsecured Load, Spilled Load	0	0	0	0	0.0
Oversized Load, Overload	2	1	0	3	0.4
Visibility Obstructed	0	0	0	0	0.0
Other Vehicle Contributing Factor	3	4	0	7	0.9
Total	8	5	0	13	1.6

Major Contributing Factors – Section 3

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

Figure 3.10

Environmental Condition	NWT Highways	In Communities	Rural	% of Total	
				Total	Factors
Animal on Roadway	18	0	0	18	2.2
Road Surface or Condition	6	5	1	12	1.5
Obstruction/Debris on Road	2	0	0	2	0.2
View Obstructed, Glare, Reflection	1	2	0	3	0.4
Weather or Other Acts of God	0	0	0	0	0.0
Other Environmental Factor	0	0	0	0	0.0
Total	27	7	1	35	4.3

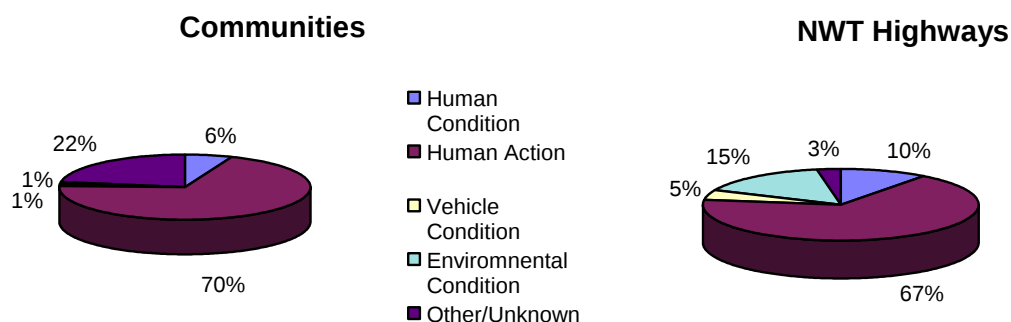
Collisions by Road System Where Major Contributing Factor was Unspecified or Unknown

Figure 3.11

Factor	NWT Highways	In Communities	Rural	% of Total	
				Total	Factors
Unspecified	0	5	0	5	0.6
Unknown	5	136	4	145	17.7
Total	5	141	4	150	18.3
Total All Factors	175	629	15	819	100.0

Major Contributing Factors in Collisions - Communities and NWT Highways

Figure 3.12



Environmental Factors

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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. This section of the report provides a breakdown of collisions for each of the different driving environments by severity and road system.

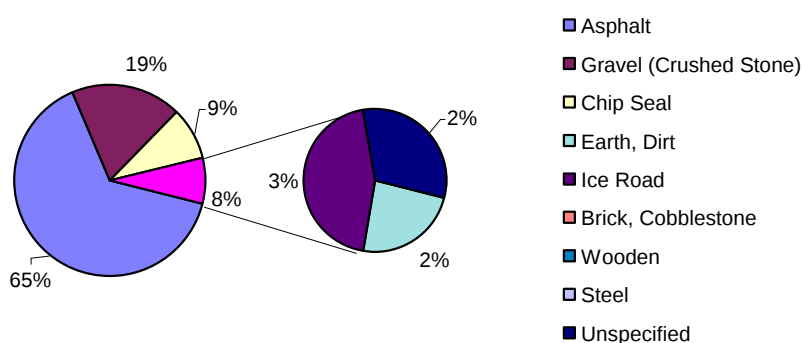
Figures 4.1 to 4.5 show that most collisions occur under favourable conditions, such as clear weather, daylight and on a road surface that is free of defects. Figure 4.9 shows that intersection related collisions are far more frequent in communities than in rural areas or on the NWT Highway system.

Figures 4.6 and 4.7 provide a breakdown on the types of collisions that occur for both single and multiple vehicle configurations. Figures 4.12 and 4.13 describe some of the events that occur in collisions, such as hitting a fixed or moveable object, overturning and jack-knifing.

Collisions by Road Surface Type and Severity

Figure 4.1

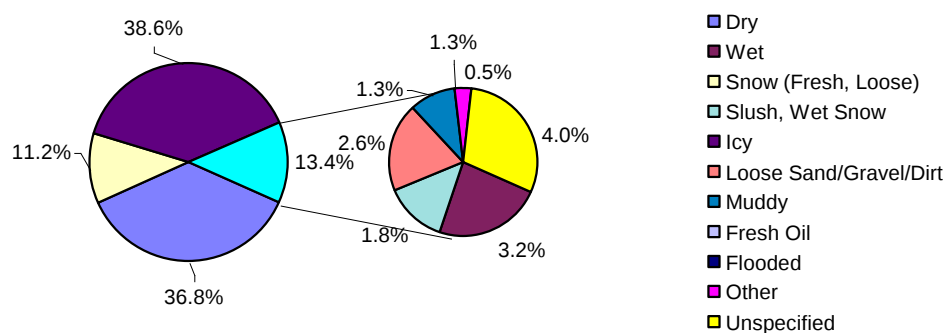
Road Surface Type	Property Damage	Personal Injury	Fatal	Total	%
Asphalt	467	59	1	527	64.3
Concrete	2	2	0	4	0.5
Gravel (Crushed Stone)	121	32	0	153	18.7
Earth, Dirt	12	3	0	15	1.8
Chip Seal	45	26	1	72	8.8
Brick, Cobblestone	0	0	0	0	0.0
Wooden	0	0	0	0	0.0
Steel	0	0	0	0	0.0
Ice Road	19	8	1	28	3.4
Unspecified	20	0	0	20	2.4
Total	686	130	3	819	100.0



Collisions by Road Surface Environmental Condition and Severity

Figure 4.2

Surface Condition	Property Damage	Personal Injury	Fatal	Total	%
Dry	252	49	0	301	36.8
Wet	22	3	1	26	3.2
Snow (Fresh, Loose)	78	13	1	92	11.2
Slush, Wet Snow	11	4	0	15	1.8
Icy	266	49	1	316	38.6
Loose Sand/Gravel/Dirt	16	5	0	21	2.6
Muddy	7	4	0	11	1.3
Fresh Oil	0	0	0	0	0.0
Flooded	0	0	0	0	0.0
Other	3	1	0	4	0.5
Unspecified	31	2	0	33	4.0
Total	686	130	3	819	100

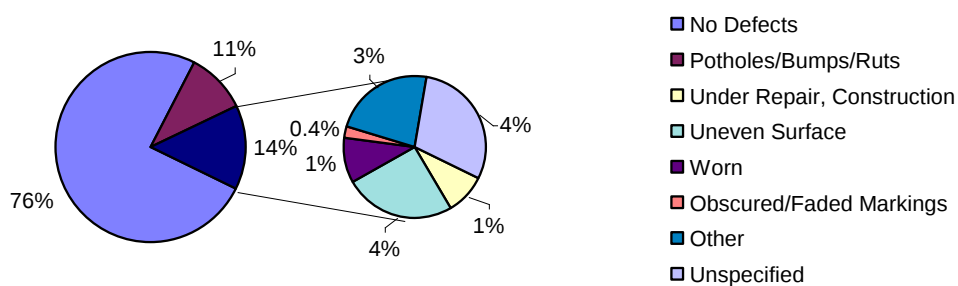


Environmental Factors – Section 4

Collisions by Road Defect and Severity

Figure 4.3

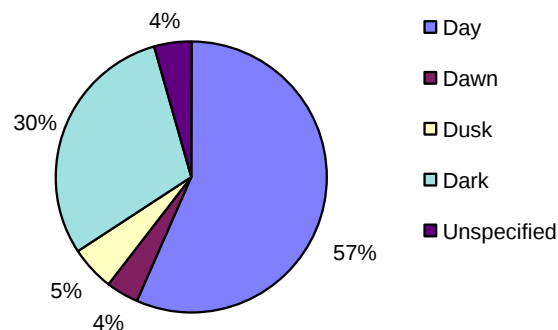
Road Defect	Property Damage	Personal Injury	Fatal	Total	%
No Defects	514	100	2	616	75.2
Potholes/Bumps/Ruts	67	17	1	85	10.4
Under Repair, Construction	9	2	0	11	1.3
Uneven Pavement Surface	27	3	0	30	3.7
Worn	11	1	0	12	1.5
Obscured or Faded Markings	3	0	0	3	0.4
Other	22	5	0	27	3.3
Unspecified	33	2	0	35	4.3
Total	686	130	3	819	100.0



Collisions by Light Condition and Severity

Figure 4.4

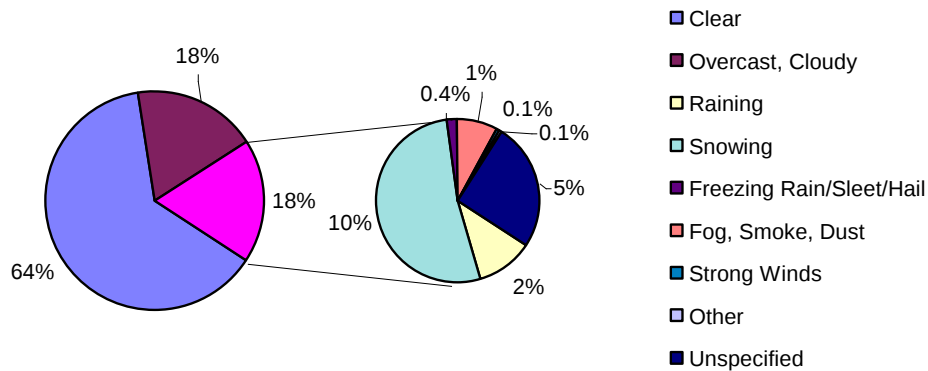
Light Condition	Property Damage	Personal Injury	Fatal	Total	%
Day	387	77	1	465	56.8
Dawn	25	6	0	31	3.8
Dusk	35	9	0	44	5.4
Dark	204	37	2	243	29.7
Unspecified	35	1	0	36	4.4
Total	686	130	3	819	100.0



Collisions by Weather Condition and Severity

Figure 4.5

Weather Condition	Property Damage	Personal Injury	Fatal	Total	%
Clear (Sunny)	439	78	2	519	63.4
Overcast, Cloudy (No Precipitation)	120	29	0	149	18.2
Raining	12	4	1	17	2.1
Snowing	68	11	0	79	9.6
Freezing Rain/Sleet/Hail	1	2	0	3	0.4
Visibility Limitations (fog, dust, etc.)	9	3	0	12	1.5
Strong Winds	1	0	0	1	0.1
Other	1	0	0	1	0.1
Unspecified	35	3	0	38	4.6
Total	686	130	3	819	100.0



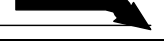
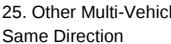
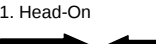
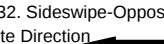
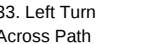
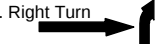
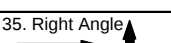
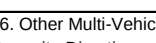
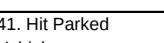
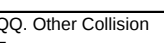
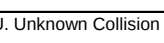
Environmental Factors – Section 4

Collisions by Configuration and Severity

Figure 4.6

Configuration*	Property Damage	Personal Injury	Fatal	Total	% of Total
01. Hit Moving Object					
a) With Animal	16	2	0	18	2.2
b) With Pedestrian	2	12	0	14	1.7
c) Other	0	2	0	2	0.2
02. Hit Stationary Object	61	6	0	67	8.2
03. Off Road Left					
a) With Rollover	16	21	0	37	4.5
b) No Rollover	10	6	1	17	2.1
04. Off Road Right					
a) With Rollover	22	16	1	39	4.8
b) No Rollover	21	5	0	26	3.2
05. Rollover on Roadway	8	8	0	16	2.0
06. Other Single Vehicle	4	1	0	5	0.6
21. Rear End	110	17	0	127	15.5
22. Sideswipe - Same Direction	9	3	0	12	1.5
23. Passing - Left Turn	0	0	0	0	0.0
24. Passing - Right Turn	6	0	0	6	0.7
25. Other Multi-Vehicle Same Direction	0	1	0	1	0.1
31. Head-On	14	3	0	17	2.1
32. Sideswipe - Opposite Direction	17	3	0	20	2.4
33. Left Turn Across Path	13	4	0	17	2.1
34. Right Turn Including Conflict	7	0	0	7	0.9
35. Right Angle	87	14	0	101	12.3
36. Other Multi-Vehicle Opposite Direction	19	0	0	19	2.3
41. Hit Parked Vehicle	243	6	1	250	30.5
QQ. Other Collision Type	0	0	0	0	0.0
UU. Unknown Collision Type	1	0	0	1	0.1
Total	686	130	3	819	100.0

*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 

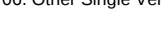
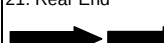
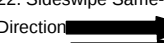
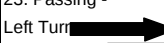
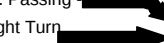
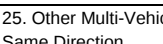
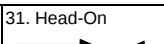
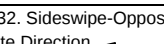
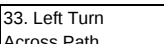
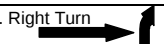
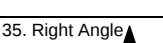
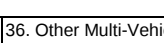
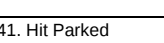
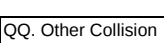
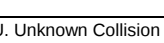
Environmental Factors – Section 4

Collisions by Configuration and Road System

Figure 4.7

Configuration*	NWT Highways	In Communities	Rural	Total	% of Total
01. Hit Moving Object					
a) With Animal	18	0	0	18	2.2
b) With Pedestrian	0	14	0	14	1.7
c) Other	1	1	0	2	0.2
02. Hit Stationary Object	8	58	1	67	8.2
03. Off Road Left					
a) With Rollover	33	4	0	37	4.5
b) No Rollover	11	5	1	17	2.1
04. Off Road Right					
a) With Rollover	35	3	1	39	4.8
b) No Rollover	22	4	0	26	3.2
05. Rollover on Roadway	14	1	1	16	2.0
06. Other Single Vehicle	3	2	0	5	0.6
21. Rear End	9	116	2	127	15.5
22. Sideswipe - Same Direction	1	11	0	12	1.5
23. Passing - Left Turn	0	0	0	0	0.0
24. Passing - Right Turn	0	6	0	6	0.7
25. Other Multi-Vehicle Same Direction	0	0	1	1	0.1
31. Head-On	1	15	1	17	2.1
32. Sideswipe - Opposite Direction	7	10	3	20	2.4
33. Left Turn Across Path	3	14	0	17	2.1
34. Right Turn Including Conflict	0	7	0	7	0.9
35. Right Angle	3	98	0	101	12.3
36. Other Multi-Vehicle Opposite Direction	0	19	0	19	2.3
41. Hit Parked Vehicle	6	241	3	250	30.5
QQ. Other Collision Type	0	0	0	0	0.0
UU. Unknown Collision Type	0	0	1	1	0.1
Total	175	629	15	819	100.0

*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 Collision Site and Severity

Figure 4.8

Collision Site	Property Damage	Personal Injury	Fatal	Total	%
Non-Intersection	244	80	3	327	39.9
Intersection - Two Public Roadways	151	27	0	178	21.7
Intersection - Parking Lot, Driveway	127	16	0	143	17.5
Railroad Level Crossing	0	1	0	1	0.1
Bridge, Overpass, Viaduct	0	1	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	153	5	0	158	19.3
Unknown	11	0	0	11	1.3
Total	686	130	3	819	100.0

Collisions by Collision Site and Road System

Figure 4.9

Collision Site	NWT Highways	In Communities	Rural	Total	%
Non-Intersection	154	163	10	327	39.9
Intersection - Two Public Roadways	16	161	1	178	21.7
Intersection - Parking Lot, Driveway	3	139	1	143	17.5
Railroad Level Crossing	0	1	0	1	0.1
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	154	3	158	19.3
Unknown	0	11	0	11	1.3
Total	175	629	15	819	100.0

Collisions by Roadway Alignment and Severity

Figure 4.10

Road Alignment	Property Damage	Personal Injury	Fatal	Total	%
Straight & Level	505	79	2	586	71.6
Straight with Grade	58	17	1	76	9.3
Curved and Level	54	19	0	73	8.9
Curve with Grade	23	7	0	30	3.7
Top of Hill or Grade	8	3	0	11	1.3
Bottom of Hill or Grade	10	4	0	14	1.7
Other	5	1	0	6	0.7
Unknown	23	0	0	23	2.8
Total	686	130	3	819	100.0

Environmental Factors – Section 4

Collisions by Roadway Type and Severity

Figure 4.11

Road Type	Property Damage	Personal Injury	Fatal	Total	%
One-Way, Two Lane	4	2	0	6	0.7
One-Way, Multi Lane	0	0	0	0	0.0
Undivided, Two-Way, Two Lane	398	105	3	506	61.8
Undivided, Two-Way, Multi Lane	37	11	0	48	5.9
Divided, Barrier Median	0	0	0	0	0.0
Divided with Median, No Barrier	38	5	0	43	5.3
Divided, Divider Unspecified	0	0	0	0	0.0
Other	196	7	0	203	24.8
Unknown	13	0	0	13	1.6
Total	686	130	3	819	100.0

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	3	0	0	3	0.4
Hit Building	3	0	0	3	0.4
Hit Ditch	0	0	0	0	0.0
Hit Embankment, Dirt Pile, Rock	0	0	0	0	0.0
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	5	0	0	5	0.6
Hit Curb	1	1	0	2	0.2
Hit Post	6	0	0	6	0.7
Hit Traffic Barrier	1	0	0	1	0.1
Hit Fixed Object Part of Road Structure	0	0	0	0	0.0
Hit Fixed Object NOT Part of Road Structure	4	2	0	6	0.7
Hit Other Type Fixed Object	1	0	0	1	0.1
Sub Total Fixed Objects	24	3	0	27	3.3
Moveable Objects					
Another Road Vehicle	525	51	1	577	70.5
Animal	16	2	0	18	2.2
Pedestrian	2	12	0	14	1.7
Other Moveable Object	0	2	0	2	0.2
Sub Total Moveable Objects	543	67	1	611	74.6
Non-Collision Events					
Ran Off Road	31	6	0	37	4.5
Rollover	46	45	1	92	11.2
Jack Knife or Trailer Swing	1	0	0	1	0.1
Fire or Explosion	0	0	0	0	0.0
Load Spill	1	0	0	1	0.1
Load Shift	0	0	0	0	0.0
Submersion	0	0	0	0	0.0
Other Non-Collision Event	0	0	0	0	0.0
Sub Total Non-Collision Events	79	51	1	131	16.0
Other/Unknown Event	40	9	1	50	6.1
Grand Total	686	130	3	819	100.0

Collision Sequence of Events by Road System

Figure 4.13

	NWT Highways	In Communities	Rural	Total	%
Non-Moving Objects					
Hit Parked Trailer	0	0	0	0	0.0
Hit Non-Fixed Object	1	2	0	3	0.4
Hit Building	0	3	0	3	0.4
Hit Ditch	0	0	0	0	0.0
Hit Embankment, Dirt Pile, Rock	0	0	0	0	0.0
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	5	0	5	0.6
Hit Curb	0	2	0	2	0.2
Hit Post	1	5	0	6	0.7
Hit Traffic Barrier	0	1	0	1	0.1
Hit Fixed Object Part of Road Structure	0	0	0	0	0.0
Hit Fixed Object NOT Part of Road Structure	1	5	0	6	0.7
Hit Other Type Fixed Object	0	1	0	1	0.1
Sub Total Fixed Objects	3	24	0	27	3.3
Moveable Objects					
Another Road Vehicle	30	537	10	577	70.5
Animal	18	0	0	18	2.2
Pedestrian	0	14	0	14	1.7
Other Moveable Object	1	1	0	2	0.2
Sub Total Moveable Objects	49	552	10	611	74.6
Non-Collision Events					
Ran Off Road	16	3	0	19	2.3
Rollover	82	8	2	92	11.2
Jack Knife or Trailer Swing	1	0	0	1	0.1
Fire or Explosion	0	0	0	0	0.0
Load Spill	1	0	0	1	0.1
Load Shift	0	0	0	0	0.0
Submersion	0	0	0	0	0.0
Other Non-Collision Event	0	0	0	0	0.0
Sub Total Non-Collision Events	100	11	2	113	13.8
Unknown Event	23	42	3	68	8.3
Grand Total	175	629	15	819	100.0

Driver Factors

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Driver Factors

This section describes the characteristics of drivers involved in collisions. In 2003, 1,184 drivers were involved in 819 collisions. This is an average of 1.45 drivers per collision. Details on driver age, gender, condition, action and class of licence is presented.

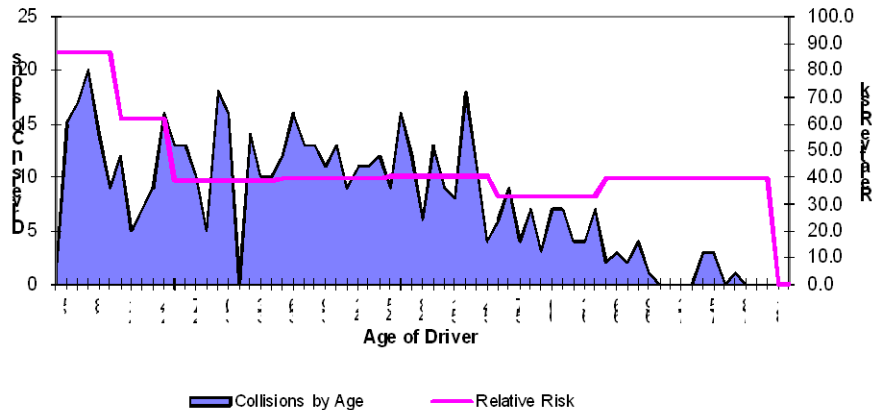
Of particular interest and concern is the over-representation of young drivers in collisions. Drivers aged 15 to 20 years are 2.0 times as likely to be involved in a collision than drivers aged 35 to 44 years. Crash statistics involving young or inexperienced drivers are useful for developing graduated licensing programs.

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	119	1,269	2,380	5,812	6,302	5,144	2,304	710	0	24,040
Drivers in Collisions	9	111	147	225	249	208	76	28	131	1,184

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	65.6	46.2	33.7	33.2	35.6	26.0	32.4	41.6
Personal Injury & Fatal	20.9	15.5	5.0	6.3	4.9	6.9	7.0	7.7
Total	86.5	61.8	38.7	39.5	40.4	33.0	39.4	49.3
Relative Risk*	1.8	1.3	0.8	0.8	0.8	0.7	0.8	1.0

* 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 1.8 times more likely to be involved in a collision than the average driving population. On average, 9% of 15 to 19 year olds were involved in collisions, compared to 4% 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	0	5	4	0	9
16	0	0	0	0	22	0	2	1	1	1	27
17	0	0	0	0	26	0	0	0	3	0	29
18	0	0	0	0	33	0	3	1	1	0	38
19	0	0	0	0	13	0	2	0	2	0	17
20	3	0	0	1	19	0	1	2	0	0	26
21-24	3	1	1	2	97	0	4	6	7	0	121
25-34	15	1	4	14	179	0	2	1	7	2	225
35-44	32	2	9	28	173	0	0	4	1	0	249
45-54	27	2	7	16	149	0	1	3	2	1	208
55-64	11	3	1	9	50	0	0	1	0	1	76
65 and over	2	0	1	1	23	0	0	1	0	0	28
Not Stated	0	0	0	0	0	0	0	3	0	128	131
Drivers in Collisions	93	9	23	71	784	0	15	28	28	133	1,184
Total Licensed Drivers	1,308	199	680	1,105	19,229	1	1,518	N/A	N/A	N/A	24,040
Relative Risk*	1.44	0.92	0.69	1.30	0.83	0.00	0.20	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	1	17	23	28	15	18	93	188	226	192	67	28	4	900	76.0
Fatigued, Fell Asleep	0	0	0	0	0	0	1	4	0	2	0	0	0	7	0.6
Inexperience	5	4	5	8	0	3	7	7	1	1	0	0	0	41	3.5
Under Influence - Alcohol	1	2	0	0	2	2	10	16	11	7	2	0	2	55	4.6
Under Influence - Drugs	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.1
Sudden Illness, Lost Consciousness	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0.1
Other Condition	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.1
Unknown	2	4	1	2	0	2	9	9	11	6	7	0	125	178	15.0
Total	9	27	29	38	17	26	121	225	249	208	76	28	131	1,184	
%	0.8	2.3	2.4	3.2	1.4	2.2	10.2	19.0	21.0	17.6	6.4	2.4	11.1		100.0

Number of Drivers Involved in Collisions by Driver Action and Age

Figure 5.5

Driver Action														Not		Total	%
	< 16	16	17	18	19	20	21-24	25-34	35-44	45-54	55-64	65+	Stated				
Driving Properly	0	1	10	10	5	4	32	72	86	73	24	15	3	335	28.3		
Following Too Closely	0	2	2	3	0	1	8	11	9	7	4	0	0	47	4.0		
Distracted, Inattentive	0	5	3	2	2	2	4	11	19	12	4	1	0	65	5.5		
Driving Too Fast	2	4	3	7	3	4	27	31	33	20	7	0	2	143	12.1		
Improper Turning or Passing	0	1	0	0	0	1	1	2	3	2	0	0	0	10	0.8		
Failing to Yield Right of Way	3	2	3	3	0	0	3	11	16	12	2	3	0	58	4.9		
Disobeying Traffic Control/Officer	1	0	0	0	0	0	0	0	1	0	0	0	0	2	0.2		
Driving on Wrong Side of Road	0	0	0	0	1	1	1	2	0	1	1	0	0	7	0.6		
Driving in Wrong Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
Backing Unsafely	0	3	2	4	2	4	16	34	33	40	14	7	10	169	14.3		
Lost Control	2	3	2	6	2	7	22	34	25	23	9	1	3	139	11.7		
Other Driver Action	0	0	0	0	0	0	1	1	3	1	0	0	0	6	0.5		
Unknown	1	6	4	3	2	2	6	16	21	17	11	1	113	203	17.1		
Total	9	27	29	38	17	26	121	225	249	208	76	28	131	1,184			
%	0.8	2.3	2.4	3.2	1.4	2.2	10.2	19.0	21.0	17.6	6.4	2.4	11.1	100.0			

Vehicle Factors

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Vehicle Factors

There were a total of 1,423 vehicles involved in 819 collisions in 2003. This is an average of 1.74 vehicles per collision. This section provides details on the different vehicle types involved in collisions.

While TCIS gives a fairly accurate account of the different types of vehicles involved in collisions, it is difficult to compare the relative involvement rate. For example, a highway transport truck, on average, travels 10 times more distance in a year than a passenger car. It is, therefore, necessary to determine the exposure of different types of vehicles. Obtaining accurate and useful information about the travel patterns and distances of different vehicles is a major challenge.

Number of Vehicles in Collisions by Vehicle Type and Severity

Figure 6.1

Vehicle Type	Property Damage	Personal Injury	Fatal	Total	%
Passenger Car	374	47	0	421	29.6
Passenger Van	113	16	1	130	9.1
Light Utility Vehicle	137	23	1	161	11.3
Pickup Truck	410	62	0	472	33.2
Panel/Cargo Van	35	4	0	39	2.7
Other Truck/Van <= 4536 kg	6	2	0	8	0.6
Unit Truck > 4536 kg	8	3	0	11	0.8
Road Tractor	27	8	0	35	2.5
School Bus	1	0	0	1	0.1
Small School Bus	0	0	0	0	0.0
Urban Transit Bus	0	1	0	1	0.1
Intercity Bus	2	0	0	2	0.1
Bus - Unspecified	0	0	0	0	0.0
Motorcycle	0	2	0	2	0.1
Limited Speed Motorcycle	0	0	0	0	0.0
Off Road Vehicles (ATV)	0	0	0	0	0.0
Bicycle	1	5	0	6	0.4
Motor Home	2	0	0	2	0.1
Farm Equipment	0	0	0	0	0.0
Construction Equipment	4	3	1	8	0.6
Fire Engine	0	0	0	0	0.0
Snowmobile	11	10	1	22	1.5
Streetcar	0	0	0	0	0.0
Other	0	0	0	0	0.0
Unknown	102	0	0	102	7.2
Total	1233	186	4	1423	100.0

Number of Vehicles in Collisions by Vehicle Condition and Severity

Figure 6.2

Vehicle Condition	Property Damage	Personal Injury	Fatal	Total	%
No Apparent Defect	1045	161	2	1208	84.9
Defective Brakes	4	5	0	9	0.6
Defective Steering	1	0	0	1	0.1
Defective Lighting	4	0	0	4	0.3
Tire Blown Out	1	2	0	3	0.2
Unsecured Load, Spilled Load	2	0	0	2	0.1
Oversized Load, Overload	3	0	0	3	0.2
Visibility Obstructed	12	2	0	14	1.0
Other Defective Vehicular Parts	10	1	0	11	0.8
Other Vehicular Factor	1	0	0	1	0.1
Unknown	150	15	2	167	11.7
Total	1233	186	4	1423	100.0

Number of Vehicles in Collisions by Vehicle Manoeuvre and Severity

Figure 6.3

Vehicle Manoeuvre	Property Damage	Personal Injury	Fatal	Total	%
Going Straight Ahead	350	105	3	458	32.2
Turning Left	61	9	0	70	4.9
Turning Right	47	4	0	51	3.6
Making U-Turn	2	2	0	4	0.3
Changing Lanes	4	1	0	5	0.4
Merging	8	0	0	8	0.6
Reversing	173	6	0	179	12.6
Overtaking	2	1	0	3	0.2
Negotiating Curve	56	21	0	77	5.4
Slowing or Stopped in Traffic	152	26	0	178	12.5
Starting in Traffic	5	1	0	6	0.4
Leaving Roadside	2	0	0	2	0.1
Stopped/Parked Legally	238	7	1	246	17.3
Stopped/Parked Illegally	13	0	0	13	0.9
Swerving to Avoid Collision	6	1	0	7	0.5
Run-away or Roll-away Vehicle	5	0	0	5	0.4
Unspecified Manoeuvre	1	0	0	1	0.1
Other	0	0	0	0	0.0
Unknown	108	2	0	110	7.7
Total	1233	186	4	1423	100.0

Number of Vehicles in Collisions by Vehicle Year and Severity

Figure 6.4

Model Year	Property Damage	Personal Injury	Fatal	Total	%
2004	4	1	0	5	0.4
2003	123	23	0	146	10.3
2002	154	17	1	172	12.1
2001	118	19	0	137	9.6
2000	102	18	0	120	8.4
1999	87	10	1	98	6.9
1998	59	9	1	69	4.8
1997	57	12	1	70	4.9
1996	53	11	0	64	4.5
1995	48	3	0	51	3.6
1994	40	9	0	49	3.4
1993	38	6	0	44	3.1
1992 & Older	231	37	0	268	18.8
Unspecified	119	11	0	130	9.1
Total	1233	186	4	1423	100.0

Victims and Occupant Restraints

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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.

Figures 7.6, 7.7 and 7.8 show the relationships 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 6% of victims wearing seat belts were injured. On the other hand, 33% 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, less than 35% of children are restrained. It is 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.

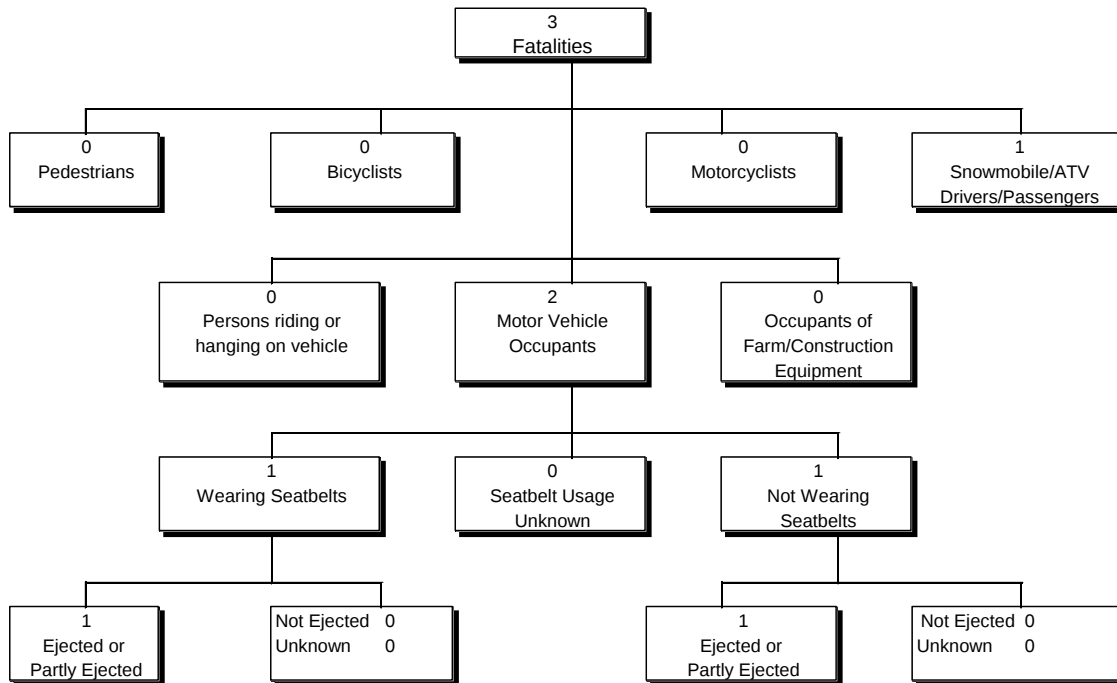
To combat the problem of child restraint misuse-use, child car seat inspection clinics are carried out by the Hay River, Inuvik and Yellowknife Fire Departments. The Car Seat Instructors Program is available to increase the number of qualified persons to conduct inspections at clinics and at occupant restraint checkstops.

For more information on the Car Seat Instructors Program, please call the Department of Transportation, Road Licensing and Safety Division at (867) 873-7406.

Victims and Occupant Restraints – Section 7

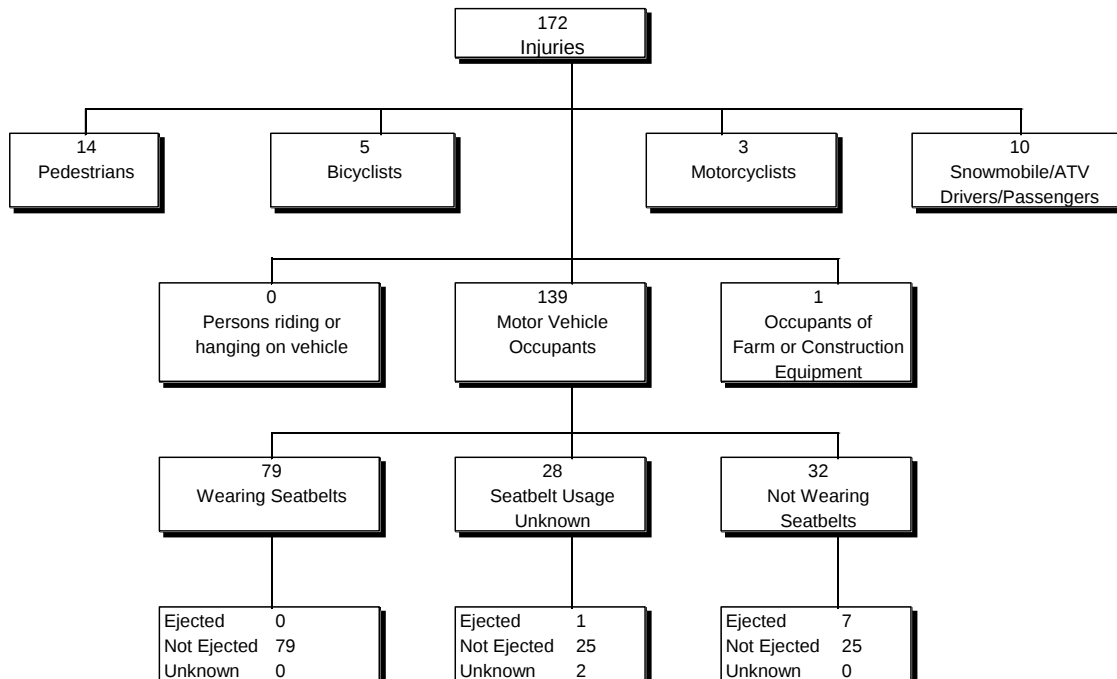
Fatalities Classification
(January 1 to December 31, 2003)

Figure 7.1



Injuries Classification
(January 1 to December 31, 2003)

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	2	7	19	20	19	11	5	1	0	84	48.8
Motor Vehicle Passenger	1	3	9	13	8	4	5	1	0	11	55	32.0
Pedestrian	2	3	1	2	2	1	0	0	2	1	14	8.1
Bicyclist	0	3	1	0	0	0	0	0	1	0	5	2.9
Motorcyclist (includes passengers)	0	0	0	2	0	0	1	0	0	0	3	1.7
ATV Operators & Passengers	0	0	0	0	0	0	0	0	0	0	0	0.0
Snowmobile Operators & Passengers	0	0	4	3	0	1	1	1	0	0	10	5.8
Farm/Construction Equipment	0	0	0	0	1	0	0	0	0	0	1	0.6
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
Total	3	11	22	39	31	25	18	7	4	12	172	100.0

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	0	0	1	0	0	0	0	1	33.3
Motor Vehicle Passenger	0	0	0	0	0	0	0	1	0	0	1	33.3
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	0	0	0	0	0	0	0	0.0
Snowmobile Operators & Passengers	0	0	0	0	0	1	0	0	0	0	1	33.3
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
Total	0	0	0	0	0	2	0	1	0	0	3	100.0

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	51	33	0	84	1	0	0	1
Motor Vehicle Passenger	32	23	0	55	0	1	0	1
Pedestrian	6	8	0	14	0	0	0	0
Bicyclist	4	1	0	5	0	0	0	0
Motorcyclist (includes passengers)	2	1	0	3	0	0	0	0
ATV Operators & Passengers	0	0	0	0	0	0	0	0
Snowmobile Operators & Passengers	10	0	0	10	1	0	0	1
Farm/Construction Equipment	1	0	0	1	0	0	0	0
Other	0	0	0	0	0	0	0	0
Unspecified	0	0	0	0	0	0	0	0
Total	106	66	0	172	2	1	0	3

Victims and Occupant Restraints – Section 7

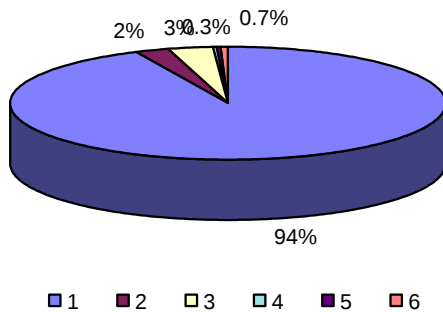
Motor Vehicle* Occupants by Injury Severity and Restraint Use

Figure 7.6

Injury Severity	Not Restrained	Lap Belt Only	Lap & Torso Belt	Child Restraint Device	Restraint Use Unknown	Total	%
Not Injured	67	38	1042	29	449	1625	92.0
Minimal Injuries	13	4	25	0	10	52	2.9
Minor Injuries	13	0	39	0	12	64	3.6
Major (Hospital Admission)	3	0	4	0	4	11	0.6
Fatal	1	0	1	0	0	2	0.1
Injured - Extent Unknown	3	0	8	0	2	13	0.7
Total	100	42	1119	29	477	1767	100.0

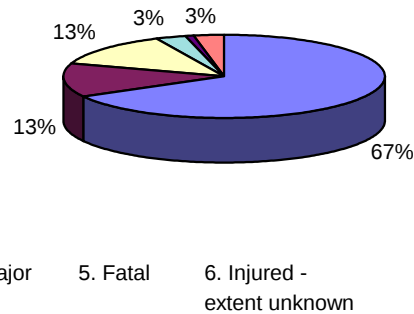
* Excludes occupants of motorcycles, mopeds, snowmobiles, all-terrain vehicles, and farm/construction equipment

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
Injury Severity											
Not Injured	36	68	165	117	194	203	176	58	28	64	1109
Minimal Injuries	0	2	0	5	5	7	4	3	1	2	29
Minor Injuries	0	0	9	6	7	11	5	0	0	1	39
Major (Hospital Admission)	0	0	0	1	1	0	0	1	0	1	4
Fatal	0	0	0	0	0	0	0	1	0	0	1
Injured - Extent Unknown	0	1	0	0	2	1	2	1	0	1	8
Total	36	71	174	129	209	222	187	64	29	69	1190

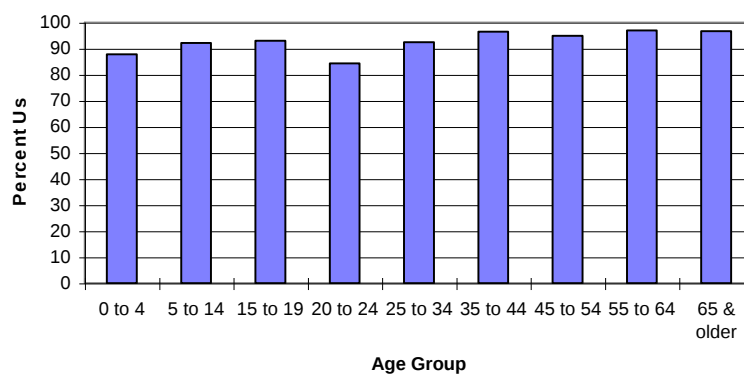
Restraints Not Used

	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
Injury Severity											
Not Injured	4	4	10	14	13	5	6	1	1	9	67
Minimal Injuries	0	0	0	6	3	0	1	0	0	3	13
Minor Injuries	1	2	2	2	0	2	2	1	0	1	13
Major (Hospital Admission)	0	0	0	1	1	0	1	0	0	0	3
Fatal	0	0	0	0	0	1	0	0	0	0	1
Injured - Extent Unknown	0	0	1	1	0	0	0	0	0	1	3
Total	5	6	13	24	17	8	10	2	1	14	100

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

Victim Restraint Use Rate by Victim Age

Figure 7.9



Pedestrians

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Pedestrians

2003 Quick Facts on Pedestrian Collisions

- 14 injured
- none killed
- 36% of the pedestrians injured were under the age of 15
- All pedestrians were injured within a community
- 14% of pedestrians had been drinking or were impaired by alcohol

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	2	3	1	2	2	1	0	0	2	1	14	100.0
Killed	0	0	0	0	0	0	0	0	0	0	0	0.0
Total	2	3	1	2	2	1	0	0	2	1	14	
%	14.3	21.4	7.1	14.3	14.3	7.1	0.0	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	1	1	0	0	0	0	2	14.3
Crossing Intersection With Traffic Control, Without Right-of-Way	0	0	0	0	0	0	0	0	0	0	0	0.0
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	0	0	0	0	0	0	0	0	0	0.0
Walking Along Roadway Against Traffic	0	0	0	0	0	0	0	0	1	0	1	7.1
Walking Along Roadway With Traffic	0	0	0	1	0	0	0	0	0	0	1	7.1
On Sidewalk, Median, Safety Zone	0	1	0	0	1	0	0	0	0	0	2	14.3
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	1	0	0	0	0	0	0	0	0	1	7.1
Coming from Behind Moving Vehicle	0	0	0	0	0	0	0	0	1	0	1	7.1
Running into Roadway	1	1	0	0	0	0	0	0	0	0	2	14.3
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	1	1	7.1
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	1	0	1	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	0	0	0	0.0
Unknown	0	0	0	1	0	0	0	0	0	0	1	7.1
Total	2	3	1	2	2	1	0	0	2	1	14	100.0

Pedestrians Injured or Killed By Place of Occurrence and Injury Severity

Figure 8.3

Place of Occurrence	Killed	Injured	Total	%
Urban	0	14	14	100.0
Rural	0	0	0	0.0
Unspecified	0	0	0	0.0
Total	0	14	14	100.0

Pedestrians Injured or Killed by Accident Site

Figure 8.4

Accident Site	Killed	Injured	Total	%
Non-Intersection	0	7	7	50.0
At Intersection of At Least Two Roadways	0	3	3	21.4
Intersection With Parking Lot/Driveway/Alley	0	4	4	28.6
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
Total	0	14	14	100.0

Pedestrians Injured or Killed by Pedestrian Condition

Figure 8.5

Pedestrian Condition	Killed	Injured	Total	%
Apparently Normal	0	10	10	71.4
Had Been Drinking	0	2	2	14.3
Impaired by Alcohol	0	0	0	0.0
Unknown	0	2	2	14.3
Total	0	14	14	100.0

Alcohol

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Alcohol

In 2003, there were 54 collisions involving alcohol in the Northwest Territories, resulting in 37 injuries. From the figures presented on the following pages, the facts below should be noted:

- Alcohol was a factor in 7% of all collisions;
- 5% of drivers involved in collisions had been drinking or were impaired by alcohol;
- 49 % of drinking drivers were between the ages of 25 and 44;
- Alcohol-related crashes are more frequent during the late evening or early morning, on weekends and are more likely to take place during the summer months;
- Alcohol was a factor in 21% of all traffic casualties.

Drinking Drivers in Collisions by Driver Age and Gender

Figure 9.1

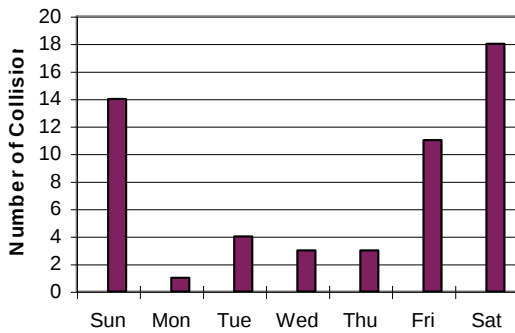
Driver Age	Male	Female	Not Stated	Total Drinking Drivers
Under 16	0	1	0	1
16	2	0	0	2
17	0	0	0	0
18	0	0	0	0
19	1	1	0	2
20	2	0	0	2
21 to 24	8	2	0	10
25 to 34	12	4	0	16
35 to 44	9	2	0	11
45 to 54	7	0	0	7
55 to 64	2	0	0	2
65 & Older	0	0	0	0
Not Stated	1	0	1	2
Total	44	10	1	55

Drinking Drivers by Driver Age



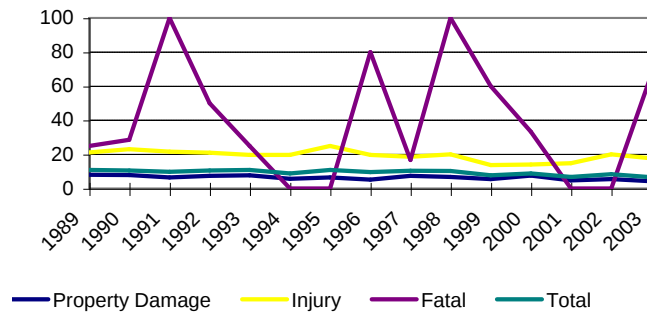
Collisions Involving Alcohol by Day of Week

Figure 9.2



Percentage of Collisions Involving Alcohol by Year and Severity

Figure 9.3



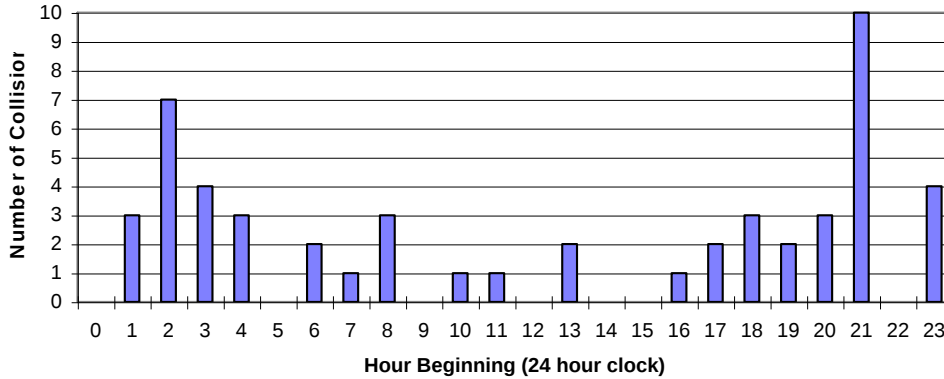
Number of Collisions and Victims Involving Alcohol

Figure 9.4

Year	Number of Collisions				% of Total Collisions	Number of Victims			% of Total Victims
	Property Damage	Personal Injury	Fatal	Total		Injured	Killed	Total	
1993	38	35	1	74	10.9	67	1	68	23.7
1994	32	34	0	66	8.9	51	0	51	20.9
1995	33	41	0	74	10.9	62	0	62	27.2
1996	25	28	8	61	9.6	50	8	58	26.7
1997	33	28	1	62	10.3	43	1	44	19.2
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
Average	32	28	2	62	9.0	48	2	50	22.1

Number of Alcohol Related Collisions by Time of Day

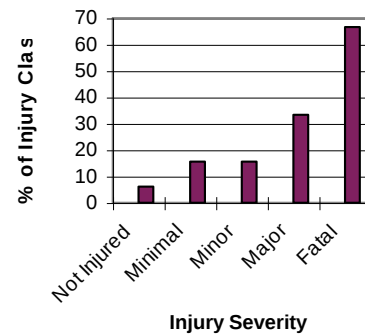
Figure 9.5



Injury Severity by Alcohol Involvement

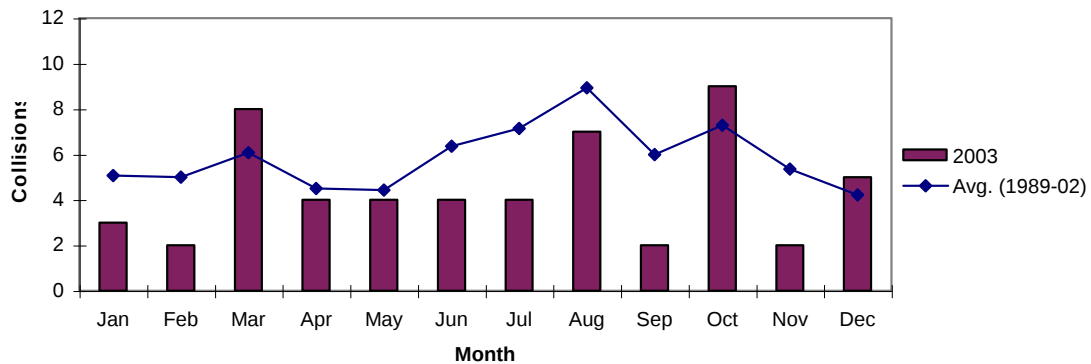
Figure 9.6

Injury Severity	Alcohol Involvement		Totals	% with Alcohol
	Yes	No		
Not Injured	100	1,545	1645	6.1
Minimal Injuries	10	54	64	15.6
Minor	12	65	77	15.6
Major	5	10	15	33.3
Fatal	2	1	3	66.7
Injured - Extent Unknown	8	8	16	50.0
Total	137	1683	1820	7.5



Alcohol-Involved Collisions by Month

Figure 9.7



Off-Road Vehicles

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Off-Road Vehicles

Off-road vehicles, including snowmobiles and All-Terrain Vehicles (ATVs) are a common form of transportation throughout the Northwest Territories. The NWT is unique in that these types of vehicles are permitted to operate on roadways in communities. Despite their widespread use, relatively little is known about collisions involving snowmobiles and ATVs. Part of the problem lies with under-reporting to the police. Only those collisions that occur on or adjacent to a roadway are captured by TCIS. This section attempts to describe the details of collisions with off-road vehicles.

From the figures presented on the following pages, the facts below should be noted:

- 50% of off-road vehicle collisions result in injuries or death
- 50% of off-road vehicle drivers involved in collisions are 24 years of age or younger
- 18% of off-road vehicle drivers in collisions had been drinking or were impaired by alcohol
- only 14% of off-road vehicle drivers or passengers in collisions were wearing helmets
- all of the off-road vehicles involved in collisions were snowmobiles
- no collisions involving off-road vehicles were reported in May, June, July, August, September, and October

Off-Road Vehicle Collisions by Month and Severity

Figure 10.1

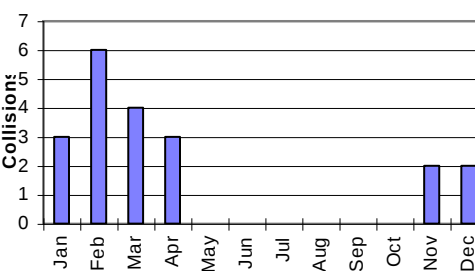
Month	Number of Collisions				Number of Victims	
	Property Damage	Personal Injury	Fatal	Total	Injured	Killed
January	1	1	1	3	2	1
February	3	3	0	6	3	0
March	1	3	0	4	3	0
April	1	2	0	3	2	0
May	0	0	0	0	0	0
June	0	0	0	0	0	0
July	0	0	0	0	0	0
August	0	0	0	0	0	0
September	0	0	0	0	0	0
October	0	0	0	0	0	0
November	2	0	0	2	0	0
December	2	0	0	2	0	0
Total	10	9	1	20	10	1

Off-Road Vehicle Collisions by Vehicle Type

Figure 10.2

	Snowmobile	ATV	Total
Total Victims	11	0	11
Killed	1	0	1
Injured	10	0	10
Total Vehicles Involved	22	0	22
Fatal	1	0	1
Injury	10	0	10
Property Damage	11	0	11

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	0	0	0	0	0	0	0.0
15 to 19	3	0	0	0	0	0	3	13.6
20 to 24	7	1	0	0	0	0	8	36.4
25 to 34	1	0	0	0	0	0	1	4.5
35 to 44	4	0	0	0	0	0	4	18.2
45 to 54	2	0	0	0	0	0	2	9.1
55 to 64	1	0	0	0	0	0	1	4.5
65 & Over	0	0	0	0	0	0	0	0.0
Unknown	1	0	2	0	0	0	3	13.6
Total	19	1	2	0	0	0	22	100.0

Off-Road Vehicle Collisions by Severity and Driver Condition

Figure 10.4

Driver Condition	Property Damage	Personal Injury	Fatal	Total %	
				Total	%
Apparently Normal	5	5	0	10	45.5
Fatigue/Fell Asleep	0	0	0	0	0.0
Inexperience	1	0	0	1	4.5
Under Influence - Alcohol	1	2	1	4	18.2
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	4	3	0	7	31.8
Total	11	10	1	22	100.0

Off-Road Vehicle Collisions by Severity and Driver Action

Figure 10.5

Driver Action	Property Damage	Personal Injury	Fatal	Total	%
Driving Properly	0	1	0	1	4.5
Following Too Closely	0	1	0	1	4.5
Distracted, Inattentive	0	1	0	1	4.5
Driving Too Fast for Conditions	4	1	1	6	27.3
Improper Turning or Passing	0	0	0	0	0.0
Failed to Yield Right-of-Way	1	1	0	2	9.1
Disobeyed Traffic Control or Officer	0	0	0	0	0.0
Driving on Wrong Side of Road	0	1	0	1	4.5
Driving in Wrong Direction	0	0	0	0	0.0
Backing Unsafely	1	0	0	1	4.5
Lost Control	2	2	0	4	18.2
Other	0	0	0	0	0.0
Unknown	3	2	0	5	22.7
Total	11	10	1	22	100.0

Off-Road Vehicle Occupants by Injury Severity and Helmet Use

Figure 10.6

Injury Severity	Helmet Worn	Helmet Not Worn	Unknown	Total	%
Not Injured	0	12	2	14	56.0
Minimal Injuries	2	0	1	3	12.0
Minor Injuries	0	5	1	6	24.0
Major (Hospital Admission)	0	1	0	1	4.0
Fatal	1	0	0	1	4.0
Injured - Extent Unknown	0	0	0	0	0.0
Total	3	18	4	25	100.0

Geographic Distribution

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Geographic Distribution

Figure 11.1 is a detailed summary of collisions by Region, RCMP detachment and severity. Sixty-four percent of collisions took place in the North Slave Region. The North Slave Region also accounted for 44% of persons injured. Two thirds of fatalities took place in the Inuvik Region. Figure 11.2 shows collision rates per 100 licensed drivers, registered vehicles and population by Region and RCMP detachment.

Figure 11.3 describes collisions that occurred on the NWT Highway system. Collisions are summarized by location (along numbered highways), date, severity, configuration, and the number of persons injured and killed. Highway 3 (Yellowknife Highway) accounted for 37% of collisions occurring on the numbered highway system.

Figure 11.4 is a map showing the number of collisions on various segments of the NWT Highway system, including access and winter roads. Figure 11.5 is a map showing the corresponding collision rates expressed in the number of collisions per million vehicle-kilometres of travel.

Geographic Distribution – Section 11

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	0	0	0	0	0	0
Deline	2	1	0	3	3	0
Fort Good Hope	6	1	0	7	1	0
Fort McPherson	9	6	0	15	7	0
Holman	0	0	0	0	0	0
Inuvik	70	10	1	81	10	1
Norman Wells	7	2	0	9	2	0
Sachs Harbour	0	0	0	0	0	0
Tuktoyaktuk	8	1	0	9	1	0
Tulita	3	0	1	4	0	1
Sub Total						
Inuvik Region	105	21	2	128	24	2

B - Fort Simpson Region

RCMP Detachment	Number of Collisions				Number of Victims	
	Property Damage	Personal Injury	Fatal	Total	Injured	Killed
Fort Liard	7	3	0	10	7	0
Fort Simpson	21	8	0	29	10	0
Sub Total						
Fort Simpson Region	28	11	0	39	17	0

C - South Slave Region

RCMP Detachment	Number of Collisions				Number of Victims	
	Property Damage	Personal Injury	Fatal	Total	Injured	Killed
Hay River	56	18	0	74	30	0
Fort Providence	13	13	0	26	17	0
Fort Resolution	1	1	0	2	1	0
Fort Smith	20	5	0	25	7	0
Lutsel K'e	0	0	0	0	0	0
Sub Total						
South Slave Region	90	37	0	127	55	0

D - North Slave Region

RCMP Detachment	Number of Collisions				Number of Victims	
	Property Damage	Personal Injury	Fatal	Total	Injured	Killed
Rae/Wha Ti	34	12	1	47	18	1
Yellowknife	429	49	0	478	58	0
Sub Total						
North Slave Region	463	61	1	525	76	1

Total - All Regions	686	130	3	819	172	3
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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 (2003 estimate [2])	Collision Rates		
					Collisions/ 100 Licensed Drivers	Collisions/ 100 Registered Vehicles	Collisions/ 100 Population
Aklavik	0	161	95	656	0.00	0.00	0.00
Deline	3	156	73	551	1.92	4.11	0.54
Fort Good Hope	7	211	112	667	3.32	6.25	1.05
Fort McPherson	15	312	253	1,015	4.81	5.93	1.48
Ulukhaktok	0	63	128	424	0.00	0.00	0.00
Inuvik	81	1,915	2,069	3,435	4.23	3.91	2.36
Norman Wells	9	522	796	797	1.72	1.13	1.13
Sachs Harbour	0	32	39	117	0.00	0.00	0.00
Tuktoyaktuk	9	411	384	1,309	2.19	2.34	0.69
Tulita	4	155	88	489	2.58	4.55	0.82
Sub Total							
Inuvik Region	128	3,938	4,037	9,460	3.25	3.17	1.35

B - Fort Simpson Region

RCMP Detachment	Number of Collisions	Licensed Drivers [1]	Registered Vehicles [1]	Population (2003 estimate [2])	Collision Rates		
					Collisions/ 100 Licensed Drivers	Collisions/ 100 Registered Vehicles	Collisions/ 100 Population
Fort Liard	10	256	310	588	3.91	3.23	1.70
Fort Simpson	29	844	1,053	1,554	3.44	2.75	1.87
Sub Total							
Fort Simpson Region	39	1,100	1,363	2,142	3.55	2.86	1.82

C - South Slave Region

RCMP Detachment	Number of Collisions	Licensed Drivers [1]	Registered Vehicles [1]	Population (2003 estimate [2])	Collision Rates		
					Collisions/ 100 Licensed Drivers	Collisions/ 100 Registered Vehicles	Collisions/ 100 Population
Hay River	74	2,738	4,236	3,990	2.70	1.75	1.85
Fort Providence	26	272	355	842	9.56	7.32	3.09
Fort Resolution	2	241	248	548	0.83	0.81	0.36
Fort Smith	25	1,524	2,523	2,473	1.64	0.99	1.01
Lutsel K'e	0	101	48	407	0.00	0.00	0.00
Sub Total							
South Slave Region	127	4,876	7,410	8,260	2.60	1.71	1.54

D - North Slave Region

RCMP Detachment	Number of Collisions	Licensed Drivers [1]	Registered Vehicles [1]	Population (2003 estimate [2])	Collision Rates		
					Collisions/ 100 Licensed Drivers	Collisions/ 100 Registered Vehicles	Collisions/ 100 Population
Behchoko/Whati	47	914	839	2,806	5.14	5.60	1.67
Yellowknife	478	13,212	15,457	18,889	3.62	3.09	2.53
Sub Total							
North Slave Region	525	14,126	16,296	21,695	3.72	3.22	2.42

Total - All Regions	819	24,040	29,106	41,900	3.41	2.81	1.95
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[1] Number of registered vehicles and licensed drivers are as of December 31, 2003.

[2] 2003 population from NWT Bureau of Statistics July 1 estimate published in 'Quarterly Report', March 2004.

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
	66.8	26 Jun 2003	Injury	Single Vehicle Rollover	1	0
	80.8	23 Oct 2003	Injury	Ran Off Road - Left	1	0
	82.0	19 Feb 2003	Property Damage	Single Vehicle Rollover	0	0
	83.8	5 Nov 2003	Property Damage	Ran Off Road - Right	0	0
	85.0	11 Feb 2003	Property Damage	Ran Off Road - Right	0	0
	88.0	11 Mar 2003	Injury	Sideswipe - Opposite Direction	3	0
	142.8	17 Feb 2003	Property Damage	Single Vehicle Rollover	0	0
	159.0	20 May 2003	Injury	Ran Off Road - Left	1	0
	166.0	12 Aug 2003	Injury	Single Vehicle Rollover	1	0
	173.0	12 Mar 2003	Injury	Ran Off Road - Right	2	0
	178.0	15 Oct 2003	Property Damage	Animal Strike	0	0
	187.5	20 Feb 2003	Injury	Single Vehicle Rollover	1	0
	198.0	6 Jul 2003	Injury	Single Vehicle Rollover	1	0
	234.0	19 Jun 2003	Property Damage	Ran Off Road - Right	0	0
	241.0	29 Nov 2003	Property Damage	Ran Off Road - Right	0	0
	257.0	19 Jun 2003	Injury	Single Vehicle Rollover	2	0
	310.0	27 Feb 2003	Property Damage	Ran Off Road - Right	0	0
	344.5	27 Oct 2003	Property Damage	Ran Off Road - Right	0	0
	355.0	13 Feb 2003	Injury	Rear End	1	0
	355.0	29 Oct 2003	Property Damage	Single Vehicle Rollover	0	0
	411.8	17 Feb 2003	Property Damage	Rear End	0	0
	440.0	20 Dec 2003	Property Damage	Single Vehicle Rollover	0	0
	468.0	28 Dec 2003	Property Damage	Single Vehicle Rollover	0	0
	512.0	24 Oct 2003	Injury	Single Vehicle Rollover	1	0
	559.8	23 Aug 2003	Injury	Single Vehicle Rollover	2	0

Summary Highway #1	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	13	12	0	25	17	0

Highway #2 (Hay River)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	14.0	28 Oct 2003	Injury	Single Vehicle Rollover	1	0
	35.0	23 Jun 2003	Injury	Single Vehicle Rollover	2	0
	36.0	31 Aug 2003	Injury	Single Vehicle Rollover	2	0
	36.0	3 Oct 2003	Property Damage	Single Vehicle Rollover	0	0
	38.0	2 Jul 2003	Property Damage	Left Turn Across Path	0	0
	38.7	22 Dec 2003	Property Damage	Sideswipe - Opposite Direction	0	0
	38.8	28 Oct 2003	Property Damage	Right Angle	0	0
	40.2	23 Aug 2003	Injury	Sideswipe - Same Direction	2	0
	40.7	12 Feb 2003	Property Damage	Single Vehicle Rollover	0	0
	41.4	18 Jan 2003	Property Damage	Single Vehicle Rollover	0	0
	41.4	28 Dec 2003	Injury	Single Vehicle Rollover	2	0
	43.9	24 Nov 2003	Property Damage	Rear End	0	0
	44.5	15 Feb 2003	Property Damage	Ran Off Road - Right	0	0

Summary Highway #2	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	8	5	0	13	9	0

Geographic Distribution – Section 11

Highway #3 (Yellowknife)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	9.0	10 Sep 2003	Property Damage	Animal Strike	0	0
	16.9	15 Feb 2003	Injury	Single Vehicle Rollover	1	0
	17.2	28 Oct 2003	Property Damage	Single Vehicle Rollover	0	0
	25.9	29 Jun 2003	Property Damage	Collision with Parked Vehicle	0	0
	31.0	21 Oct 2003	Property Damage	Animal Strike	0	0
	31.4	2 Oct 2003	Property Damage	Animal Strike	0	0
	36.0	10 Nov 2003	Injury	Single Vehicle Rollover	1	0
	44.0	9 Feb 2003	Injury	Single Vehicle Rollover	1	0
	62.0	2 Mar 2003	Property Damage	Sideswipe - Opposite Direction	0	0
	67.0	5 Oct 2003	Property Damage	Animal Strike	0	0
	72.0	30 Aug 2003	Injury	Single Vehicle Rollover	2	0
	76.4	13 Oct 2003	Property Damage	Animal Strike	0	0
	90.0	2 Feb 2003	Injury	Single Vehicle Rollover	2	0
	101.4	31 Oct 2003	Injury	Animal Strike	1	0
	122.0	22 Dec 2003	Injury	Ran Off Road - Right	1	0
	131.4	20 Oct 2003	Property Damage	Animal Strike	0	0
	141.4	3 Jan 2003	Property Damage	Animal Strike	0	0
	143.0	11 Jan 2003	Property Damage	Single Vehicle Rollover	0	0
	154.0	13 Feb 2003	Injury	Collision with Moving Object	1	0
	159.0	4 Jun 2003	Fatal	Single Vehicle Rollover	2	1
	162.0	29 Mar 2003	Property Damage	Single Vehicle Rollover	0	0
	163.0	14 Jan 2003	Property Damage	Animal Strike	0	0
	168.0	18 Feb 2003	Injury	Single Vehicle Rollover	2	0
	188.0	11 Jan 2003	Property Damage	Animal Strike	0	0
	233.0	25 Jun 2003	Property Damage	Ran Off Road - Right	0	0
	233.0	7 Sep 2003	Injury	Single Vehicle Rollover	2	0
	235.0	20 Oct 2003	Property Damage	Animal Strike	0	0
	239.0	28 Nov 2003	Property Damage	Animal Strike	0	0
	240.0	25 Nov 2003	Property Damage	Ran Off Road - Left	0	0
	240.0	31 Dec 2003	Property Damage	Single Vehicle Rollover	0	0
	253.0	25 Dec 2003	Property Damage	Animal Strike	0	0
	260.0	18 May 2003	Injury	Animal Strike	1	0
	268.8	28 Feb 2003	Property Damage	Single Vehicle Rollover	0	0
	272.0	2 Jan 2003	Property Damage	Single Vehicle Rollover	0	0
	273.0	25 Aug 2003	Property Damage	Ran Off Road - Right	0	0
	273.4	18 May 2003	Injury	Collision with Parked Vehicle	1	0
	277.0	UU Jun 2003	Property Damage	Collision with Fixed Object	0	0
	280.0	12 Sep 2003	Injury	Collision with Parked Vehicle	2	0
	283.0	10 Jan 2003	Injury	Single Vehicle Rollover	2	0
	293.0	28 May 2003	Property Damage	Single Vehicle Rollover	0	0
	299.0	28 Nov 2003	Property Damage	Rear End	0	0
	310.3	30 Nov 2003	Property Damage	Ran Off Road - Right	0	0
	322.5	19 Oct 2003	Property Damage	Single Vehicle Rollover	0	0
	324.0	2 Jan 2003	Property Damage	Rear End	0	0
	333.0	24 Oct 2003	Injury	Single Vehicle Rollover	2	0
	334.4	14 Mar 2003	Property Damage	Single Vehicle Rollover	0	0
	336.1	21 May 2003	Injury	Single Vehicle Rollover	1	0
	336.7	3 May 2003	Property Damage	Collision with Fixed Object	0	0
	336.8	26 Jul 2003	Property Damage	Right Angle	0	0
	338.4	8 Nov 2003	Property Damage	Single Vehicle Rollover	0	0
	338.5	23 May 2003	Property Damage	Ran Off Road - Right	0	0
	338.8	8 Nov 2003	Property Damage	Collision with Fixed Object	0	0

Summary Highway #3	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	35	16	1	52	25	1

Geographic Distribution – Section 11

Highway #4 (Ingraham Trail)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	0.0	10 Dec 2003	Property Damage	Left Turn Across Path	0	0
	0.4	10 Jul 2003	Property Damage	Rear End	0	0
	2.0	28 Apr 2003	Property Damage	Ran Off Road - Left	0	0
	4.9	25 Jun 2003	Property Damage	Single Vehicle Rollover	0	0
	10.8	21 Aug 2003	Injury	Single Vehicle Rollover	1	0
	12.0	10 Jul 2003	Injury	Single Vehicle Rollover	2	0
	14.0	9 Aug 2003	Property Damage	Ran Off Road - Right	0	0
	16.8	9 Jun 2003	Property Damage	Single Vehicle Rollover	0	0
	20.0	9 Feb 2003	Property Damage	Ran Off Road - Right	0	0
	26.5	9 Aug 2003	Injury	Single Vehicle Rollover	2	0
	36.3	9 Jun 2003	Property Damage	Single Vehicle Rollover	0	0

Summary Highway #4	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	8	3	0	11	5	0

Highway #5 (Fort Smith Highway)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	0.0	12 Apr 2003	Injury	Ran Off Road - Right	3	0
	15.0	10 Apr 2003	Property Damage	Single Vehicle Rollover	0	0
	26.3	19 Feb 2003	Property Damage	Single Vehicle Rollover	0	0
	46.9	27 Oct 2003	Injury	Single Vehicle Rollover	2	0
	61.0	22 Sep 2003	Injury	Single Vehicle Rollover	2	0
	75.0	18 Jun 2003	Injury	Single Vehicle Rollover	1	0
	107.0	29 Dec 2003	Property Damage	Single Vehicle Rollover	0	0
	166.0	14 Dec 2003	Property Damage	Ran Off Road - Left	0	0
	180.0	23 Jan 2003	Injury	Ran Off Road - Left	1	0
	189.5	21 Jan 2003	Property Damage	Single Vehicle Rollover	0	0
	224.0	18 Aug 2003	Property Damage	Rear End	0	0
	228.0	14 Feb 2003	Property Damage	Single Vehicle Rollover	0	0
	230.0	10 Jun 2003	Property Damage	Single Vehicle Rollover	0	0
	234.4	10 Dec 2003	Property Damage	Head-on	0	0

Summary Highway #5	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	9	5	0	14	9	0

Highway #6 (Fort Resolution Highway)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	67.3	17 Oct 2003	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
	3.0	19 May 2003	Injury	Single Vehicle Rollover	2	0
	9.0	15 Aug 2003	Property Damage	Animal Strike	0	0
	37.6	31 Aug 2003	Property Damage	Collision with Fixed Object	0	0
	45.6	7 Aug 2003	Property Damage	Other Single Vehicle Collision	0	0
	132.0	8 Dec 2003	Property Damage	Ran Off Road - Left	0	0
	152.0	25 Apr 2003	Injury	Single Vehicle Rollover	4	0
	169.6	31 Mar 2003	Property Damage	Single Vehicle Rollover	0	0
	220.0	1 Mar 2003	Property Damage	Single Vehicle Rollover	0	0
	234.0	16 Feb 2003	Property Damage	Single Vehicle Rollover	0	0

Summary Highway #7	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	7	2	0	9	6	0

Highway #8 (Dempster Highway)	On Km	Collision Date	Collision Severity	Collision Configuration	# Persons Injured	# Persons Killed
	1.0	24 Nov 2003	Property Damage	Single Vehicle Rollover	0	0
	35.4	5 Jul 2003	Injury	Single Vehicle Rollover	2	0
	55.2	20 Apr 2003	Property Damage	Ran Off Road - Left	0	0
	62.0	6 Mar 2003	Injury	Ran Off Road - Right	1	0
	85.4	12 Feb 2003	Property Damage	Collision with Fixed Object	0	0
	88.5	6 Sep 2003	Injury	Single Vehicle Rollover	1	0
	100.4	19 Jul 2003	Injury	Single Vehicle Rollover	1	0
	116.0	18 Dec 2003	Property Damage	Single Vehicle Rollover	0	0
	146.8	5 Jun 2003	Property Damage	Other Single Vehicle Collision	0	0
	202.0	14 Sep 2003	Property Damage	Sideswipe - Opposite Direction	0	0
	232.5	28 Jun 2003	Injury	Single Vehicle Rollover	1	0
	237.2	3 Oct 2003	Property Damage	Animal Strike	0	0
	259.3	15 Feb 2003	Property Damage	Collision with Fixed Object	0	0
	262.5	6 Dec 2003	Fatal	Ran Off Road - Left	0	1
	263.0	10 Oct 2003	Property Damage	Ran Off Road - Left	0	0
	263.8	8 Oct 2003	Injury	Single Vehicle Rollover	1	0

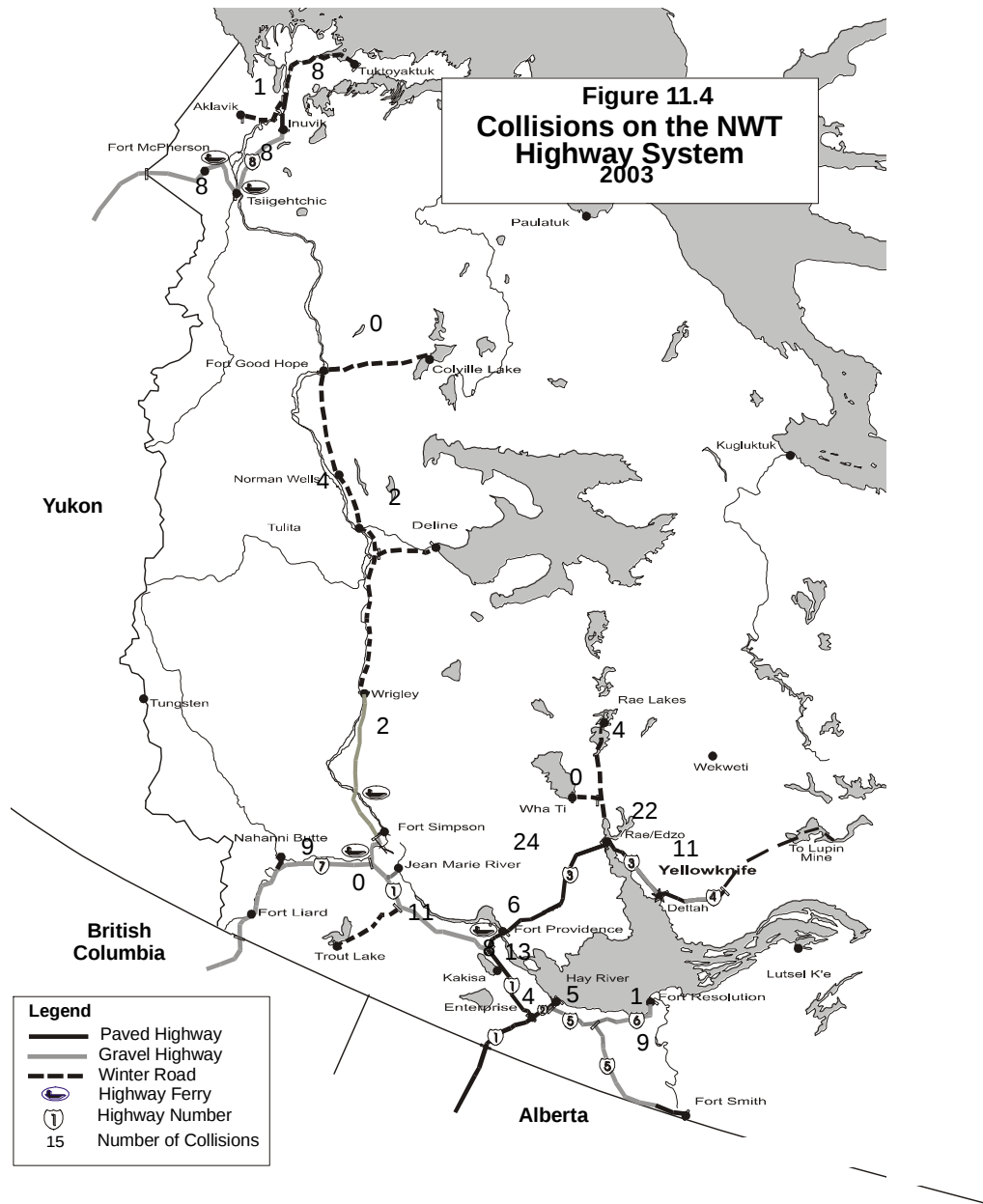
Summary Highway #8	Property Damage Collisions	Personal Injury Collisions	Fatal Collisions	Total Collisions	Persons Injured	Persons Killed
	9	6	1	16	7	1

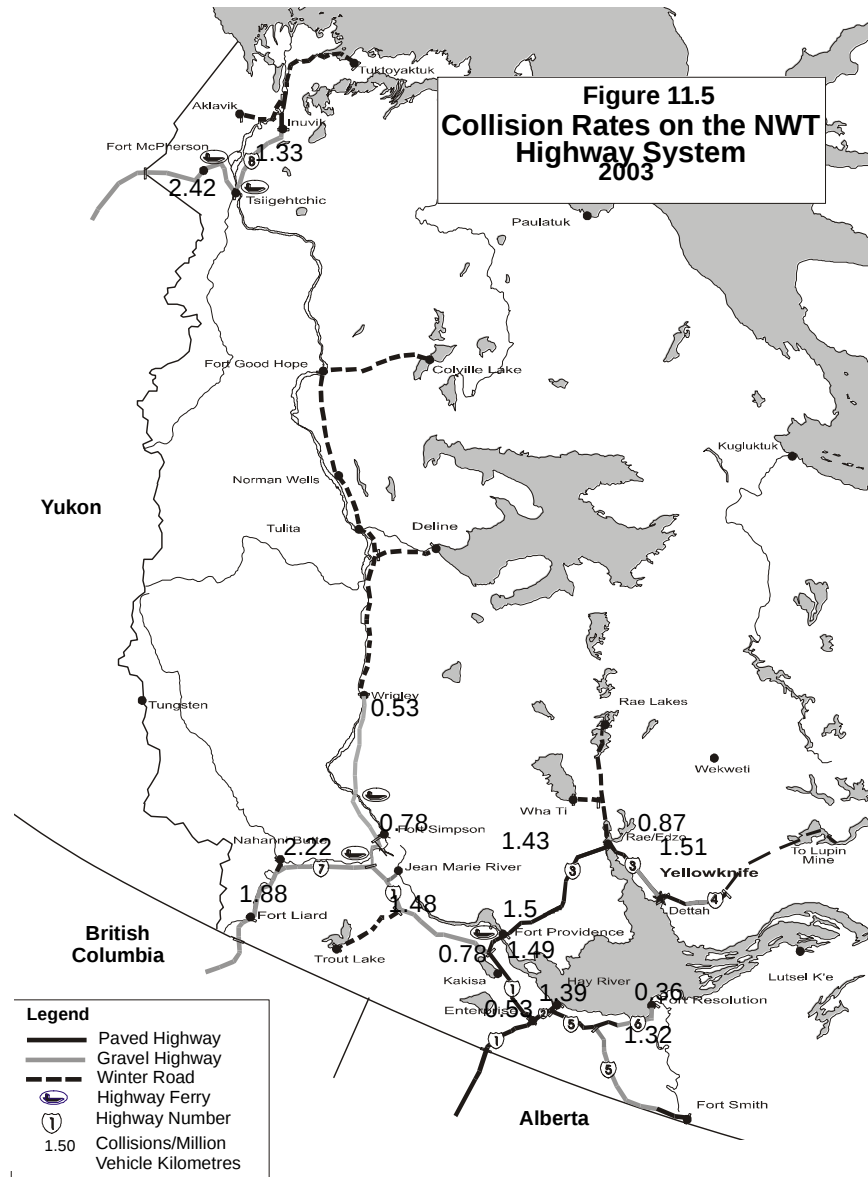
Geographic Distribution – Section 11

Access and	Collision		Collision		Collision	# Persons	# Persons
Winter Roads	Date		Severity		Configuration	Injured	Killed
Dettah Access Road	10 Jul 2003	Property Damage	Single Vehicle Rollover			0	0
Fort Simpson Access Road	9 Mar 2003	Injury	Ran Off Road - Left			1	0
Hay River Reserve Access Road	27 Oct 2003	Property Damage	Single Vehicle Rollover			0	0
Hay River Reserve Access Road	13 Nov 2003	Property Damage	Ran Off Road - Right			0	0
Prelude West Access Road	2 Mar 2003	Property Damage	Collision with Fixed Object			0	0
Rae Access Road	25 Jul 2003	Property Damage	Single Vehicle Rollover			0	0
Rae Access Road	3 Dec 2003	Property Damage	Animal Strike			0	0
Vee Lake Access Road	30 Jan 2003	Property Damage	Ran Off Road - Right			0	0
Vee Lake Access Road	27 Sep 2003	Property Damage	Single Vehicle Rollover			0	0
Yellowknife Access Road	13 Jan 2003	Property Damage	Right Angle			0	0
Yellowknife Access Road	24 Jan 2003	Property Damage	Rear End			0	0
Yellowknife Access Road	4 Feb 2003	Injury	Left Turn Across Path			1	0
Yellowknife Access Road	28 Feb 2003	Property Damage	Rear End			0	0
Yellowknife Access Road	13 Mar 2003	Property Damage	Ran Off Road - Right			0	0
Aklavik Winter Access Road	22 Jan 2003	Property Damage	Other Single Vehicle Collision			0	0
Deline Winter Access Road	24 Feb 2003	Property Damage	Sideswipe - Opposite Direction			0	0
Deline Winter Access Road	27 Feb 2003	Property Damage	Sideswipe - Opposite Direction			0	0
Inuvik-Tuktoyaktuk Winter Road	20 Jan 2003	Property Damage	Single Vehicle Rollover			0	0
Inuvik-Tuktoyaktuk Winter Road	3 Feb 2003	Injury	Single Vehicle Rollover			1	0
Inuvik-Tuktoyaktuk Winter Road	13 Feb 2003	Injury	Single Vehicle Rollover			1	0
Inuvik-Tuktoyaktuk Winter Road	3 Mar 2003	Property Damage	Single Vehicle Rollover			0	0
Inuvik-Tuktoyaktuk Winter Road	18 Mar 2003	Injury	Single Vehicle Rollover			1	0
Inuvik-Tuktoyaktuk Winter Road	3 Apr 2003	Property Damage	Single Vehicle Rollover			0	0
Inuvik-Tuktoyaktuk Winter Road	13 Apr 2003	Property Damage	Collision with Parked Vehicle			0	0
Inuvik-Tuktoyaktuk Winter Road	29 Apr 2003	Injury	Single Vehicle Rollover			1	0
Mackenzie Highway Winter Road	24 Jan 2003	Fatal	Collision with Parked Vehicle			0	1
Mackenzie Highway Winter Road	13 Mar 2003	Property Damage	Single Vehicle Rollover			0	0
Mackenzie Highway Winter Road	16 Mar 2003	Property Damage	Ran Off Road - Right			0	0
Mackenzie Highway Winter Road	29 Mar 2003	Property Damage	Single Vehicle Rollover			0	0
Nahanni Butte Winter Road	19 Jan 2003	Property Damage	Ran Off Road - Right			0	0
Rae Lakes Winter Access Road	22 Mar 2003	Property Damage	Collision with Parked Vehicle			0	0
Rae Lakes Winter Access Road	5 Apr 2003	Property Damage	Sideswipe - Opposite Direction			0	0
Rae Lakes Winter Access Road	9 Apr 2003	Property Damage	Collision with Fixed Object			0	0
Rae Lakes Winter Access Road	14 Apr 2003	Injury	Single Vehicle Rollover			1	0

Summary	Property	Personal	Fatal	Total	Persons	Persons
Access and	Damage	Injury			Injured	Killed
Winter Roads	Collisions	Collisions	Collisions	Collisions		
	26	7	1	34	7	1

Summary	Property	Personal	Fatal	Total	Persons	Persons
All NWT	Damage	Injury			Injured	Killed
Highways	Collisions	Collisions	Collisions	Collisions		
	115	57	3	175	86	3





Appendix

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Appendix A2 – MVA Report Form Side II

16. ROADWAY CONFIGURATION 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	24. ROAD SURFACE 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	32. VEHICLE TYPE 1. Passenger Car 2. Passenger Van 3. Light Utility Vehicle 4. Pickup Truck, To 4500 kg 5. Panel/Cargo Van, To 4500 kg 6. Other Truck, Van, To 4500 kg 7. Unit Truck, > 4500 kg 8. Road Tractor 9. School Bus	40. VEHICLE SPEED 000. Stopped in Traffic NN. Parked UU. Unknown	44. VEHICLE EVENTS 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 16. 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 34. Hit Other Type Fixed Object NN. No 2nd or 3rd Event UU. Other	48. DRIVER ACTION 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 28. Backing Unsafely 29. Lost Control NN. Driving Properly UU. Unknown	68. PEDESTRIAN ACTION 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 UU. Other	INDEPENDENT WITNESSES Last Name First Name Address Home Phone Work Phone Last Name First Name Address Home Phone Work Phone
17. WEATHER CONDITION 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	25. ROAD CONDITION 1. Good 2. Potholes, Bumps, Ruts 3. Under Construction, Repair 4. Uneven 5. Worn 6. Obscured/Faded Markings 7. Other 8. Unknown	36. VEHICLE USE 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 14. No Special Use 15. Other NN. Unknown	46. VEHICLE EVENTS 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 16. 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 34. Hit Other Type Fixed Object NN. No 2nd or 3rd Event UU. Other	50. ENVIRONMENTAL FACTORS 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 UU. Unknown	52. DANGEROUS GOODS CLASS 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	60. BLOOD ALCOHOL CONCENTRATION (100-500 BAC (mg%) of Driver) (Pedestrian) 000. Not Tested, Driver/Pedestrian Dead, Alcohol Use Suspected 010. Not Tested Due To Injury, Alcohol Use Suspected 020. Not Tested - Other Reasons, Alcohol Use Suspected 998. No Alcohol Suspected NNN. Passenger UU. Unknown	ADDITIONAL WITNESSES ON FILE? Yes No DESCRIPTION: Show Direction of Travel, Obstructions, Vehicle Movement, Travel Lane, Fixed Objects, Traffic Controls.
18. LIGHT CONDITION 1. Daylight 2. Dawn 3. Dusk 4. Darkness 5. Other 6. Unknown	26. ROAD ALIGNMENT 1. Straight And Level 2. Straight With Grade 3. Curved And Level 4. Curved With Grade 5. Top Of Hill/Gradient 6. Bottom Of Hill/Gradient 7. Other 8. Unknown	37. EMERGENCY USE 1. Yes 2. No N. Not an Emergency Vehicle UU. Unknown	38. TRAILER TYPE 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	53. LOAD STATUS COMMERCIAL VEHICLES 1. Fully/Partially Loaded 2. Not Loaded N. Not a Commercial Vehicle Q. Other	54. ROAD STATUS 1. Fully/Partially Loaded 2. Not Loaded N. Not a Commercial Vehicle Q. Other	61. ROAD CLASSIFICATION I 1. Urban 2. Rural 3. Other UU. Unknown	62. ROAD CLASSIFICATION II 1. Arterial 2. Collector 3. Local 4. Other (Parking Lot) 5. Unknown
19. ARTIFICIAL LIGHT CONDITION 1. No Artificial Light 2. Artificial Light - On 3. Artificial Light - Off 4. Other 5. Unknown	27. TRAFFIC CONTROL 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 19. Other 20. Unknown	39. USE OF HEADLIGHTS 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 6. Other 7. Unknown	41. VEHICLE MANOEUVRE 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	55. WEATHER OR ACTS OF GOD NN. No Environmental Factors UU. Unknown	56. ROAD STATUS 1. Fully/Partially Loaded 2. Not Loaded N. Not a Commercial Vehicle Q. Other	63. ROAD CLASSIFICATION III 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	64. ROAD MATERIAL 1. Asphalt 2. Concrete 3. Gravel 4. Earth, Dirt 5. Chip-Seal 6. Brick/Cobblestone 7. Wood 8. Steel Deck 9. Ice Road 10. Other 11. Unknown
20. ROAD CLASSIFICATION I 1. Urban 2. Rural 3. Other UU. Unknown	28. POSTED SPEED LIMIT 1. 10 km/h 2. 20 km/h 3. 30 km/h 4. 40 km/h 5. 50 km/h 6. 60 km/h 7. 70 km/h 8. 80 km/h 9. 90 km/h 10. 100 km/h 11. 110 km/h 12. 120 km/h 13. 130 km/h 14. 140 km/h 15. 150 km/h 16. 160 km/h 17. 170 km/h 18. 180 km/h 19. 190 km/h 20. 200 km/h 21. 210 km/h 22. 220 km/h 23. 230 km/h 24. 240 km/h 25. 250 km/h 26. 260 km/h 27. 270 km/h 28. 280 km/h 29. 290 km/h 30. 300 km/h 31. 310 km/h 32. 320 km/h 33. 330 km/h 34. 340 km/h 35. 350 km/h 36. 360 km/h 37. 370 km/h 38. 380 km/h 39. 390 km/h 40. 400 km/h 41. 410 km/h 42. 420 km/h 43. 430 km/h 44. 440 km/h 45. 450 km/h 46. 460 km/h 47. 470 km/h 48. 480 km/h 49. 490 km/h 50. 500 km/h 51. 510 km/h 52. 520 km/h 53. 530 km/h 54. 540 km/h 55. 550 km/h 56. 560 km/h 57. 570 km/h 58. 580 km/h 59. 590 km/h 60. 600 km/h 61. 610 km/h 62. 620 km/h 63. 630 km/h 64. 640 km/h 65. 650 km/h 66. 660 km/h 67. 670 km/h 68. 680 km/h 69. 690 km/h 70. 700 km/h 71. 710 km/h 72. 720 km/h 73. 730 km/h 74. 740 km/h 75. 750 km/h 76. 760 km/h 77. 770 km/h 78. 780 km/h 79. 790 km/h 80. 800 km/h 81. 810 km/h 82. 820 km/h 83. 830 km/h 84. 840 km/h 85. 850 km/h 86. 860 km/h 87. 870 km/h 88. 880 km/h 89. 890 km/h 90. 900 km/h 91. 910 km/h 92. 920 km/h 93. 930 km/h 94. 940 km/h 95. 950 km/h 96. 960 km/h 97. 970 km/h 98. 980 km/h 99. 990 km/h 100. 1000 km/h 101. 1010 km/h 102. 1020 km/h 103. 1030 km/h 104. 1040 km/h 105. 1050 km/h 106. 1060 km/h 107. 1070 km/h 108. 1080 km/h 109. 1090 km/h 110. 1100 km/h 111. 1110 km/h 112. 1120 km/h 113. 1130 km/h 114. 1140 km/h 115. 1150 km/h 116. 1160 km/h 117. 1170 km/h 118. 1180 km/h 119. 1190 km/h 120. 1200 km/h 121. 1210 km/h 122. 1220 km/h 123. 1230 km/h 124. 1240 km/h 125. 1250 km/h 126. 1260 km/h 127. 1270 km/h 128. 1280 km/h 129. 1290 km/h 130. 1300 km/h 131. 1310 km/h 132. 1320 km/h 133. 1330 km/h 134. 1340 km/h 135. 1350 km/h 136. 1360 km/h 137. 1370 km/h 138. 1380 km/h 139. 1390 km/h 140. 1400 km/h 141. 1410 km/h 142. 1420 km/h 143. 1430 km/h 144. 1440 km/h 145. 1450 km/h 146. 1460 km/h 147. 1470 km/h 148. 1480 km/h 149. 1490 km/h 150. 1500 km/h 151. 1510 km/h 152. 1520 km/h 153. 1530 km/h 154. 1540 km/h 155. 1550 km/h 156. 1560 km/h 157. 1570 km/h 158. 1580 km/h 159. 1590 km/h 160. 1600 km/h 161. 1610 km/h 162. 1620 km/h 163. 1630 km/h 164. 1640 km/h 165. 1650 km/h 166. 1660 km/h 167. 1670 km/h 168. 1680 km/h 169. 1690 km/h 170. 1700 km/h 171. 1710 km/h 172. 1720 km/h 173. 1730 km/h 174. 1740 km/h 175. 1750 km/h 176. 1760 km/h 177. 1770 km/h 178. 1780 km/h 179. 1790 km/h 180. 1800 km/h 181. 1810 km/h 182. 1820 km/h 183. 1830 km/h 184. 1840 km/h 185. 1850 km/h 186. 1860 km/h 187. 1870 km/h 188. 1880 km/h 189. 1890 km/h 190. 1900 km/h 191. 1910 km/h 192. 1920 km/h 193. 1930 km/h 194. 1940 km/h 195. 1950 km/h 196. 1960 km/h 197. 1970 km/h 198. 1980 km/h 199. 1990 km/h 200. 2000 km/h 201. 2010 km/h 202. 2020 km/h 203. 2030 km/h 204. 2040 km/h 205. 2050 km/h 206. 2060 km/h 207. 2070 km/h 208. 2080 km/h 209. 2090 km/h 210. 2100 km/h 211. 2110 km/h 212. 2120 km/h 213. 2130 km/h 214. 2140 km/h 215. 2150 km/h 216. 2160 km/h 217. 2170 km/h 218. 2180 km/h 219. 2190 km/h 220. 2200 km/h 221. 2210 km/h 222. 2220 km/h 223. 2230 km/h 224. 2240 km/h 225. 2250 km/h 226. 2260 km/h 227. 2270 km/h 228. 2280 km/h 229. 2290 km/h 230. 2300 km/h 231. 2310 km/h 232. 2320 km/h 233. 2330 km/h 234. 2340 km/h 235. 2350 km/h 236. 2360 km/h 237. 2370 km/h 238. 2380 km/h 239. 2390 km/h 240. 2400 km/h 241. 2410 km/h 242. 2420 km/h 243. 2430 km/h 244. 2440 km/h 245. 2450 km/h 246. 2460 km/h 247. 2470 km/h 248. 2480 km/h 249. 2490 km/h 250. 2500 km/h 251. 2510 km/h 252. 2520 km/h 253. 2530 km/h 254. 2540 km/h 255. 2550 km/h 256. 2560 km/h 257. 2570 km/h 258. 2580 km/h 259. 2590 km/h 260. 2600 km/h 261. 2610 km/h 262. 2620 km/h 263. 2630 km/h 264. 2640 km/h 265. 2650 km/h 266. 2660 km/h 267. 2670 km/h 268. 2680 km/h 269. 2690 km/h 270. 2700 km/h 271. 2710 km/h 272. 2720 km/h 273. 2730 km/h 274. 2740 km/h 275. 2750 km/h 276. 2760 km/h 277. 2770 km/h 278. 2780 km/h 279. 2790 km/h 280. 2800 km/h 281. 2810 km/h 282. 2820 km/h 283. 2830 km/h 284. 2840 km/h 285. 2850 km/h 286. 2860 km/h 287. 2870 km/h 288. 2880 km/h 289. 2890 km/h 290. 2900 km/h 291. 2910 km/h 292. 2920 km/h 293. 2930 km/h 294. 2940 km/h 295. 2950 km/h 296. 2960 km/h 297. 2970 km/h 298. 2980 km/h 299. 2990 km/h 300. 3000 km/h 301. 3010 km/h 302. 3020 km/h 303. 3030 km/h 304. 3040 km/h 305. 3050 km/h 306. 3060 km/h 307. 3070 km/h 308. 3080 km/h 309. 3090 km/h 310. 3100 km/h 311. 3110 km/h 312. 3120 km/h 313. 3130 km/h 314. 3140 km/h 315. 3150 km/h 316. 3160 km/h 317. 3170 km/h 318. 3180 km/h 319. 3190 km/h 320. 3200 km/h 321. 3210 km/h 322. 3220 km/h 323. 3230 km/h 324. 3240 km/h 325. 3250 km/h 326. 3260 km/h 327. 3270 km/h 328. 3280 km/h 329. 3290 km/h 330. 3300 km/h 331. 3310 km/h 332. 3320 km/h 333. 3330 km/h 334. 3340 km/h 335. 3350 km/h 336. 3360 km/h 337. 3370 km/h 338. 3380 km/h 339. 3390 km/h 340. 3400 km/h 341. 3410 km/h 342. 3420 km/h 343. 3430 km/h 344. 3440 km/h 345. 3450 km/h 346. 3460 km/h 347. 3470 km/h 348. 3480 km/h 349. 3490 km/h 350. 3500 km/h 351. 3510 km/h 352. 3520 km/h 353. 3530 km/h 354. 3540 km/h 355. 3550 km/h 356. 3560 km/h 357. 3570 km/h 358. 3580 km/h 359. 3590 km/h 360. 3600 km/h 361. 3610 km/h 362. 3620 km/h 363. 3630 km/h 364. 3640 km/h 365. 3650 km/h 366. 3660 km/h 367. 3670 km/h 368. 3680 km/h 369. 3690 km/h 370. 3700 km/h 371. 3710 km/h 372. 3720 km/h 373. 3730 km/h 374. 3740 km/h 375. 3750 km/h 376. 3760 km/h 377. 3770 km/h 378. 3780 km/h 379. 3790 km/h 380. 3800 km/h 381. 3810 km/h 382. 3820 km/h 383. 3830 km/h 384. 3840 km/h 385. 3850 km/h 386. 3860 km/h 387. 3870 km/h 388. 3880 km/h 389. 3890 km/h 390. 3900 km/h 391. 3910 km/h 392. 3920 km/h 393. 3930 km/h 394. 3940 km/h 395. 3950 km/h 396. 3960 km/h 397. 3970 km/h 398. 3980 km/h 399. 3990 km/h 400. 4000 km/h 401. 4010 km/h 402. 4020 km/h 403. 4030 km/h 404. 4040 km/h 405. 4050 km/h 406. 4060 km/h 407. 4070 km/h 408. 4080 km/h 409. 4090 km/h 410. 4100 km/h 411. 4110 km/h 412. 4120 km/h 413. 4130 km/h 414. 4140 km/h 415. 4150 km/h 416. 4160 km/h 417. 4170 km/h 418. 4180 km/h 419. 4190 km/h 420. 4200 km/h 421. 4210 km/h 422. 4220 km/h 423. 4230 km/h 424. 4240 km/h 425. 4250 km/h 426. 4260 km/h 427. 4270 km/h 428. 4280 km/h 429. 4290 km/h 430. 4300 km/h 431. 4310 km/h 432. 4320 km/h 433. 4330 km/h 434. 4340 km/h 435. 4350 km/h 436. 4360 km/h 437. 4370 km/h 438. 4380 km/h 439. 4390 km/h 440. 4400 km/h 441. 4410 km/h 442. 4420 km/h 443. 4430 km/h 444. 4440 km/h 445. 4450 km/h 446. 4460 km/h 447. 4470 km/h 448. 4480 km/h 449. 4490 km/h 450. 4500 km/h 451. 4510 km/h 452. 4520 km/h 453. 4530 km/h 454. 4540 km/h 455. 4550 km/h 456. 4560 km/h 457. 4570 km/h 458. 4580 km/h 459. 4590 km/h 460. 4600 km/h 461. 4610 km/h 462. 4620 km/h 463. 4630 km/h 464. 4640 km/h 465. 4650 km/h 466. 466						

Appendix A3 – Brief Description of Fatal Collisions

The following is a brief description of the three fatal traffic collisions that took place in the Northwest Territories in 2003, resulting in three fatalities.

RCMP Detachment	Date	Description
Tulita	24-Jan	Snowmobile struck parked construction equipment on the Mackenzie Highway Winter Road approximately 20 km south of Tulita. The operator of the snowmobile, who was wearing a helmet and was impaired by alcohol, died at the scene.
Rae	04-Jun	Single vehicle rollover involving passenger van near Km 159 on Highway #3. The centre rear passenger was ejected and fatally injured. The driver and right front passenger sustained moderate injuries. Alcohol was not involved.
Inuvik	06-Dec	Single vehicle ran off-road collision involving sport utility vehicle near Km 263 on Highway #8. The unrestrained driver was partially ejected and died in hospital. Alcohol use was suspected.