

Northwest Territories
Highway Traffic, 2007

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Department of Transportation
Government of the Northwest Territories
August 2008

Acknowledgements

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Table of Contents

Table of Contents	Page i
List of Figures	Page ii
List of Tables	Page iii
1.0 Summary of Traffic Data Collection Activities and Analysis	Page 1
1.1 Background	Page 1
1.2 Traffic Data Collection System	Page 1
1.3 Traffic Data Processing	Page 5
1.4 Glossary of Terms	Page 5
1.5 Layout of the Report	Page 6
2.0 Highway Traffic Volume Data	Page 7
3.0 Vehicle Movements at Ferries and Weigh Scales	Page 22
Appendix A Historical Data	
Appendix B Data Processing Methodology	

List of Figures

Figure 1	Northwest Territories Permanent and Seasonal Counter Locations (2007)	Page 2
Figure 2	2007 AADT at Permanent Counters	Page 7
Figure 3	2007 AADT on Highway Segments	Page 8
Figure 4	Vehicle Kilometres Travelled on Northwest Territories Highways	Page 16
Figure 5	Yearly Trend in Road Related Indicators	Page 17
Figure 6	Distribution of Monthly Traffic	Page 18
Figure 7	Distribution of Daily Traffic	Page 19
Figure 8	Distribution of Hourly Traffic	Page 20
Figure 9	Average Daily Traffic on Highway Ferries	Page 22
Figure 10	Commercial Vehicles Weighed at the Enterprise Weigh Scale	Page 30
Figure 11	Commercial Vehicle Activity at the Enterprise Weigh Scale	Page 31
Figure 12	Commercial Vehicle Activity at the Inuvik Weigh Scale	Page 32
Figure 13	Commercial Vehicle Activity at the Fort Liard Weigh Scale	Page 33
Figure 14	Vehicle Classifications	Page 34

List of Tables

Table 1	Highway System Classification (2007)	Page 3
Table 2	Permanent and Seasonal Counter Locations	Page 4
Table 3	Estimated Traffic on Northwest Territories Highways	Page 9
Table 4	Traffic on Northwest Territories Access Roads (sorted by counter)	Page 10
Table 5	Monthly Average Daily Traffic on Northwest Territories Winter Roads (sorted by counter)	Page 12
Table 6	Opening and Closing Dates for Winter Roads & Ice Bridges	Page 13
Table 7	Truck Traffic on Selected Winter Mining Roads	Page 14
Table 8	Estimated Vehicle Kilometres Travelled on Northwest Territories Highways	Page 15
Table 9	Average Daily Traffic on Highway Ferries	Page 23
Table 10	Vehicle Classification Data at Dory Point Ferry (M.V. Merv Hardie)	Page 24
Table 11	Vehicle Classification Data at Liard River Ferry (M.V. Lafferty)	Page 25
Table 12	Vehicle Classification Data at Mackenzie River Ferry (M.V. Louis Cardinal)	Page 26
Table 13	Vehicle Classification Data at Peel River Ferry (C.F. Abraham Francis)	Page 27
Table 14	Vehicle Classification Data at Mackenzie River Ferry (M.V. Johnny Berens)	Page 28
Table 15	Vehicle Classification at the Enterprise Weigh Scale	Page 29

1.0 Summary of Traffic Data Collection Activities and Analysis

1.1 Background

The Northwest Territories highway network consists of 2200 kilometres of all-weather roads and 1400 kilometres of winter roads. The highway system also includes five vehicle ferries. A map of the highway network is provided in Figure 1. A detailed listing of the highway system classification by surface type is provided in Table 1. It is noted that, in addition to the above, there are a number of winter roads constructed by mining companies to facilitate mine resupply.

The Department of Transportation of the Government of the Northwest Territories is responsible for operation and maintenance, capital rehabilitation, and upgrading of the Northwest Territories highway network. To monitor traffic utilizing the highway system, the Department of Transportation operates a series of mechanical counters and conducts periodic visual counts and surveys. Supplementing this information is data from the weigh scales and usage logs from the five ferries. Information obtained is used by the department to monitor changes in traffic flows, classify highways, set priorities in maintenance and capital funding, monitor safety aspects of the highways and optimize engineering designs. Traffic data is also used by businesses and the general public as the need arises.

This report presents traffic data collected by the Department of Transportation on the territorial highway network from 1993 to 2007. This report includes traffic information collected on major highways, access roads, winter roads and associated ferry crossings. The report also contains information on vehicle classifications.

1.2 Traffic Data Collection System

The Northwest Territories Department of Transportation collects traffic at a number of permanent and seasonal counting stations as shown in Table 2 and illustrated in Figure 1. These stations provide hourly information on traffic for the complete year, or selected portions of the year for counters located on winter roads or other seasonal access roads. These stations are positioned to capture the general flow of traffic on the highway network.

Vehicle classification information is collected at the five ferries that operate on the highway system. The Marine Services Division of the Department of Transportation is responsible for collecting and processing this information.

Special turning movement counts at select intersections and visual vehicle classification counts are also conducted annually or as need arises. No manual counts were undertaken in 2007.

Information on truck volumes and commodities is obtained from the weigh scale in Enterprise. Truck volumes utilizing private (mining) winter roads is also collected and presented in this report.

In 2007, approximately 40 percent of all potential data was useable for determining traffic volumes. This performance is attributed to the age of the traffic counters, breakdown of the loops and malfunctioning data modules, but represents a significant improvement since 2006. Where data was missing, traffic volumes have been estimated based on previous years' data and information from other sources such as vehicle movements at ferries and weigh scales. The Department is working to improve data collection activities, including the purchase of new counters and loops and the installation of temporary counters.

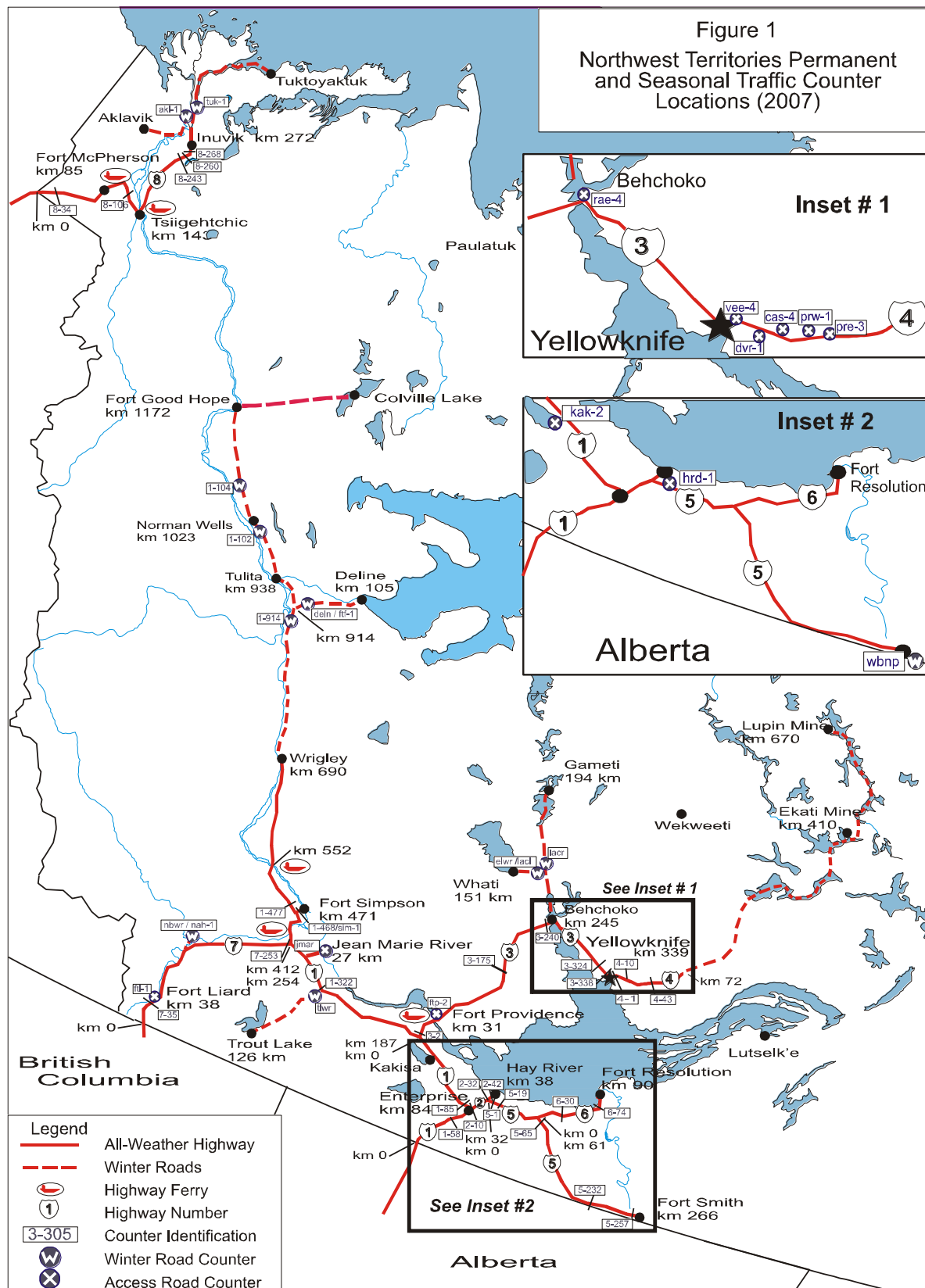


Table 1 Highway System Classification (2007)

Classification	Length (kilometres)					Total
	Paved	Dust- Controlled Gravel	Untreated Gravel	Ferry Crossing	Winter Road	
All-Weather Highways						
Highway 1 (Mackenzie Highway to Wrigley)	249.2	242.8	195.5	2.5	-	690.0
Highway 2 (Hay River Highway)	43.7	-	-	-	-	43.7
Highway 3 (Yellowknife Highway)	337.6	-	-	1.2	-	338.8
Highway 4 (Ingraham Trail)	28.3	40.9	-	-	-	69.2
Highway 5 (Fort Smith Highway)	158.5	108.5	-	-	-	267.0
Highway 6 (Fort Resolution Highway)	36.0	26.0	28.0	-	-	90.0
Highway 7 (Liard Highway)	-	73.2	180.9	-	-	254.1
Highway 8 (Dempster Highway)	10.3	67.2	195.0	-	-	272.5
Total	863.6	558.6	599.4	3.7	0.0	2,025.3
Access Roads						
Kakisa Lake Access	12.9	-	-	-	-	12.9
Fort Simpson Access	3.4	-	-	-	-	3.4
Jean Marie River Access	-	-	27.4	-	-	27.4
Fort Providence Access	5.4	-	-	-	-	5.4
Rae Access	10.5	-	-	-	-	10.5
Dettah Access	11.3	-	-	-	-	11.3
Hay River Reserve Access	2.4	11.8	-	-	-	14.2
Fort Liard Access	1.3	-	4.0	-	-	5.3
Hay River Hwy. No. 2 Km 43.7 - 48.6	4.9	-	-	-	-	4.9
Yellowknife Access	1.7	-	-	-	-	1.7
Fort McPherson Access	-	1.1	-	-	-	1.1
Inuvik Access	0.6	-	-	-	-	0.6
Hwy 3 Ice Crossing Access	-	9.4	-	-	-	9.4
Miscellaneous Minor Access	3.2	8.5	45.2	-	-	56.9
Total	57.6	30.8	76.6	0.0	0.0	165.0
Winter Roads						
Highway 1 (Mackenzie Highway, Wrigley to FGH)	-	-	-	-	486.4	486.4
Colville Lake Access (opened March 2001)	-	-	-	-	165.0	165.0
Highway 3 Ice Crossing	-	-	-	-	3.1	3.1
Trout Lake Access	-	-	-	-	126.0	126.0
Deline Access	-	-	-	-	105.3	105.3
Wha'ti Road	-	-	-	-	103.0	103.0
Rae Lake Road	-	-	-	-	125.0	125.0
Nahanni Butte Access	-	-	9.0	-	13.3	22.3
Tuktoyaktuk Access	-	-	-	-	184.0	184.0
Aklavik Access	-	-	-	-	85.0	85.0
Dettah Access	-	-	-	-	6.3	6.3
Total	0.0	0.0	9.0	0.0	1,402.4	1,411.4
Total All-Weather Roads						2,189.3
Total Winter Roads (Department of Transportation)						1,411.4

Table 2 Permanent and Seasonal Counter Locations

Counter ID	Location (Hwy / Road)	Kilometre	Description
All-Weather Highways			
1-58	Highway 1	58	15 km south of Alexandra Falls
1-85	Highway 1	85	1.2 km west of Enterprise
1-322	Highway 1	322	0.4 km west of Trout Lake winter road
1-477	Highway 1	477	5.2 km west of Fort Simpson Access on Highway 1
2-10	Highway 2	10	10 km north of Enterprise, south of Paradise Gardens
2-32	Highway 2	32	40 metres north of Highway 2 and 5 intersection, south of service road
2-42	Highway 2	42	North of West Channel, across bridge
3-2	Highway 3	2	2 km north of Highway 1 and 3 intersection, south of ferry landing
3-175	Highway 3	175	53 km north of Chan Lake, 62 km south of Edzo
3-240	Highway 3	240	3 km south of Rae Access, north of Edzo
3-324	Highway 3	324	19.3 km east of Boundry Creek
3-338	Highway 3	338	0.8 km west of Highway 3 and 4 intersection
4-1	Highway 4	1	1 km north of Highway 3 and 4 intersection
4-10	Highway 4	10	2.5 km east of Yellowknife River Bridge / 300 m west of Dettah Access Road
4-43	Highway 4	43	11 km east of Prelude Lake East Access, 12 km west of Cameron River
5-1	Highway 5	1	1 km east of Highway 2 and 5, 1.5 km west of Hay River Reserve Access
5-19	Highway 5	19	10.6 km east of Sandy Creek, 19 km east of Highway 2 and 5 intersection
5-65	Highway 5	65	5 km south of Highway 5 and 6 intersection
5-232	Highway 5	232	12.3 km west of Salt River Village Access
5-257	Highway 5	257	6.1 km west of Fort Smith
6-30	Highway 6	30	8.5 km east of Pine Point Access
6-74	Highway 6	74	16 km west of Fort Resolution
7-35	Highway 7	35	2.6 km south of Fort Liard
7-253	Highway 7	253	0.3 km south of Highway 1 and 7 intersection
8-34	Highway 8	34	10 km west of Midway Lake
8-106	Highway 8	106	20.6 km north of Fort McPherson Access
8-243	Highway 8	243	1 km south of Cabin Creek
8-260	Highway 8	260	0.7 km north of airport access
8-268	Highway 8	268	1.3 km south of Inuvik
Access Roads			
cas-4	Cassidy Point	1	1 km north of junction with Highway 4
dvr-1	Dettah	1	1 km south of junction with Highway 4
ftl-1	Fort Liard	1	1 km west of junction with Highway 7
ftp-2	Fort Providence	2	2 km west of junction with Highway 3
hrd-1	Hay River Dene Reserve	1	1 km north of junction with Highway 5
jmar	Jean Marie River	1	1 km north of junction with Highway 1
kak-2	Kakisa	2	2 km south of junction with Highway 1
pre-3	Prelude East	1	1 km north of junction with Highway 4
prw-1	Prelude West	1	1 km north of junction with Highway 4
rae-4	Fort Rae	4.2	4.2 km north of junction with Highway 3
vee-4	Vee Lake	4.3	4 km north of junction with Highway 4
sim-1	Fort Simpson	1	1 km north of junction with Highway 1
Winter Roads			
1-914	Highway 1	914	northern-most side of junction of Highway 1 and Deline Access
1-102	Highway 1	1022	1.4 km south of Norman Wells
1-104	Highway 1	1031	7.6 km north of Norman Wells
aki-1	Aklavik	1	1 km west of junction with Tuktoyuktuk winter road
deln / ftf-1	Deline	1	1 km east of junction with Highway 1
elwr / lacl	Wha'ti	72	1 km west of junction with Rae Lakes Access road
lacr	Wha'ti / Rae Lakes	72	1 km north of junction with Wha'ti Access road
nbwr / nah-1	Nahanni Butte	2	2 km west of junction with Highway 7
tlwr	Trout Lake	1	1 km south of junction with Highway 1
tuk-1	Tuktoyuktuk	1	km 34 on Tuk winter road, 1 km north of junction with Aklavik winter road
wbnp	Wood Buffalo National Park		

1.3 Traffic Data Processing

The permanent traffic counters located throughout the Northwest Territories highway network collect traffic data on a continual basis. This data is stored to memory every hour. Approximately once per month, personnel working out of the highway maintenance camps download the data to a module, clear the internal memory of the counter, and send the downloaded data to the Transportation Planning, Policy and Environment Division.

Personnel with the Transportation Planning, Policy and Environment Division download the data from the module to the government network in a flat file (ASCII format) and conduct a first level screening of the data. Any problems are noted and corrupt data is disregarded. The data is then copied into a Microsoft Excel spreadsheet and analysed to obtain the information presented in this report.

The first step in the analysis of the traffic data is to check for completeness and accuracy. Common problems include missing data due to the counter or module not functioning correctly, overlapping or missing data between months, and counts too high or low due to counter malfunctions. To ensure accurate results and also provide as much information as possible, a series of procedures has been established to correct deficiencies in the data. These steps are outlined in Appendix B.

1.4 Glossary of Terms

Average Annual Daily Traffic (AADT) is an estimate of the mean daily traffic for a period of one year.

Average Daily Traffic (ADT) is an estimate of the mean traffic for a specified period of time. For example, monthly ADT is an estimate of the mean daily traffic for a specified month.

Growth Rate is the increase or decrease in AADT from year to year.

Near Urban Highway is a section of highway located within or near a major urban centre.

Peak Summer Average Daily Traffic (PSADT) is an estimate of the mean daily traffic for the months of June, July and August.

Permanent Traffic Counter is a counter that is permanently placed at a specific location and counts traffic continuously.

Rural Highway is a section of highway located away from the traffic influence of a major urban centre.

Short Term Counts provide measurements of traffic characteristics based on visual observation for a specified period of time and purpose.

Traffic Distributions illustrate how traffic varies over time. Distributions may be by month, by day of the week or hourly, and is usually measured as a percent of the AADT.

Vehicle Classification is the distribution of vehicle types in a traffic stream.

Vehicle Kilometres Travelled is the total number of vehicles for a specific road segment multiplied by the length of the road segment.

1.5 Layout of the Report

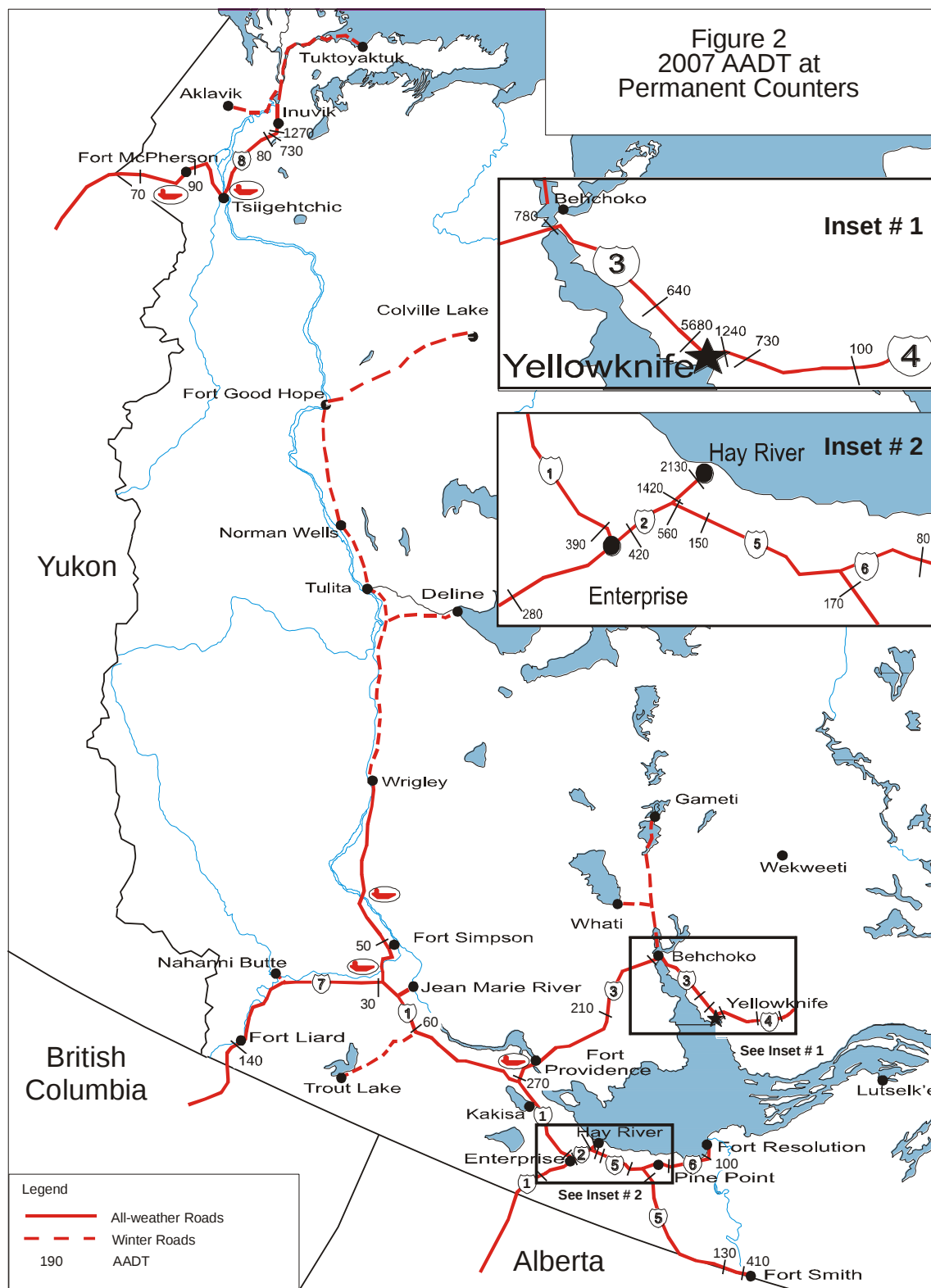
This report is organized into four sections.

Section 1 provides an introduction to the Northwest Territories traffic data collection system.

Section 2 presents the traffic information collected at all permanent counter locations and selected mining roads; including traffic volumes, distributions and vehicle kilometres travelled.

Section 3 presents traffic information collected on highway ferries, and commercial vehicle activity from the weigh scales.

The Appendices present additional detailed traffic information.



Note: Some data in this figure has been estimated using information from past years. See Appendix A for actual data.

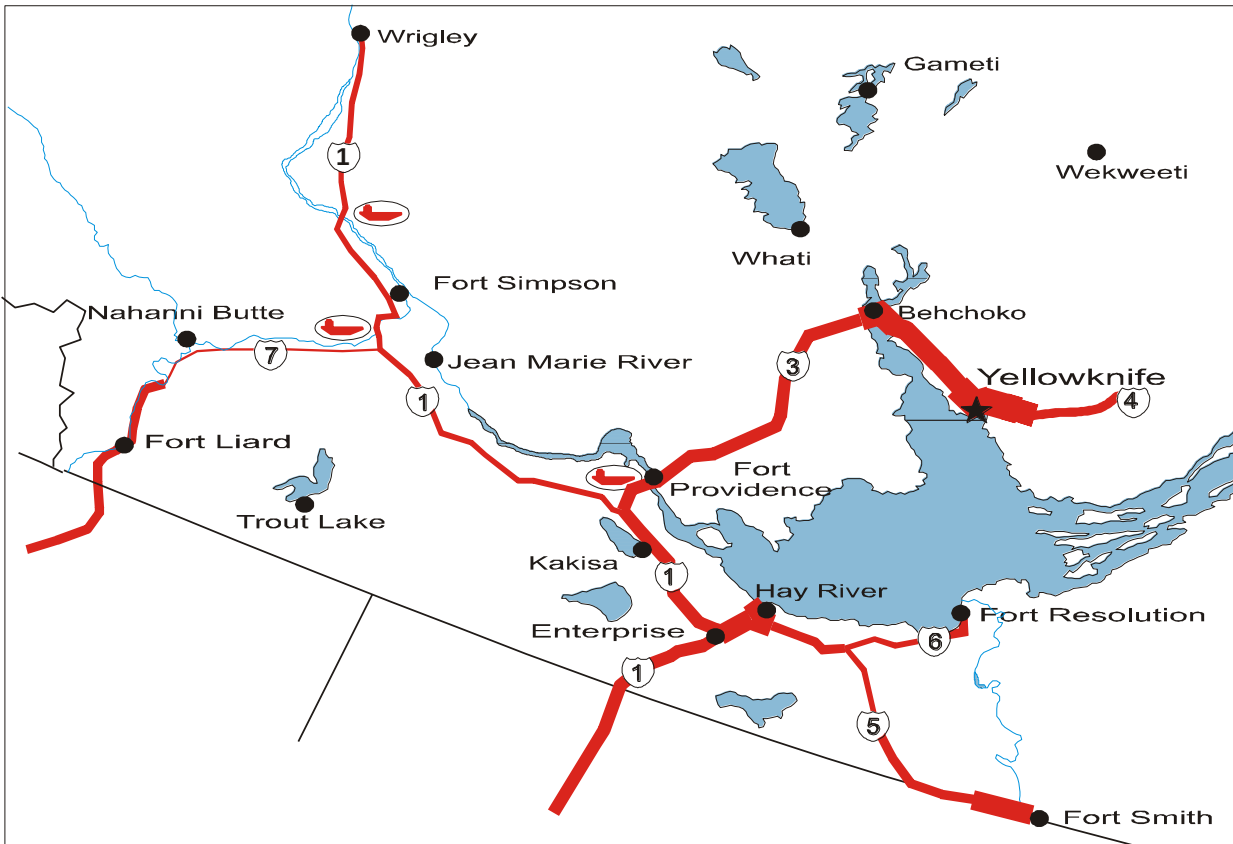
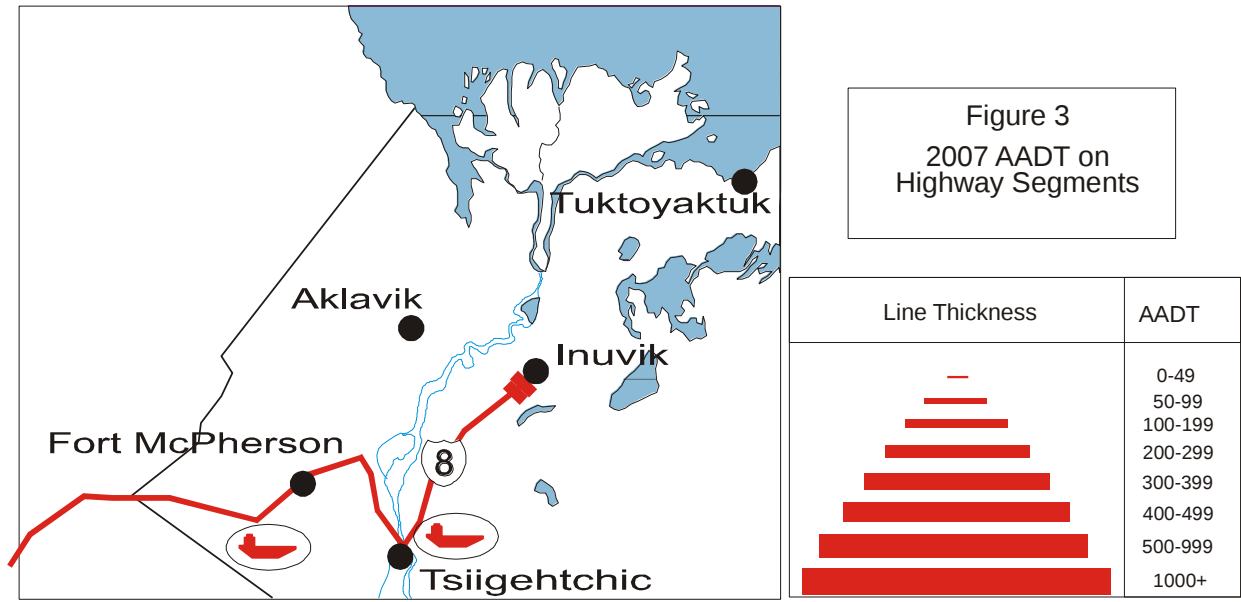


Table 3 Estimated Traffic on Northwest Territories Highways

Highway	Kilometre	Counter ID	Description	AADT								PSADT											
				2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998
1	58	1-58	15 km south of Alexandra Falls	270	280	280		250	250	240	230	220	210	340	350	390		380	420	390	350	340	320
1	85	1-85	1.2 km west of Enterprise	410	390	300		270	270	250	240	230	230	470	380	420		380	400	320	320	320	330
1	322	1-322	0.4 km west of Trout Lake Winter Road	60	60	70		60	60	60	60	**	50	60	60	90		80	90	80	80	**	80
1	477	1-477	5.2 km west of Fort Simpson Access on Highway 1	60	70	60		50	50	40	40	**	40	60	60	60		60	70	60	60	**	50
2	10	2-10	10 km north of Enterprise, south of Paradise Gardens	380	420	450		410	420	400	400	400	410	460	490	550		510	530	500	500	510	520
2	32	2-32	40 metres north of Highway 2 & 5 intersection	1790	1420	1460		1390	1420	1340	1340	**	1340	1860	1920	1920		1920	1970	1860	1860	**	1760
2	42	2-42	North of West Channel across bridge	2940	2130	2660		2530	2590	2440	2420	2400	2450	**	**	3130		3120	3200	3010	3010	3000	3050
3	2	3-2	2 km north of Highway 1 & 3 intersection, south of ferry	300	270	260		250	240	220	200	190	200	360	290	350		350	330	290	290	280	280
3	175	3-175	53 km north of Chan Lake, 62 km south of Edzo	300	210	210		210	210	190	180	180	180	280	**	290		290	280	270	260	**	**
3	240	3-240	3 km south of Rae access, south of Frank's Channel	780	780	650		650	640	590	570	550	560	770	860	710		710	700	670	650	**	**
3	324	3-324	21 km east of Boundry Creek	640	640	610		450	440	410	400	390	390	**	**	690		520	500	470	460	470	430
3	338	3-338	0.8 km west of Highway 3 and 4 intersection	5600	5680	5570		5570	5460	5060	4980	5010	4890	6120	6730	6460		6460	6330	6030	6030	6180	5740
4	1	4-1	1 km north of Highway 3 & 4 intersection	870	1240	1240	Data Not Available	1240	1240	1240	1230	1330	1460	1100	**	1600	Data Not Available	1600	1600	1600	1600	1830	1850
4	10	4-10	2.5 km east of Yellowknife River Bridge	610	730	730		730	720	**	**	770	**	950	950	950		950	**	**			
4	43	4-43	11 km east of Prelude Lake East Access	160	100	100		100	**	100	160	**	130	130	130	140		**	130				
5	1	5-1	1 km east of Highway 2 & 5 intersection	560	560	560		560	530	520	510	520	520	**	**	740		740	710	690	690	700	730
5	19	5-19	19 km east of Highway 2 & 5 intersection	210	150	170		170	160	160	170	170	170	230	180	230		230	220	220	220	210	220
5	65	5-65	5 km south of Highway 5 & 6 intersection	170	170	80		80	70	70	70	80	70	**	**	100		110	100	100	100	110	90
5	232	5-232	25km west of Fort Smith	130	130	130		130	120	120	120	**	110	**	**	200		200	190	180	180	**	140
5	257	5-257	6.1 km west of Fort Smith	420	420	420		410	390	390	390	390	380	**	**	530		530	510	500	480	480	460
6	30	6-30	8.5 km east of Pine Point Access	80	80	80		80	80	80	80	80	80	90	80	90		100	110	100	100	90	90
6	74	6-74	16 km west of Fort Resolution	110	100	120		110	100	110	100	100	110	130	130	130		140	140	130	130	120	140
7	35	7-35	2.6 km south of Fort Liard	110	140	120		120	120	120	**	**	120	**	**	130		130	130	130	**	**	130
7	253	7-253	0.3 km south of Highway 1 & 7 intersection	50	30	30		30	30	30	30	30	30	70	40	40		40	40	40	50	50	50
8	34	8-34	10 km west of Midway Lake	70	70	50		50	50	40	40	40	40	160	130	90		100	100	90	90	100	90
8	106	8-106	4.6 km north of Fort Mcpherson Access	110	90	100		80	80	80	80	90	90	150	130	140		180	170	150	160	180	170
8	243	8-243	1 km south of Cabin Creek	80	80	80		80	80	70	80	80	80	**	**	130		130	130	120	120	130	130
8	260	8-260	0.7 km north of airport access	740	740	740		730	690	630	630	630	630	**	**	760		760	900	830	850	930	880
8	268	8-268	1.3 km south of Inuvik	1370	1370	1370		1270	1210	1120	1120	1150	1150	**	**	1400		1300	1640	1510	1500	1650	1560

Note: See Appendix A for actual data obtained from each traffic counter for 2007.

** Insufficient data to calculate AADT/PSADT

AADT - Average Annual Daily Traffic

PSADT - Peak Summer Average Daily Traffic (June, July, August)

All values are estimated and rounded to the nearest 10.

Table 4 Traffic on Northwest Territories Access Roads (sorted by counter)

Community	Location (km)	Counter ID	Year	Monthly Average Daily Traffic												PSADT
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Kakisa	2	kak-2	2000	24	43	52	74	86	50			33	36	47		
			1999	27	27	38	60	89	53			52	38	27	25	
			1998				28	64	77	101	80	55	32	29	23	86
			1997	23	21	21			94	79	90	37	15	21	20	89
			1996	18	23	25	23	49	84	109	90	43	31	24	24	95
			1995	26			24		77	109	76	54	31	23	24	87
			1994	15	19	17		49	68	109	87	48	37		24	89
			1993	16		20	21	46	61	81	94	44	29	20	20	79
Rae	4.2	rae-4	2007						726	804	665	685	777	682	621	732
			2004		693	667										
			1998				433									
			1997							543	593	542	568			589
			1996	283				580			686	673	582	373		686
			1995							553	614	621	644	581	389	588
			1994			194							681			
			1993	584	237				550		467	298				506
Dettah	1	dvt-1	2007					422	313	255	176	158	169	153	114	248
			2001	56	161			283	284	256		216				274
			2000	48	34	54	95	261	310	211	278	290	277	235		266
			1999		44	53	282	277		245	270	289	293	246		266
			1998	73	65	57	31	121	156	134	121			259	212	139
			1997								126	98	241	252	186	127
			1996							237	211	252	258	262		231
			1995	48	42	44	118		260	215	212	250	240	217		227
			1994			52	130	269	228		252	248	228	125		254
			1993	48	43	55	212	223	210	198	190	211	222	248		199
Paradise Gardens	2	pgt-1	1996	78	90	93	109	111	157	160	172	141	122	103	99	163
			1995								143	134	109	94	78	143
			1994	69	65	68	96	110	138	128	140	123				135
			1993						114	97	109	103	87	76	73	107
Vee Lake	4.3	vee-4	2005			75	65	58	72	68	59	45	35	20		66
			2004	40	61	55		59								
			2003													
			2002	56							57	54	34	52	44	57
			2001						60	75	44		19			60
			2000													
			1999	43	82	70	58	39								
			1998	63	71	70	58	79	77	77	59	49	35	37	20	70
			1997						86	65	63	41	33			71
			1996						100	67	58	37	25	38		69
			1995							71	51	52	26	41		61
			1994						90	84	56	47	33			76
			1993					76	85	72	59	46	32	28	28	73
Cassidy Point	4	cas-4	1998								96	54	46	35		97
			1997							57	50	36	36			55
			1996							123	94	75	49	43		109
			1995										46	34		
			1994		75	88	177	84	96	102	82	67	53			93
			1993						90	100	80	64	50	44		97
Prelude Lake West	1	prw-1	1998							193	238	139	78	57		238
			1997						290	290	253	141	64			280
			1996						331	256	243	127	90	101		264
			1995										83	50		305
			1994													
			1993							239		117	85	63		232
Prelude Lake East	3	pre-3	2000						306							306
			1999					283	307	261						284
			1998													
			1997						5	88	83	74	59			86
			1996						116	83	76	78	62	58		86
			1995								68	65	48	29		68
			1994							85	71	64	54			76
			1993					93	91	86		82	72			88

Table 4 cont'd Traffic on Northwest Territories Access Roads (sorted by counter)

Community	Location (km)	Counter ID	Year	Monthly Average Daily Traffic												PSADT
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Hay River Dene Village	1	hrd-1	2005		86	83	178	479				546	378			
			2004	84	80	73										
			2001			36	404		287		623	469	121	441		455
			2000	14	37	52	304	416	453	400	421	469				427
			1999	32	37	126	357		356	399	425	167			33	405
			1998	62	40	48	267						420	301	45	
			1997	29	33	42			305	362				366	375	396
			1996	31	54	71	354	446	480	383	416	373	390	255	33	426
			1995	29	33	41	216		451	391	420	407	414	170	43	420
			1994	26	31	75	302							46	30	
			1993	26	27	137	376		411	356	365	333	344	234	50	
Fort Providence	2	ftp-2	2007	322	246	289	290	422	554	513	654		362	306	297	574
			2006	318	301	280	303	420	500	478			355	266	406	489
			2005		362	464	133	43	415	387	333		201	180		378
			2004	256	298											
			2003	260	269	264		306	353	515	551					472
			2002	277	243	248					457	375	334	279	289	457
			2001			208			324	352	365	336	207			347
			2000	315	421	270	219	299	259	254	210	194	200	139	119	241
			1999	316	423	259	309	662	239	205	176	170	154	149		201
			1998	240	276	271	397	315				309	328	254	49	
			1997			213			465	439	488	337	271			468
			1996	211	227	242	297	360	421	419	501	397	307	331	247	446
			1995	200	228	226	273	357	368	426	477	303	262	244		424
			1994	197	192	246	281	381	449	512	383	315	243	222	230	348
			1993	183	99	188	334	404	444	531	456	295	275	233	227	477
Fort Liard	1	fl-1	1998			242	175	207	332	405	326	249				365
			1997	166	218	211	238					132	89			
			1996		195	210				252	197	193	156		142	219
			1995	172	366	339	213	220	209	256	297	220	172	135	134	254
			1994	140	161	197	169	206			231	190	199	162	172	232
			1993	155	165	166	170	180	204	211	193	180	171	162	146	202
Fort Simpson	1	sim-1	2007	1205	1335	1261	954	1343	1323	1404	1349	1227	1258	1248	1340	1369
			2006	1075		1176	1126	1293	1455	1386	1397			1445	1341	1416
			2005							1292	1493	1313	1202	1107	1041	1393
			2004													
			2003			1289	1302									
			2001				430					269	354			
			2000	961	991	1093	1110				911					911
			1999	960	989	1076	1114	891								
			1998									1235	1128	976	1007	
			1997	478	895	866			1100	1215	1143	1208	978			1176
Jean Marie River	1	jmar	2007	37	39	18	17	28	34	22	18	16	23	39	13	25
			2006			22	85	71	32	33	13	29			25	26
			2005							24	23	33	23			24
			2004													
			2003			34	36									
			2001									19	27	81		
			2000				16	22	30	23	17					24
			1999													
			1998	12	18	18	14	14	62		89	70	49			84
			1997	14	13										17	

Note: Blanks indicate insufficient data to calculate monthly ADT.

Table 5 Monthly Average Daily Traffic on Northwest Territories Winter Roads (sorted by road)

Winter Road	Location (km)	Counter ID	Year	Opening Date	Closing Date	Number Days	Monthly Average Daily Traffic						ADT
							Dec	Jan	Feb	March	April	May	
Akavik	1	akd-1	1996	19-Dec-1995	26-Apr-1996	129			32	49	43		41
			1995	23-Dec-1994	24-Apr-1995	122							
			1994	18-Jan-1994	28-Apr-1994	100							
			1993	15-Dec-1992	2-May-1993	138			53	61	70	32	54
Colville Lake	1	col-1	2008	14-Dec-2007	9-Apr-2008	117		11	21	21			18
			2007	4-Jan-2007	31-Mar-2007	86		18	14	27			20
			2006	13-Jan-2006	22-Mar-2006	68		4	14	17			14
			2005	13-Dec-2004	31-Mar-2005	108			54	54			54
Deline	1	deln	2007	19-Jan-2007	31-Mar-2007	71		36	32	43			37
			2006	25-Jan-2006	22-Mar-2006	56		54	49	39			45
			1998	3-Feb-1998	16-Mar-1998	41		13	15				15
			1997	4-Feb-1997	17-Mar-1997	41		110	73	46			76
			1996	18-Jan-1996	20-Mar-1996	62							
			1995	20-Jan-1995	26-Mar-1995	65			39	35			37
			1994	25-Jan-1994	30-Mar-1994	64		42	19	30			30
			1993	18-Jan-1993	29-Mar-1993	70		16	23	35	21		23
Deltah Ice Road	at entrance (Yellowknife Side)	deltah	2008	21-Dec-2007	11-Apr-2008	112		533	501	526	477		509
			2007	4-Jan-2007	12-Apr-2007	98			496	461			479
			2006	20-Dec-2005	16-Apr-2006	117	686	644	712	814	764		726
			2005	10-Dec-2004	11-Apr-2005	122	652	624	829	973			791
Gameti	72	lacr	2008	28-Feb-2008	11-Apr-2008	43				43	55		49
			2007	28-Feb-2007	12-Apr-2007	43				43	55		49
			1997	7-Feb-1997	25-Mar-1997	46		78	170	152			133
			1996	2-Feb-1996	20-Mar-1996	47							
			1995	13-Jan-1995	22-Mar-1995	68							
Highway No. 1 (Wrigley)	695	1-695	2006	19-Dec-2005	7-Apr-2006	109		53	74	85			76
			2005	13-Dec-2004	31-Mar-2005	108		39	49	51			49
Highway No. 1 (Deline Junction)	914	1-914	2008	24-Dec-2007	9-Apr-2008	107		27	96	84			
			2007	20-Dec-2006	9-Apr-2007	110		77	95	77			83
			2006	19-Dec-2005	7-Apr-2006	109		44	50	45			47
			2005	4-Jan-2005	31-Mar-2005	86		21	70	64			63
			1998	6-Feb-1998	16-Mar-1998	38		10	7				8
			1997	14-Feb-1997	17-Mar-1997	31			7	34	17		19
			1996	26-Jan-1996	20-Mar-1996	54							
			1995	12-Jan-1995	19-Mar-1995	66			29	35			32
			1994	23-Dec-1993	29-Mar-1994	96		12	20	23			19
			1993	11-Jan-1993	26-Mar-1993	74			27	27			27
Highway No. 1 (Norman Wells South)	1022	1-102	2008	8-Dec-2007	9-Apr-2008	123		45	98	100			81
			2007	21-Dec-2006	9-Apr-2007	109		81	87	113	57		85
			2006	19-Dec-2005	7-Apr-2006	109		98	68	77			74
			2005	4-Jan-2005	31-Mar-2005	86		51	70	86			80
			1999	31-Dec-1998	16-Mar-1999	75			33				33
			1998	23-Jan-1998	16-Mar-1998	52			107	139			112
			1997	14-Jan-1997	17-Mar-1997	62			9	10			10
			1996	8-Jan-1996	20-Mar-1996	72							
			1995	18-Jan-1995	26-Mar-1995	67							
			1994	29-Dec-1993	30-Mar-1994	91		40	49	55			48
			1993	14-Jan-1993	29-Mar-1993	74		16	19	18	4		14

Table 5 Monthly Average Daily Traffic on Northwest Territories Winter Roads (sorted by road) Continued

Highway No. 1 (Norman Wells North)	1031	1-104	2008	8-Dec-2007	9-Apr-2008	123		34	62	62			53
			2007	21-Dec-2006	9-Apr-2007	109		59	47	66			57
			2006	29-Dec-2005	7-Apr-2006	99			55	52			53
			1998	14-Jan-1998	16-Mar-1998	61		14	10	10	9		10
			1997	14-Jan-1997	17-Mar-1997	62			66	42			54
			1996	8-Jan-1996	20-Mar-1996	72							
			1995	19-Jan-1995	26-Mar-1995	66							
			1994	29-Dec-1993	31-Mar-1994	92		19	20	24			21
Nahanni Butte	2	nbwr	1997	9-Dec-1996	17-Apr-1997	129		23	40	69	13		36
			1996	1-Dec-1995	25-Mar-1996	115		11	10	19			13
			1995	1-Dec-1994	26-Mar-1995	115		10	17	39			22
			1994	18-Dec-1993	28-Mar-1994	100			20	18			19
			1993	15-Dec-1992	27-Mar-1993	102			13	12			12
Tibbitt to Contwoyto	0.3	lupin	2008	28-Jan-2008	7-Apr-2008	70			553	349	49		317
			2007	28-Jan-2007	8-Apr-2007	70		251	482	323	67		281
			2006	1-Feb-2006	23-Mar-2006	50			167	243			201
TiChö	0.1	tiChö	2008	8-Feb-2008	11-Apr-2008	63			100	163	148		137
			2007	3-Feb-2007	12-Apr-2007	68			64	115	188		122
			2006	7-Feb-2006	16-Apr-2006	68			71	77			74
Trout Lake	1	thwr	2002	14-Jan-2002	18-Mar-2002	63		6	7				7
			2001	18-Dec-2000	15-Mar-2001	87							
			2000	11-Jan-2000	15-Mar-2000	64							
			1999	21-Dec-1998	16-Mar-1999	85		9	7	9			8
			1998	20-Jan-1998	16-Mar-1998	55				5			5
			1997	11-Jan-1997	17-Mar-1997	65			5	9			7
			1996	20-Jan-1996	15-Mar-1996	55	4	6	11	9			8
			1995	22-Dec-1994	22-Mar-1995	90			8				8
			1994	18-Jan-1994	31-Mar-1994	72							
			1993	24-Dec-1992	24-Mar-1993	90		8	10	12			10
Tuktoyaktuk	1	tuk-1	1997	20-Dec-1996	25-Apr-1997	126		30	44	61			45
			1996	19-Dec-1995	19-Apr-1996	122							
			1995	22-Dec-1994	24-Apr-1995	123			74				74
			1994	5-Jan-1994	28-Apr-1994	113							
			1993	18-Dec-1992	2-May-1993	135		32	83	108	101		81
Wha'ti	72	ehwr	1997	20-Jan-1997	25-Mar-1997	64		31	45	64			47
			1996	15-Jan-1996	20-Mar-1996	65							
			1995	13-Jan-1995	29-Mar-1995	75							
			1994	18-Feb-1994	18-Apr-1994	59							
			1993	27-Jan-1993	2-Apr-1993	65				16	14		15
Note: Blanks may indicate insufficient data to calculate monthly ADT, road closed, or counter not installed.													
Wood Buffalo National Park		wbrp	2004						29	25			27
			2000					7	15	17			13
			1997					16	20	20	8		16
			1996				22	18	20	24			21
			1995				17	17	15				16
			1994						13	3			8
			1993					16	17	14			16

Note: Blanks may indicate insufficient data to calculate monthly ADT, road closed, or counter not installed.

		Water Roads		Ft. Simpson - Whytey (Highway #1)		Whytey - Tuttle (Highway #1)		Tuttle - Norman Wells (Highway #1)		Norman Wells - Ft. Good Hope (Highway #1)		Cochise Lake Access		Dahlgren Access		Tutu Lake Access		Mikami Butte Access		Jean Marie River Access		Wine Tl Access		Gentle Access		Dahlgren Access		Tutu Lake Access		Akwik Access		Ice Bridges		Mackenzie River Crossing at Fort Simpson		Mackenzie River Crossing at Peaville		Mackenzie River Crossing at Camasat		Mining Roads		Lynch Mine	
1983/84	Open	12-Jan	13-Jan	13-Jan								16-Jan	18-Jan	16-Jan	6-Dec	4-Jan	16-Jan	13-Dec	16-Jan	22-Dec	Open	16-Dec	3-Dec	18-Nov	10-Nov	12-Jan	Open	17-Feb															
	Closed	13-Apr	4-Apr	4-Apr								4-Apr	31-Mar	31-Mar	31-Mar	31-Mar	31-Mar	13-Apr	2-May	2-May	Closed	12-Apr	18-Apr	8-May	8-May	13-Apr	Closed	14-Apr															
1984/85	Open	27-Dec	15-Jan	15-Jan								15-Jan	21-Jan	20-Dec	9-Nov	18-Dec	14-Jan	20-Nov	11-Dec	24-Dec	Open	13-Dec	19-Nov	15-Nov	7-Nov	27-Dec	Open	30-Jan															
	Closed	20-Mar	20-Mar	20-Mar								20-Mar	20-Mar	20-Mar	6-Nov	20-Mar	20-Mar	20-Mar	1-May	4-May	Closed	22-Apr	2-May	11-May	11-May	20-Mar	Closed	8-Apr															
1985/86	Open	18-Dec	25-Jan	23-Dec								17-Jan	6-Jan	30-Dec	6-Nov	18-Dec	11-Jan	28-Nov	12-Dec	12-Dec	Open	13-Dec	14-Nov	14-Nov	6-Nov	18-Dec	Open	22-Jan															
	Closed	3-Apr	3-Apr	3-Apr								3-Apr	3-Apr	3-Apr	3-Apr	3-Apr	2-Apr	28-Apr	2-May	2-May	Closed	15-Apr	26-Apr	9-May	10-May	3-Apr	Closed	7-Apr															
1986/87	Open	17-Dec	13-Jan	19-Jan								9-Jan	10-Dec	15-Dec	18-Nov	20-Dec	12-Jan	21-Nov	5-Jan	5-Jan	Open	17-Dec	25-Nov	19-Nov	4-Nov	17-Dec	Open	14-Jan															
	Closed	1-Apr	25-Mar	26-Mar								26-Mar	30-Mar	30-Mar	31-Mar	31-Mar	31-Mar	15-Apr	8-May	7-May	Closed	16-Apr	21-Apr	9-May	9-May	3-Apr	Closed	1-Apr															
1987/88	Open	21-Dec	11-Jan	8-Jan								13-Jan	5-Jan	6-Jan	25-Nov	15-Jan	8-Feb	18-Dec	15-Feb	17-Feb	Open	30-Dec	29-Nov	16-Dec	18-Nov	21-Dec	Open	N/A															
	Closed	14-Apr	28-Mar	5-Apr								5-Apr	5-Apr	31-Mar	5-Apr	5-Apr	5-Apr	15-Apr	19-Apr	19-Apr	Closed	16-Apr	19-Apr	11-May	12-May	14-Apr	Closed	N/A															
1988/89	Open	15-Dec	16-Jan	16-Jan								27-Jan	11-Jan	10-Jan	16-Dec	23-Jan	3-Feb	19-Dec	7-Feb	18-Jan	Open	21-Dec	8-Dec	28-Nov	15-Nov	15-Dec	Open	12-Feb															
	Closed	14-Apr	5-Apr	10-Apr								10-Apr	7-Apr	7-Apr	7-Apr	5-Apr	5-Apr	14-Apr	3-May	3-May	Closed	15-Apr	14-Apr	29-Apr	29-Apr	14-Apr	Closed	9-Apr															
1989/90	Open	12-Dec	15-Jan	16-Dec								12-Jan	12-Jan	21-Dec	28-Nov	19-Jan	2-Feb	13-Dec	3-Jan	23-Dec	Open	12-Dec	1-Nov	18-Dec	20-Nov	12-Dec	Open	14-Feb															
	Closed	10-Apr	30-Mar	5-Apr								4-Apr	30-Mar	30-Mar	30-Mar	10-Apr	10-Apr	12-Apr	7-May	7-May	Closed	17-Apr	14-Apr	3-May	1-May	10-Apr	Closed	7-Apr															
1990/91	Open	12-Dec	8-Jan	8-Jan								7-Feb	17-Dec	12-Dec	20-Nov	16-Jan	22-Jan	4-Dec	23-Dec	21-Dec	Open	28-Nov	1-Nov	24-Nov	16-Nov	12-Dec	Open	1-Feb															
	Closed	13-Apr	31-Mar	8-Apr								4-Apr	4-Apr	4-Apr	4-Apr	8-Apr	8-Apr	12-Apr	25-Apr	25-Apr	Closed	19-Apr	13-Apr	7-May	8-May	13-Apr	Closed	22-Mar															
1991/92	Open	2-D	20-Dec	20-Dec								24-Jan	10-Jan	9-Jan	13-Nov	15-Jan	24-Jan	9-Dec	5-Dec	9-Dec	Open	12-Dec	9-Nov	20-Nov	13-Nov	2-Dec	Open	23-Jan															
	Closed	27-Apr	25-Mar	4-Apr								31-Mar	24-Mar	22-Mar	27-Mar	7-Apr	7-Apr	23-Apr	26-Apr	27-Apr	Closed	25-Apr	26-Apr	30-Apr	30-Apr	27-Apr	Closed	13-Mar															
1992/93	Open	9-Dec	11-Jan	11-Jan								18-Jan	24-Dec	15-Dec	4-Nov	27-Jan	19-Feb	18-Dec	18-Dec	15-Dec	Open	22-Dec	2-Dec	23-Nov	6-Nov	9-Dec	Open	28-Jan															

Table 7 Truck Traffic on the Tibbitt to Contwoyto Winter Road

		Lupin Mine ⁽¹⁾	BHP Diamonds Ekati Mine	Diavik Diamond Mines Inc.	DeBeers Snap Lake	Tahera	Mineral Exploration Traffic	Total
2008	Total Tonnage	0	72,233	138,051	43,244	2,300	2,513	258,341
	Total Trucks	0	1,840	4,239	1,250	49	77	7,455
2007	Total Tonnage	2,059	121,716	133,267	64,505	17,566	4,172	343,285
	Total Trucks	55	3,937	4,573	2,355	500	236	11,656
2006 ⁽²⁾	Total Tonnage	1,071	82,447	55,750	34,852	7,821	2,435	184,376
	Total Trucks	35	3,152	2,094	1,623	258	148	7,310
2005	Total Tonnage	7,709	117,661	94,303	18,089		14,771	252,533
	Total Trucks	251	3,434	2,848	703		614	7,850
2004	Total Tonnage	11,097	105,127	53,960	6,852		2,108	179,144
	Total Trucks	288	2,984	1,572	295		117	5,256
2003	Total Tonnage	27,832	101,990	67,394			1,602	198,818
	Total Trucks	702	3,003	2,202			87	5,994
2002	Total Tonnage	27,315	132,077	93,009			3,083	255,484
	Total Trucks	698	3,913	3,339			218	8,168
2001	Total Tonnage	26,239	99,297	111,506			8,545	245,587
	Total Trucks	688	2,912	4,127			363	8,090
2000	Total Tonnage	21,672	66,609	25,068			12,031	125,380
	Total Trucks	557			3,402			3,959
1999	Total Tonnage	3,356	41,453				12,399	57,208
	Total Trucks	85			1,759			1,844
1998 ⁽³⁾	Total Tonnage	4,220	73,712				4,056	81,988
	Total Trucks	112			2,431			2,543

The number of trucks indicated are "loaded truckloads" and therefore represents one-way traffic. To determine the total truck traffic these numbers should be multiplied by 2.

(1) Winter road data provided by the Tibbitt to Contwoyto Winter Road Joint Venture.

Road is typically open during most of January to March.

2008 season	70 days (January 28 - April 7)
2007 season	70 days (January 28 - April 8)
2006 season	50 days (February 5 - March 26)
2005 season	70 days (January 26 - April 5)
2004 season	64 days (January 28 - March 31)
2003 season	61 days (February 1 - April 2)
2002 season	81 days (January 26 - April 16)
2001 season	72 days (February 1 - April 13)
2000 season	65 days (January 29 - April 3)
1999 season	58 days (February 1 - March 30)
1998 season	76 days (January 19 - April 4)

Notes: BHP Diamond Mines Ekati Mine went into production in October of 1998.
Diavik Diamond Mine began construction of the mine site in 2000.
Tahera Diamond Mine suspended operations in February 2008.

(2) Climatically, 2006 was one of the warmest winters on record.

Winter road never reached full load bearing capacity.

(3) For data preceeding 1998, please see Appendix B "Historical Data"

Table 8 Estimated Vehicle Kilometres Traveled on NWT Highways

Hwy	km		Length (km)	AADT										Vehicle Kilometres Traveled (Millions)									
				2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998
1	58	Alberta Border to Enterprise	84.2	270	280	280		250	250	240	230	220	210	8.3	8.7	8.7		7.6	7.8	7.4	7.1	6.7	6.6
1	85	Enterprise to Junction with Hwy #3	103.4	410	390	300		270	270	250	240	230	230	15.4	14.8	11.4		10.3	10.1	9.4	9.2	8.6	8.8
		1 Arterial	187.6											23.6	23.5	20.1		17.9	17.9	16.8	16.2	15.3	15.4
2	10	Enterprise to Junction with Hwy #5	37.5	380	420	450		410	420	400	400	400	410	5.3	5.7	6.1		5.6	5.8	5.5	5.4	5.5	5.6
2	32	Junction with Hwy #5 to Hay River (West Channel Bridge)	6.2	1790	1420	1460		1390	1420	1340	1340	1340	1340	4.1	3.2	3.3		3.1	3.2	3.0	3.0	3.0	3.0
		2 Arterial	43.7											9.3	8.9	9.4		8.7	9.0	8.5	8.5	8.5	8.7
3	2	Junction with Hwy #1 to Fort Providence Access	44.1	300	270	260		250	240	220	200	190	200	4.7	4.3	4.2		4.0	3.9	3.5	3.2	3.0	3.2
3	175	Fort Providence Access to Edzo Access	192.4	300	210	210		210	210	190	180	180	180	20.9	14.8	14.8		14.8	14.5	13.5	12.9	12.9	12.9
3	240	Edzo Access to Rae Access	8.5	780	780	650		650	640	590	570	550	560	2.4	2.4	2.0		2.0	2.0	1.8	1.8	1.7	1.7
3	324	Rae Access to Yellowknife Access (Old Airport Road)	88.5	640	640	610		450	440	410	400	390	390	20.7	20.7	14.6		14.6	14.3	13.1	12.9	12.7	12.7
3	340	Old Airport Road Junction to Junction with Hwy #4	5.3	5600	5680	5570		5570	5460	5060	4980	5010	4890	10.8	11.0	10.8		10.8	10.6	9.8	9.6	9.7	9.5
		3 Arterial	338.8											59.5	53.2	46.4		46.1	45.2	41.7	40.3	40.1	39.9
		Total Arterial	570.1											92.5	85.6	75.9		72.8	72.1	67.0	65.0	63.9	64.0
1	322	Junction with Hwy #3 to Junction with Hwy #7	268.8	60	60	70		60	60	60	60	50	50	5.4	6.1	7.2		6.1	6.3	6.1	5.6	5.0	5.0
*1	468	Junction with Hwy #7 to Fort Simpson Access	14.9	240	240	240		240	240	240	240	240	240	1.3	1.3	1.3		1.3	1.3	1.3	1.3	1.3	1.3
1	477	Fort Simpson Access to Mackenzie River	79.2	60	70	60		40	50	40	40	40	40	1.6	1.9	1.6		1.2	1.5	1.2	1.2	1.2	1.2
		1 Collector	362.9											8.3	9.3	10.1		8.6	9.1	8.6	8.1	7.5	7.5
4	1	Junction with Hwy #3 to Royal Oak Mine	5	870	1240	1240		1240	1240	1240	1230	1330	1460	1.6	2.3	2.3		2.3	2.3	2.3	2.2	2.4	2.7
4	10	Royal Oak Mine to Prelude Lake East Access	11.8	610	730	730		730	730	730	720	680	680	2.6	3.1	3.1		3.1	3.1	3.1	3.1	2.9	2.9
4	43	Prelude Lake East Access to Tibbitt Lake	52.4	160	100	100		100	100	100	100	100	100	3.0	1.9	1.9		1.9	1.9	1.9	1.9	1.9	1.9
		4 Collector	69.2											7.2	7.3	7.3		7.3	7.3	7.3	7.2	7.2	7.5
5	1	Junction with Hwy #2 to Hay River Indian Village Access	2.5	690	560	560		560	530	520	510	520	520	0.6	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.5
5	19	Hay River Indian Village Access to Birch Creek	24.8	210	150	170		170	160	160	170	170	170	1.9	1.4	1.6		1.6	1.5	1.4	1.5	1.6	1.6
*5	48	Birch Creek to Junction with Hwy #6	33.1	170	470	170		170	170	170	170	170	170	1.5	1.5	1.5		1.5	1.5	1.5	1.5	1.5	1.5
5	65	Junction with Hwy #6 to Salt River Village Access Road	187.8	90	70	80		80	70	70	70	80	70	6.4	4.5	5.3		5.5	5.0	4.8	5.0	5.1	4.9
5	232	Salt River Village Access Road to Trout Street	13.5	130	150	130		130	120	120	120	110	110	0.6	0.6	0.6		0.6	0.6	0.6	0.5	0.5	0.5
5	257	Fort Smith Access (Trout St.) to King St. Intersection	4.3	420	420	420		420	390	390	390	390	380	0.7	0.7	0.7		0.7	0.6	0.6	0.6	0.6	0.6
		5 Collector	266											11.7	9.2	10.3		10.4	9.7	9.4	9.7	9.9	9.6
6	30	Junction with Hwy #5 to Little Buffalo Village Road	68.3	80	80	80		80	80	80	80	80	80	2.1	1.9	1.9		2.0	2.0	1.9	2.0	1.9	1.9
6	74	Little Buffalo Village Road to Fort Resolution	21.7	110	100	120		110	100	110	100	100	110	0.9	0.8	0.9		0.8	0.8	0.8	0.8	0.8	0.8
		6 Collector	90											2.9	2.6	2.9		2.9	2.8	2.7	2.8	2.7	2.8
7	35	BC Border to Fort Liard	37.6	110	140	120		120	120	120	120	120	120	1.5	1.9	1.6		1.6	1.6	1.6	1.6	1.6	1.6
7	253	Fort Liard to Junction with Hwy #1	216.5	50	30	30		30	30	30	30	30	30	4.0	2.7	2.7		2.7	2.6	2.4	2.5	2.7	2.7
		7 Collector	254.1											5.5	4.6	4.3		4.3	4.3	4.1	4.1	4.3	4.3
8	34	Yukon Border to Fort McPherson Access	85.4	70	70	50		50	50	40	40	40	40	2.2	2.2	1.6		1.6	1.6	1.1	1.1	1.1	1.1
8	90	Fort McPherson Access to Mackenzie River Ferry	57.2	110	90	100		80	80	80	90	90	90	2.3	1.9	2.1		1.7	1.8	1.8	1.8	1.8	1.6
8	243	Mackenzie River Ferry to Airport Access Road	116.7	80	80	80		80	80	70	80	90	80	3.3	3.3	3.3		3.3	3.3	3.2	3.4	3.8	3.4
8	259	Airport Access Road to Tuk Park Access Road	6.1	740	740	740		740	690	630	630	630	630	1.6	1.6	1.6		1.6	1.5	1.4	1.4	1.4	1.4
8	268	Tuk Park Access Road to Inuvik	3.9	1370	1370	1370		1270	1210	1120	1120	1150	1150	1.9	1.9	1.9		1.8	1.7	1.6	1.6	1.6	1.5
		8 collector	269.3											11.4	11.0	10.6		10.0	9.9	9.0	9.3	9.8	9.1
		Total Collector	1312											47.1	44.1	45.4		43.5	43.1	41.2	41.2	41.3	40.6
		Total Vehicle Kilometres Travelled												139.6	129.6	121.4		116.3	115.3	108.2	106.2	105.2	104.7

Note: * denotes counter has been taken out of service

Percent increase from 1998 to 1999 = 0.5% (Arterial increase = -0.2%; Collector increase = 1.6%)

Percent increase from 1999 to 2000 = 1% (Arterial increase = 1.7%; Collector increase = -0.2%)

Percent increase from 2000 to 2001 = 1.9% (Arterial increase = 3.1%; Collector increase = -0.1%)

Percent increase from 2001 to 2002 = 6.5% (Arterial increase = 7.6%; Collector increase = 4.8%)

Percent increase from 2002 to 2003 = 0.9% (Arterial increase = 0.9%; Collector increase = 1%)

Percent increase from 2003 to 2005 = 4.3% (Arterial increase = 4.3%; Collector increase = 4.3%)

Percent increase from 2005 to 2006 = 6.8% (Arterial increase = 12.7%; Collector increase = -3%)

Percent increase from 2006 to 2007 = 7.7% (Arterial increase = 8.1%; Collector increase = 6.9%)

Average annual percent increase from 1998 to 2007 = 3.7% (Arterial increase = 4.9%; Collector increase = 1.8%)

Vehicle Kilometres Travelled (VKT) is a unit for measuring the amount of traffic on a road. It is calculated by multiplying the AADT by the length of the road.

[i.e. (number of vehicles)(number of kilometres assumed driven)=vehicle kilometres travelled. VKT indicates usage of a road and is typically used to calculate collision rates.

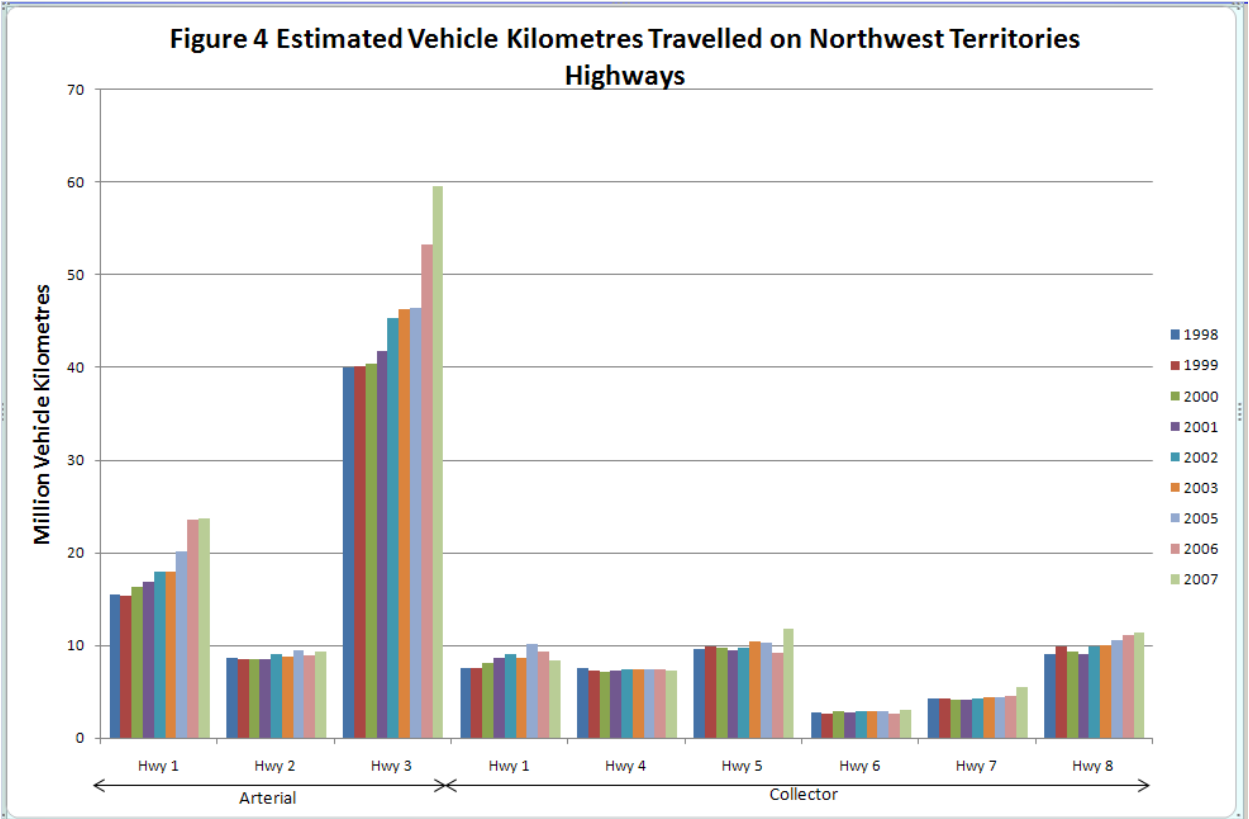
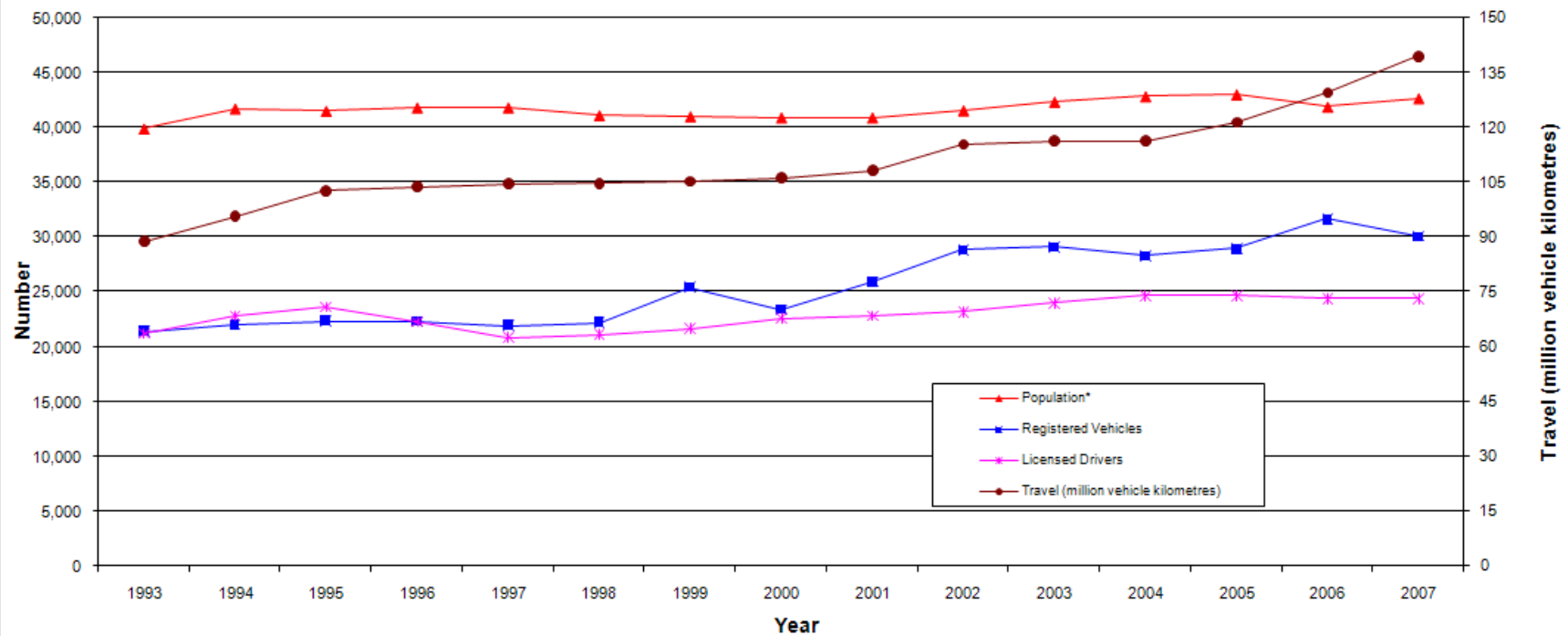


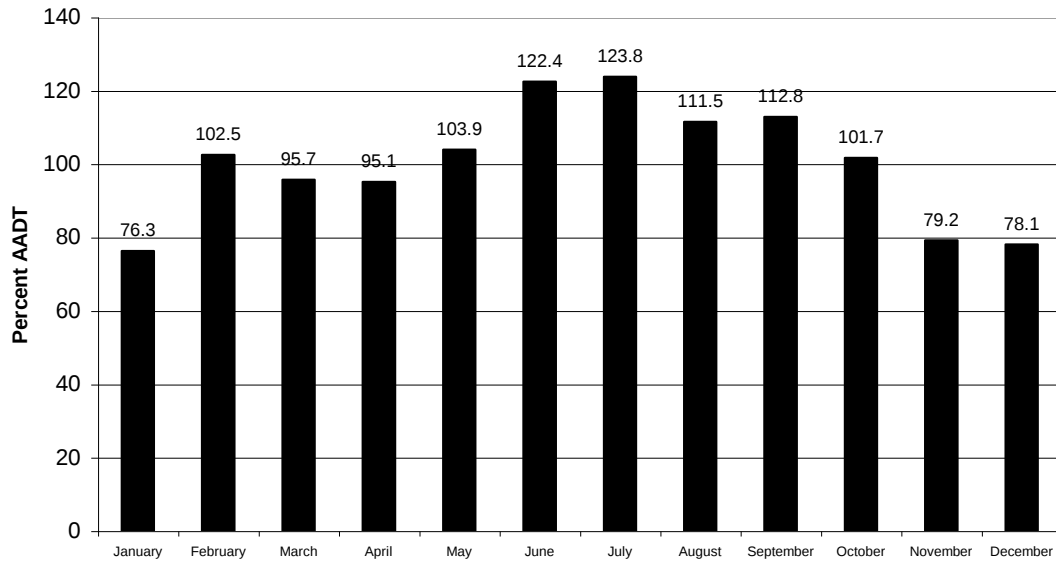
Figure 5 Yearly Trend in Road-Related Indicators



Indicators	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Population*	39,900	41,700	41,500	41,800	41,800	41,100	41,000	40,900	40,900	41,549	42,321	42,810	42,982	41,861	42,637
Registered Vehicles	21,391	22,000	22,350	22,278	21,956	22,201	25,426	23,371	25,936	28,856	29,106	28,305	28,934	31,664	30,078
Licensed Drivers	21,218	22,853	23,635	22,297	20,850	21,112	21,669	22,626	22,838	23,223	24,040	24,641	24,703	24,432	24,442
Travel (million vehicle kilom	88.7	95.6	102.7	103.8	104.6	104.7	105.2	106.2	108.2	115.3	116.3	116.3	121.4	129.6	139.6

*Source: Northwest Territories Stats Bureau

Figure 6
Distribution of Monthly Traffic
Typical Near Urban Highway
(Hwy 3, Km 338)



Typical Rural Highway
(Hwy 5, Km 65)

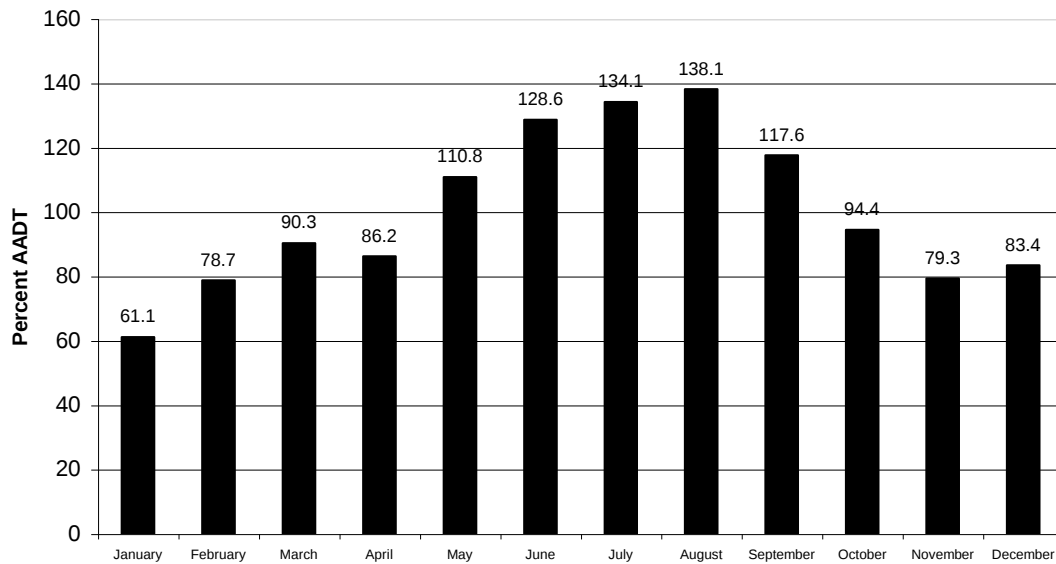
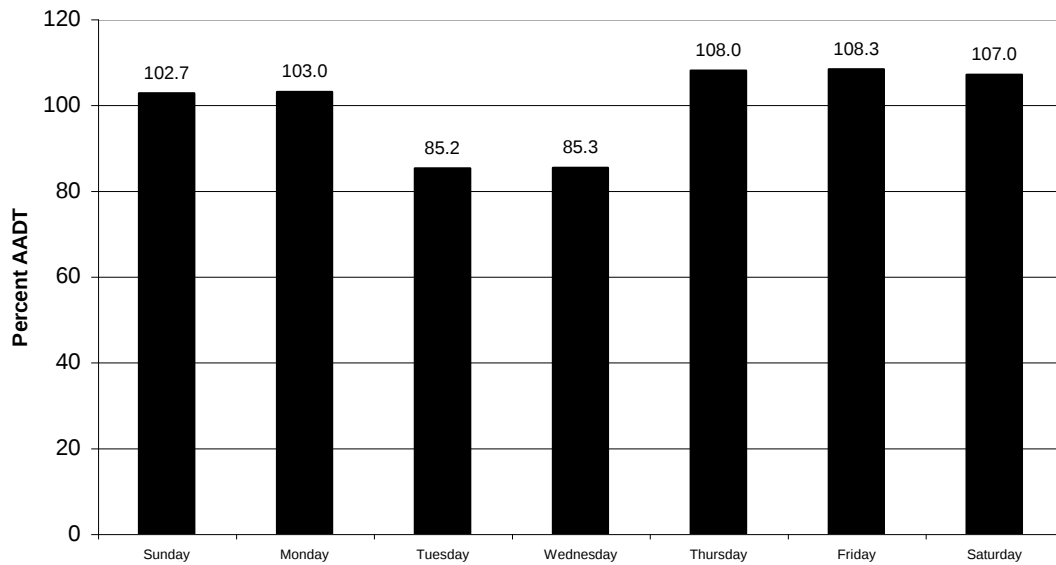


Figure 7
Distribution of Daily Traffic
Typical Near Urban Highway
(Hwy 3, Km 338)



Typical Rural Highway
(Hwy 5, Km 65)

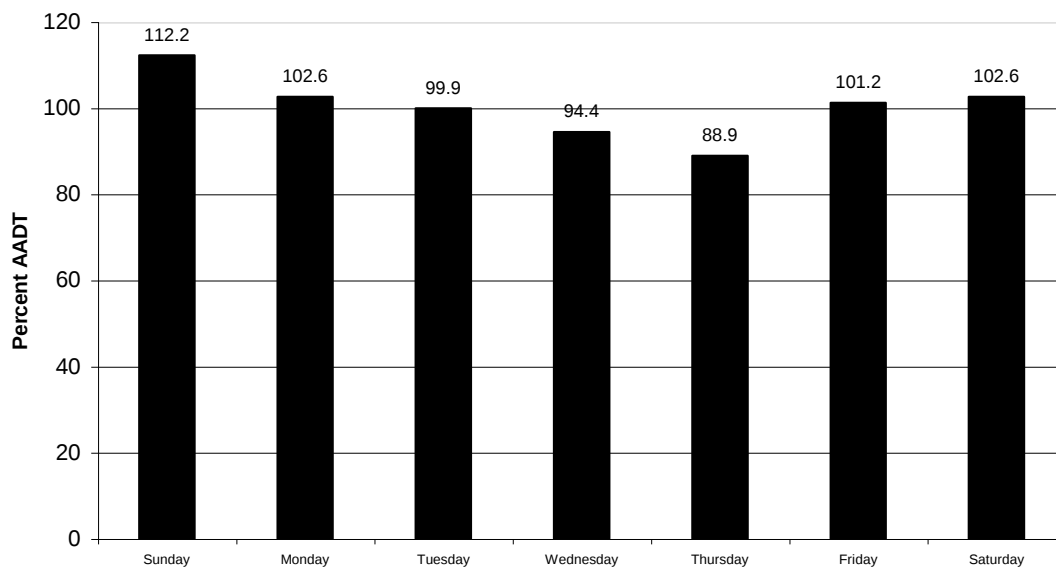
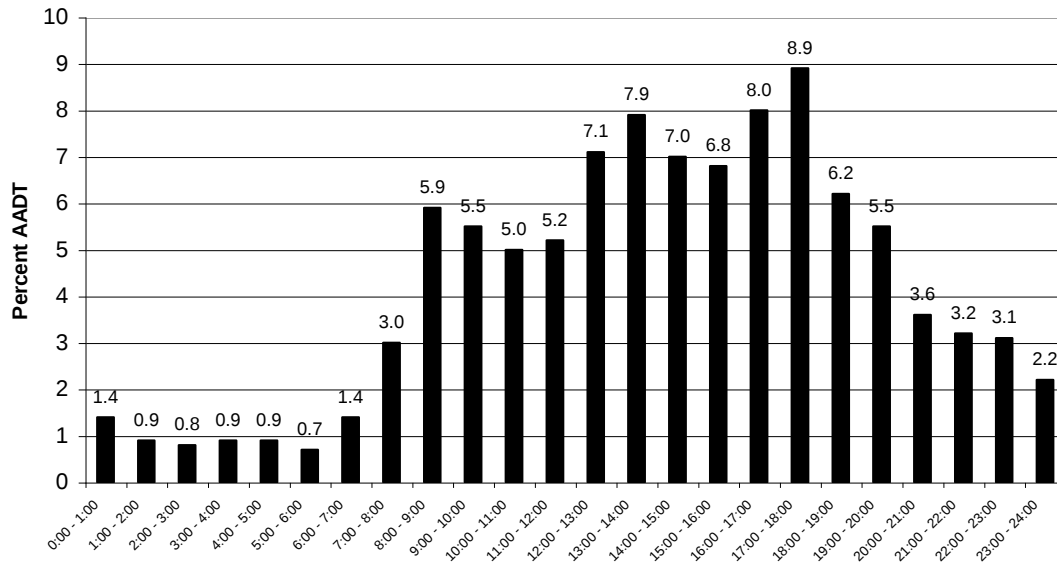


Figure 8
Distribution of Hourly Traffic
Typical Near Urban Highway
(Hwy 3, Km 338)



Typical Rural Highway
(Hwy 5, Km 65)

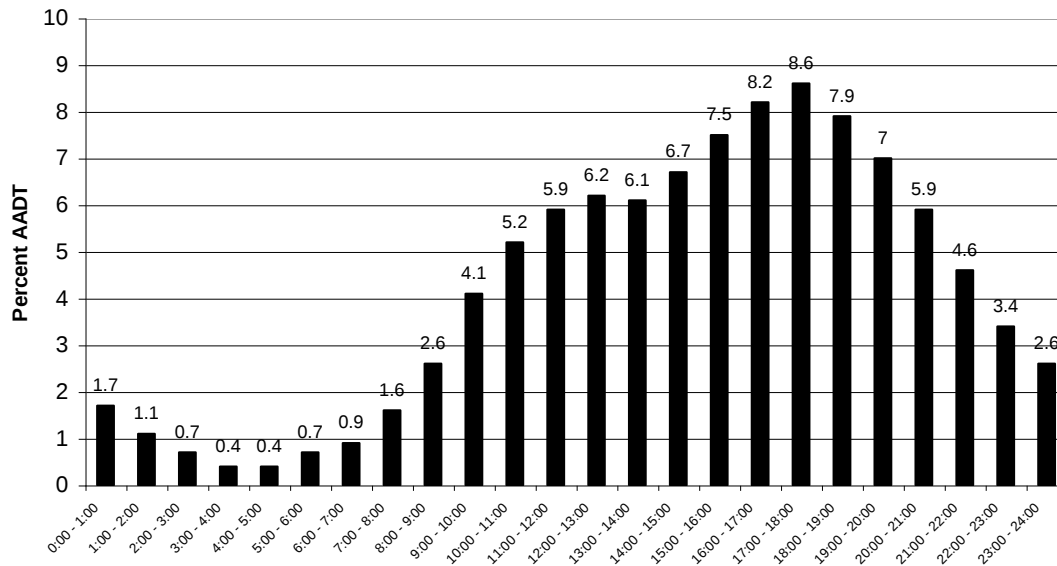


Figure 9
Average Daily Traffic on Highway Ferries

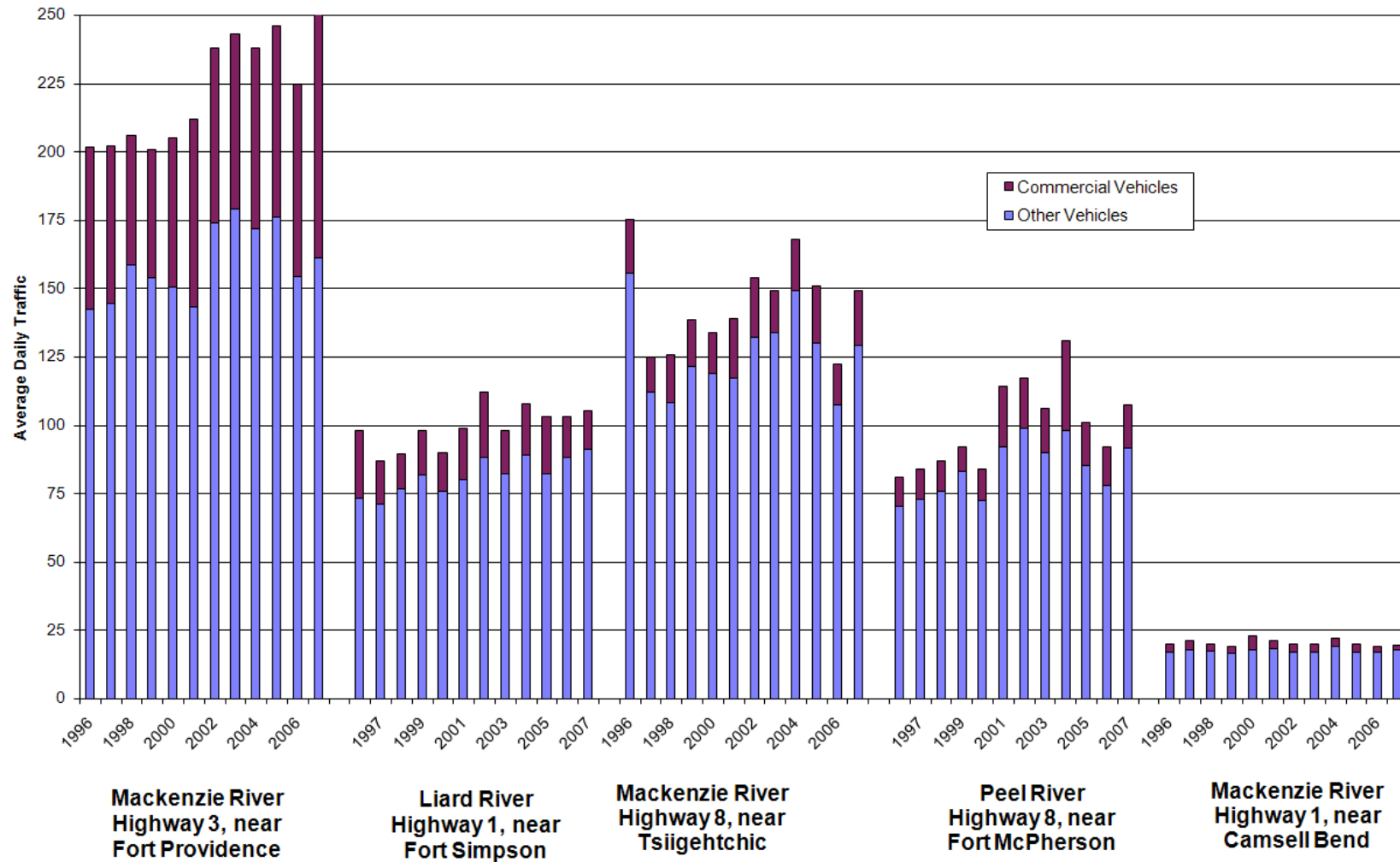


Table 9 Average Daily Traffic on Highway Ferries

Ferry Crossing	Location	Ferry	Vehicle Type	Year											
				2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Dory Point	Highway 3, near Fort Providence	M.V. Merv Hardie	Commercial Vehicles	93	70	70	66	64	64	69	55	47	47	58	59
			Light Vehicles	142	138	159	154	159	155	130	134	136	141	130	129
			Trailers Towed	19	17	17	18	20	19	13	17	18	17	15	14
			Total	254	225	246	238	243	238	212	205	201	206	202	202
Liard River	Highway 1, near Fort Simpson	M.V. Lafferty	Commercial Vehicles	14	15	21	19	16	24	19	14	16	13	16	25
			Light Vehicles	84	81	76	82	76	81	75	70	76	72	66	68
			Trailers Towed	7	7	6	7	6	7	5	6	6	5	5	6
			Total	105	103	103	108	98	112	99	90	98	90	87	98
Mackenzie River	Highway 8, near Tsiigehtchic	M.V. Louis Cardinal	Commercial Vehicles	20	15	21	19	15	22	22	15	17	18	13	20
			Light Vehicles	119	99	119	135	127	119	105	106	106	93	97	139
			Trailers Towed	11	8	11	14	7	13	12	13	15	15	15	17
			Total	149	122	151	168	149	154	139	134	138	126	125	175
Peel River	Highway 8, near Fort McPherson	C.F. Abraham Francis	Commercial Vehicles	16	14	16	33	16	18	22	12	9	11	11	11
			Light Vehicles	82	71	79	90	81	92	82	64	71	64	65	60
			Trailers Towed	10	7	6	8	9	7	10	8	12	12	8	11
			Total	107	92	101	131	106	117	114	84	92	87	84	81
Mackenzie River	Highway 1, near Camsell Bend	M.V. Johnny Berens	Commercial Vehicles	2	2	3	3	3	3	3	6	2	3	3	3
			Light Vehicles	18	16	16	18	16	16	17	17	16	17	17	16
			Trailers Towed	0	1	1	1	1	1	1	1	1	1	0	1
			Total	19	19	20	22	20	20	21	23	19	20	21	20

Table 10 Vehicle Classification Data at Dory Point Ferry (Highway 3 near Fort Providence, M.V. Merv Hardie)

Operating Season Open	Season Close	Month	Total Traffic	Average Daily Traffic	Light Vehicles	Trailers Towed	Truck Single Unit	Truck Semi Trailer	Percent of Total Over size	Bus	Other	Total Commercial	Number of Passengers
14-May-07	18-Jan-08	May-07	4,445	178	61.98	9.54	2.18	24.59	0.04	0.63	1.03	28.48	8,363
		Jun-07	8,922	297	62.33	12.72	1.96	20.77	0.04	0.72	1.46	24.95	17,448
		Jul-07	10,313	333	66.86	11.75	1.26	17.68	0.01	0.72	1.73	21.39	19,603
		Aug-07	11,244	363	65.71	8.65	1.40	22.73	0.07	0.39	1.05	25.64	20,715
		Sep-07	8,817	294	56.49	6.11	1.68	34.69	0.02	0.57	0.43	37.39	14,368
		Oct-07	7,656	247	49.78	3.83	1.96	43.08	0.01	0.74	0.60	46.39	11,863
		Nov-07	5,950	198	41.03	2.00	2.96	52.82	0.03	0.72	0.44	56.97	8,892
		Dec-07	4,556	147	29.35	2.19	3.58	63.52	0.04	0.90	0.42	68.46	6,129
		Jan-08	1,940	88	5.21	1.24	6.60	84.90	0.05	1.19	0.82	93.56	2,234
		Total	63,843	256	55.24	7.55	2.07	33.47	0.04	0.66	0.97	37.21	109,615
7-May-06	22-Jan-07	May-06	5,177	207	65.25	8.33	2.07	22.37	0.00	0.71	1.27	26.42	8,845
		Jun-06	9,375	313	66.51	11.32	2.35	17.38	0.09	0.67	1.70	22.18	17,150
		Jul-06	10,265	331	69.03	9.64	1.84	17.88	0.02	0.48	1.11	21.32	18,604
		Aug-06	9,990	322	67.66	9.39	2.37	18.85	0.07	0.64	1.02	22.95	18,507
		Sep-06	7,808	260	67.73	6.66	2.66	21.30	0.03	0.72	0.91	25.61	13,986
		Oct-06	6,260	202	65.69	3.02	2.78	26.90	0.06	0.81	0.73	31.29	10,709
		Nov-06	4,374	146	51.30	2.01	3.73	41.59	0.05	0.94	0.39	46.68	6,728
		Dec-06	2,980	96	18.72	2.32	5.40	71.17	0.07	1.24	1.07	78.96	3,641
		Jan-07	2,792	127	4.58	0.82	7.31	85.35	0.61	0.68	0.64	94.59	3,123
		Total	59,021	227	60.64	7.30	2.82	27.41	0.07	0.71	1.06	32.06	101,293
12-May-05	2-Feb-06	May-05	4,552	228	68.32	5.84	2.24	21.13	0.04	0.81	1.60	25.83	8,349
		Jun-05	9,545	318	70.07	10.33	2.54	14.57	0.04	0.58	1.88	19.60	18,123
		Jul-05	11,184	361	71.49	10.16	1.78	14.51	0.05	0.72	1.29	18.35	23,048
		Aug-05	10,235	330	71.00	8.90	2.28	15.92	0.00	0.48	1.43	20.10	19,495
		Sep-05	7,939	265	70.45	6.26	2.48	18.98	0.05	0.59	1.18	23.29	14,209
		Oct-05	6,526	211	67.13	4.34	2.87	23.11	0.02	0.95	1.59	28.53	11,763
		Nov-05	5,729	191	54.22	2.18	3.82	37.39	0.19	1.05	1.15	43.60	9,252
		Dec-05	4,811	155	56.43	3.28	3.28	34.13	0.19	1.06	1.62	40.28	8,750
		Jan-06	4,730	153	32.58	1.86	3.70	59.13	0.21	0.89	1.63	65.56	6,777
		Feb-06	396	198	1.01	0.76	3.03	92.42	0.00	2.27	0.51	98.23	502
		Total	65,647	246	64.59	6.78	2.63	23.71	0.07	0.75	1.47	28.63	120,268
17-May-04	6-Jan-05	Total	55,968	238	64.58	7.56	2.68	23.09	0.08	0.79	1.23	27.86	104,377
17-May-03	9-Jan-04	Total	57,720	243	65.40	8.45	2.23	21.87	0.10	0.71	1.25	26.16	109,721
22-May-02	27-Jan-03	Total	59,728	238	65.17	7.98	2.28	22.68	0.13	0.70	1.06	26.85	111,535
12-May-01	4-Feb-02	Total	56,766	212	61.1	6.4	2.3	27.7	0.6	0.8	1.2	32.6	115,370
9-May-00	15-Jan-01	Total	51,753	205	65.1	8.2	2.1	22.3	0.0	0.8	1.5	26.7	99,729
9-May-99	21-Jan-00	Total	51,753	201	67.8	8.7	2.0	19.2	0.1	0.8	1.3	23.4	102,541
7-May-98	13-Jan-99	Total	51,820	206	51.9	5.5	1.8	14.1	0.0	0.7	1.0	17.6	100,691
14-May-97	29-Jan-98	Total	52,660	202	64.3	7.2	2.5	24.0	0.1	0.8	1.1	28.5	100,851
15-May-96	14-Jan-97	Total	49,909	202	63.7	6.8	3.1	24.2	0.1	0.6	1.4	29.4	96,779
13-May-95	12-Jan-96	Total	50,440	206	65.0	6.6	4.1	22.4	0.3	0.7	0.8	28.4	96,699
11-May-94	10-Jan-95	Total	45,905	187	63.5	6.3	3.0	25.2	0.1	0.8	1.1	30.2	90,852
6-May-93	14-Jan-94	Total	45,428	179	65.4	5.3	3.9	23.5	0.1	1.0	0.8	29.2	88,841

Table 11 Vehicle Classification Data at Liard River Ferry (Highway 1 near Fort Simpson, M.V. Lafferty)

Operating Season		Month	Total Traffic	Average Daily Traffic	Percent of Total								Total Commercial	Number of Passengers
					Light Vehicles	Trailers Towed	Truck Single Unit	Truck Semi Trailer	Over size	Bus	Other			
9-May-07 7-Nov-07		May-07	2,197	146	85.94	3.19	3.96	4.05	0.09	0.27	2.50	10.88	4,507	
		Jun-07	3,936	131	76.91	7.47	4.73	7.32	0.28	0.30	3.00	15.63	6,713	
		Jul-07	3,365	109	71.41	10.82	2.79	10.49	0.42	0.53	3.54	17.77	6,720	
		Aug-07	3,546	114	79.16	8.21	2.54	7.47	0.06	0.17	2.40	12.63	6,909	
		Sep-07	3,353	112	78.50	6.05	2.51	10.68	0.30	0.24	1.73	15.45	6,146	
		Oct-07	2,692	87	77.08	4.05	4.64	12.30	0.30	0.07	1.56	18.87	4,850	
		Nov-07	526	263	83.08	1.52	3.04	9.51	0.38	0.00	2.47	15.40	777	
		Total	19,615	108	77.84	6.83	3.48	8.84	0.25	0.27	2.50	15.33	36,622	
17-May-06 2-Nov-06		May-06	1,283	86	84.65	5.30	3.20	2.81	0.39	0.31	3.35	10.05	2,318	
		Jun-06	3,106	104	77.56	6.47	5.12	6.54	0.61	0.55	3.16	15.97	6,312	
		Jul-06	3,509	113	75.04	7.21	3.19	10.32	1.62	0.37	2.25	17.75	7,613	
		Aug-06	3,510	113	75.36	9.03	3.16	8.75	1.34	0.20	2.17	15.61	7,321	
		Sep-06	3,455	115	77.16	6.08	3.24	9.99	1.68	0.17	1.68	16.76	6,966	
		Oct-06	2,726	88	77.81	3.78	4.55	10.97	0.33	0.33	2.24	18.42	5,825	
		Nov-06	252	126	77.78	1.59	8.33	5.56	0.00	0.00	6.75	20.63	468	
		Total	17,841	106	77.10	6.48	3.81	8.78	1.09	0.31	2.42	16.42	36,823	
11-May-05 5-Nov-05		May-05	1,931	92	84.77	4.09	3.26	2.80	0.00	0.21	4.87	11.13	4,068	
		Jun-05	3,514	117	70.15	7.17	3.64	15.57	0.09	0.40	2.99	22.68	7,328	
		Jul-05	3,721	120	67.40	7.09	4.11	19.00	0.08	0.43	1.88	25.50	7,757	
		Aug-05	3,799	123	72.78	7.79	4.08	12.66	0.26	0.13	2.29	19.43	7,595	
		Sep-05	2,963	99	75.90	5.33	4.89	11.47	0.03	0.24	2.13	18.76	5,815	
		Oct-05	2,130	69	74.98	3.52	7.14	11.55	0.28	0.61	1.92	21.50	4,327	
		Nov-05	373	75	85.52	2.68	4.83	4.56	0.00	0.00	2.41	11.80	673	
		Total	18,431	103	73.46	6.15	4.42	12.98	0.12	0.32	2.54	20.38	37,563	
16-May-04 26-Oct-04	Total	17,664	108	76.14	5.96	3.88	10.15	0.32	0.22	3.34	17.91	36,336		
13-May-03 4-Nov-03	Total	17,193	98	77.18	6.67	4.25	8.95	0.22	0.28	2.45	16.16	35,679		
22-May-02 6-Nov-02	Total	18,976	112	72.23	6.09	4.83	13.67	0.08	0.40	2.70	21.68	37,830		
15-May-01 3-Nov-01	Total	17,146	99	75.7	5.7	5.3	9.4	0.3	0.5	3.1	18.7	34,612		
9-May-00 3-Nov-00	Total	16,048	90	77.2	6.8	4.4	7.7	0.2	0.6	3.1	16.0	33,040		
10-May-99 3-Nov-99	Total	17,376	98	77.5	5.8	4.3	8.7	0.2	0.9	2.5	16.7	34,907		
6-May-98 10-Nov-98	Total	17,022	90	79.4	5.8	4.2	7.4	0	0.8	2.3	14.8	34,808		
15-May-97 12-Nov-97	Total	14,885	87	74.7	6.1	5.1	10.7	0.1	0.9	2.4	19.2	30,666		
8-May-96 26-Oct-96	Total	16,932	98	69	5.8	5.6	16	0.2	0.7	2.8	25.3	35,472		
9-May-95 27-Oct-95	Total	16,646	97	71.6	6.5	5.1	14.4	0.2	0.2	2	21.9	34,734		
6-May-94 6-Nov-94	Total	17,869	97	68.8	5.9	5.6	17.1	0.2	0.2	2.2	25.3	36,163		
12-May-93 17-Nov-93	Total	14,053	74	71.6	10.5	6.5	9.2	0.1	0.3	1.8	17.9	29,516		

Table 12 Vehicle Classification Data at Mackenzie River Ferry (Highway 8 near Tsiigehtchic, M.V. Louis Cardinal)

Operating Season		Month	Total Traffic	Average Daily Traffic	Percent of Total								Total Commercial	Number of Passengers
					Light Vehicles	Trailers Towed	Truck Single Unit	Truck Semi Trailer	Over size	Bus	Other			
2-Jun-07	22-Oct-07	Jun-07	3,983	133	76.73	8.99	3.74	7.76	0.13	0.00	2.66	14.29	8,040	
		Jul-07	5,080	164	75.47	9.21	3.74	8.17	0.14	0.26	3.01	15.31	11,212	
		Aug-07	6,202	200	80.43	8.51	2.63	6.24	0.39	0.06	1.74	11.06	13,856	
		Sep-07	3,891	130	78.85	3.88	6.25	9.28	0.33	0.05	1.36	17.27	8,544	
		Oct-07	2,476	85	76.21	1.17	7.31	14.10	0.24	0.08	0.89	22.62	5,227	
		Total	21,632	152	77.82	7.09	4.28	8.42	0.25	0.10	2.04	15.09	46,879	
31-May-06	29-Oct-06	May-06	23	23	95.65	0.00	0.00	0.00	0.00	0.00	4.35	4.35	39	
		Jun-06	3,667	122	80.31	8.34	2.51	7.04	0.11	0.08	1.61	11.34	7,182	
		Jul-06	4,742	153	78.72	8.29	2.45	5.78	0.30	0.32	4.15	12.99	9,604	
		Aug-06	4,548	147	80.74	8.49	2.92	6.13	0.15	0.11	1.45	10.77	9,270	
		Sep-06	3,305	110	78.88	3.48	3.15	13.01	0.21	0.06	1.21	17.64	6,774	
		Oct-06	2,598	90	77.83	0.27	6.47	14.13	0.31	0.00	1.00	21.90	4,872	
27-May-05	29-Oct-05	Total	18,883	125	79.44	6.39	3.25	8.52	0.21	0.13	2.06	14.17	37,741	
		May-05	368	92	78.80	4.08	9.51	2.72	0.00	0.00	4.89	17.12	648	
		Jun-05	4,851	162	78.46	8.25	3.22	7.07	0.08	0.02	2.91	13.30	8,863	
		Jul-05	5,703	184	77.80	10.45	3.09	6.33	0.28	0.28	1.77	11.75	11,778	
		Aug-05	5,815	188	78.07	7.62	5.19	6.72	0.22	0.05	2.12	14.31	12,280	
		Sep-05	3,983	133	80.99	2.86	5.45	9.19	0.05	0.00	1.46	16.14	7,749	
4-Jun-04	20-Oct-04	Oct-05	2,536	91	81.98	0.95	4.10	12.03	0.28	0.00	0.67	17.07	4,912	
		Total	23,256	151	79.02	6.85	4.26	7.64	0.18	0.09	1.97	14.13	46,230	
		Total	23,574	168	80.24	8.17	2.58	7.61	0.22	0.08	1.09	11.58	40,642	
		Total	22,311	149	85.05	4.63	2.25	7.17	0.12	0.16	0.62	10.32	48,269	
		Total	21,130	154	77.24	8.27	3.86	8.11	0.59	0.13	1.80	14.49	46,844	
		Total	19,827	139	75.2	8.9	2.9	11.3	0.3	0.1	1.3	15.9	42,172	
5-Jun-03	1-Nov-03	Total	18,795	134	78.7	9.8	2.5	6.9	0.1	0.1	1.8	11.5	39,917	
		Total	19,028	138	76.5	11.0	3.3	7.2	0.1	0.2	1.7	12.5	41,066	
		Total	19,149	126	74.1	11.9	3.8	4.8	0.0	0.3	5.1	13.9	43,258	
		Total	16,894	125	77.2	12.3	2.5	4.9	0.1	0.7	2.4	10.5	38,471	
		Total	23,570	175	79.3	9.5	2.9	5.9	0.5	0.5	1.4	11.2	45,636	
		Total	24,620	160	81.9	8.4	2.1	5.3	0.3	0.5	1.5	9.7	50,398	
24-May-95	24-Oct-95	Total	27,052	176	82.9	5.9	3	4.6	0.3	0.5	2.8	11.2	55,606	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
30-May-94	30-Oct-94	Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
4-Jun-93	28-Oct-93	Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	
		Total	25,132	171	75.3	12.1	2.3	5.7	0.7	0.3	3.5	12.6	52,585	

Table 13 Vehicle Classification Data at Peel River Ferry (Highway 8 near Fort McPherson, C.F. Abraham Francis)

Operating Season		Month	Total Traffic	Average Daily Traffic	Light Vehicles	Trailers Towed	Truck Single Unit	Percent of Total				Total Commercial	Number of Passengers
								Truck Semi Trailer	Over size	Bus	Other		
2-Jun-07	19-Oct-07	Jun-07	2,561	88	66.81	12.42	1.25	12.89	0.04	0.00	6.60	20.77	5,292
		Jul-07	4,018	130	72.20	9.98	2.04	10.53	0.02	0.35	4.88	17.82	8,680
		Aug-07	5,607	181	81.36	7.94	1.61	6.87	0.07	0.16	2.00	10.70	12,143
		Sep-07	2,316	77	72.63	6.74	1.47	17.23	0.09	0.26	1.60	20.64	4,467
		Oct-07	944	36	58.05	2.44	3.92	32.84	0.11	0.11	2.54	39.51	1,712
		Total	15,446	111	73.83	8.69	1.78	11.96	0.06	0.19	3.48	17.47	32,294
2-Jun-06	26-Oct-06	Jun-06	1,942	67	65.45	12.20	2.47	12.56	0.51	0.26	6.54	22.35	3,806
		Jul-06	3,509	113	70.25	10.26	2.62	9.72	0.00	0.51	6.64	19.49	7,780
		Aug-06	4,688	151	84.32	6.44	1.00	5.84	0.04	0.15	2.20	9.24	10,223
		Sep-06	2,516	84	72.30	4.25	2.50	18.04	0.04	0.08	2.78	23.45	5,001
		Oct-06	1,352	52	64.13	0.44	2.59	31.07	0.15	0.00	1.63	35.43	2,222
		Total	14,007	96	74.07	7.22	2.03	12.37	0.11	0.23	3.96	18.70	29,032
25-May-05	24-Oct-05	May-05	242	35	80.99	5.79	2.07	5.79	0.00	0.00	5.37	13.22	509
		Jun-05	2,696	90	74.37	7.23	0.70	11.94	0.45	0.04	5.27	18.40	5,153
		Jul-05	5,181	167	80.04	6.93	2.93	7.62	0.27	0.25	1.95	13.03	11,653
		Aug-05	3,688	119	80.88	6.45	1.79	7.35	0.52	0.11	2.90	12.66	7,984
		Sep-05	2,413	80	78.37	2.78	1.82	14.71	0.75	0.08	1.49	18.86	4,883
		Oct-05	1,226	51	71.86	1.71	2.37	19.41	0.08	0.08	4.49	26.43	2,082
		Total	15,335	101	78.36	5.79	2.04	10.33	0.41	0.14	2.94	15.86	32,264
2-Jun-04	25-Oct-04	Total	19,537	131	68.67	5.94	1.38	8.84	0.26	0.10	14.81	25.39	31,360
4-Jun-03	29-Oct-03	Total	15,715	106	76.46	8.63	1.24	10.38	0.53	0.39	2.37	14.91	32,233
27-May-02	25-Oct-02	Total	17,810	117	78.72	5.72	1.73	9.34	1.07	0.52	2.91	15.56	37,322
10-Jun-01	29-Oct-01	Total	16,114	114	71.8	8.6	3.1	14.4	0.3	0.4	1.4	19.6	31,498
6-Jun-00	26-Oct-00	Total	11,959	84	76.3	9.7	1.7	9.0	0.3	0.5	2.6	14.1	27,823
30-May-99	15-Oct-99	Total	12,713	92	76.8	13.4	0.8	5.6	0.5	0.5	2.4	9.8	28,066
25-May-98	21-Oct-98	Total	13,097	87	73.8	13.2	1.4	6.9	0.3	0.4	4.0	13.0	32,775
30-May-97	21-Oct-97	Total	11,738	84	77.0	9.7	1.6	7.4	0.1	0.5	3.7	13.3	27,454
3-Jun-96	19-Oct-96	Total	11,237	81	73.5	13.3	1.8	8.2	0.1	0.5	2.7	13.3	25,891
22-May-95	24-Oct-95	Total	13,247	85	72.4	14.6	1.1	8.7	0	0.4	2.7	13.0	31,485
27-May-94	29-Oct-94	Total	14,012	90	74.9	12.4	0.8	9.1	0.0	0.3	2.5	12.7	35,352
3-Jun-93	29-Oct-93	Total	14,561	98	77.6	9.9	0.8	8.8	0.2	0.6	2.2	12.6	38,078

Table 14 Vehicle Classification Data at Mackenzie River Ferry (Highway 1, road to Wrigley, near Camsell Bend, M.V. Johnny Berens)

Operating Season	Month	Total Traffic	Average		Percent of Total							Total Commercial	Number of Passengers
			Daily Traffic	Light Vehicles	Trailers Towed	Truck Single Unit	Truck Semi Trailer	Over size	Bus	Other			
20-May-07 6-Nov-07	May-07	192	48	91.15	1.56	7.29	0.00	0.00	0.00	0.00	7.29	430	
	Jun-07	678	23	76.99	4.42	3.69	8.70	1.33	0.15	4.72	18.58	1,349	
	Jul-07	686	22	72.89	8.89	6.41	5.25	0.00	0.73	5.83	18.22	1,365	
	Aug-07	765	25	89.93	2.75	4.05	0.26	0.00	0.00	3.01	7.32	1,837	
	Sep-07	617	21	88.33	6.16	2.11	0.81	0.00	0.00	2.59	5.51	1,359	
	Oct-07	579	19	84.11	2.76	5.35	3.45	0.00	0.00	4.32	13.13	1,179	
	Nov-07	77	39	93.51	2.60	3.90	0.00	0.00	0.00	0.00	3.90	192	
	Total	3,594	21	83.17	4.76	4.48	3.39	0.25	0.17	3.78	12.08	7,711	
27-May-06 2-Nov-06	May-06	56	14	98.21	0.00	1.79	0.00	0.00	0.00	0.00	1.79	134	
	Jun-06	581	19	61.79	2.24	25.99	2.93	1.55	0.69	4.82	35.97	1,191	
	Jul-06	566	18	81.80	5.30	5.30	3.00	0.00	0.00	4.59	12.90	1,211	
	Aug-06	667	22	85.31	5.25	4.50	2.25	0.00	0.60	2.10	9.45	1,536	
	Sep-06	651	22	87.71	4.61	2.46	2.46	0.31	0.00	2.46	7.68	1,294	
	Oct-06	620	20	79.03	4.84	5.32	6.61	1.61	0.00	2.58	16.13	1,117	
	Nov-06	14	7	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29	
	Total	3,155	20	79.90	4.37	8.27	3.36	0.67	0.25	3.17	15.72	6,512	
20-May-05 4-Nov-05	May-05	226	19	69.91	0.44	23.89	0.00	0.00	0.44	5.31	29.65	437	
	Jun-05	493	16	81.74	3.65	5.27	3.85	0.00	1.01	4.46	14.60	1,036	
	Jul-05	696	22	81.32	6.18	6.90	2.44	0.00	0.72	2.44	12.50	1,588	
	Aug-05	660	21	86.06	6.21	3.48	1.52	0.00	0.30	2.42	7.73	1,409	
	Sep-05	638	21	82.92	5.17	6.43	3.92	0.00	0.00	1.57	11.91	1,243	
	Oct-05	533	17	82.55	2.63	5.63	6.94	0.00	0.00	2.25	14.82	993	
	Nov-05	81	20	77.78	0.00	14.81	4.94	0.00	0.00	2.47	22.22	152	
	Total	3,327	20	81.97	4.51	7.03	3.37	0.00	0.39	2.74	13.53	6,858	
28-May-04 22-Oct-04	Total	3,242	22	83.44	4.04	6.01	4.60	0.00	0.12	1.79	12.52	6,670	
30-May-03 31-Oct-03	Total	3,163	20	82.04	4.20	7.90	3.00	0.00	0.00	2.85	13.75	6,716	
31-May-02 1-Nov-02	Total	3,106	20	79.65	5.54	6.89	3.86	0.35	0.13	3.57	14.81	6,402	
22-May-01 29-Oct-01	Total	3,404	21	79.5	5.5	6.1	2.9	1.0	0.5	4.3	14.8	6,742	
20-May-00 30-Oct-00	Total	3,786	23	72.9	3.3	3.9	3.3	0.3	0.2	16.2	23.8	7,593	
21-May-99 16-Oct-99	Total	2,779	19	82.6	4.8	4.7	2.8	0.0	0.1	4.9	12.6	7,270	
15-May-98 3-Nov-98	Total	3,384	20	83.9	3.2	4.6	4.4	0.3	0.1	3.4	12.9	8,959	
18-May-97 27-Oct-97	Total	3,396	21	82.6	1.8	8.8	2.0	0.1	0.2	4.4	15.6	8,448	
22-May-96 25-Oct-96	Total	3,161	20	80.0	4.5	4.9	5.2	0.2	0.1	5.2	15.5	6,926	
17-May-95 16-Oct-95	Total	2,990	20	83.3	2.4	6.0	4.2	0.6	0.1	3.3	14.3	6,935	
3-Jun-94 2-Nov-94	Total	2978	19	82.2	1.7	5.4	6.7	0.6	0.3	3.1	16.1	6,712	

Table 15 Vehicle Classification at the Enterprise Weigh Scale

Unit Type	2007												12 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Single Axle	41	29	24	14	31	69	28	26	46	43	30	23	404	1.88
Tandem	473	566	624	249	282	322	260	264	572	326	313	218	4,469	20.82
4-Axle	2	11	16	8	5	10	5	3	0	3	3	3	69	0.32
5-Axle	3	15	37	12	1	7	6	0	0	1	0	1	83	0.39
6-Axle	484	722	1,027	280	190	257	279	242	269	243	195	185	4,367	20.35
A Train	161	151	185	143	192	215	174	153	186	208	204	148	2,120	9.88
B Train	88	237	171	2	3	7	1	3	2	1	3	1	519	2.42
C Train	5	46	15	0	0	0	0	0	0	0	0	0	66	0.31
Super B	1,135	2,128	1,893	158	184	248	253	380	676	752	802	728	9,337	43.51
Logging Truck	13	11	0	0	0	0	0	0	0	0	0	2	26	0.12
Total	2,405	3,916	3,992	866	888	1,129	1,006	1,069	1,752	1,578	1,548	1,311	21,460	100.00

Source: Enterprise Weigh Scale Database.

Unit Type	2006												12 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Single Axle	15	22	33	15	6	23	11	5	15	13	13	18	189	1.06
Tandem	82	79	67	33	47	90	32	55	116	70	67	54	792	4.45
4-Axle	0	5	11	20	0	1	0	0	3	2	2	0	44	0.25
5-Axle	387	561	812	206	209	245	165	188	351	312	231	210	3,877	21.77
6-Axle	428	703	994	197	147	238	163	262	221	223	187	163	3,866	21.71
A Train	119	158	204	119	181	224	143	165	192	195	154	134	1,988	11.16
B Train	42	156	149	4	2	1	3	4	4	4	4	37	409	2.30
C Train	0	22	14	3	0	2	0	0	0	0	0	0	41	0.23
Super B	776	1478	1657	208	104	225	184	274	384	390	485	402	6,567	36.88
Logging Truck	25	6	1	0	0	0	0	0	0	0	0	2	34	0.19
Total	1874	3190	3942	805	696	1049	701	892	1286	1209	1143	1020	17,807	100.00

Source: Enterprise Weigh Scale Database.

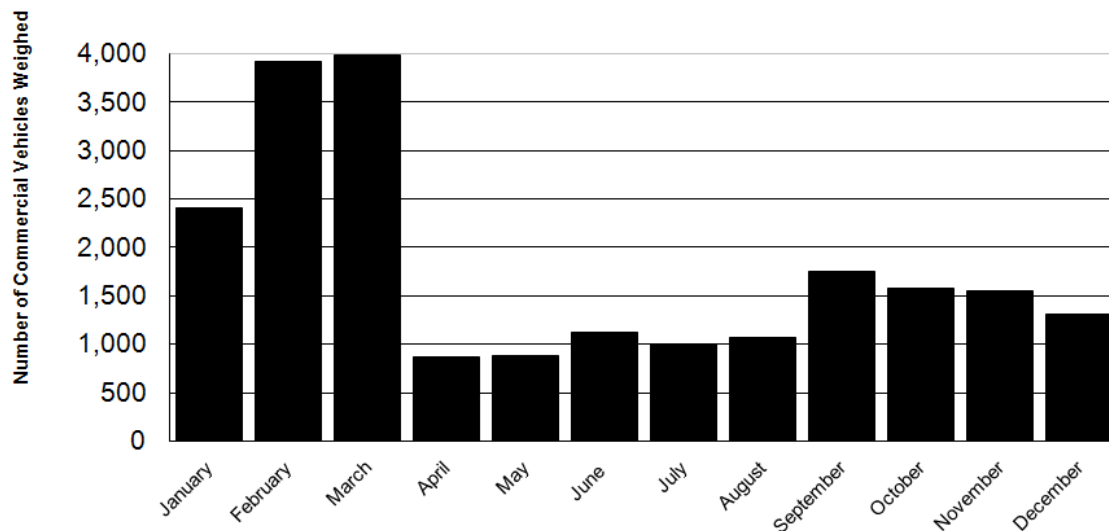
Unit Type	2005												12 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Single Axle	40	49	33	19	17	23	54	23	7	12	26	6	309	1.63
Tandem	40	75	43	28	43	35	50	44	64	55	63	50	590	3.12
5-Axle	288	668	848	302	194	232	438	339	293	250	300	281	4431	23.42
6-Axle	375	716	1026	261	138	257	364	240	301	312	286	170	4426	23.40
A Train	97	119	134	125	112	171	179	136	169	136	152	131	1680	8.78
B Train	30	131	110	8	5	9	48	20	5	4	2	25	397	2.10
C Train	2	33	33	0	0	1	1	2	1	0	0	0	73	0.39
Super B	924	1573	1959	164	158	259	253	196	240	255	554	448	6983	36.92
Logging Truck	22	15	1	0	0	0	0	0	0	0	0	9	47	0.25
Total	1816	3378	4187	907	667	987	1387	1000	1080	1024	1363	1120	18,916	100.00

Unit Type	2004												12 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Single Axle	19	21	26	11	5	19	12	7	56	14	7	13	210	1.25
Tandem	64	65	90	31	33	85	50	84	82	47	39	73	704	4.21
5-Axle	304	469	725	217	217	340	207	266	343	321	227	210	3946	22.98
6-Axle	280	480	688	126	101	258	182	315	287	193	157	155	3222	19.25
A Train	127	155	170	95	108	229	155	117	183	174	113	109	1735	10.37
B Train	47	112	131	6	4	10	9	3	8	16	7	6	359	2.15
C Train	6	29	40	0	0	2	0	0	0	0	0	0	77	0.46
Super B	688	1517	1985	110	114	301	229	274	399	337	320	272	6546	39.11
Logging Truck	16	18	3	0	0	0	0	0	0	0	0	0	37	0.22
Total	1551	2866	3858	596	582	1225	844	1046	1358	1102	870	838	16,736	100.00

Unit Type	2003												12 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Single Axle	13	12	24	8	4	3	16	7	12	11	3	6	119	0.75
Tandem	38	47	74	17	18	24	80	70	35	36	23	29	491	3.09
5-Axle	218	497	687	234	207	180	425	198	260	361	207	177	3651	22.96
6-Axle	183	541	670	152	185	141	214	163	281	262	190	118	3100	19.49
A Train	100	109	129	98	155	133	159	129	138	163	136	143	1582	10.01
B Train	17	134	173	7	57	12	22	14	5	26	4	12	483	3.04
C Train	5	51	89	4	2	1	9	0	0	2	4	1	168	1.06
Super B	655	1397	2027	155	110	199	253	148	222	284	411	436	6297	39.60
Logging Truck	-	-	-	-	1	-	-	-	-	-	-	-	1	0.01
Total	1229	2788	3883	675	739	693	1169	729	953	1143	976	925	15,902	100.00

Unit Type	2002												12 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Single Axle	12	27	18	12	9	9	6	8	14	9	7	10	141	0.88
Tandem	62	68	71	91	2	9	1	1	0	2	1	1	309	1.94
5-Axle	230	505	546	178	132	338	257	226	352	353	236	189	3542	22.21
6-Axle	212	514	579	200	65	249	224	231	249	248	246	158	3175	19.91
A Train	106	117	100	114	72	184	161	152	126	151	119	93	1495	9.38
B Train	101	209	195	25	10	20	13	20	25	38	12	10	678	4.25
C Train	17	69	73	9	1	7	9	0	0	1	0	1	187	1.17
Super B	703	1397	1767	259	42	295	306	207	276	321	506	339	6418	40.25
Logging Truck	-	-	-	-	-	0	0	0	0	0	0	0	0	0.00
Total	1443	2906	3349	888	333	1111	977	845	1042	1123	1127	801	15,945	100.00

Figure 10
Commercial Vehicles Weighed
at the Enterprise Weigh Scale



Total Vehicles Weighed

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	2,405	3,916	3,991	867	887	1,129	1,006	1,069	1,752	1,578	1,548	1,312	21,460
2006	1,874	3,190	3,942	805	696	1,049	701	892	1,286	1,209	1,143	1,020	17,807
2005	1,816	3,378	4,187	907	667	987	1,387	1,000	1,080	1,024	1,363	1,120	18,916
2004	1,551	2,866	3,858	596	582	1,225	844	1,046	1,358	1,102	870	838	16,736
2003	1,229	2,788	3,883	675	739	693	1,169	729	953	1,144	976	924	15,902
2002	1,448	2,913	3,358	892	336	1,114	982	854	1,054	1,123	1,128	803	16,005
2001	1,881	2,230	3,410	1,257	566	874	730	767	842	839	938	240	14,574
2000	1,051	1,862	2,266	522	501	830	720	703	681	798	795	762	11,491
1999	991	1,493	1,697	436	523	909	834	633	758	953	515	753	10,495
1998	1,107	2,258	2,711	684	1,059	1,139	1,765	1,951	1,279	929	679	662	16,223
1997	1,240	2,365	2,431	762	764	1,061	1,060	855	982	1,974	825	828	15,147
1996	1,627	2,585	1,722	767	855	1,255	1,116	1,049	1,149	1,081	1,136	1,003	15,345
1995	1,404	2,494	2,599	1,050	1,025	1,336	1,581	1,281	1,227	1,231	1,028	1,243	17,499

Note: (1) A commercial vehicle is any vehicle with a GVW over 4500 kg.
(2) In December 2001, it is estimated that only one-third of the data was collected due to weigh scale closures.

Figure 11 Commercial Vehicle Activity at the Enterprise Weigh Scale

Overweight Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	29	67	104	42	4	16	45	31	32	38	41	13	462
2006	46	44	101	28	0	1	27	27	45	38	38	20	415
2005	45	66	138	32	7	30	37	29	49	64	47	15	559
2004	56	16	93	22	0	16	31	34	30	39	39	13	389
2003	33	50	165	18	4	25	40	35	52	47	32	22	523
2002	29	46	162	36	1	11	23	26	19	26	22	28	429
2001	28	44	71	11	0	6	16	48	14	17	27	38	320
2000	68	103	84	11	0	17	29	38	16	26	10	41	443
1999	67	39	81	7	0	22	28	25	15	45	37	32	398
1998	40	89	145	12	2	26	42	22	25	26	32	20	481
1997	39	69	86	21	6	7	14	28	37	55	17	33	412
1996	10	18	32	20	1	11	28	36	34	18	18	19	245
1995	22	25	38	18	0	24	40	38	35	24	14	8	286

Overdimension Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	179	408	566	187	144	145	181	125	144	145	95	76	2,395
2006	237	270	731	191	103	195	184	126	206	124	109	78	2,554
2005	229	355	737	201	89	241	204	113	242	232	164	92	2,899
2004	183	178	460	94	56	175	204	188	148	121	112	104	2,023
2003	95	260	493	73	75	128	149	96	218	145	103	104	1,939
2002	200	436	442	129	45	91	113	141	139	143	91	87	2,057
2001	178	371	537	149	59	91	70	244	110	115	107	134	2,165
2000	303	485	465	83	32	113	153	137	129	105	77	131	2,213
1999	210	269	325	74	68	126	100	95	100	172	120	131	1,790
1998	174	297	439	87	103	121	141	120	110	125	88	106	1,911
1997	287	371	341	140	100	128	120	136	164	151	74	97	2,109
1996	84	164	227	115	116	208	152	139	223	135	102	168	1,833
1995	80	102	199	92	126	175	210	201	160	134	63	62	1,604

Vehicle Registration Permits Issued (non-NWT Carriers)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	776	871	735	321	327	435	506	406	417	349	308	333	5,784
2006	473	1007	761	295	293	320	372	350	437	258	266	345	5,177
2005	472	833	958	264	213	434	376	309	415	282	230	277	5,063
2004	284	653	499	163	179	231	286	358	285	212	147	202	3,499
2003	180	675	590	171	180	329	298	184	316	217	151	165	3,456
2002	467	643	463	203	88	277	296	257	271	204	178	149	3,496
2000	350	546	523	131	150	286	285	260	254	227	122	274	3,408
1999	316	474	427	85	115	220	232	226	205	257	140	259	2,956
1998	286	392	463	94	208	251	321	219	223	207	123	262	3,049
1997	322	380	285	215	112	281	219	229	195	148	137	176	2,699
1996	269	255	277	166	191	182	275	187	237	194	150	245	2,628
1995	175	228	250	149	223	240	300	241	165	130	89	88	2,278

Fuel Tax Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	620	785	880	253	283	458	505	402	379	318	262	299	5,444
2006	484	979	1232	263	177	301	318	300	352	243	189	236	5,074
2005	388	779	1407	276	166	402	416	350	421	293	195	167	5,260
2004	235	468	576	133	132	344	282	299	273	240	133	98	3,213
2003	68	504	675	133	134	324	281	186	347	205	122	153	3,132
2002	338	526	715	177	52	321	256	242	192	187	121	90	3,217
2000	363	523	773	103	105	317	336	303	282	260	151	284	3,800
1999	366	530	440	80	89	210	266	195	243	302	139	255	3,115
1998	224	355	612	98	200	272	363	240	237	230	135	285	3,251
1997	324	404	370	144	160	284	272	201	161	163	127	161	2,771
1996	169	310	339	134	153	202	276	191	259	170	131	183	2,517
1995	65	188	240	77	157	200	278	212	160	105	78	74	1,834

Note:

- (1) A commercial vehicle is any vehicle with a GVW over 4500 kg
- (2) Overweight and Overdimension permits are issued for a single trip
- (3) All commercial vehicles in the Northwest Territories must register at the scale. Registration for NWT carriers is valid for one year. Non-NWT carriers may purchase registration for periods of 1-12 months
- (4) Fuel Tax Permits are issued to all carriers transporting bulk fuel purchased outside the Northwest Territories
- (5) Some 2001 data was unavailable
- (6) Prior to 2003, combination overweight and overdimension permits were counted as one overdimension permit only. Currently, they are counted as one overdimension permit and one overweight permit.

Figure 12 Commercial Vehicle Activity at the Inuvik Weigh Scale

Overweight Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	19	16	8	5	0	0	5	8	4	8	2	3	78
2006	4	3	7	6	2	1	16	8	0	7	0	0	54
2005	1	10	27	7	2	8	6	3	7	4	0	1	76
2004	0	11	16	21	0	9	8	8	8	6	2	1	90
2003	13	12	28	11	0	6	5	5	15	13	5	2	115
2002	10	9	15	5	6	3	6	7	4	12	0	4	81
2001	13	4	2	3	2	0	13	3	11	11	2	0	64

Overdimension Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	51	32	24	87	1	6	12	9	10	9	2	4	247
2006	10	6	15	12	2	11	23	11	2	9	0	0	101
2005	19	97	102	59	2	19	22	5	16	11	0	4	356
2004	30	41	70	118	0	16	23	21	29	11	5	2	366
2003	53	64	130	68	3	29	22	15	49	32	5	2	472
2002	103	41	61	90	6	14	29	15	24	43	5	8	439
2001	57	48	17	54	9	12	32	8	39	33	3	26	338

Vehicle Registration Permits Issued (non-NWT Carriers)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	60	52	46	55	3	45	32	55	52	37	0	28	465
2006	14	17	31	29	4	29	21	24	16	20	0	15	220
2005	31	43	45	63	1	36	24	32	33	17	1	13	339
2004	16	17	74	50	10	20	38	32	59	26	3	2	347
2003	76	50	47	35	2	28	69	29	45	27	0	6	414
2002	127	72	49	56	5	24	28	21	18	0	0	11	411
2001	32	42	39	42	6	40	57	39	61	0	0	36	394

Fuel Tax Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	63	39	55	42	4	41	32	40	40	24	0	17	397
2006	16	23	48	18	3	25	17	20	20	22	0	10	222
2005	27	44	44	51	0	12	15	19	26	18	0	4	260
2004	7	11	45	45	6	11	23	18	49	11	0	11	237
2003	36	62	53	37	2	17	60	23	37	13	0	2	342

Figure 13 Commercial Vehicle Activity at the Fort Liard Weigh Scale

Overweight Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	0	0	3	0	0	0	0	0	0	0	0	0	3
2006	0	5	0	0	0	0	13	2	0	6	0	0	26
2005	5	2	1	0	0	2	7	13	0	13	0	0	43
2004	1	14	12	0	0	0	0	8	1	0	2	0	38
2003	13	11	11	0	0	0	5	3	16	0	0	0	59
2002	5	18	0	2	0	0	0	0	1	0	0	3	29
2001	23	17	3	1	0	12	12	2	3	0	0	1	74

Overdimension Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	0	0	4	2	0	2	2	0	0	0	0	0	10
2006	13	7	0	0	0	11	23	2	1	4	11	8	80
2005	10	3	15	1	0	4	8	37	4	34	7	8	131
2004	6	28	22	22	1	0	3	32	1	1	3	0	119
2003	41	33	25	5	0	2	8	10	40	1	0	0	165
2002	21	48	2	9	0	2	0	2	1	3	0	8	96
2001	54	33	21	3	0	19	20	2	10	2	6	13	183

Vehicle Registration Permits Issued (non-NWT Carriers)

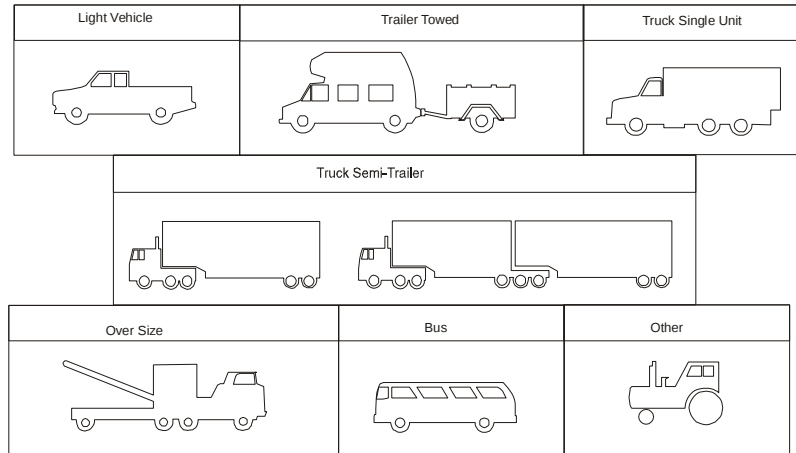
Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	0	0	0	0	4	0	0	0	0	0	0	0	4
2006	22	13	1	0	3	11	34	15	10	13	12	6	140
2005	22	21	17	2	0	10	13	25	14	48	6	11	189
2004	35	47	119	61	60	14	49	31	24	24	16	11	491
2003	105	37	112	57	79	20	25	55	64	22	17	13	606
2002	54	48	15	21	1	10	14	14	10	0	3	14	204
2001	114	77	17	21	7	36	30	23	14	0	20	28	387

Fuel Tax Permits Issued

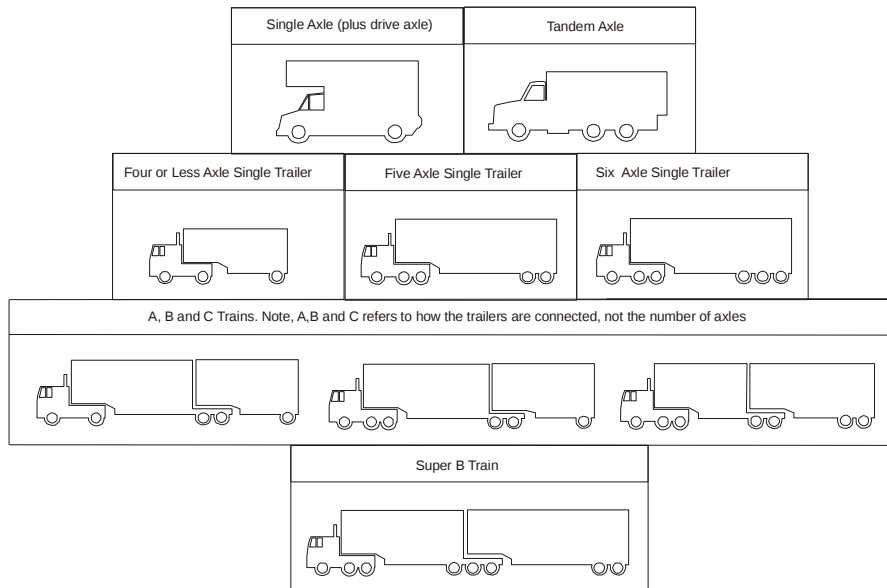
Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2007	1	3	1	2	0	6	13	1	0	0	0	0	27
2006	17	4	1	0	1	5	36	6	6	12	9	1	98
2005	12	17	13	3	0	8	13	18	15	48	10	3	160
2004	23	49	70	22	4	3	46	8	3	9	2	0	239
2003	75	22	6	13	2	1	7	12	29	7	1	1	176

Figure 14
Vehicle Classifications

Highway Ferries



Weigh Scale Classification



Note: For more information regarding commercial vehicle definitions and allowable weights, please see the *Large Vehicle Control Regulations* under the *Motor Vehicles Act* available at www.justice.gov.nt.ca

Section 1.0

Summary of Traffic Data Collection Activities and Analysis

Section 2.0

Highway Traffic Volume Data

Section 3.0

Vehicle Movements at Ferries and Weigh Scales

Appendix A

Historical Data

The Department has been actively collecting data since its formation in 1989. This Traffic Report shows the current state of the system only, however the following historical data is available:

- **Short-term Visual Counts** – Vehicles are classified and counted manually at various highway junctions throughout the territory. The data is used to enhance vehicle classification and AADT calculations.
- **Short-term Intersection Volume Counts** – Vehicles are counted by direction and turning movement, which gives an indication of overall traffic flow at selected intersections on the highway system.
- **Historical AADT** – Average daily traffic, broken down by month and year, is also available from 1989 through to 1992. AADT from 1993 through to the present is located in Table 3.

The Department will provide the above data upon request. Please refer to the acknowledgements section in the front of this report for contact information.

Appendix B

Data Processing Methodology

Data Processing Methodology

The primary goal in traffic data collection is to determine Average Annual Daily Traffic (AADT). The most concise way of doing this is to collect traffic data at a site for a year, sum the traffic counts over the year and then divide by 365 days. However, for a number of reasons including routine maintenance, breakdowns and faulty data modules, no counter runs at 100% operational capacity for an entire year. Therefore, adjustments must be made for gaps in the data.

Three steps are involved in the processing of traffic data. Step one is to fill in as much missing data as possible for the year in question. Step two involves applying an AADT formula to the data and step three consists of independently verifying the calculated AADT through other sources and previous experience. The following steps outline this process in more detail:

Step One

- If less than one week of data is missing, an average of the hourly count in the week prior and the week following is calculated and applied to the missing data.
- If over one week of data is missing but less than a month, the first step is to obtain the data from the previous year. If the data cannot be found, an average of the first prior week and the first following week is calculated and applied to the missing data.
- If over one month of data is missing, data from previous years is applied through a growth rate algorithm. The results are analysed for accuracy and completeness through comparisons with other traffic counter sites, data from other sources and previous experience.
- Growth rate is determined at each site by comparing available monthly average daily traffic from year to year and averaging over the last four years.

Step Two

- AADT is determined using an industry standard American Association of State Highway and Transportation Officials (AASHTO) formula (see below). After step one is applied there is a strong possibility that there will still be incomplete data for the year. The AASHTO formula directly accounts for missing data by computing an average of averages.

$$AADT = \frac{1}{7} \sum_{i=1}^7 \left[\frac{1}{12} \sum_{j=1}^{12} \left(\frac{1}{n} \sum_{k=1}^n VOL_{ijk} \right) \right]$$

Where: Vol = daily traffic for day k, of day-of-week i, and month j

i = day of the week

j = month of the year

k = 1 when the day is the first occurrence of that day of the week in a month, 4 when it is the fourth occurrence.

n = the number of days of that day of week during that month (usually between 1 and 5, depending on the number of missing data).

Step Three

- Calculated AADT numbers are compared against previous years' values, other sources of traffic information such as ferry logs and Lupin Winter Road logs, upstream and downstream counter sites and previous experience.
- If results of the AADT algorithms are deemed inaccurate at a particular site, the AADT for the year will be estimated by applying an appropriate growth rate to the previous year's AADT.

Note: For counters located on access roads and winter roads no extra information is introduced. Only the data collected in the current year is presented.

For more detailed information, please contact the Planning, Policy and Environment Division of the Department of Transportation as listed in the Acknowledgements section of this report.