

Northwest Territories
Highway Traffic, 2004



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Department of Transportation
Government of the Northwest Territories
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Acknowledgements

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Section 1.0

Summary of Traffic Data Collection Activities and Analysis

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 2004. 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 52 permanent and seasonal counting stations. 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. Counter locations are provided in Table 2 and illustrated in Figure 1.

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 2004.

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

In 2004, less than 50 percent of all potential data was useable for determining traffic volumes. This performance is attributed to the age of the traffic counters and breakdown of related detection loops. As a result, 2004 data for traffic volumes and respective AADT's and PSADT's in Tables 3 and 8 have been omitted. To ensure a reliable traffic data collection program, the Department has initiated a replacement program for all of the older and outdated traffic counters.

Figure 1
Northwest Territories Permanent
and Seasonal Traffic Counter
Locations (2004)

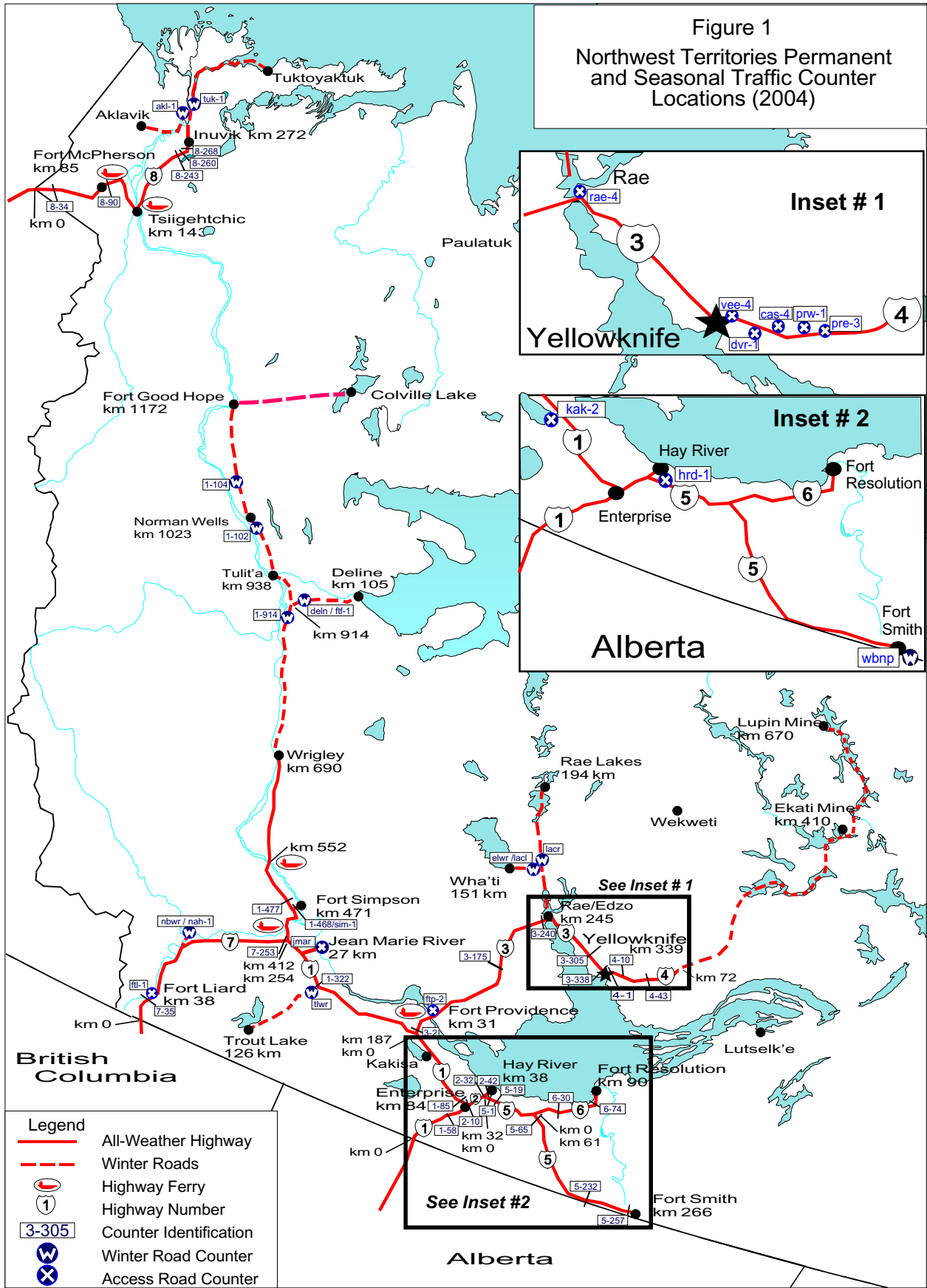


Table 1 Highway System Classification (2004)

Classification	Length (kilometres)				Total
	Paved	Dust- Controlled Gravel	Untreated Gravel	Winter Road	

All-Weather Highways

Highway 1 (Mackenzie Highway to Wrigley)	246.7	249.1	194.2	-	690.0
Highway 2 (Hay River Highway)	43.7	-	-	-	43.7
Highway 3 (Yellowknife Highway)	285.2	53.6	-	-	338.8
Highway 4 (Ingraham Trail)	28.3	40.9	-	-	69.2
Highway 5 (Fort Smith Highway)	157.0	109.0	-	-	266.0
Highway 6 (Fort Resolution Highway)	38.0	52.0	-	-	90.0
Highway 7 (Liard Highway)	-	104.2	149.9	-	254.1
Highway 8 (Dempster Highway)	10.0	185.1	77.4	-	272.5
Total	808.9	793.9	421.5	0.0	2,024.3

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	-	14.2	-	-	14.2
Fort Liard Access	5.3	-	-	-	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	-	10.9	-	-	10.9
Miscellaneous Minor Access	2.0	8.5	46.6	-	57.1
Total	45.1	47.6	74.0	0.0	166.7

Winter Roads

Highway 1 (Mackenzie Highway, Wrigley to FGH)	-	-	-	485.2	485.2
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	-	-	-	135.5	135.5
Rae Lake Road	-	-	-	100.0	100.0
Nahanni Butte Access	-	-	-	22.3	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	0.0	1,417.7	1,417.7

Total All-Weather Roads 2,191.0
Total Winter Roads (Department of Transportation) 1,417.7

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
3-305	Highway 3	305	1.7 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 west of Highway 2 and 5, 1.5 km east 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
8-90	Highway 8	90	4.6 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
akl-1	Aklavik	1	1 km west of junction with Tuktoyuktuk winter road
deln / fff-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 Procedures

The permanent traffic counters located throughout the Northwest Territories highway network collect traffic data on a continual basis. This data is stored on a recording device (module) every hour. Approximately once per month, personnel working out of the highway maintenance camps replace the data modules, they retrieve the module with the prior month's traffic count and replace it with an empty module.

The retrieved module is then sent to Hay River, where personnel with the Highways and Engineering Division download the data from the module to disk (ASCII format) and conduct a first level screening of the data. Any problems are noted in a summary report and corrupt data is disregarded. The disks and summary report are then sent to the Transportation Planning and Policy Division in Yellowknife where the data is uploaded 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 D.

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 three sections.

The first section provides an introduction to the Northwest Territories traffic data collection system.

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

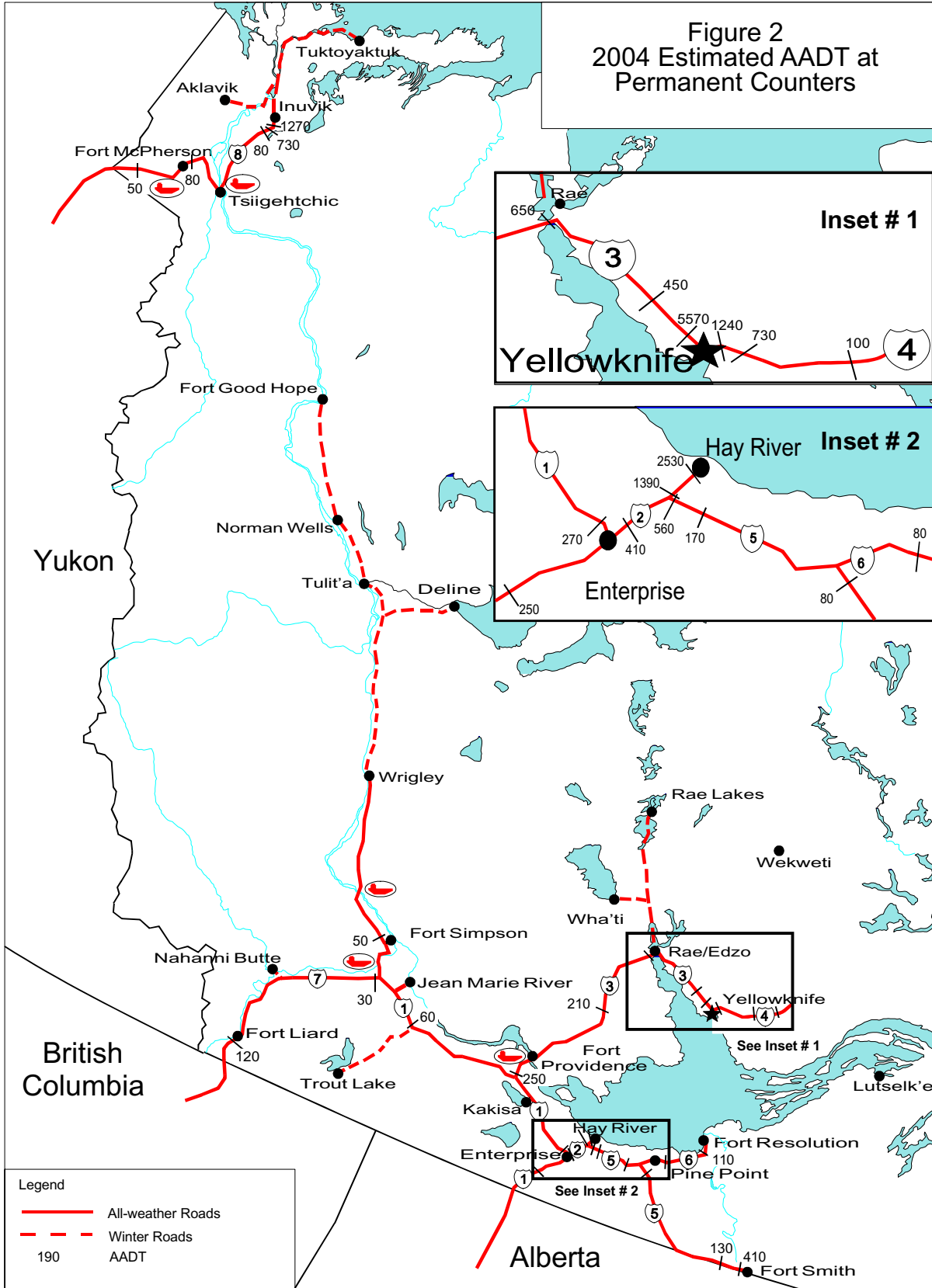
The third section presents traffic information collected on highway ferries, and commercial vehicle activity from the Weigh Scales.

Additional detailed traffic information is presented in the appendices.

Section 2.0

Highway Traffic Volume Data

Figure 2
2004 Estimated AADT at
Permanent Counters



Note: Some data in this figure has been estimated using information from past years.

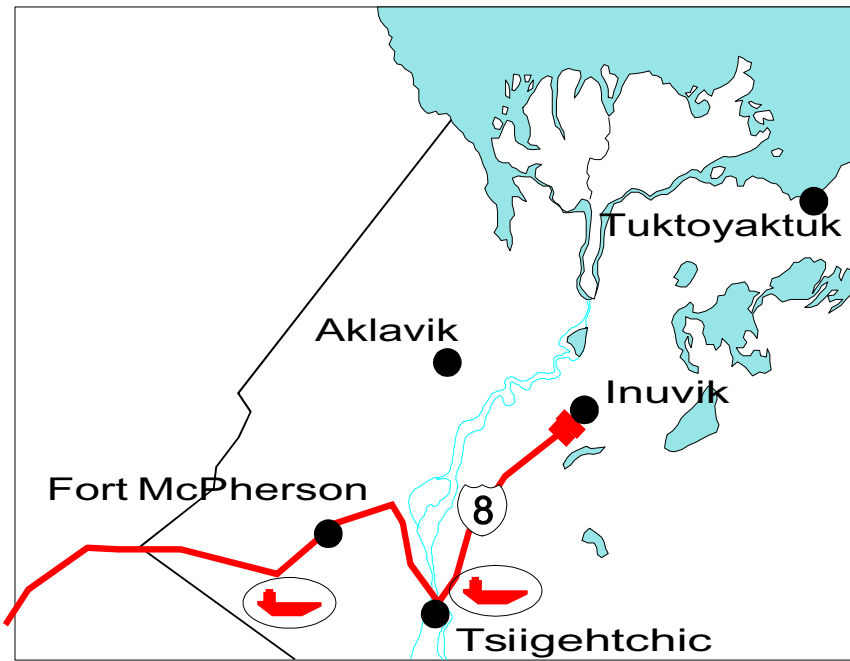


Figure 3
2004 AADT on
Highway Segments

Line Thickness	AADT
	0-49
	50-99
	100-199
	200-299
	300-399
	400-499
	500-999
	1000+

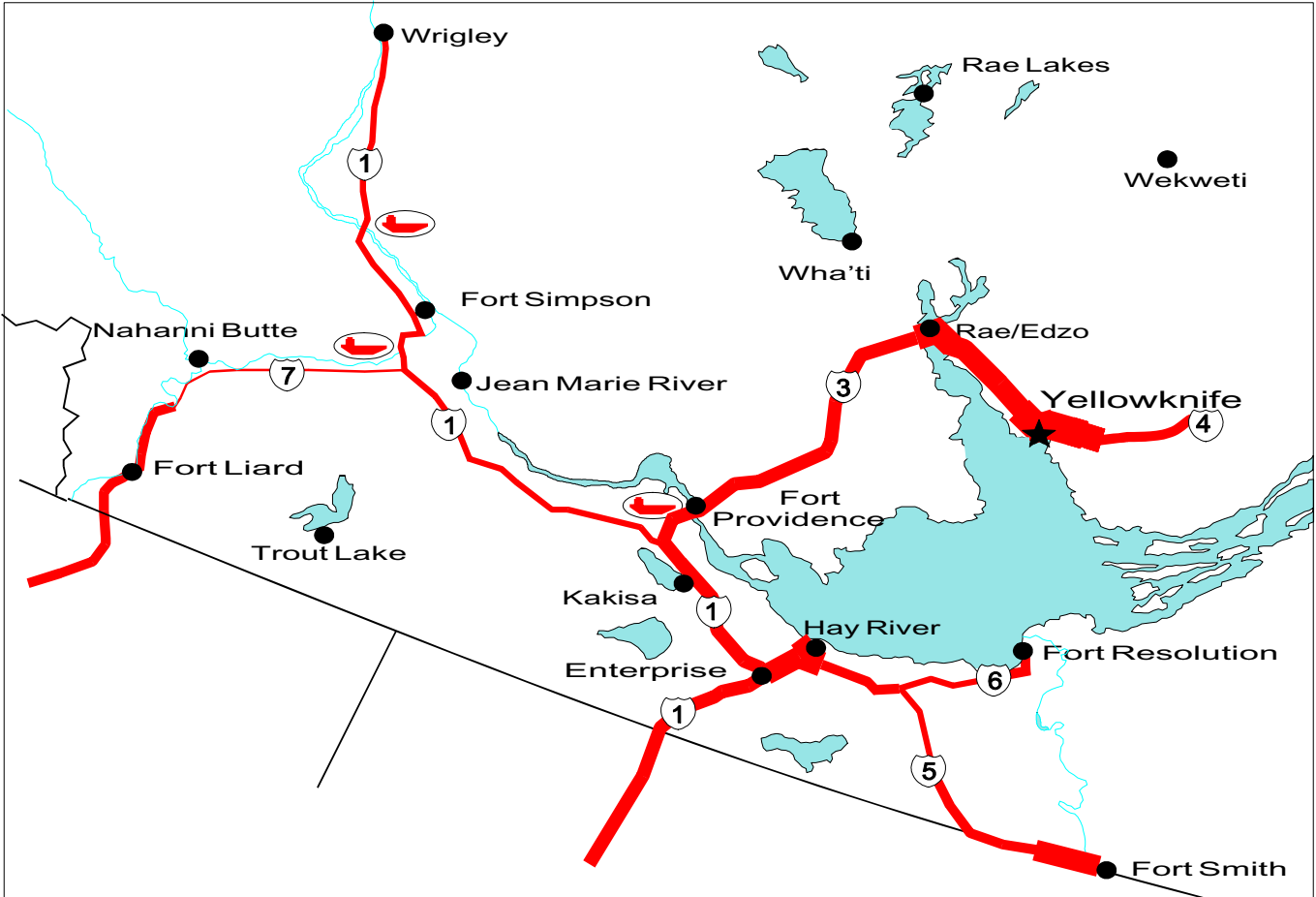


Table 3 Estimated Traffic on Northwest Territories Highways

Highway	Kilometre	Counter ID	Description	AADT					PSADT					
				1999	2000	2001	2002	2003	1999	2000	2001	2002	2003	
1	58	1-58	15 km south of Alexandra Falls	250	240	230	220	210	380	420	390	350	340	320
1	85	1-85	1.2 km west of Enterprise	270	270	250	240	230	380	400	320	320	320	330
1	322	1-322	0.4 km west of Trout Lake winter road	60	60	60	60	**	80	90	80	80	**	80
1	477	1-477	5.2 km west of Fort Simpson Access on Highway 1	50	50	40	40	**	60	70	60	60	**	50
2	10	2-10	10 km north of Enterprise, south of Paradise Gardens	410	420	400	400	410	510	530	500	500	510	520
2	32	2-32	40 metres north of Highway 2 and 5 intersection	1390	1420	1340	1340	**	1920	1970	1860	1860	**	1760
2	42	2-42	North of West Channel across bridge	2530	2590	2440	2420	2450	3120	3200	3010	3010	3000	3050
3	2	3-2	2 km north of Highway 1 and 3 intersection, south of ferry	250	240	220	200	190	350	330	290	290	280	280
3	175	3-175	53 km north of Chan Lake, 62 km south of Edzo	210	210	190	180	180	290	280	270	260	**	**
3	240	3-240	3 km south of Rae access, south of Frank's Channel	650	640	590	570	550	710	700	670	650	**	**
3	305	3-305	1.7 km east of Boundry Creek	450	440	410	400	390	520	500	470	460	470	430
3	338	3-338	0.8 km west of Highway 3 and 4 intersection	5570	5460	5060	4980	5010	6460	6330	6030	6030	6180	5740
4	1	4-1	1 km north of Highway 3 and 4 intersection	1240	1240	1230	1330	1460	1600	1600	1600	1600	1830	1850
4	10	4-10	2.5 km east of Yellowknife River Bridge	730	730	730	720	**	950	950	950	950	**	**
4	43	4-43	11 km east of Prelude Lake East Access	100	100	100	100	**	130	130	130	140	**	130
5	1	5-1	1 km east of Highway 2 and 5 intersection	560	530	520	510	520	740	710	690	690	700	730
5	19	5-19	19 km east of Highway 2 and 5 intersection	170	160	160	170	170	230	220	220	220	210	220
5	65	5-65	5 km south of Highway 5 and 6 intersection	80	70	70	80	70	110	100	100	100	110	90
5	232	5-232	25km west of Fort Smith	130	120	120	120	**	200	190	180	180	**	140
5	257	5-257	6.1 km west of Fort Smith	410	390	390	390	380	530	510	500	480	480	460
6	30	6-30	8.5 km east of Pine Point Access	80	80	80	80	80	100	110	100	100	90	90
6	74	6-74	16 km west of Fort Resolution	110	100	110	100	110	140	140	130	130	120	140
7	35	7-35	2.6 km south of Fort Liard	120	120	120	**	**	130	130	130	**	**	130
7	253	7-253	0.3 km south of Highway 1 and 7 intersection	30	30	30	30	30	40	40	40	50	50	50
8	34	8-34	10 km west of Midway Lake	50	50	40	40	40	100	100	90	90	100	90
8	90	8-90	4.6 km north of Fort Mcpherson Access	80	80	80	80	90	180	170	150	160	180	170
8	243	8-243	1 km south of Cabin Creek	80	80	70	80	80	130	130	120	120	130	130
8	260	8-260	0.7 km north of airport access	730	690	630	630	630	760	900	830	850	930	880
8	268	8-268	1.3 km south of Inuvik	1270	1210	1120	1120	1150	1300	1640	1510	1500	1650	1560

Note:

** 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	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												
			1993	584	237					550		467	298					506
Dettah	1	dvr-1	2001	56	161			283	284	256		216						
			2000	48	34	54	95	261	310	211	278	290	277	235				274
			1999		44	53	292	277		245	270	289	293	246				266
			1998	73	65	57	31	121	156	134	121	98	241	252	186			139
			1997								126	98	241	252	186			127
			1996								237	211	252	262				231
			1995	48	42	44	118		260	215	212	250	240	217				227
			1994			52	130	269	228	252	248	228	228	125				254
			1993	48	43	55	212	223	210	198	190	211	222	248				199
Paradise Gardens	2	pgr-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	2004	40	61	55		59										
			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			
Hay River Dene Village	1	hrd-1	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				395	362		366	375	396			378
			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	39			
			1993	28	27	137	376			411	356	365	333	344	234	50		

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

Winter Road	Location (km)	Counter ID	Year	Opening Date	Closing Date	Monthly Average Daily Traffic					ADT	
						Dec	Jan	Feb	March	April		May
Aklavik	1	akl-1	1996	Dec 19 / 95	Apr 26 / 96			32	49	43		41
			1995	Dec 23 / 94	Apr 24 / 95							
			1994	Jan 18 / 94	Apr 28 / 94							
			1993	Dec 15 / 92	May 2 / 93			53	61	70	32	54
Colville Lake	1	col-1	2005	Feb 8 / 05	Mar 29 / 05			54	54			54
Deline / Fort Franklin	1	deln	1998	Feb 3 / 98	Mar 16 / 98		13	15				15
			1997	Feb 4 / 97	Mar 17 / 97		110	73	46			76
			1996	Jan 18 / 96	Mar 20 / 96							
	1	ftf-1	1995	Jan 20 / 95	Mar 26 / 95			39	35			37
			1994	Jan 25 / 94	Mar 30 / 94			42	19	30		30
		1993					16	23	35	21	23	
Dettah Ice Road		dettah	2005	Dec 10/04	Apr 11/05	652	624	829	973			791
Highway No. 1	692	1-692	2005	Jan 26 / 05	Mar 31 / 05		39	49	51			49
Highway No. 1	914	1-914	2005	Jan 26 / 05	Mar 30 / 05		21	70	64			63
			1998	Feb 6 / 98	Mar 16 / 98		10	7				8
			1997	Feb 14 / 97	Mar 17 / 97			7	34	17		19
			1996	Jan 26 / 96	Mar 20 / 96							
			1995	Jan 12 / 95	Mar 19 / 95				29	35		32
			1994	Dec 23 / 93	Mar 29 / 94			12	20	23		19
		1993	Jan 11 / 93	Mar 26 / 93			27	27		27		
Highway No. 1	1022	1-102	2005	Jan 26 / 05	Mar 16 / 05		51	70	86			80
			1999	Dec 31 / 98	Mar 16 / 99			33				33
			1998	Jan 23 / 98	Mar 16 / 98			107	139			112
			1997	Jan 14 / 97	Mar 17 / 97				9	10		10
			1996	Jan 8 / 96	Mar 20 / 96							
			1995	Jan 18 / 95	Mar 26 / 95							
			1994	Dec 29 / 93	Mar 30 / 94			40	49	55		48
		1993	Jan 14 / 93	Mar 29 / 93		16	19	18	4	14		
Highway No. 1	1031	1-104	1998	Jan 14 / 98	Mar 16 / 98		14	10	10	9		10
			1997	Jan 14 / 97	Mar 17 / 97			66	42			54
			1996	Jan 8 / 96	Mar 20 / 96							
			1995	Jan 19 / 95	Mar 26 / 95							
		1994	Dec 29 / 93	Mar 31 / 94		19	20	24		21		
Nahanni Butte	2	nbwr	1997	Dec 9 / 96	Apr 17 / 97		23	40	69	13		36
			1996	Dec 1 / 95	Mar 25 / 96		11	10	19		13	
			1995	Dec 01 / 94	Mar 26 / 95		10	17	39		22	
			1994	Dec 18 / 93	Mar 28 / 94			20	18		19	
			1993	Dec 15 / 92	Mar 27 / 93			13	12		12	
Rae Lakes	72	lacr	1997	Feb 7 / 97	Mar 25 / 97		78	170	152			133
			1996	Feb 2 / 96	Mar 20 / 96							
			1995	Jan 13 / 95	Mar 22 / 95							
Trout Lake	1	tlwr	2002	Jan 14 / 02	Mar 18 / 02		6	7				7
			2001	Dec 18 / 00	Mar 15 / 01							
			2000	Jan 11 / 00	Mar 15 / 00							
			1999	Dec 21 / 98	Mar 16 / 99		9	7	9		8	
			1998	Jan 20 / 98	Mar 16 / 98				5	5	5	
			1997	Jan 11 / 97	Mar 17 / 97				5	9	7	
			1996	Jan 20 / 96	Mar 15 / 96		4	6	11	9	8	
			1995	Dec 22 / 94	Mar 22 / 95				8		8	
		1994	Jan 18 / 94	Mar 31 / 94								
		1993	Dec 24 / 92	Mar 24 / 93		8	10	12		10		
Tuktoyaktuk	1	tuk-1	1997	Dec 20 / 96	Apr 25 / 97		30	44	61			45
			1996	Dec 19 / 95	Apr 19 / 96							
			1995	Dec 22 / 94	Apr 24 / 95			74			74	
			1994	Jan 05 / 94	Apr 28 / 94							
			1993	Dec 18 / 92	May 2 / 93		32	83	108	101	81	
Wha'ti	72	elwr	1997	Jan 20 / 97	Mar 25 / 97		31	45	64			47
			1996	Jan 15 / 96	Mar 20 / 96							
			1995	Jan 13 / 95	Mar 29 / 95							
			1994	Feb 18 / 94	Apr 18 / 94							
			1993	Jan 27 / 93	April 2 / 93				16	14	15	
Wood Buffalo National Park		wbnp	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.

Table 6 Opening and Close Dates for Winter Roads & Ice Bridges

Year	Winter Roads		Ice Bridges		Mining Roads	
	Open	Close	Open	Close	Open	Close
1983/84	Open	Closed	Open	Closed	Open	Closed
1984/85	Open	Closed	Open	Closed	Open	Closed
1985/86	Open	Closed	Open	Closed	Open	Closed
1986/87	Open	Closed	Open	Closed	Open	Closed
1987/88	Open	Closed	Open	Closed	Open	Closed
1988/89	Open	Closed	Open	Closed	Open	Closed
1989/90	Open	Closed	Open	Closed	Open	Closed
1990/91	Open	Closed	Open	Closed	Open	Closed
1991/92	Open	Closed	Open	Closed	Open	Closed
1992/93	Open	Closed	Open	Closed	Open	Closed
1993/94	Open	Closed	Open	Closed	Open	Closed
1994/95	Open	Closed	Open	Closed	Open	Closed
1995/96	Open	Closed	Open	Closed	Open	Closed
1996/97	Open	Closed	Open	Closed	Open	Closed
1997/98	Open	Closed	Open	Closed	Open	Closed
1998/99	Open	Closed	Open	Closed	Open	Closed
1999/00	Open	Closed	Open	Closed	Open	Closed
2000/01	Open	Closed	Open	Closed	Open	Closed
2001/02	Open	Closed	Open	Closed	Open	Closed
2002/03	Open	Closed	Open	Closed	Open	Closed
2003/04	Open	Closed	Open	Closed	Open	Closed
2004/05	Open	Closed	Open	Closed	Open	Closed

Last 20 years average

Open	17-Dec	7-Jan	16-Dec	19-Nov	21-Jan	6-Feb	13-Dec	25-Dec	3-Jan	20-Dec	25-Nov	24-Nov	14-Nov	15-Dec	Open	27-Jan
Closed	11-Apr	23-Mar	27-Mar	30-Mar	8-Apr	7-Apr	17-Apr	27-Apr	28-Apr	18-Apr	21-Apr	21-Apr	5-May	5-May	Closed	2-Apr

Last 5 years average

Open	10-Jan	2-Jan	18-Jan	27-Dec	16-Mar	16-Mar	13-Dec	12-Dec	10-Jan	27-Dec	26-Nov	18-Nov	13-Nov	13-Dec	Open	28-Jan
Closed	31-Dec	20-Mar	29-Mar	30-Mar	18-Apr	18-Apr	19-Apr	30-Apr	28-Apr	18-Apr	23-Apr	23-Apr	7-May	6-May	Closed	4-Apr

Table 7 Truck Traffic on Selected Winter Mining Roads

Winter Road	2005		2004		2003		2002		2001		2000		1999		1998 (3)	
	Total Tonnage	Total Number of Trucks	Total Tonnage	Total Number of Trucks	Total Tonnage	Total Number of Trucks	Total Tonnage	Total Number of Trucks	Total Tonnage	Total Number of Trucks	Total Tonnage	Total Number of Trucks	Total Tonnage	Total Number of Trucks	Total Tonnage	Total Number of Trucks
Lupin Mine (1)	7,709	251	11,097	288	27,832	702	27,315	698	26,239	688	21,672	557	3,356	85	4,220	112
Others on Lupin (Echo Bay) Road	117,661	3,434	105,127	2,984	101,990	3,003	132,077	3,913	99,297	2,912	66,609	3,402	41,453	1,759	73,712	2,431
BHP Diamonds Ekati Mine	94,303	2,848	53,960	1,572	67,394	2,202	93,009	3,339	111,506	4,127	25,068	-	-	-	-	-
Diavik Diamond Mines Inc.	18,089	703	6,852	295	1,602	87	3,083	218	8,546	363	12,031	-	-	-	-	-
DeBeers Shep Lake	14,771	614	2,108	117	-	-	-	-	-	-	-	-	-	-	-	-
Mineral Exploration Traffic	252,533	7,850	179,144	5,256	198,818	5,994	256,915	8,168	245,687	8,090	125,380	3,959	57,208	1,844	81,988	2,543
Total Lupin Road	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Colomac Mine (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

- (1) Lupin data provided by Echo Bay Mines Ltd. Road is typically open during most of January to March.
 2005 season 76 days (January 22 - April 7)
 2004 season 72 days (January 20 - April 1)
 2003 season 71 days (January 21 - April 1)
 2002 season 49 days (February 11 - March 31)
 2001 season 70 days (February 4 - April 14)
 2000 season 70 days (January 22 - April 7)
 1999 season 59 days (February 11 - 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.

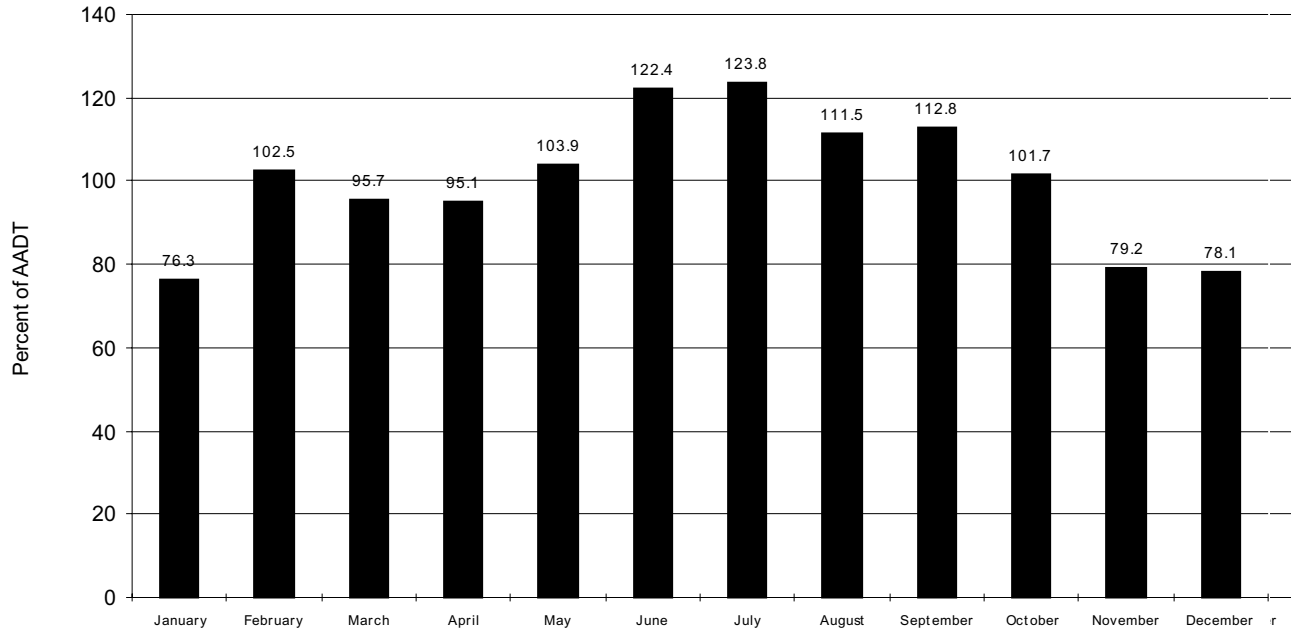
- (2) 1997 was the last season for the Colomac winter road

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

Refer to Figure 1 for the location of these two winter roads.

Figure 4 Distribution of Monthly Traffic

Typical Near Urban Highway (Hwy 3, Km 338)



Typical Rural Highway (Hwy 5, Km 65)

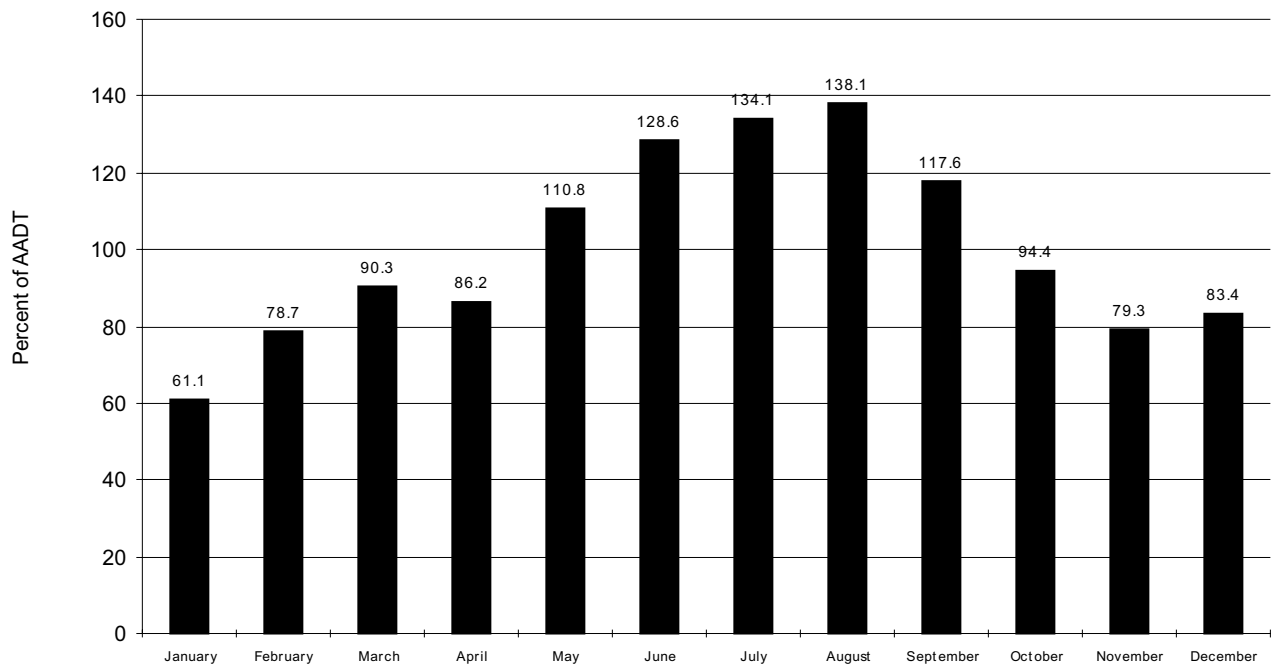
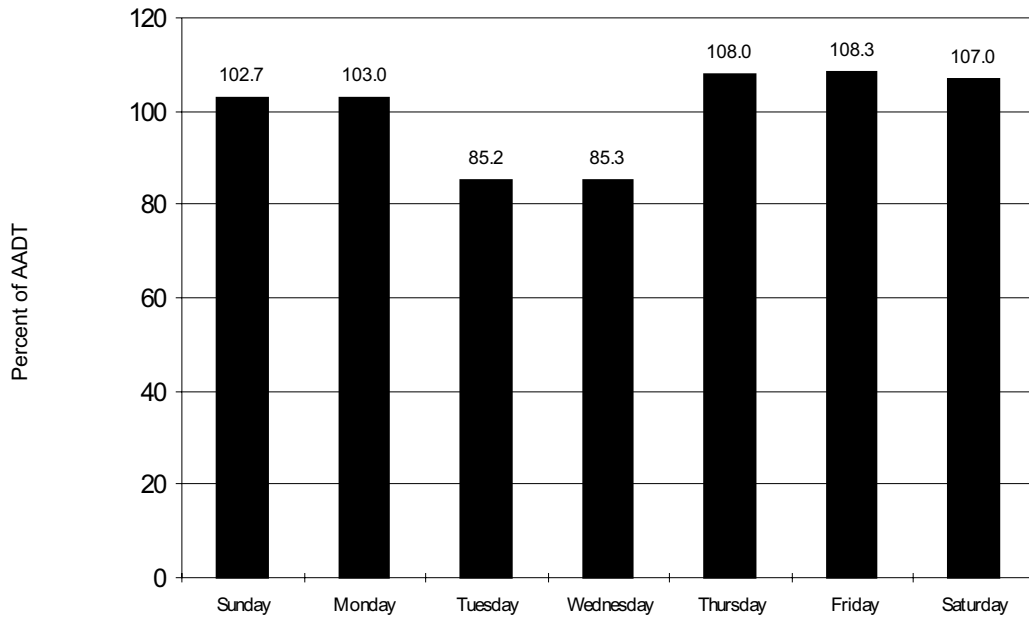


Figure 5
Distribution of Daily Traffic

Typical Near Urban Highway
(Hwy 3, Km 338)



Typical Rural Highway
(Hwy 5, Km 65)

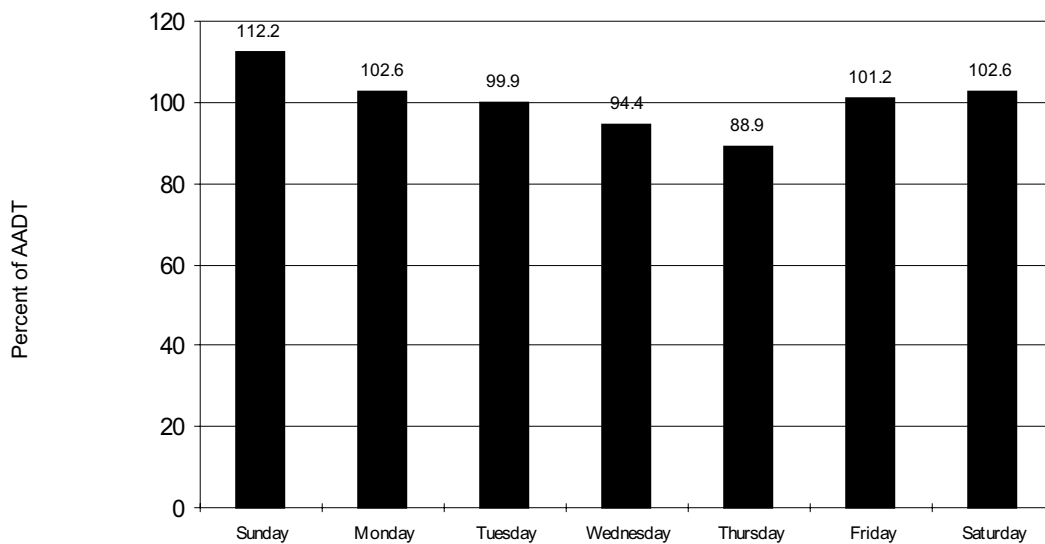
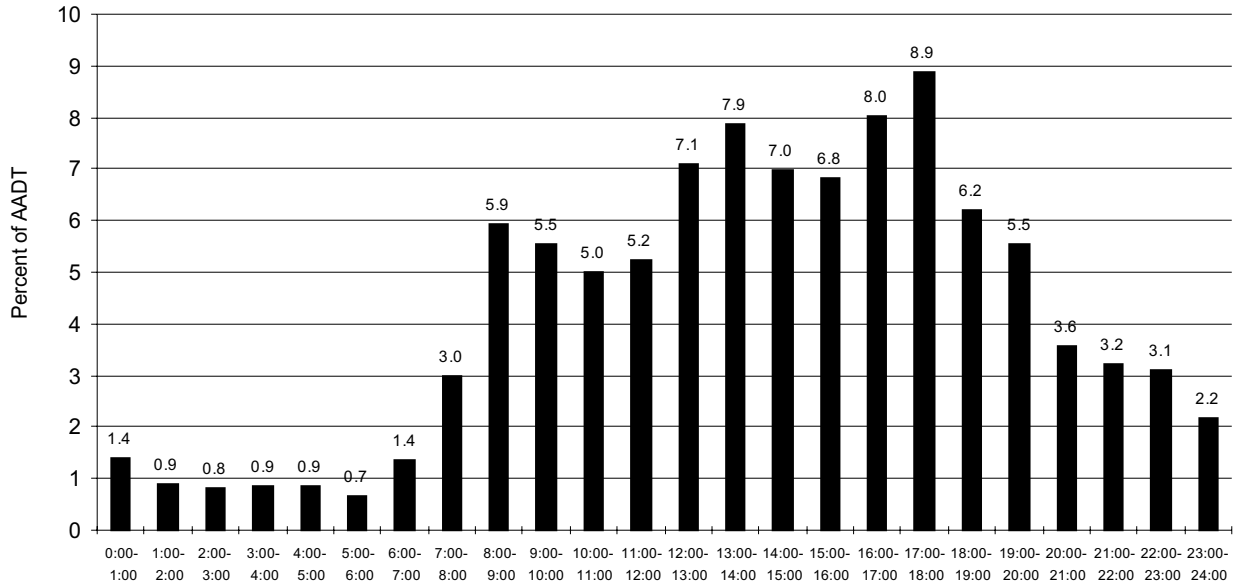


Figure 6 Distribution of Hourly Traffic

Typical Near Urban Highway (Hwy 3, Km 338)



Typical Rural Highway (Hwy 5, Km 65)

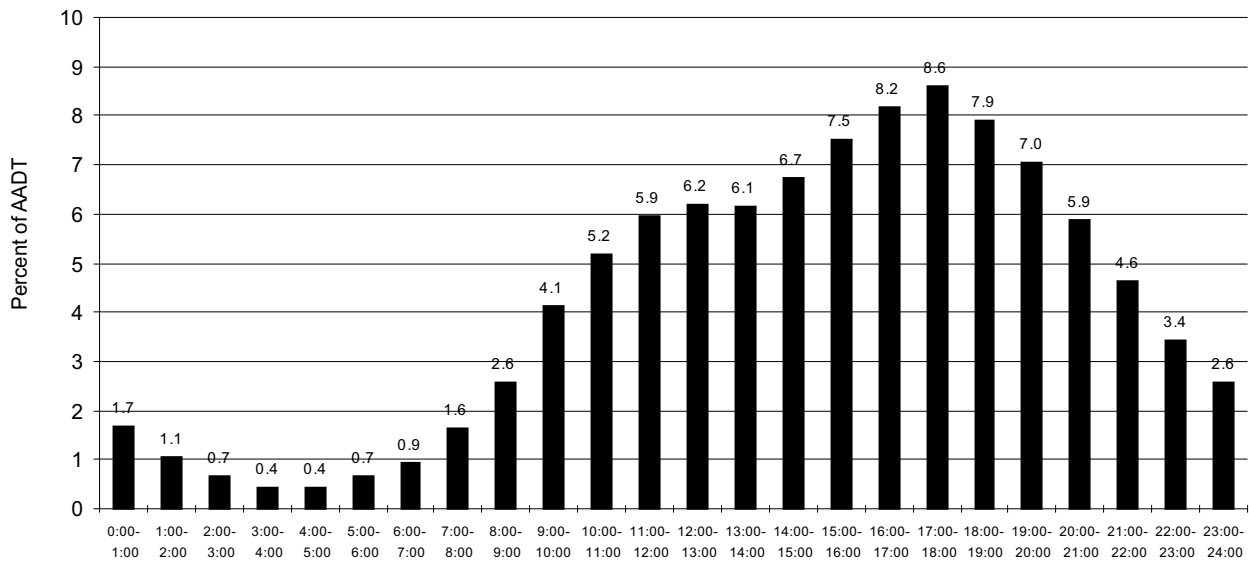


Table 8 Estimated Vehicle Kilometres Traveled on NWT Highways

Hwy	km	Length (km)	AADT							Vehicle Kilometres Traveled (millions)						
			2004	2003	2002	2001	2000	1999	1998	2004	2003	2002	2001	2000	1999	1998
1	58	Alberta Border to Enterprise	84.2	250	250	240	230	220	210	7.6	7.8	7.4	7.1	6.7	6.6	
1	85	Enterprise to Junction with Hwy #3	103.4	270	270	250	240	230	230	10.3	10.1	9.4	9.2	8.6	8.8	
		1 Arterial	187.6							17.9	17.9	16.8	16.2	15.3	15.4	
2	10	Enterprise to Junction with Hwy #5	37.5	410	420	400	400	400	410	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	1390	1420	1340	1340	1340	1340	3.1	3.2	3.0	3.0	3.0	3.0	
		2 Arterial	43.7							8.7	9.0	8.5	8.5	8.5	8.7	
3	2	Junction with Hwy #1 to Fort Providence Access	44.1	250	240	220	200	190	200	4.0	3.9	3.5	3.2	3.0	3.2	
3	175	Fort Providence Access to Edzo Access	192.4	210	210	190	180	180	180	14.8	14.5	13.5	12.9	12.9	12.9	
3	240	Edzo Access to Rae Access	8.5	650	640	590	570	550	560	2.0	2.0	1.8	1.8	1.7	1.7	
3	305	Rae Access to Yellowknife Access (Old Airport Road)	88.5	450	440	410	400	390	390	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	5570	5460	5060	4980	5010	4890	10.8	10.6	9.8	9.6	9.7	9.5	
		3 Arterial	338.8							46.1	45.2	41.7	40.3	40.1	39.9	
Total Arterial			570.1								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	60	60	50	50	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	1.3	1.3	1.3	1.3	1.3	1.3	
1	477	Fort Simpson Access to Mackenzie River	79.2	40	50	40	40	40	40	1.2	1.5	1.2	1.2	1.2	1.2	
		1 Collector	362.9							8.6	9.1	8.6	8.1	7.5	7.5	
4	1	Junction with Hwy #3 to Royal Oak Mine	5	1240	1240	1240	1230	1330	1460	2.3	2.3	2.3	2.2	2.4	2.7	
4	10	Royal Oak Mine to Prelude Lake East Access	11.8	730	730	730	720	680	680	3.1	3.1	3.1	3.1	2.9	2.9	
4	43	Prelude Lake East Access to Tibbet Lake	52.4	100	100	100	100	100	100	1.9	1.9	1.9	1.9	1.9	1.9	
		4 Collector	69.2							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	560	530	520	510	520	520	0.5	0.5	0.5	0.5	0.5	0.5	
5	19	Hay River Indian Village Access to Birch Creek	24.8	170	160	160	170	170	170	1.6	1.5	1.4	1.5	1.6	1.6	
*5	48	Birch Creek to Junction with Hwy #6	33.1	170	170	170	170	170	170	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	80	70	70	70	80	70	5.5	5.0	4.8	5.0	5.1	4.9	
5	232	Salt River Village Access Road to Fort Smith Access (Trout St.)	13.5	130	120	120	120	110	110	0.6	0.6	0.6	0.6	0.5	0.5	
5	257	Fort Smith Access (Trout St.) to King St. Intersection	4.3	420	390	390	390	390	380	0.7	0.6	0.6	0.6	0.6	0.6	
		5 Collector	266							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	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	110	100	100	110	0.8	0.8	0.8	0.8	0.8	0.8	
		6 Collector	90							2.9	2.8	2.7	2.8	2.7	2.8	
7	35	BC Border to Fort Liard	37.6	120	120	120	120	120	120	1.6	1.6	1.6	1.6	1.6	1.6	
7	253	Fort Liard to Junction with Hwy #1	216.5	30	30	30	30	30	30	2.7	2.6	2.4	2.5	2.7	2.7	
		7 Collector	254.1							4.3	4.3	4.1	4.1	4.3	4.3	
8	34	Yukon Border to Fort McPherson Access	85.4	50	50	40	40	40	40	1.6	1.6	1.1	1.1	1.1	1.1	
8	90	Fort McPherson Access to Mackenzie River Ferry	57.2	80	80	80	90	90	90	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	70	80	90	80	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	690	630	630	630	630	1.6	1.5	1.4	1.4	1.4	1.4	
8	268	Tuk Park Access Road to Inuvik	3.9	1270	1210	1120	1120	1150	1150	1.8	1.7	1.6	1.6	1.6	1.5	
		8 collector	269.3							10.0	9.9	9.0	9.3	9.8	9.1	
Total Collector			1311.5								43.5	43.1	41.2	41.2	41.3	40.6
Total Vehicle Kilometres Travelled											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 = 1.7%)
 Percent increase from 1999 to 2000 = 1.0% (Arterial increase = 1.6%; Collector increase = -0.2%)
 Percent increase from 2000 to 2001 = 1.9% (Arterial increase = 3.1%; Collector increase = 0.2%)
 Percent increase from 2001 to 2002 = 6.6% (Arterial increase = 7.6%; Collector increase = 4.6%)
 Percent increase from 2002 to 2003 = 0.9% (Arterial increase = 1.0%; Collector increase = 0.9%)

Average annual percent increase from 1998 to 2003 = 2.2% (Arterial increase = 2.8%; Collector increase = 1.4%)

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 7
Vehicle Kilometres Traveled on Northwest Territories Highways

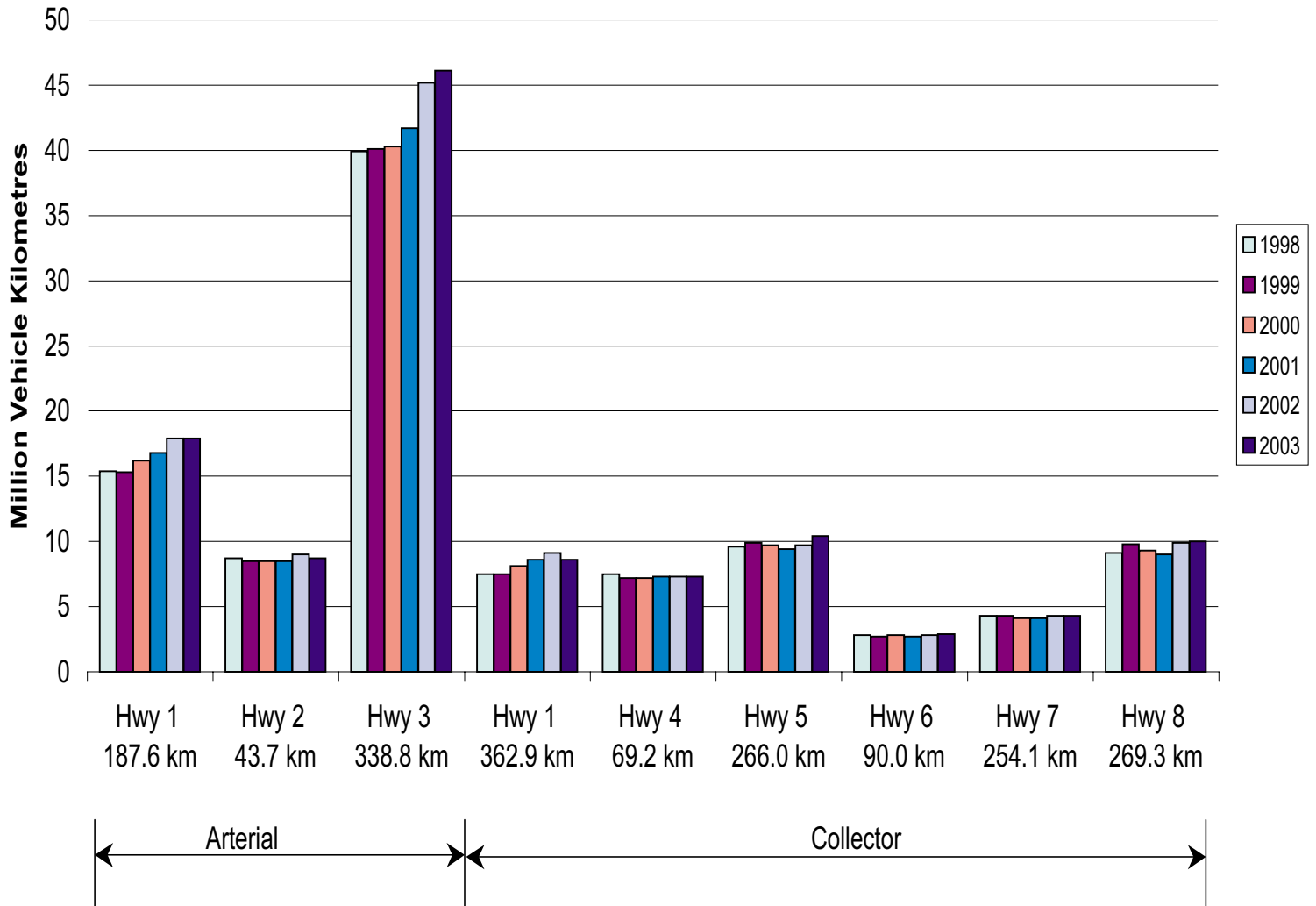
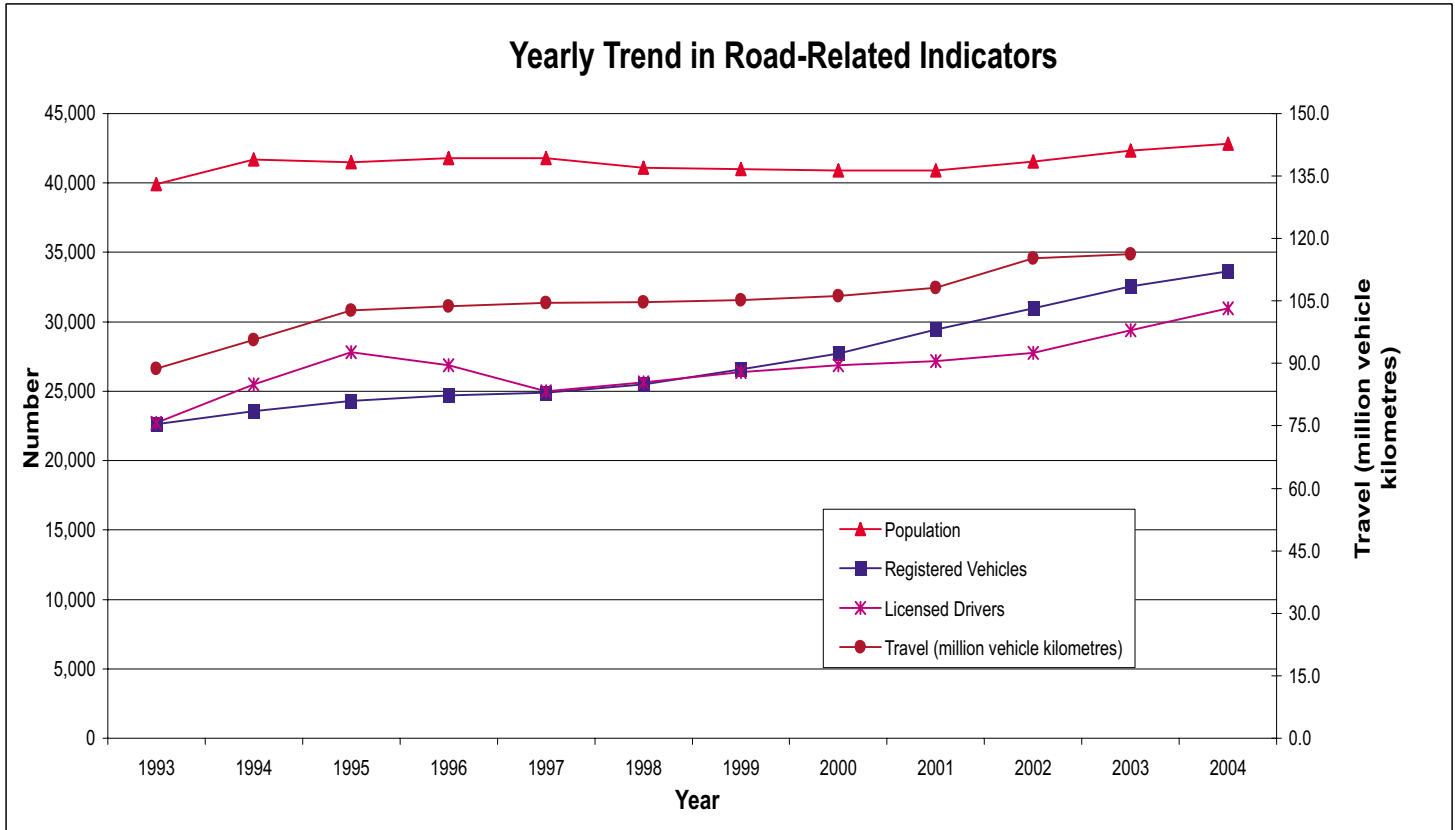


Figure 8



Indicators	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
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
Registered Vehicles	22,631	23,575	24,323	24,717	24,884	25,470	26,599	27,703	29,449	30,969	32,567	33,642
Licensed Drivers	22,742	25,471	27,794	26,853	24,997	25,655	26,371	26,880	27,148	27,748	29,368	30,958
Travel (million vehicle kilometres)	88.7	95.6	102.7	103.8	104.6	104.7	105.2	106.2	108.2	115.3	116.3	n/a

*Source: Northwest Territories Stats Bureau

Section 3.0

Vehicle Movements at Ferries and Weigh Scales

Figure 9
Average Daily Traffic on Highway Ferries

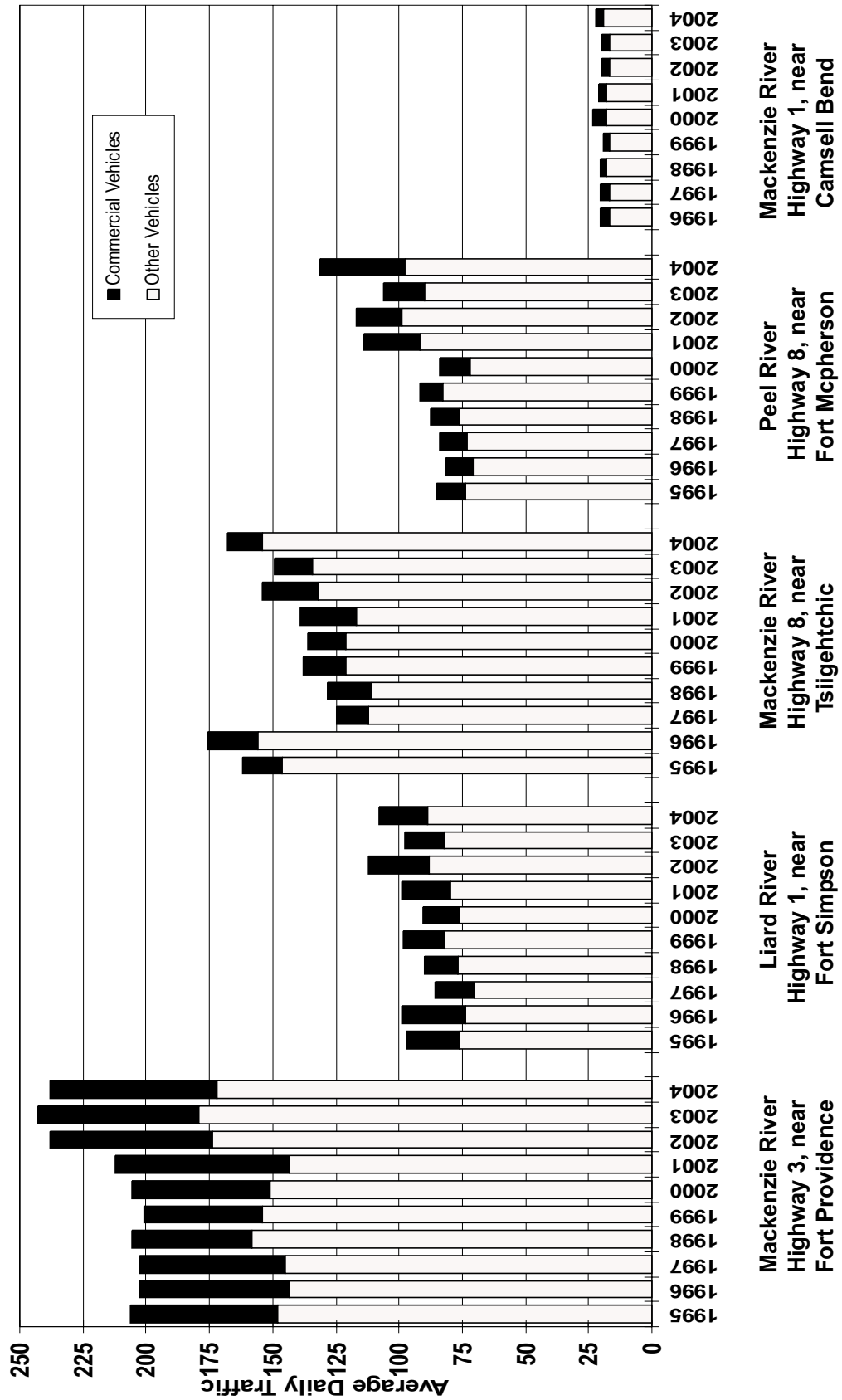


Table 9 Average Daily Traffic on Highway Ferries

Ferry Crossing	Location	Ferry	Vehicle Type	Year											
				2004	2003	2002	2001	2000	1999	1998	1997	1996	1995		
Dory Point	Highway 3, near Fort Providence	M.V. Merv Hardie	Commercial Vehicles	66	64	64	69	55	47	47	58	59	59		
			Light Vehicles	154	159	155	130	134	136	141	130	129	134		
			Trailers Towed	18	20	19	13	17	18	17	15	14	14		
Total				238	243	238	212	205	201	206	202	202	206		
Liard River	Highway 1, near Fort Simpson	M.V. Lafferty	Commercial Vehicles	19	16	24	19	14	16	13	16	25	21		
			Light Vehicles	82	76	81	75	70	76	72	66	68	70		
			Trailers Towed	7	6	7	5	6	6	5	5	6	6		
Total				108	98	112	99	90	98	90	87	98	97		
Mackenzie River	Highway 8, near Tsiigehtchic	M.V. Louis Cardinal	Commercial Vehicles	19	15	22	22	15	17	18	13	20	16		
			Light Vehicles	135	127	119	105	106	106	93	97	139	132		
			Trailers Towed	14	7	13	12	13	15	15	15	17	14		
Total				168	149	154	139	134	138	126	125	175	161		
Peel River	Highway 8, near Fort McPherson	C.F. Abraham Francis	Commercial Vehicles	33	16	18	22	12	9	11	11	11	11		
			Light Vehicles	90	81	92	82	64	71	64	65	60	62		
			Trailers Towed	8	9	7	10	8	12	12	8	11	12		
Total				131	106	117	114	84	92	87	84	81	85		
Mackenzie River	Highway 1, near Camsell Bend	M.V. Johnny Berens	Commercial Vehicles	3	3	3	3	6	2	3	3	3	3		
			Light Vehicles	18	16	16	17	17	16	17	17	16	17		
			Trailers Towed	1	1	1	1	1	1	1	0	1	1		
Total				22	20	20	21	23	19	20	21	20	20		

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

Operating Season Open	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
May 17/04	Jan 6/05	May-04	4,060	271	67.46	5.59	2.04	22.91	0.07	0.76	1.16	26.95	7,469
		Jun-04	8,980	299	66.97	11.66	2.63	16.48	0.06	0.72	1.48	21.37	20,432
		Jul-04	10,576	341	68.97	11.42	1.68	15.98	0.09	0.60	1.27	19.61	21,528
		Aug-04	10,863	350	70.04	8.43	3.31	16.90	0.03	0.85	0.84	21.53	20,196
		Sep-04	7,894	263	67.20	5.28	2.89	22.54	0.06	0.65	1.38	27.51	12,665
		Oct-04	6,694	216	65.58	3.73	2.66	25.84	0.16	1.11	0.91	30.68	11,573
		Nov-04	4,708	157	53.48	2.85	3.04	38.28	0.04	1.34	0.98	43.67	7,563
		Dec-04	1,892	61	13.64	1.43	4.28	75.42	0.32	2.11	2.80	84.94	2,530
		Jan-05	301	50	6.31	1.00	3.65	82.06	1.00	1.99	3.99	92.69	421
		Total	55,968	238	64.58	7.56	2.68	23.09	0.08	0.79	1.23	27.86	104,377
May 17/03	Jan 9/04	May-03	3,403	227	66.91	8.35	1.18	20.89	0.15	0.71	1.82	24.74	5,962
		Jun-03	9,553	318	67.83	12.93	1.62	15.49	0.05	0.68	1.39	19.24	20,432
		Jul-03	10,576	341	68.97	11.42	1.68	15.98	0.09	0.60	1.27	19.61	21,528
		Aug-03	11,024	356	72.78	9.44	2.47	13.93	0.09	0.47	0.82	17.78	22,428
		Sep-03	7,592	253	67.06	7.13	2.25	21.67	0.09	0.59	1.21	25.82	13,703
		Oct-03	6,934	224	66.93	4.20	2.52	24.34	0.07	0.89	1.04	28.87	12,257
		Nov-03	4,997	167	56.15	3.08	3.08	35.32	0.06	0.92	1.38	40.76	7,974
		Dec-03	3,159	102	34.19	3.45	4.31	54.76	0.32	1.27	1.71	62.36	4,697
		Jan-04	482	54	11.41	2.70	1.45	78.63	0.41	2.49	2.90	85.89	740
		Total	57,720	243	65.40	8.45	2.23	21.87	0.10	0.71	1.25	26.16	109,721
May 22/02	Jan 27/03	May-02	2,133	213	61.28	7.03	2.11	27.75	0.09	0.70	1.03	31.69	3,279
		Jun-02	9,137	305	65.63	13.69	1.93	16.75	0.13	0.58	1.29	20.67	17,689
		Jul-02	10,313	333	68.02	11.70	1.73	16.78	0.13	0.71	0.93	20.28	20,781
		Aug-02	10,680	345	72.70	10.15	1.37	14.33	0.07	0.49	0.91	17.15	21,989
		Sep-02	7,178	239	68.36	6.73	2.70	20.74	0.24	0.52	0.71	24.91	12,930
		Oct-02	6,607	213	67.11	3.33	3.16	24.63	0.12	0.88	0.77	29.56	11,651
		Nov-02	5,529	184	55.78	2.39	3.04	36.23	0.22	0.96	1.39	41.83	9,216
		Dec-02	5,034	162	63.23	3.42	2.60	28.96	0.10	0.74	0.95	33.35	9,038
		Jan-03	3,117	115	39.65	2.09	3.66	50.85	0.13	1.28	2.34	58.26	4,962
		Total	59,728	238	65.17	7.98	2.28	22.68	0.13	0.70	1.06	26.65	111,535
May 12/01	Feb 4/02	Total	56,766	212	61.1	6.4	2.3	27.7	0.6	0.8	1.2	32.6	115,370
May 09/00	Jan 15/01	Total	51,753	205	65.1	8.2	2.1	22.3	0.0	0.8	1.5	26.7	99,729
May 09/99	Jan 20/00	Total	51,753	201	67.8	8.7	2.0	19.2	0.1	0.8	1.3	23.4	102,541
May 15/98	Jan 13/99	Total	51,820	206	51.9	5.5	1.8	14.1	0.0	0.7	1.0	17.6	100,691
May 12/97	Jan 29/98	Total	52,660	202	64.3	7.2	2.5	24.0	0.1	0.8	1.1	28.5	100,851
May 16/96	Jan 14/97	Total	49,909	202	63.7	6.8	3.1	24.2	0.1	0.6	1.4	29.4	96,779
May 13/95	Jan 12/96	Total	50,440	206	65.0	6.6	4.1	22.4	0.3	0.7	0.8	28.4	96,699
May 11/94	Jan 17/95	Total	45,905	187	63.5	6.3	3.0	25.2	0.1	0.8	1.1	30.2	90,852
May 6/93	Jan 14/94	Total	45,428	179	65.4	5.3	3.9	23.5	0.1	1.0	0.8	29.2	88,841

Note: To calculate the monthly average daily traffic, the total monthly volume is divided by the number of days in the month, regardless of whether or not the ferry operated everyday in the month, except for the beginning and ending months where the actual number of days is used.

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	Light Vehicles	Trailers Towed	Truck Single Unit	Truck Semi Trailer	Percent of Total			Other Commercial	Number of Passengers	
								Over size	Bus	Trailer			
May 16/04	Oct 26/04	1,451	97	82.84	4.00	3.65	3.03	0.07	0.00	6.41	13.16	2,949	
	May-04	3,225	108	73.83	6.42	2.95	12.68	0.16	0.37	3.60	19.75	6,551	
	Jun-04	3,870	125	74.34	6.46	4.39	9.87	0.36	0.21	4.37	19.20	8,211	
	Jul-04	3,774	122	75.46	7.68	3.95	8.37	0.32	0.29	3.92	16.85	8,125	
	Sep-04	3,249	108	75.78	5.94	3.51	13.17	0.52	0.06	1.02	18.28	6,455	
	Oct-04	2,095	81	80.14	2.58	4.96	10.21	0.38	0.24	1.48	17.28	4,045	
	Total	17,664	108	76.14	5.96	3.88	10.15	0.32	0.22	3.34	17.91	36,336	
May 13/03	Nov 4/03	1,797	95	86.03	3.62	2.78	3.78	0.00	0.22	3.56	10.35	3,796	
	May-03	2,957	99	75.62	9.06	4.13	7.51	0.03	0.27	3.38	15.32	6,052	
	Jun-03	3,072	99	76.30	8.79	2.96	8.76	0.23	0.13	2.83	14.91	6,797	
	Jul-03	3,294	106	77.47	8.86	3.64	7.65	0.18	0.27	1.91	13.66	7,247	
	Aug-03	3,173	106	72.68	5.01	4.85	15.51	0.66	0.25	1.04	22.31	5,866	
	Sep-03	2,654	86	78.30	3.20	6.78	8.63	0.08	0.60	2.41	18.50	5,482	
	Oct-03	246	62	84.15	2.85	5.69	2.85	0.00	0.00	4.47	13.01	439	
	Nov-03	17,193	98	77.18	6.67	4.25	8.95	0.22	0.28	2.45	16.16	35,679	
		Total	793	79	82.60	2.77	3.91	3.53	0.00	0.88	6.31	14.63	1,557
	May 22/02	Nov 6/02	3,533	118	69.77	7.39	3.26	15.20	0.03	0.65	3.71	22.84	7,103
	Jun-02	4,067	131	72.93	7.70	4.18	12.20	0.00	0.44	2.56	19.38	8,649	
	Jul-02	4,008	129	72.08	7.56	5.86	11.35	0.05	0.27	2.82	20.36	8,324	
	Aug-02	3,412	114	68.76	4.51	5.45	19.05	0.29	0.32	1.61	26.73	6,236	
	Sep-02	2,689	87	74.23	3.27	5.65	14.80	0.07	0.19	1.79	22.50	5,040	
	Oct-02	474	79	82.28	2.95	5.91	6.33	0.00	0.00	2.53	14.77	921	
	Nov-02	18,976	112	72.23	6.09	4.83	13.67	0.08	0.40	2.70	21.68	37,830	
	Total	17,146	99	75.7	5.7	5.3	9.4	0.3	0.5	3.1	18.7	34,612	
May 15/01	Nov 2/01	16,048	90	77.2	6.8	4.4	7.7	0.2	0.6	3.1	16.0	33,040	
May 10/00	Nov 3/00	17,376	98	77.5	5.8	4.3	8.7	0.2	0.9	2.5	16.7	34,907	
May 06/98	Nov 10/98	17,022	90	79.4	5.8	4.2	7.4	0	0.8	2.3	14.8	34,808	
May 15/97	Nov 12/97	14,885	87	74.7	6.1	5.1	10.7	0.1	0.9	2.4	19.2	30,666	
May 6/96	Oct 26/96	16,932	98	69	5.8	5.6	16	0.2	0.7	2.8	25.3	35,472	
May 9/95	Oct 27/95	16,646	97	71.6	6.5	5.1	14.4	0.2	0.2	2	21.9	34,734	
May 6/94	Nov 6/94	17,869	97	68.8	5.9	5.6	17.1	0.2	0.2	2.2	25.3	36,163	
May 12/93	Nov 17/93	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 Tsiighehtchic, M.V. Louis Cardinal)

Operating Season	Month	Total Traffic	Average Daily Traffic	Light Vehicles	Trailers Towed	Truck Single Unit	Truck Semi Trailer	Percent of Total			Other	Total Commercial	Number of Passengers
								Over size	Bus	Over size			
June 4/04	Oct 20/04	4,665	173	77.64	13.40	2.66	5.04	0.06	0.02	1.18	8.96	8,548	
	Jun-04	6,298	203	78.09	12.00	1.79	6.35	0.11	0.16	1.49	9.91	11,095	
	Jul-04	6,090	196	83.63	6.58	2.28	5.85	0.43	0.07	1.17	9.79	10,478	
	Sep-04	4,261	142	80.66	2.58	3.66	12.41	0.28	0.33	0.78	16.76	6,789	
	Oct-04	2,260	108	81.68	1.55	3.36	12.17	0.13	0.04	1.06	16.77	3,732	
	Total	23,574	168	80.24	8.17	2.58	7.61	0.22	0.08	1.09	11.58	40,642	
June 5/03	Nov 2/03	4,449	171	83.86	6.47	1.84	7.01	0.22	0.04	0.54	9.67	8,497	
	Jun-03	5,679	183	83.85	5.85	1.60	7.48	0.07	0.30	0.85	10.30	12,359	
	Jul-03	5,397	174	84.82	6.15	3.35	4.63	0.04	0.24	0.76	9.02	11,985	
	Sep-03	3,763	125	87.14	2.07	1.49	8.90	0.08	0.05	0.27	10.79	8,543	
	Oct-03	2,973	96	86.68	0.13	2.99	9.35	0.24	0.07	0.54	13.19	6,772	
	Nov-03	50	50	96.00	0.00	4.00	0.00	0.00	0.00	4.00	4.00	113	
	Total	22,311	149	85.05	4.63	2.25	7.17	0.12	0.16	0.62	10.32	48,269	
June 4/02	Oct 19/02	4,641	179	73.67	11.27	3.40	9.20	0.50	0.06	1.90	15.06	10,210	
	Jun-02	5,891	190	74.61	12.07	4.72	5.60	0.24	0.20	2.56	13.33	13,135	
	Jul-02	4,832	156	80.77	7.99	2.63	6.42	0.41	0.21	1.57	11.24	10,928	
	Aug-02	3,754	125	81.78	2.98	3.09	9.91	1.25	0.00	0.99	15.24	8,033	
	Sep-02	2,012	106	76.19	0.80	6.76	13.67	0.99	0.15	1.44	23.01	4,538	
	Oct-02	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	
June 6/00	Oct. 23/00	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	
May 27/98	Oct. 23/98	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	
June 4/96	Oct 16/96	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	
May 30/94	Oct 30/94	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	

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	Truck Semi Trailer	Percent of Total			Other	Total Commercial	Number of Passengers
								Over size	Bus	Trailer			
June 2/04	Oct 25/04	3,180	110	75.06	11.51	2.26	7.30	0.06	0.06	0.06	3.74	13.43	5,718
	Jun-04	5,406	174	70.59	7.51	2.09	6.84	0.24	0.24	0.24	12.47	21.90	10,245
	Jul-04	6,023	194	73.83	4.75	0.91	5.99	0.05	0.05	0.05	14.01	21.42	8,897
	Aug-04	3,230	108	59.41	2.32	1.08	15.26	0.12	0.12	0.12	22.01	38.27	4,498
	Sep-04	1,698	61	49.88	1.59	0.18	15.96	0.24	0.24	0.24	32.16	48.53	2,002
	Total	19,537	131	68.67	5.94	1.38	8.84	0.10	0.10	0.10	14.81	25.39	31,360
June 4/03	Oct 29/03	2,323	86	68.40	15.93	3.96	7.88	0.04	0.04	0.04	3.27	15.67	5,275
	Jun-03	4,024	130	69.73	12.97	0.77	11.53	0.32	0.32	0.32	4.35	17.30	8,830
	Jul-03	5,230	169	85.03	6.52	0.50	4.63	0.88	0.88	0.84	1.61	8.45	10,264
	Aug-03	2,652	88	74.89	4.11	1.17	17.99	0.41	0.41	0.00	1.43	21.00	5,028
	Sep-03	1,486	51	79.95	0.94	1.01	17.83	0.07	0.07	0.20	0.00	19.11	2,836
	Total	15,715	106	76.46	8.63	1.24	10.38	0.53	0.53	0.39	2.37	14.91	32,233
May 27/02	Oct 25/02	253	51	71.15	1.19	4.74	22.92	0.00	0.00	0.00	0.00	27.67	514
	Jun-02	2,629	88	69.46	7.99	3.80	11.98	0.38	0.38	0.38	5.86	22.56	5,536
	Jul-02	4,751	153	74.26	10.29	1.54	9.05	0.55	0.55	0.36	3.96	15.45	9,882
	Aug-02	5,300	171	83.91	4.47	1.25	6.68	0.62	0.62	1.08	2.00	11.62	11,965
	Sep-02	3,314	110	86.18	2.23	0.63	8.27	1.36	1.36	0.21	1.12	11.59	6,632
	Total	17,810	117	78.72	5.72	1.73	14.84	4.61	4.61	0.66	2.11	23.99	27,932
June 10/01	Oct 29/01	16,114	114	71.8	8.6	3.1	14.4	0.3	0.3	0.4	1.4	19.6	31,498
	Jun-01	11,959	84	76.3	9.7	1.7	9.0	0.3	0.3	0.5	2.6	14.1	27,823
	Jul-01	12,713	92	76.8	13.4	0.8	5.6	0.5	0.5	0.5	2.4	9.8	28,066
	Aug-01	13,097	87	73.8	13.2	1.4	6.9	0.3	0.3	0.4	4.0	13.0	32,775
	Sep-01	11,738	84	77.0	9.7	1.6	7.4	0.1	0.1	0.5	3.7	13.3	27,454
	Total	11,237	81	73.5	13.3	1.8	8.2	0.1	0.1	0.5	2.7	13.3	25,891
May 22/95	Oct 24/95	13,247	85	72.4	14.6	1.1	8.7	0	0	0.4	2.7	13.0	31,485
	Jun-95	14,012	90	74.9	12.4	0.8	9.1	0.0	0.0	0.3	2.5	12.7	35,352
	Jul-95	14,561	98	77.6	9.9	0.8	8.8	0.2	0.2	0.6	2.2	12.6	38,078
	Aug-95	14,561	98	77.6	9.9	0.8	8.8	0.2	0.2	0.6	2.2	12.6	38,078
	Sep-95	14,561	98	77.6	9.9	0.8	8.8	0.2	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 Daily Traffic	Light Vehicles	Trailers Towed	Truck Single Unit	Truck Semi Trailer	Percent of Total			Other	Total Commercial	Number of Passengers
								Bus	Over size	Trailer			
May 28/04 Oct 22/04	May-04	77	19	89.61	2.60	5.19	0.00	0.00	0.00	0.00	2.60	7.79	173
	Jun-04	503	17	87.28	1.19	9.54	0.40	0.00	0.00	0.00	1.59	11.53	1,125
	Jul-04	707	23	82.46	5.52	5.94	3.54	0.00	0.00	0.57	1.98	12.02	1,613
	Aug-04	686	22	85.71	4.96	5.83	2.04	0.00	0.00	0.00	1.46	9.33	1,493
	Sep-04	761	25	81.73	4.34	3.94	8.67	0.00	0.00	0.00	1.31	13.93	1,409
	Oct-04	508	23	79.53	3.35	6.10	8.27	0.00	0.00	0.00	2.76	17.13	857
	Total	3,242	22	83.44	4.04	6.01	4.60	0.00	0.12	0.00	1.79	12.52	6,670
May 30/03 Oct 31/03	May-03	37	19	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103
	Jun-03	477	16	79.66	3.14	9.64	2.10	0.00	0.00	0.00	5.45	17.19	1,001
	Jul-03	611	20	74.96	3.76	13.58	4.42	0.00	0.00	0.00	3.27	21.28	1,302
	Aug-03	671	22	86.14	4.47	5.37	1.49	0.00	0.00	0.00	2.53	9.39	1,641
	Sep-03	672	22	84.67	6.55	5.51	1.19	0.00	0.00	0.00	2.08	8.78	1,335
	Oct-03	695	22	82.45	3.02	6.91	5.76	0.00	0.00	0.00	1.87	14.53	1,334
	Total	3,163	20	82.04	4.20	7.90	3.00	0.00	0.00	0.00	2.85	13.75	6,716
May 31/02 Nov 01/02	May-02	14	14	92.86	0.00	0.00	0.00	0.00	0.00	0.00	7.14	7.14	40
	Jun-02	494	16	75.91	3.64	9.72	3.04	0.00	0.00	0.00	7.69	20.45	982
	Jul-02	739	24	81.46	4.74	5.95	2.84	0.00	0.00	0.00	3.52	13.80	1,649
	Aug-02	625	20	78.08	9.60	5.28	4.00	0.00	0.00	0.00	3.04	12.32	1,282
	Sep-02	672	22	81.99	5.95	6.85	2.83	0.00	0.00	0.60	1.79	12.05	1,409
	Oct-02	545	18	78.72	3.30	7.89	7.34	0.00	0.00	0.00	2.75	17.98	1,007
	Nov-02	17	17	94.12	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33
	Total	3,106	20	79.65	5.54	6.89	3.86	0.00	0.13	0.35	3.57	14.81	6,402
May 22/01 Oct 29/01	Total	3,404	21	79.5	5.5	6.1	2.9	1.0	0.5	4.3	14.8	6,742	
May 20/00 Oct 30/00	Total	3,786	23	72.9	3.3	3.9	3.3	0.3	0.2	16.2	23.8	7,593	
May 21/99 Oct 16/99	Total	2,779	19	82.6	4.8	4.7	2.8	0.0	0.1	4.9	12.6	7,270	
May 15/98 Nov. 03/98	Total	3,384	20	83.9	3.2	4.6	4.4	0.3	0.1	3.4	12.9	8,959	
May 18/97 Oct 27/97	Total	3,396	21	82.6	1.8	8.8	2.0	0.1	0.2	4.4	15.6	8,448	
May 22/96 Oct 25/96	Total	3,161	20	80.0	4.5	4.9	5.2	0.2	0.1	5.2	15.5	6,926	
May 17/95 Oct 16/95	Total	2,990	20	83.3	2.4	6.0	4.2	0.6	0.1	3.3	14.3	6,935	
June 3/94 Nov 2/94	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	2000												12 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Single Axle	8	7	7	7	6	10	9	12	4	6	7	2	85	0.74
Tandem	11	29	13	6	10	21	8	8	13	24	12	10	165	1.44
5 Axle	246	412	586	164	221	210	204	204	148	214	170	187	2966	25.81
6 Axle	129	376	495	87	70	122	126	128	132	118	127	157	2067	17.99
A Train	70	73	119	57	82	148	117	116	91	75	85	56	1089	9.48
B Train	78	223	195	28	24	33	30	19	33	55	29	66	813	7.08
C Train	10	36	10	2	0	2	1	1	2	6	4	7	81	0.70
Super B	460	671	806	171	88	284	225	215	258	300	361	277	4116	35.82
Logging Truck	39	35	35	0	0	0	0	0	0	0	0	0	109	0.95
Total	1051	1862	2266	522	501	830	720	703	681	798	795	762	11,491	100.00

Unit Type	2001												12 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Single Axle	16	12	16	3	5	4	2	12	6	2	1	1	80	0.55
Tandem	15	23	26	11	18	10	18	27	102	10	54	2	316	2.17
5 Axle	427	466	699	262	191	217	186	181	170	203	204	42	3248	22.29
6 Axle	320	516	679	210	113	163	157	226	172	169	176	38	2939	20.17
A Train	76	97	130	72	107	134	139	117	114	114	95	25	1220	8.37
B Train	170	171	244	103	14	13	26	21	18	26	11	7	824	5.65
C Train	2	33	41	28	0	0	0	0	0	0	0	0	104	0.71
Super B	855	912	1575	568	118	333	202	183	260	315	397	125	5843	40.09
Logging Truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total	1881	2230	3410	1257	566	874	730	767	842	839	938	240	14,574	100.00

Note: In December 2001, it is estimated that only one-third of the data was collected due to increased weigh scale closures.

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

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	1592	10.01
B Train	17	134	173	7	57	12	22	14	5	26	4	12	483	3.04
C Train	5	51	99	4	2	1	7	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	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	66	50	64	82	47	39	73	704	4.21
5 Axle	304	469	725	217	217	340	207	266	343	321	227	210	3846	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

Source: Enterprise Weigh Scale Database.

Table 16 Commodity Types at the Enterprise Weigh Scale

2000

Commodity Type	2000												12 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Ammonium Nitrate	38	103	133	23		1	1	1	1	2		23	326	2.84
Asphalt	0	0	0	0	0	9	14	16	7	1		0	47	0.41
Aviation Fuel	37	38	58	35	7	70	47	39	36	29		17	442	3.85
Building Material	8	4	41	3	9	15	42	34	11	8		4	186	1.62
Calcium		1	4		2	64	27		8				106	0.92
Camp Shack	34	98	54	3	0	0	6	4	20	3		19	245	2.13
Cement	1	14	21	1	3	5	6	5	5	2		70	174	1.51
Compressed Gases	7	5	7	6	4	17	2	3	4	0		3	61	0.53
Construction Material				3				1	1			3	8	0.07
Containers	0	2	0	0	0	1	1	0	0	0		0	7	0.06
Corrosive Materials	6	10	10	4	6	5	9	7	7	12		4	82	0.71
Danger Placard	19	27	39	17	24	33	30	35	31	20		19	322	2.80
Drill Rig	1	0	0	0	0	0	0	0	0	0		7	8	0.07
Equipment	56	107	144	27	15	19	36	36	19	25		25	548	4.77
Explosives	2	6	5	0	1	5	3	4	6	5		3	41	0.36
Flammable Liquids	3	9	13	7	8	21	13	10	7	3		4	98	0.85
Fuel Oil	332	637	578	78	19	36	43	55	76	156		152	2408	20.96
Gasoline	33	39	73	26	15	48	33	46	28	21		22	406	3.53
General Freight	240	326	456	181	191	289	257	271	274	238		187	3152	27.43
Gravel	0	3	7	1	92	0	0	2	0	39		1	148	1.29
Hay Bales	1	1	1	0	3	0	0	0	1	2		0	9	0.08
Highway Salt	1	3	1	0	0	0	0	0	0	10		7	34	0.30
Household Furniture	2	6	15	7	9	4	5	11	7	4		3	82	0.71
Lime	2	4	6	2	0	3	0	0	3	2		2	25	0.22
Liquified Petroleum Gases	44	35	33	19	8	7	7	9	21	17		41	263	2.29
Logs	82	68	63			13	8	1		1		1	237	2.06
Lumber	4	7	8	2	8	22	10	2		2		4	72	0.63
Miscellaneous	70	202	390	56	62	116	94	81	79	163		117	1484	12.91
Mobile Homes	6	2	3	0	1	0	1	2	1	3		1	20	0.17
Pipe	2	15	12	1	0	6	1	0	2	0		8	47	0.41
Steel	0	2	14	0	2	0	0	4	1	6		0	31	0.27
Tanks	0	8	17	0	0	5	7	8	5	6		3	60	0.52
Tare Weight	0	45	17	3	1	3	1	1	2	1		0	75	0.65
Tires	3	14	12	1	0	0	1	0	0	0		0	31	0.27
Vehicles	17	21	31	16	11	13	15	15	18	17		16	206	1.79
Total	1051	1862	2266	522	501	830	720	703	681	798	795	762	11491	100.00

Table 16 Commodity Types at the Enterprise Weigh Scale

2001

Commodity Type	2001												11 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Ammonium Nitrate	73	149	166	16	1	1	1	2	2	1	6	6	424	2.91
Asphalt	0	0	0	0	0	10	1	1	0	0	0	0	12	0.08
Aviation Fuel	52	34	33	41	31	103	43	46	60	37	27	10	517	3.55
Building Material	14	33	97	18	19	36	52	27	23	11	10	2	342	2.35
Calcium	2	0	1	0	0	71	32	14	0	0	0	0	120	0.82
Camp Shack	89	83	104	7	0	15	3	13	18	12	17	2	363	2.49
Cement	276	28	12	3	10	6	12	14	34	29	26	10	460	3.16
Compressed Gases	3	2	4	3	3	5	2	4	4	5	7	0	42	0.29
Construction Material	36	66	127	11	1	2	9	2	3	2	5	0	262	1.80
Containers	21	4	23	6	4	21	27	12	5	2	2	0	127	0.87
Corrosive Materials	3	5	7	5	5	9	6	9	6	9	4	1	69	0.47
Danger Placard	30	52	55	18	28	29	25	23	23	16	20	6	325	2.23
Drill Rig	0	1	0	0	0	0	0	0	0	0	0	0	1	0.01
Equipment	67	93	170	49	17	38	27	36	20	33	27	19	596	4.09
Explosives	8	5	7	2	1	3	4	8	2	6	1	0	47	0.32
Flammable Liquids	0	13	16	4	7	9	8	10	8	7	10	2	94	0.64
Fuel Oil	477	659	1313	579	29	48	37	51	105	132	281	84	3795	26.04
Gasoline	42	56	68	21	29	37	25	26	41	31	23	5	404	2.77
General Freight	299	344	458	266	248	267	298	246	254	277	235	51	3243	22.25
Gravel	76	25	6	9	33	20	17	23	87	9	47	0	352	2.42
Hay Bales	1	1	0	0	0	0	2	0	0	3	1	0	8	0.05
Highway Salt	2	4	7	0	0	0	0	0	5	11	13	3	45	0.31
Household Furniture	9	19	21	4	11	10	6	5	6	11	10	2	114	0.78
Lime	3	4	3	1	0	5	0	0	3	2	2	0	23	0.16
Liquified Petroleum Gases	47	37	42	17	11	6	3	9	11	14	20	7	224	1.54
Logs	10	6	5	2	1	4	1	1	1	1	0	0	2	0.01
Lumber	193	300	387	89	42	84	36	123	75	137	101	22	1589	10.90
Miscellaneous	0	0	0	2	1	2	1	3	4	5	1	0	19	0.13
Mobile Homes	5	51	44	19	3	3	22	18	5	7	7	0	184	1.26
Pipe	16	56	98	34	1	4	8	10	10	7	11	2	257	1.76
Steel	3	5	27	6	10	4	9	11	5	3	3	0	86	0.59
Tanks	3	36	57	9	0	2	0	1	1	0	3	3	115	0.79
Tare Weight	4	28	25	4	0	0	0	0	0	0	0	0	61	0.42
Tires	17	31	27	12	20	19	14	19	20	22	18	3	222	1.52
Vehicles	17	31	27	12	20	19	14	19	20	22	18	3	222	1.52
Total	1881	2230	3410	1257	566	874	730	767	842	839	938	240	14574	100.00

Note: In December 2001, it is estimated that only one-third of the data was collected due to increased weigh scale closures.

Table 16 Commodity Types at the Enterprise Weigh Scale

2002

Commodity Type	2002												12 Month Total	% of Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Ammonium Nitrate	68	237	364	3	1	0	2	2	3	1	1	0	682	4.47
Asphalt	0	0	1	0	0	2	8	2	0	0	0	0	13	0.09
Aviation Fuel	34	29	39	47	2	108	45	35	47	56	37	18	497	3.25
Building Material	13	27	36	13	3	23	51	10	14	19	7	1	217	1.42
Calcium	0	1	1	0	2	30	61	16	3	1	0	5	120	0.79
Camp Shack	24	54	34	13	1	3	7	4	2	11	4	2	159	1.04
Cement	142	115	138	6	0	8	30	12	19	12	7	22	511	3.35
Compressed Gases	2	4	4	2	3	6	6	5	3	0	4	2	41	0.27
Construction Material	10	58	31	11	1	11	8	6	5	3	2	4	150	0.98
Containers	4	12	9	3	3	30	19	7	2	4	1	0	94	0.62
Corrosive Materials	6	6	7	5	2	6	5	4	9	5	4	5	64	0.42
Danger Placard	4	1	1	0	0	3	1	6	1	3	5	6	31	0.20
Drill Rig	0	0	0	0	0	0	0	0	0	0	0	1	1	0.01
Equipment	65	119	135	67	23	57	43	28	54	50	51	20	712	4.66
Explosives	2	1	2	1	1	3	7	11	5	6	2	2	43	0.28
Flammable Liquids	3	18	7	3	2	10	8	4	10	1	0	2	68	0.45
Fuel Oil	417	1082	1209	166	8	39	68	76	114	126	349	260	3914	25.63
Gasoline	37	32	44	32	11	29	34	22	36	35	27	20	359	2.35
General Freight	284	335	377	293	168	354	308	305	336	405	355	267	3787	24.80
Gravel	1	3	9	2	17	76	1	19	106	64	0	0	298	1.95
Hay Bales	0	0	2	5	0	0	0	0	1	1	1	2	12	0.08
Highway Salt	4	0	1	2	0	0	0	0	2	12	5	4	30	0.20
Household Furniture	12	12	7	5	5	23	20	29	30	18	13	10	184	1.21
Lime	1	1	4	1	0	1	0	0	0	1	1	5	15	0.10
Liquified Petroleum Gases	39	34	46	29	7	9	5	4	13	31	27	30	274	1.79
Logs	0	0	2	1	0	2	0	0	2	1	0	0	8	0.05
Lumber	0	1	4	1	0	9	1	3	0	2	0	0	21	0.14
Miscellaneous	115	303	408	94	53	135	154	143	137	123	122	151	1938	12.69
Mobile Homes	0	0	0	7	0	6	6	4	11	18	10	7	69	0.45
Pipe	12	62	55	6	0	3	2	3	2	0	2	0	147	0.96
Steel	25	30	24	12	0	7	5	4	8	4	1	1	121	0.79
Tanks	1	34	10	2	1	5	3	2	13	11	9	1	92	0.60
Tare Weight	14	66	140	1	2	5	2	4	1	0	0	1	236	1.55
Tires	21	28	24	0	0	0	0	0	2	0	0	1	76	0.50
Vehicles	28	44	39	24	3	20	22	17	24	22	25	17	285	1.87
Total	1388	2749	3214	857	319	1023	932	787	1015	1046	1072	867	15269	100.00

Table 16 Commodity Types at the Enterprise Weigh Scale

2003

Commodity Type	2003												12 Month Total	% of Total	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Ammonium Nitrate	87	276	442	4	4	6	6	1	0	1	0	0	0	827	5.68
Asphalt	0	0	0	0	0	0	3	1	0	0	0	0	0	4	0.03
Aviation Fuel	35	32	33	16	24	53	44	41	48	31	33	33	33	423	2.90
Building Material	5	16	53	7	11	7	35	6	19	18	3	11	11	191	1.31
Calcium	3	0	0	0	1	22	0	7	0	0	1	0	0	34	0.23
Camp Shack	7	32	50	3	7	8	3	0	17	15	5	2	2	149	1.02
Cement	9	28	70	8	2	9	11	7	9	19	6	0	0	178	1.22
Compressed Gases	0	6	3	0	0	3	2	1	1	3	1	0	0	20	0.14
Construction Material	5	17	41	12	3	14	12	12	17	10	15	4	4	162	1.11
Containers	2	16	40	0	10	24	12	1	12	3	5	0	0	125	0.86
Corrosive Materials	5	6	5	2	2	2	1	2	0	3	1	4	4	33	0.23
Danger Placard	3	6	12	2	0	4	8	4	3	2	1	2	2	47	0.32
Drill Rig	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0.01
Equipment	41	102	167	35	24	17	43	18	54	55	26	22	22	604	4.15
Explosives	1	5	6	0	1	1	5	3	2	0	0	0	0	24	0.16
Flammable Liquids	2	4	3	0	2	1	3	1	0	4	0	0	0	20	0.14
Fuel Oil	415	1,033	1,243	92	14	32	45	42	103	147	307	363	363	3,836	26.34
Gasoline	32	35	71	20	15	14	43	20	31	34	16	33	33	364	2.50
General Freight	308	374	442	279	327	248	355	248	360	398	337	295	295	3,971	27.26
Gravel	1	3	7	1	42	7	58	45	37	99	1	5	5	306	2.10
Hay Bales	3	0	0	0	1	0	0	0	1	4	0	0	0	9	0.06
Highway Salt	5	1	2	0	0	0	0	3	1	17	5	5	5	39	0.27
Household Furniture	18	18	16	9	17	12	26	24	14	13	14	15	15	196	1.35
Lime	3	9	3	1	2	3	0	0	2	5	2	2	2	32	0.22
Liquified Petroleum Gases	37	44	39	20	8	8	11	5	10	25	33	39	39	279	1.92
Logs	0	0	0	0	0	0	1	0	1	0	0	1	1	3	0.02
Lumber	2	4	4	1	2	9	1	0	0	0	0	0	0	23	0.16
Miscellaneous	63	359	491	69	66	104	127	82	105	86	56	33	33	1,641	11.27
Mobile Homes	8	8	5	4	3	3	6	11	12	8	1	4	4	73	0.50
Pipe	2	27	39	2	1	6	0	9	18	2	0	0	0	106	0.73
Steel	0	18	28	5	3	1	1	0	1	1	0	2	2	60	0.41
Tanks	0	14	10	2	3	5	3	2	6	10	2	0	0	57	0.39
Tare Weight	40	101	198	6	10	3	11	3	4	21	3	3	3	403	2.77
Tires	1	17	22	7	1	3	2	0	0	3	1	0	0	57	0.39
Vehicles	19	45	41	10	24	18	31	7	17	31	14	12	12	269	1.85
Total	1,162	2,656	3,587	617	630	647	909	606	905	1,068	889	890	890	14,566	100.00

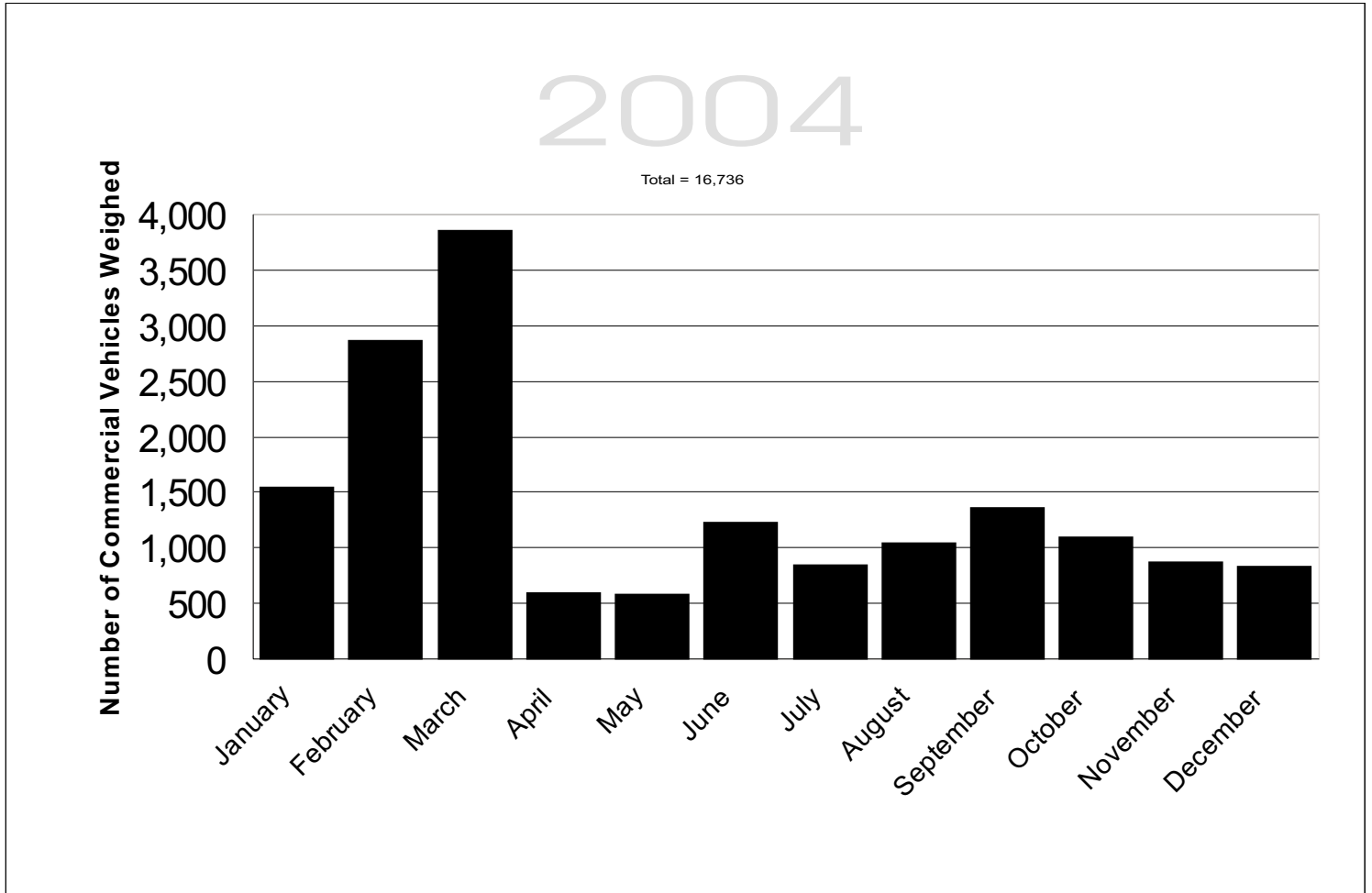
Table 16 Commodity Types at the Enterprise Weigh Scale

2004

Commodity Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	12 Month Total	% of Total
Ammonium Nitrate	76	310	336	3	1	0	1	3	1	2	3	0	736	4.40
Asphalt	0	0	0	0	0	0	5	16	1	0	0	0	22	0.13
Aviation Fuel	3	2	3	2	1	0	0	1	2	2	1	0	17	0.10
Building Material	7	18	28	15	10	26	31	26	16	15	2	6	200	1.20
Calcium	0	2	2	0	0	1	62	5	3	6	4	4	89	0.53
Camp Shack	8	43	39	9	3	8	3	18	15	9	5	6	166	0.99
Cement	14	34	45	4	2	5	13	21	19	13	2	1	173	1.03
Compressed Gases	4	4	7	3	2	5	3	3	6	2	2	1	42	0.25
Construction Material	6	41	31	8	6	20	10	5	27	23	21	7	205	1.22
Containers	5	11	18	6	8	38	19	6	5	2	0	1	119	0.71
Corrosive Materials	7	3	17	0	0	11	4	2	9	7	4	6	70	0.42
Danger Placard	3	0	2	0	3	2	5	12	4	6	0	0	37	0.22
Drill Rig	6	2	14	0	0	0	0	2	2	0	0	0	26	0.16
Equipment	58	113	144	23	12	39	30	28	61	43	44	32	627	3.75
Explosives	4	3	6	1	2	7	4	6	4	4	7	2	50	0.30
Flammable Liquids	2	5	19	0	9	3	3	5	8	4	1	0	59	0.35
Fuel Oil	442	904	1,285	85	46	78	38	83	181	166	192	182	3,682	22.00
Gasoline	79	75	127	51	60	149	62	96	138	85	60	62	1,044	6.24
General Freight	344	523	606	260	286	433	301	299	480	479	326	333	4,670	27.90
Gravel	72	3	21	0	24	46	6	107	52	21	1	1	354	2.12
Hay Bales	0	0	3	0	0	2	0	2	1	1	8	0	17	0.10
Highway Salt	1	1	8	1	1	0	0	1	5	6	12	0	36	0.22
Household Furniture	16	18	36	7	11	21	13	24	36	19	8	10	219	1.31
Lime	4	9	9	2	0	4	1	1	4	2	3	2	41	0.24
Liquified Petroleum Gases	61	33	49	14	15	13	4	17	18	20	25	29	298	1.78
Logs	52	56	9	0	0	1	0	0	0	0	1	0	119	0.71
Lumber	3	9	17	3	0	0	2	1	6	2	3	0	46	0.27
Miscellaneous	110	154	388	61	47	178	164	184	147	103	64	107	1,707	10.20
Mixed Dangerous Goods	23	27	25	11	9	28	19	2	28	11	4	5	192	1.15
Mobile Homes	2	2	12	0	6	19	4	7	6	8	0	2	68	0.41
Pipe	16	58	33	2	1	11	2	17	8	1	1	0	150	0.90
Re-Weigh	36	142	151	3	3	6	2	7	7	5	8	5	375	2.24
Steel	11	7	39	3	0	3	3	0	3	4	12	6	91	0.54
Tanks	5	12	34	1	1	7	7	13	3	1	0	0	84	0.50
Tare Weight	60	211	234	5	5	8	5	2	17	9	16	7	579	3.46
Tires	2	6	11	0	2	3	1	2	1	1	0	3	32	0.19
Vehicles	9	25	50	13	6	50	17	22	34	20	30	18	294	1.76
Total	1,551	2,866	3,858	596	582	1,225	844	1,046	1,358	1,102	870	838	16,736	100.00

Source: Enterprise Weigh Scale Database.

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
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

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 closure

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
2004	116	30	176	46	0	34	57	68	62	77	76	27	769
2003	61	96	313	33	8	49	78	69	101	88	63	43	1,002
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

Overdimension Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2004	250	195	555	125	56	207	244	227	199	177	154	130	2,519
2003	126	322	651	89	91	156	194	133	267	192	143	126	2,490
2002	200	436	442	129	45	91	113	141	139	143	92	88	2,059
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

Vehicle Registration Permits Issued (non-NWT Carriers)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
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

Fuel Tax Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2004	239	485	589	136	132	349	285	308	282	243	136	98	3,282
2003	72	514	690	133	139	332	289	187	353	209	127	157	3,202
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

- 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.
 - (7) In 2004, the weigh scale was open for 5,004 hours or 57% of the time

Figure 12 Commercial Vehicle Activity at the Inuvik and Fort Liard Weigh Scale

Inuvik Weigh Scale

Overweight Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2004	0	23	33	43	0	18	15	14	16	12	4	2	180
2003	24	24	53	22	0	12	10	8	28	26	10	4	221

Overdimension Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2004	36	57	93	155	0	31	33	33	37	17	10	3	505
2003	64	79	155	79	3	36	27	19	62	45	10	4	583

Vehicle Registration Permits Issued (non-NWT Carriers)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
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

Fuel Tax Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2004	7	12	45	47	6	11	24	18	49	11	0	11	241
2003	36	63	53	37	2	17	63	23	37	13	0	2	346

Fort Liard Weigh Scale

Overweight Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2004	2	32	24	0	0	0	10	16	2	0	4	0	90
2003	26	22	22	0	0	0	10	4	32	0	0	0	116

Overdimension Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2004	7	46	34	22	1	0	3	40	2	1	5	0	161
2003	54	44	36	5	0	2	13	11	56	1	0	0	222

Vehicle Registration Permits Issued (non-NWT Carriers)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
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

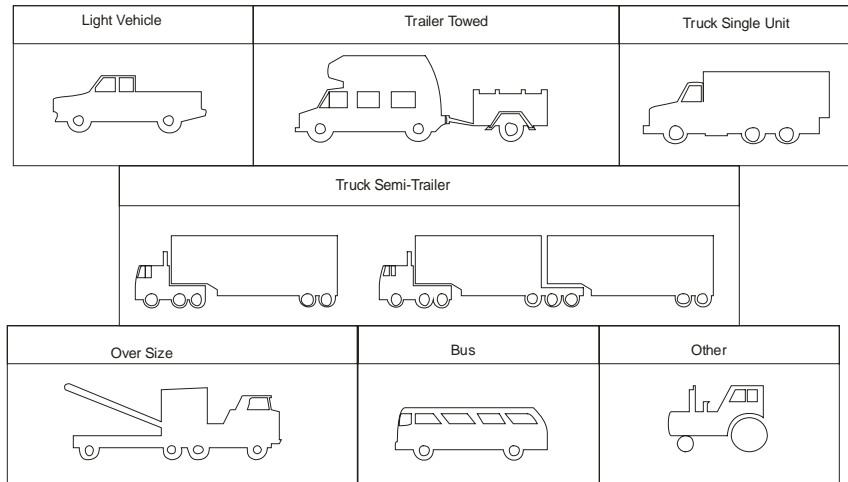
Fuel Tax Permits Issued

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2004	23	49	71	22	4	3	46	10	3	9	2	0	242
2003	78	22	6	14	2	1	7	12	29	7	1	1	180

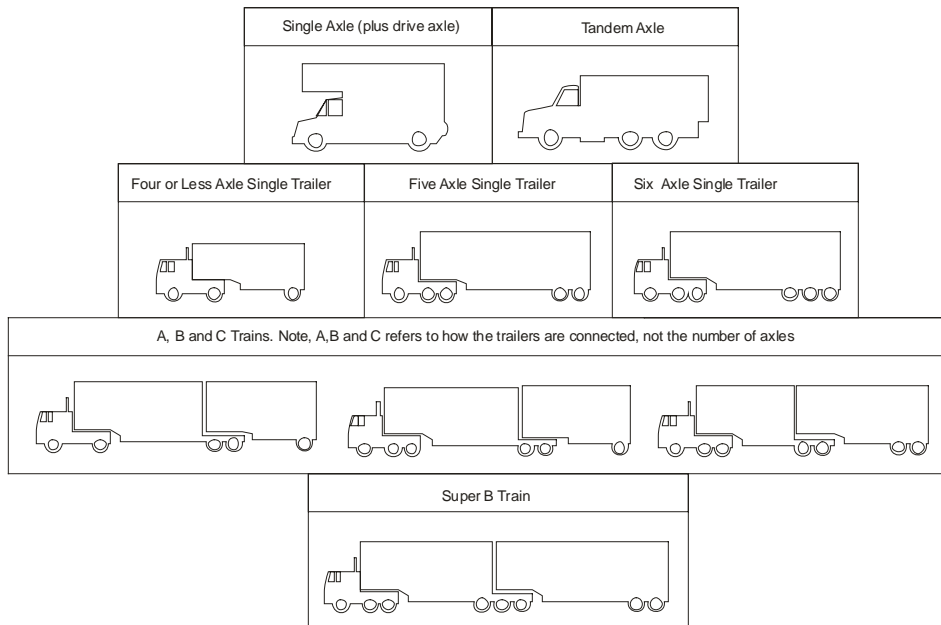
- Note:
- (1) A commercial vehicle is any vehicle with a GVW over 4500 kg
 - (2) Overweight and Overdimension permits are issued for a single trip
 - (3) All commercial vehicles in the Northwest Territories must register at the scale. Registration for NWT carriers is valid for one year. Non-NWT carriers 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

Figure 13 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

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.
- **Historical Lupin Winter Road Data** - shows the same information contained in Table 7 of the report for 1994-1997

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 and Policy Division of the Department of Transportation as listed in the Acknowledgements section of this report.