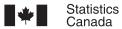
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# Canadian Vehicle Survey: Annual

2007





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# Canadian Vehicle Survey: Annual

### 2007

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### **User information**

### **Symbols**

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the Statistics Act
- E use with caution
- F too unreliable to be published

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# **Highlights**

- The number of light vehicles (weighing up to 4.5 tonnes) registered increased by 2.5% from 2006. That was the second highest increase since 2002. Alberta led the provinces in registration growth, while Prince Edward Island was the province with the smallest increase.
- Large passenger styles (vans, sport utility vehicles and pickup trucks) continued to be popular with Canadian drivers. For the first time since the survey began, larger styles were driven as much as smaller styles (cars and station wagons). Each now account for approximately half of all kilometres driven by light vehicles. In 2000, cars and station wagons drove 60% of all light vehicle kilometres.
- Canadians also drove these vehicles more than ever recorded by the survey. Nationally, vehicles travelled more
  than 332 billion kilometres in 2007. Light vehicles travelled 1.1% more kilometres in 2007 than they had the year
  before. Despite rising gasoline prices, light vehicle kilometres have increased each year since 2004 at a rate
  averaging 1.2% per year.
- Light vehicles in Canada traveled an average of 15,797 kilometres during 2007, the lowest annual average ever
  recorded by the survey. The average dropped, despite a slight increase in kilometres driven, due to the larger
  increase in the number of vehicles on the road compared to the previous year. Among the provinces, drivers in
  Nova Scotia were the busiest, while drivers in British Columbia drove their vehicles the least.
- Light vehicles fuelled by gasoline have shown improved fuel efficiency over the last few years. They consumed 10.9L/100km in 2007, compared to 11.1L/100km in 2004. Newer vehicles tended to outperform older vehicles in terms of fuel efficiency. Vehicles two years old or newer at the time of the survey consumed 4% less fuel per 100 kilometres driven compared to vehicles three to five years old, and 9% less than vehicles fourteen years or older.
- As with light vehicles, there were more registrations for trucks weighing 4.5 tonnes or more than had ever been
  recorded by the survey. The trucks travelled 10% more kilometres in 2007 than they had in 2006. This was the
  most kilometres ever recorded by the survey for the heaviest vehicles on the road.

### Introduction

Road vehicles dominate passenger travel and freight traffic. However, prior to the Canadian Vehicle Survey (CVS), no measures of total vehicle-kilometres or passenger-kilometres were available. The CVS was developed at the request of Transport Canada to fill this data gap. The survey provides quarterly and annual estimates of the amount of road travel, broken down by types of vehicles and characteristics, such as age and sex of driver, time of day and season. The results are the prime source of road vehicle use information for researchers and interested members of the public.

Prior to 2004, the survey was sponsored by Transport Canada. Since then, the survey has been co-sponsored by Transport Canada and Natural Resources Canada. They plan to combine the survey data with other data to improve road safety, monitor fuel consumption and deal with the impact of vehicle usage on the environment.

This document describes concepts, employed methods and discusses data quality. The reference period for all the information presented in this document is the year 2007.

# Survey overview

The CVS is a voluntary vehicle-based survey that provides quarterly and annual estimates of road vehicle activity (vehicle-kilometres and passenger-kilometres) of vehicles registered in Canada. A quarterly sample of vehicles is drawn from vehicle registration lists provided by the provincial and territorial governments.

The provincial component of the survey consists of two steps. The first step is a computer assisted telephone interview (CATI) with the registered owners of the sampled vehicles. This interview is used to collect some general information on the usage of the vehicle as well as to ask the respondent to complete a trip log specific to his/her vehicle type. The trip log is then mailed out as a second step. If respondents cannot be contacted by phone, the trip log is mailed out with a short questionnaire to collect some of the information normally collected during the CATI.

The territorial component of the survey consists of two short questionnaires. One is mailed to the respondents at the beginning of the quarter and the other is mailed at the end of the quarter. The first questionnaire asks respondents to record the odometer reading at the beginning of the first day of the quarter. All those returning the first questionnaire are mailed a second questionnaire asking them to record the odometer reading at the beginning of the first day of the next quarter. These two odometer readings allow the calculation of the distance the vehicle was driven during the quarter.

Survey collection began on February 1, 1999. Only eight provincial / territorial vehicle registration lists were received in time to be included in the sample at that time, but over the remainder of 1999, the other lists were received. Starting October 1, 1999, vehicles from all provinces and territories were included in the survey.

Users who require additional information from Statistics Canada can obtain it from the Transportation Division upon request by phoning 1 866 500-8400 or e-mailing transportationstatistics@statcan.ca

# **Related products**

# Selected publications from Statistics Canada

53F0004X	Canadian Vehicle Survey: Quarterly
53F0007X	Driving Characteristics of the Young and Aging Population

### **Selected CANSIM tables from Statistics Canada**

405-0055	Canadian vehicle survey, number of vehicles in frame, by type of vehicle, province and territory
405-0056	Canadian vehicle survey, number of vehicles in scope, by type of vehicle, province and territory
405-0057	Canadian vehicle survey, passenger-kilometres, by type of vehicle and province
405-0058	Canadian vehicle survey, vehicle-kilometres, by type of vehicle, province and territory
405-0059	Canadian vehicle survey, number of vehicles in scope, by type of vehicle and type of fuel
405-0060	Canadian vehicle survey, passenger-kilometres, by type of vehicle and age of vehicle model
405-0061	Canadian vehicle survey, vehicle-kilometres, by type of vehicle and age of vehicle model
405-0062	Canadian vehicle survey, passenger-kilometres, by type of vehicle and type of vehicle body
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405-0090	Canadian vehicle survey, number of trucks 15 tonnes and over, by year of vehicle model, province and territory
405-0097	Canadian vehicle survey, vehicle-kilometres for trucks over 4.5 tonnes, by vehicle group, type of vehicle and purpose of trip (specific to vehicle type)
405-0098	Canadian vehicle survey, passenger-kilometres for trucks over 4.5 tonnes, by vehicle group, type of vehicle and purpose of trip (specific to vehicle type)
405-0100	Canadian vehicle survey, number of vehicles in scope, by type of vehicle and age of vehicle model
405-0111	Canadian vehicle survey, vehicle-kilometres and passenger-kilometres for vehicles up to 4.5 tonnes, by part of driver's job
405-0112	Canadian vehicle survey, vehicle-kilometres for vehicles up to 4.5 tonnes, by origin and destination of trip
405-0113	Canadian vehicle survey, passenger-kilometres for vehicles up to 4.5 tonnes, by origin and destination of trip
405-0114	Canadian vehicle survey, vehicle-kilometres, by type of vehicle, type of fuel and type of vehicle body

405-0115	Canadian vehicle survey, fuel consumed, by type of vehicle, type of fuel and type of vehicle body
405-0116	Canadian vehicle survey, number of vehicles in scope, by type of vehicle and type of activity
405-0117	Canadian vehicle survey, vehicle-kilometres and passenger-kilometres for trucks 4.5 tonnes to 14.9 tonnes, by type of activity
405-0118	Canadian vehicle survey, vehicle-kilometres and passenger-kilometres for trucks 15 tonnes and over, by type of activity
405-0119	Canadian vehicle survey, vehicle-kilometres and passenger-kilometres for trucks 4.5 tonnes to 14.9 tonnes, by type of trip
405-0120	Canadian vehicle survey, vehicle-kilometres and passenger-kilometres for trucks 15 tonnes and over, by type of trip

# **Selected surveys from Statistics Canada**

2749	Canadian Vehicle Survey

# **Statistical tables**

Table 1 Number of vehicles on the registration lists by type of vehicle and jurisdiction

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
Total - Canada	19,988,268	19,198,981	461,152	328,135
Newfoundland and Labrador	275.736	268,192	4,212	3,333
Prince Edward Island	82.146	77,874	1,478	2,795
Nova Scotia	564,822	548.112	8,743	7,967
New Brunswick	482.990	471.015	7,579	4,397
Quebec	4,562,806	4,464,900	59.298	38,609
Ontario	7,255,081	7,038,701	97,824	118,557
Manitoba	671.879	643,582	11,198	17,100
Saskatchewan	749.032	683.509	37.765	27,758
Alberta	2,655,335	2,453,493	114,790	87,053
British Columbia	2,632,364	2,499,240	115,417	17,707
Yukon Territory	28,994	25,816	1.796	1,383
Northwest Territories	23,615	21,452	831	1,332
Nunavut	3,467	3,097	223	147

Table 2-1 Number of vehicles on the registration lists by jurisdiction and vehicle model year — Vehicles up to 4.5 tonnes

	Newfoundland	Prince	Nova	New	Quebec	Ontario	Manitoba
	and Labrador	Edward Island	Scotia	Brunswick			
Total, all vehicle model years	268,190	77,873	548,111	471,013	4,464,896	7,038,695	643,580
Earlier than 1989	7,024	3,969	22,920	18,396	133,138	276,210	43,607
1989	2,454	1,171	5,886	5,748	44,601	71,141	10,184
1990	2,609	1,454	7,243	6,988	61,080	96,364	13,226
1991	3,110	1,597	8,511	8,585	82,294	117,865	16,306
1992	4,324	2,486	12,005	12,433	120,091	163,222	20,426
1993	5,922	2,946	14,239	13,826	130,231	185,661	20,485
1994	8,343	3,607	18,288	17,560	150,446	226,973	22,901
1995	10,251	4,233	21,983	20,714	178,346	280,727	26,738
1996	9,465	4,055	21,481	19,484	161,643	265,684	25,508
1997	13,908	5,338	29,267	25,659	215,137	371,869	35,758
1998	16,737	5,716	34,015	29,769	243,389	424,824	38,963
1999	17,051	5,389	33,243	28,436	244,075	425,794	35,190
2000	20,351	6,498	40,608	35,216	306,378	530,357	41,232
2001	18.175	5,059	35,285	29,753	293,368	484,384	39.896
2002	21,040	6,007	43,746	35,665	348,464	555,208	47,763
2002	23.138	5,360	42,954	35,974	371,028	572,152	48,525
2003	20,621	3,717	37,365	31,188	341,424	481,220	41,218
2004 2005			37,300 42,307				
	24,087	3,689	43,387	35,618	391,096	547,732	45,571
2006	21,100	3,167	39,695	32,386	345,907	532,212	40,811
2007	17,284	2,230	33,037	25,662	283,515	393,899	27,145
2008	1,172	178	2,945	1,939	18,981	35,187	2,121
2009	0	0	0	0	0	1	0
Year of vehicle model, unknown	17	0	0	3	259	0	0
	Saskat- chewan	Alberta	British Columbia	Yukon Territory	Northwest Territories	Nunavut	Total
Total, all vehicle model years	683,507	2,453,491	2,499,237	25,815		3,095	10 100 060
Earlier than 1989	86,048	194,005	234,995	4,011	<b>21,451</b> 1,815	3,095 201	<b>19,198,960</b> 1,026,339
1989	15,086	44,171	63,881	831	420	59	265,632
1990 1991	18,197 21.002	55,876	82,021	939 934	474 541	62 82	346,538
		64,939	88,712				414,482
1992 1993	23,894	70,113	97,279	1,001	526	99 108	527,907
1993							563.531
	23,186	69,934	95,451	986	550		
1994	26,786	79,065	96,818	1,025	676	124	652,618
1994 1995	26,786 29,603	79,065 88,265	96,818 104,078	1,025 1,145	676 683	124 142	652,618 766,913
1994 1995 1996	26,786 29,603 25,707	79,065 88,265 79,447	96,818 104,078 86,903	1,025 1,145 875	676 683 575	124 142 111	652,618 766,913 700,943
1994 1995 1996 1997	26,786 29,603 25,707 35,306	79,065 88,265 79,447 111,697	96,818 104,078 86,903 116,315	1,025 1,145 875 1,238	676 683 575 875	124 142 111 183	652,618 766,913 700,943 962,554
1994 1995 1996 1997 1998	26,786 29,603 25,707 35,306 36,628	79,065 88,265 79,447 111,697 128,584	96,818 104,078 86,903 116,315 119,368	1,025 1,145 875 1,238 1,175	676 683 575 875 935	124 142 111 183 184	652,618 766,913 700,943 962,554 1,080,292
1994 1995 1996 1997 1998 1999	26,786 29,603 25,707 35,306 36,628 31,051	79,065 88,265 79,447 111,697 128,584 112,621	96,818 104,078 86,903 116,315 119,368 109,721	1,025 1,145 875 1,238 1,175 1,052	676 683 575 875 935 953	124 142 111 183 184 191	652,618 766,913 700,943 962,554 1,080,292 1,044,772
1994 1995 1996 1997 1998 1999 2000	26,786 29,603 25,707 35,306 36,628 31,051 36,930	79,065 88,265 79,447 111,697 128,584 112,621 131,765	96,818 104,078 86,903 116,315 119,368 109,721 129,872	1,025 1,145 875 1,238 1,175 1,052 1,109	676 683 575 875 935 953 1,193	124 142 111 183 184 191 219	652,618 766,913 700,943 962,554 1,080,292 1,044,772 1,281,733
1994 1995 1996 1997 1998 1999 2000 2001	26,786 29,603 25,707 35,306 36,628 31,051 36,930 37,793	79,065 88,265 79,447 111,697 128,584 112,621 131,765 140,202	96,818 104,078 86,903 116,315 119,368 109,721 129,872 131,634	1,025 1,145 875 1,238 1,175 1,052 1,109 1,227	676 683 575 875 935 953 1,193 1,298	124 142 111 183 184 191 219 236	652,618 766,913 700,943 962,554 1,080,292 1,044,772 1,281,733 1,218,316
1994 1995 1996 1997 1998 1999 2000 2001	26,786 29,603 25,707 35,306 36,628 31,051 36,930 37,793 44,294	79,065 88,265 79,447 111,697 128,584 112,621 131,765 140,202 170,502	96,818 104,078 86,903 116,315 119,368 109,721 129,872 131,634 161,229	1,025 1,145 875 1,238 1,175 1,052 1,109 1,227 1,434	676 683 575 875 935 953 1,193 1,298 1,499	124 142 111 183 184 191 219 236 274	652,618 766,913 700,943 962,554 1,080,292 1,044,772 1,281,733 1,218,316 1,437,130
1994 1995 1996 1997 1998 1999 2000 2001 2002 2002	26,786 29,603 25,707 35,306 36,628 31,051 36,930 37,793 44,294 45,470	79,065 88,265 79,447 111,697 128,584 112,621 131,765 140,202 170,502 181,376	96,818 104,078 86,903 116,315 119,368 109,721 129,872 131,634 161,229 164,936	1,025 1,145 875 1,238 1,175 1,052 1,109 1,227 1,434 1,641	676 683 575 875 935 953 1,193 1,298 1,499 1,919	124 142 111 183 184 191 219 236 274 219	652,618 766,913 700,943 962,554 1,080,292 1,044,772 1,281,733 1,218,316 1,437,130 1,494,696
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2003	26,786 29,603 25,707 35,306 36,628 31,051 36,930 37,793 44,294 45,470 39,901	79,065 88,265 79,447 111,697 128,584 112,621 131,765 140,202 170,502 181,376 167,067	96,818 104,078 86,903 116,315 119,368 109,721 129,872 131,634 161,229 164,936 147,768	1,025 1,145 875 1,238 1,175 1,052 1,109 1,227 1,434 1,641 1,278	676 683 575 875 935 935 1,193 1,298 1,499 1,919	124 142 111 183 184 191 219 236 274 219	652,618 766,913 700,943 962,554 1,080,292 1,044,772 1,281,733 1,218,316 1,437,130 1,494,696 1,314,474
1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004	26,786 29,603 25,707 35,306 36,628 31,051 36,930 37,793 44,294 45,470	79,065 88,265 79,447 111,697 128,584 112,621 131,765 140,202 170,502 181,376 167,067 191,497	96,818 104,078 86,903 116,315 119,368 109,721 129,872 131,634 161,229 164,936	1,025 1,145 875 1,238 1,175 1,052 1,109 1,227 1,434 1,641 1,278 1,488	676 683 575 875 935 953 1,193 1,298 1,499 1,919	124 142 111 183 184 191 219 236 274 219	652,618 766,913 700,943 962,554 1,080,292 1,044,772 1,281,733 1,218,316 1,437,130 1,494,696
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	26,786 29,603 25,707 35,306 36,628 31,051 36,930 37,793 44,294 45,470 39,901 41,150 38,077	79,065 88,265 79,447 111,697 128,584 112,621 131,765 140,202 170,502 181,376 167,067 191,497 201,438	96,818 104,078 86,903 116,315 119,368 109,721 129,872 131,634 161,229 164,936 147,768 170,668 161,182	1,025 1,145 875 1,238 1,175 1,052 1,109 1,227 1,434 1,641 1,278 1,488 1,272	676 683 575 875 935 953 1,193 1,298 1,499 1,919 1,557 1,774 1,826	124 142 111 183 184 191 219 236 274 219 144 174	652,618 766,913 700,943 962,554 1,080,292 1,044,772 1,281,733 1,218,316 1,437,130 1,494,696 1,314,474 1,497,936 1,419,241
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	26,786 29,603 25,707 35,306 36,628 31,051 36,930 37,793 44,294 45,470 39,901 41,150	79,065 88,265 79,447 111,697 128,584 112,621 131,765 140,202 170,502 181,376 167,067 191,497	96,818 104,078 86,903 116,315 119,368 109,721 129,872 131,634 161,229 164,936 147,768	1,025 1,145 875 1,238 1,175 1,052 1,109 1,227 1,434 1,641 1,278 1,488	676 683 575 875 935 953 1,193 1,298 1,499 1,919 1,557 1,774	124 142 111 183 184 191 219 236 274 219 144	652,618 766,913 700,943 962,554 1,080,292 1,044,772 1,281,733 1,218,316 1,437,130 1,494,696 1,314,474 1,497,936
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	26,786 29,603 25,707 35,306 36,628 31,051 36,930 37,793 44,294 45,470 39,901 41,150 38,077	79,065 88,265 79,447 111,697 128,584 112,621 131,765 140,202 170,502 181,376 167,067 191,497 201,438	96,818 104,078 86,903 116,315 119,368 109,721 129,872 131,634 161,229 164,936 147,768 170,668 161,182	1,025 1,145 875 1,238 1,175 1,052 1,109 1,227 1,434 1,641 1,278 1,488 1,272	676 683 575 875 935 953 1,193 1,298 1,499 1,919 1,557 1,774 1,826	124 142 111 183 184 191 219 236 274 219 144 174	652,618 766,913 700,943 962,554 1,080,292 1,044,772 1,281,733 1,218,316 1,437,130 1,494,696 1,314,474 1,497,936 1,419,241
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2004	26,786 29,603 25,707 35,306 36,628 31,051 36,930 37,793 44,294 45,470 39,901 41,150 38,077 25,385	79,065 88,265 79,447 111,697 128,584 112,621 131,765 140,202 170,502 181,376 167,067 191,497 201,438 156,243	96,818 104,078 86,903 116,315 119,368 109,721 129,872 131,634 161,229 164,936 147,768 170,668 161,182 126,252	1,025 1,145 875 1,238 1,175 1,052 1,109 1,227 1,434 1,641 1,278 1,488 1,272 1,069	676 683 575 875 935 953 1,193 1,298 1,499 1,919 1,557 1,774 1,826 1,198	124 142 111 183 184 191 219 236 274 219 144 174 163 105	652,618 766,913 700,943 962,554 1,080,292 1,044,772 1,281,733 1,218,316 1,437,130 1,494,696 1,314,474 1,497,93

Table 2-2
Number of vehicles on the registration lists by jurisdiction and vehicle model year — Trucks 4.5 tonnes to 14.9 tonnes

	Newfoundland	Prince	Nova	New	Quebec	Ontario	Manitoba
	and Labrador	Edward Island	Scotia	Brunswick			
Total, all vehicle model years	4,211	1,477	8,742	7,578	59,297	97,823	11,197
Earlier than 1989	887	693	1,876	916	12,254	6,927	2,813
1989	110	80	238	130	2,057	1,666	253
1990	139	52	275	154	2,149	1,972	388
1991	135	41	203	150	1,461	1,492	316
1992	124	36	191	161	1,399	1,610	285
1993	118	45	223	180	1,660	2,029	331
1994	156	46	226	214	2,201	2,511	385
1995	202	63	417	264	2.819	3.521	513
1996	118	35	269	217	1,855	2,797	350
1997	176	44	374	295	1,976	4.129	467
1998	157	33	358	300	2,520	4,344	397
1999	243	65	534	470	3.548	6.857	535
2000	217	39	464	345	3,024	6,176	408
2001	180	34	382	363	2,305	6.157	493
2002	213	36	368	390	2,221	6,184	418
2003	188	36	477	657	2,907	7,630	494
2004	153	22	473	673	2,787	7,353	477
2005	251	20	498	675	3,519	8,386	620
2005	280	26	527	583	3,331	9,085	657
2007	125	19		330			440
2007	29	4	314 47	104	2,731	5,801 1,188	
2008	0	0	0	0	458 0	1,100	150 0
	1	0	0	0	105	0	0
Year of vehicle model, unknown	1	U	U	U	105	U	U
	Oneliet	• 11 .					<b>.</b>
	Saskat- chewan	Alberta	British Columbia	Yukon Territory	Northwest Territories	Nunavut	Total
Total all vehicle model years	chewan		Columbia	Territory	Territories		
Total, all vehicle model years	chewan 37,764	114,788	115,416	1,795	Territories 830	222	461,144
Earlier than 1989	chewan 37,764 23,490	<b>114,788</b> 27,294	Columbia 115,416 14,388	Territory <b>1,795</b> 486	Territories  830 137	<b>222</b> 53	<b>461,144</b> 92,212
Earlier than 1989 1989	37,764 23,490 376	<b>114,788</b> 27,294 1,420	Columbia 115,416 14,388 2,550	Territory 1,795 486 54	Territories  830 137 18	<b>222</b> 53 4	<b>461,144</b> 92,212 8,958
Earlier than 1989 1989 1990	chewan  37,764 23,490 376 520	<b>114,788</b> 27,294 1,420 1,796	Columbia 115,416 14,388 2,550 3,013	<b>1,795</b> 486 54 56	830 137 18 37	<b>222</b> 53 4 9	<b>461,144</b> 92,212 8,958 10,562
Earlier than 1989 1989 1990 1991	37,764 23,490 376 520 446	<b>114,788</b> 27,294 1,420 1,796 1,641	Columbia 115,416 14,388 2,550 3,013 2,446	<b>1,795</b> 486 54 56 36	830 137 18 37 17	<b>222</b> 53 4 9 2	<b>461,144</b> 92,212 8,958 10,562 8,391
Earlier than 1989 1989 1990 1991 1992	37,764 23,490 376 520 446 435	114,788 27,294 1,420 1,796 1,641 1,479	Columbia 115,416 14,388 2,550 3,013 2,446 2,616	1,795 486 54 56 36 43	830 137 18 37 17 17	<b>222</b> 53 4 9 2 5	<b>461,144</b> 92,212 8,958 10,562 8,391 8,404
Earlier than 1989 1989 1990 1991 1992 1993	37,764 23,490 376 520 446 435 496	114,788 27,294 1,420 1,796 1,641 1,479 1,536	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021	7,795 486 54 56 36 43 35	830 137 18 37 17 15	222 53 4 9 2 5 8	<b>461,144</b> 92,212 8,958 10,562 8,391 8,404 9,703
Earlier than 1989 1989 1990 1991 1992 1993 1994	chewan  37,764 23,490 376 520 446 435 496 518	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469	1,795 486 54 56 36 43 35 46	830 137 18 37 17 15 15	222 53 4 9 2 5 8 6	<b>461,144</b> 92,212 8,958 10,562 8,391 8,404 9,703 11,805
Earlier than 1989 1989 1990 1991 1992 1993 1994 1995	chewan  37,764 23,490 376 520 446 435 496 518 702	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007	1,795 486 54 56 36 43 35 46 32	830 137 18 37 17 15 15 15 33	222 53 4 9 2 5 8 6 23	<b>461,144</b> 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213
Earlier than 1989 1989 1990 1991 1992 1993 1994 1995	chewan  37,764 23,490 376 520 446 435 496 518 702 440	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982	7,795 486 54 56 36 43 35 46 32 38	830 137 18 37 17 15 15 15 17 33 12	222 53 4 9 2 5 8 6 23 4	<b>461,144</b> 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933
Earlier than 1989 1989 1990 1991 1992 1993 1994 1995 1996	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904	7,795 486 54 56 36 43 35 46 32 38 68	830 137 18 37 17 15 15 17 33 12	222 53 4 9 2 5 8 6 23 4 8	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081
Earlier than 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358	795 486 54 56 36 43 35 46 32 38 68 39	830 137 18 37 17 15 15 17 33 12 31	222 53 4 9 2 5 8 6 23 4 8 10	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198
Earlier than 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	37,764 23,490 376 520 446 435 496 518 702 440 656 657 690	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499	1,795 486 54 56 36 43 35 46 32 38 68 39 67	830 137 18 37 17 15 15 15 25 31 25 37	222 53 4 9 2 5 8 6 23 4 8 10	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507
Earlier than 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657 690 604	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944 3,396	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499 4,279	7,795 486 54 56 36 43 35 46 32 38 68 39 67 48	830 137 18 37 17 15 15 15 25 31 25 37 38	222 53 4 9 2 5 8 6 23 4 8 10 13	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507 19,053
Earlier than 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657 690 604 873	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944 3,396 5,404	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499 4,279 5,072	7,795 486 54 56 36 43 35 46 32 38 68 39 67 48 65	830 137 18 37 17 15 15 17 33 12 31 25 37 38 30	222 53 4 9 2 5 8 6 23 4 8 10 13 11 5	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507 19,053 21,368
Earlier than 1989 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657 690 604 873 748	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944 3,396 5,404 4,643	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499 4,279 5,072 5,412	7 1,795 486 54 56 36 43 35 46 32 38 68 39 67 48 65 68	830 137 18 37 17 15 15 17 33 12 31 25 37 38 30 33	222 53 4 9 2 5 8 6 23 4 8 10 13 11 5	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507 19,053 21,368 20,744
Earlier than 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657 690 604 873 748 872	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944 3,396 5,404 4,643 5,575	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499 4,279 5,072 5,412 8,981	7 1,795 486 54 56 36 43 35 46 32 38 68 39 67 48 65 68	830 137 18 37 17 15 15 15 25 37 38 30 33 40	222 53 4 9 2 5 8 6 23 4 8 10 13 11 5 7	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507 19,053 21,368 20,744 27,974
Earlier than 1989 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657 690 604 873 748 872 726	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944 3,396 5,404 4,643 5,575 4,955	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499 4,279 5,072 5,412 8,981 9,196	7 1,795 486 54 56 36 43 35 46 32 38 68 39 67 48 65 68	830 137 18 37 17 15 15 15 17 33 12 31 25 37 38 30 33 40 38	222 53 4 9 2 5 8 6 23 4 8 10 13 11 5 5	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507 19,053 21,368 20,744 27,974 26,973
Earlier than 1989 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657 690 604 873 748 872 726 1,387	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944 3,396 5,404 4,643 5,575 4,955 10,251	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499 4,279 5,072 5,412 8,981 9,196 10,399	7 1,795 486 54 56 36 43 35 46 32 38 68 39 67 48 65 68 104 107	830 137 18 37 17 15 15 17 33 12 31 25 37 38 30 33 40 38 62	222 53 4 9 2 5 8 6 23 4 8 10 13 11 5 5 7	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507 19,053 21,368 20,744 27,974 26,973 36,195
Earlier than 1989 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657 690 604 873 748 872 726 1,387 1,688	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944 3,396 5,404 4,643 5,575 4,955 10,251 14,524	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499 4,279 5,072 5,412 8,981 9,196 10,399 12,463	7 1,795 1,795 486 54 56 36 43 35 46 32 38 68 39 67 48 65 68 104 107 115	830 137 18 37 17 15 15 17 33 12 31 25 37 38 30 33 40 38 62 91	222 53 4 9 2 5 8 6 23 4 8 10 13 11 5 7 8 6	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507 19,053 21,368 20,744 27,974 26,973 36,195 43,440
Earlier than 1989 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657 690 604 873 748 872 726 1,387 1,688 1,108	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944 3,396 5,404 4,643 5,575 4,955 10,251 14,524 11,391	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499 4,279 5,072 5,412 8,981 9,196 10,399 12,463 7,625	7 1,795 486 54 56 36 43 35 46 32 38 68 39 67 48 65 68 104 107 115 159 88	830 137 18 37 17 15 15 15 17 33 12 31 25 37 38 30 33 40 38 62 91	222 53 4 9 2 5 8 6 23 4 8 10 13 11 5 5 7 8 6	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507 19,053 21,368 20,744 27,974 26,973 36,195 43,440 30,039
Earlier than 1989 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006 2007 2008	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657 690 604 873 748 872 726 1,387 1,688 1,108 325	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944 3,396 5,404 4,643 5,575 4,955 10,251 14,524 11,391 3,163	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499 4,279 5,072 5,412 8,981 9,196 10,399 12,463 7,625 1,729	7 1,795 486 54 56 36 43 35 46 32 38 68 39 67 48 65 68 104 107 115 159 88 35	830 137 18 37 17 15 15 15 17 33 12 31 25 37 38 30 33 40 38 62 91 58 38	222 53 4 9 2 5 8 6 23 4 8 10 13 11 5 5 7 8 6	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507 19,053 21,368 20,744 27,974 26,973 36,195 43,440 30,039 7,277
	chewan  37,764 23,490 376 520 446 435 496 518 702 440 656 657 690 604 873 748 872 726 1,387 1,688 1,108	114,788 27,294 1,420 1,796 1,641 1,479 1,536 2,004 2,611 1,810 2,949 2,995 3,944 3,396 5,404 4,643 5,575 4,955 10,251 14,524 11,391	Columbia  115,416 14,388 2,550 3,013 2,446 2,616 3,021 3,469 4,007 2,982 3,904 3,358 4,499 4,279 5,072 5,412 8,981 9,196 10,399 12,463 7,625	7 1,795 486 54 56 36 43 35 46 32 38 68 39 67 48 65 68 104 107 115 159 88	830 137 18 37 17 15 15 15 17 33 12 31 25 37 38 30 33 40 38 62 91	222 53 4 9 2 5 8 6 23 4 8 10 13 11 5 5 7 8 6	461,144 92,212 8,958 10,562 8,391 8,404 9,703 11,805 15,213 10,933 15,081 15,198 21,507 19,053 21,368 20,744 27,974 26,973 36,195 43,440 30,039

Table 2-3 Number of vehicles on the registration lists by jurisdiction and vehicle model year — Trucks 15 tonnes or more

	Newfoundland	Prince	Nova	New	Quebec	Ontario	Manitoba
	and Labrador	Edward Island	Scotia	Brunswick			
Total, all vehicle model years	3,331	2,794	7,966	4,396	38,608	118,556	17,099
Earlier than 1989	458	1,325	965	1,045	1,290	7,674	1,955
1989	109	151	225	194	330	2,067	265
1990	80	145	147	210	329	2,061	226
1991	68	111	97	114	209	1,337	181
1992	59	50	109	82	328	1,378	199
1993	64	78	149	160	448	1,796	343
1994	110	94	260	207	875	2,617	518
1995	176	170	382	262	1,437	4,665	651
1996	156	105	294	166	1,092	3,434	575
1997	118	53	272	134	1,189	3,868	598
1998 1999	207 195	87 94	450 525	233 258	2,164 2.541	6,956 8.680	916 977
2000	195 244	94 76	525 611	258 197	2,541 3,443	10,378	1,218
2000	136	76 40	323	120	3, <del>44</del> 3 2.165	6,766	791
2001	102	40 15	323 268	88	2, 165 1,247	5,114	509
2002	149	28	409	120	2,803	7,258	842
2003	149	35	529	151	2,843	7,844	1,090
2004	237	39	641	198	5,160	11,723	1,737
2006	242	37	575	244	4,218	10,790	1,403
2007	243	46	665	180	4,190	11,329	1,874
2008	21	6	63	24	294	814	224
2009	0	ő	0	0	0	0	0
Year of vehicle model, unknown	1	Ö	Ö	0	5	Ő	ő
_	Saskat- chewan	Alberta	British Columbia	Yukon Territory	Northwest Territories	Nunavut	Total
Total, all vehicle model years	27,757	87,052	17,706	1,382	1,331	146	328,128
Earlier than 1989	9,268	18,070	2,959	235	162	20	45,426
1989	775	1,595	467	21	23	6	6,229
1990					32	4	6,627
	/84	1.820	750	33			
1991	784 546	1,820 1.373	750 421	33 14			
1991 1992	546	1,373	421	14	24	6	4,508
1991 1992 1993		1,373 1,093					
1992	546 541	1,373	421 553	14 32	24 18	6 2	4,508 4,448
1992 1993	546 541 840	1,373 1,093 1,586	421 553 534	14 32 27	24 18 27	6 2 4 5 10	4,508 4,448 6,062
1992 1993 1994	546 541 840 1,125	1,373 1,093 1,586 2,511	421 553 534 674	14 32 27 33	24 18 27 42	6 2 4 5 10 5	4,508 4,448 6,062 9,076
1992 1993 1994 1995 1996 1997	546 541 840 1,125 1,564 1,135 1,148	1,373 1,093 1,586 2,511 3,120 2,582 3,125	421 553 534 674 751 697 757	14 32 27 33 47	24 18 27 42 53 56 52	6 2 4 5 10 5 2	4,508 4,448 6,062 9,076 13,291 10,351 11,372
1992 1993 1994 1995 1996 1997	546 541 840 1,125 1,564 1,135 1,148 1,554	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562	421 553 534 674 751 697 757 789	14 32 27 33 47 50 49 54	24 18 27 42 53 56 52 70	6 2 4 5 10 5 2 6	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053
1992 1993 1994 1995 1996 1997 1998	546 541 840 1,125 1,564 1,135 1,148 1,554	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845	421 553 534 674 751 697 757 789 691	14 32 27 33 47 50 49 54 50	24 18 27 42 53 56 52 70 67	6 2 4 5 10 5 2 6 13	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263
1992 1993 1994 1995 1996 1997 1998 1999 2000	546 541 840 1,125 1,564 1,135 1,148 1,554 1,321	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845 4,081	421 553 534 674 751 697 757 789 691 609	14 32 27 33 47 50 49 54 50 73	24 18 27 42 53 56 52 70 67 85	6 2 4 5 10 5 2 6 13 6	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263 22,336
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	546 541 840 1,125 1,564 1,135 1,148 1,554 1,321 1,311 881	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845 4,081 3,723	421 553 534 674 751 697 757 789 691 609 648	14 32 27 33 47 50 49 54 50 73 69	24 18 27 42 53 56 52 70 67 85 70	6 2 4 5 10 5 2 6 13 6 7	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263 22,336 15,744
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001	546 541 840 1,125 1,564 1,135 1,148 1,554 1,321 1,311 881 485	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845 4,081 3,723 2,866	421 553 534 674 751 697 757 789 691 609 648 594	14 32 27 33 47 50 49 54 50 73 69 45	24 18 27 42 53 56 52 70 67 85 70 38	6 2 4 5 10 5 2 6 13 6 7 4	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263 22,336 15,744 11,380
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003	546 541 840 1,125 1,564 1,135 1,148 1,554 1,321 1,311 881 485 634	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845 4,081 3,723 2,866 3,250	421 553 534 674 751 697 757 789 691 609 648 594 660	14 32 27 33 47 50 49 54 50 73 69 45 60	24 18 27 42 53 56 52 70 67 85 70 38	6 2 4 5 10 5 2 6 13 6 7 4	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263 22,336 15,744 11,380 16,287
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2003	546 541 840 1,125 1,564 1,135 1,148 1,554 1,321 1,311 881 485 634 745	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845 4,081 3,723 2,866 3,250 4,246	421 553 534 674 751 697 757 789 691 609 648 594 660 902	14 32 27 33 47 50 49 54 50 73 69 45 60 62	24 18 27 42 53 56 52 70 67 85 70 38 59 67	6 2 4 5 10 5 2 6 13 6 7 4 10 7	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263 22,336 15,744 11,380 16,287
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	546 541 840 1,125 1,564 1,135 1,148 1,554 1,321 1,311 881 485 634 745	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845 4,081 3,723 2,866 3,250 4,246 6,490	421 553 534 674 751 697 757 789 691 609 648 594 660 902	14 32 27 33 47 50 49 54 50 73 69 45 60 62	24 18 27 42 53 56 52 70 67 85 70 38 59 67	6 2 4 5 10 5 2 6 13 6 7 4 10 7 6	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263 22,336 15,744 11,380 16,287 18,673 28,591
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006	546 541 840 1,125 1,564 1,135 1,148 1,554 1,321 1,311 881 485 634 745 899	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845 4,081 3,723 2,866 3,250 4,246 6,490 7,836	421 553 534 674 751 697 757 789 691 609 648 594 660 902 1,263 1,528	14 32 27 33 47 50 49 54 50 73 69 45 60 62 110	24 18 27 42 53 56 52 70 67 85 70 38 59 67 83	6 2 4 5 10 5 2 6 13 6 7 4 10 7 6 5	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263 22,336 15,744 11,380 16,287 18,673 28,591 28,073
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2002 2003 2004 2005 2006 2007	546 541 840 1,125 1,564 1,135 1,148 1,554 1,321 1,311 881 485 634 745 899 932 1,134	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845 4,081 3,723 2,866 3,250 4,246 6,490 7,836 8,597	421 553 534 674 751 697 757 789 691 609 648 594 660 902 1,263 1,528 1,331	14 32 27 33 47 50 49 54 50 73 69 45 60 62 110 137 160	24 18 27 42 53 56 52 70 67 85 70 38 59 67 83 120 166	6 2 4 5 10 5 2 6 13 6 7 4 10 7 6 5 10	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263 22,336 15,744 11,380 16,287 18,673 28,591 28,073 29,931
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	546 541 840 1,125 1,564 1,135 1,148 1,554 1,321 1,311 881 485 634 745 899 932 1,134 126	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845 4,081 3,723 2,866 3,250 4,246 6,490 7,836 8,597 673	421 553 534 674 751 697 757 789 691 609 648 594 660 902 1,263 1,528 1,331 119	14 32 27 33 47 50 49 54 50 73 69 45 60 62 110 137 160 14	24 18 27 42 53 56 52 70 67 85 70 38 59 67 83 120 166 9	6 2 4 5 10 5 2 6 13 6 7 4 10 7 6 5 10 10 10 10 10 10 10 10 10 10 10 10 10	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263 22,336 15,744 11,380 16,287 18,673 28,591 28,073 29,931 2,392
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	546 541 840 1,125 1,564 1,135 1,148 1,554 1,321 1,311 881 485 634 745 899 932 1,134	1,373 1,093 1,586 2,511 3,120 2,582 3,125 4,562 3,845 4,081 3,723 2,866 3,250 4,246 6,490 7,836 8,597	421 553 534 674 751 697 757 789 691 609 648 594 660 902 1,263 1,528 1,331	14 32 27 33 47 50 49 54 50 73 69 45 60 62 110 137 160	24 18 27 42 53 56 52 70 67 85 70 38 59 67 83 120 166	6 2 4 5 10 5 2 6 13 6 7 4 10 7 6 5 10	4,508 4,448 6,062 9,076 13,291 10,351 11,372 18,053 19,263 22,336 15,744 11,380 16,287 18,673 28,591 28,073 29,931

Table 3-1 Estimates of number of vehicles in scope for Canada by type of vehicle and jurisdiction

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
Total - Canada	19,710,912 A	19,003,427 A	<b>392,608</b> A	<b>314,877</b> A
Newfoundland and Labrador	273.305 A	266.849 A	3.575 B	2.881B
Prince Edward Island	80.926 A	76.985 A	1.328 B	2.613B
Nova Scotia	552.973 A	537.784 A	7,517 B	7.671 B
New Brunswick	472.658 A	462.710 A	5.913B	4.036 A
Quebec	4.502.689 A	4.417.295 A	46.237 A	39.156 A
Ontario	7.154.332 A	6.957.086 A	84.345 A	112,902 A
Manitoba	668.527 A	641.456 A	10.625 B	16.446 B
Saskatchewan	736.963 A	676.470 A	33.960 B	26.533 B
Alberta	2.611.173 A	2.421.733 A	106.735 A	82.704 A
British Columbia	2.601.883 A	2.495.210 A	89.701 A	16.972 B
Yukon Territory	28.417 A	25.424 A	1,662 A	1.332 A
Northwest Territories	23.573 A	21.302 A	808 A	1.463 A
Nunavut	3,493 A	3,123 A	202 A	168 A

Table 3-2
Estimates of number of vehicles in scope for Canada by type of vehicle and vehicle model year

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
Total, all ages of vehicle model	19,710,912 A	19,003,427 A	<b>392,608</b> A	<b>314,877</b> A
Later than 2004	3,488,243 A	3,311,207 A	89,818 B	87,218 A
2002 to 2004	4.420.354 A	4.296.740 A	79.212B	44,401B
1998 to 2001	5.410.744 A	5.264.836 A	73.186 B	72.723 A
1994 to 1997	3.656.277 A	3.543.175 A	56.654 B	56.447 B
Earlier than 1994	2,735,294 A	2,587,470 A	93,737 B	54,088 B

Table 3-3
Estimates of number of vehicles in scope for Canada by type of vehicle and vehicle body type

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
Total, all vehicles body types	19,710,912 A	19,003,427 A	<b>392,608</b> A	<b>314,877</b> A
Car	10,153,484 A	10,152,717 A		
Station wagon	302,047 B	302,047 B		
Van	3.064.572 A	3.047.995 A	16.577 <sup>C</sup>	
Sport utility vehicle	1.810.801 A	1.810.801 A		
Pickup	3.718.848 A	3.631.305 A	87.529 B	F
Straight truck	409.856 A	44.939 ⊑	264,203 A	100.714 B
Tractor trailer	232.489 A		15,563 D	213.730 A
Bus	, ·		F	
Other vehicle type	17.291 <sup>E</sup>	F.	6.480 <sup>E</sup>	 F

Table 3-4 Estimates of number of vehicles in scope for Canada by type of vehicle and type of fuel

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
Total, all fuel types	19,710,912 A	19,003,427 A	392,608 A	314,87 <u>7</u> A
Gasoline	18,469,344 A	18,362,635 A	104,332 B	F 244 020 A
Diesel Other fuel type	1,172,118 A	576,204 B	283,974 A	311,939 A
Other fuel type	69,450 D	64,587 E	F	

Table 4-1 Estimates of vehicle-kilometres for Canada by type of vehicle and jurisdiction

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
		millions	S	
Total - Canada	332,274.6 A	300,203.3 A	<b>8,149.7</b> B	23,921.6
Newfoundland and Labrador	4,362.2B	4,146.4 <sup>B</sup>	57.7 ⊑	158.1 <sup>-</sup>
Prince Edward Island	1,433.9 B	1,350.4 <sup>C</sup>	15.4 <sup>E</sup>	68.2 E
Nova Scotia	10,612.9B	10,014.0 B	151.4 D	447.6
New Brunswick	8,113.5B	7,909.2 B	118.2D	86.1
Quebec	70,702.1 A	65,337.3 B	1,121.2 <sup>C</sup>	4,243.7 E
Ontario	125,286.7 A	113,820.4 A	1,960.2°	9,506.1 E
Manitoba	13,840.1 B	11,845.4 B	205.1 ⊑	1,789.6
Saskatchewan	13,448.0 B	11,719.6 B	516.1 D	1,212.3
Alberta	47,798.3 B	39,841.9 B	2,378.2°	5,578.1 E
British Columbia	35,798.7B	33,570.8 B	1,587.2°	640.7
Yukon Territory	487.1 B	326.9 B	25.2°	135.0
Northwest Territories	358.6 B	292.1 B	12.4 <sup>C</sup>	54.1 <sup>0</sup>
Nunavut	32.5 <sup>C</sup>	29.0 D	F	F

Table 4-2 Estimates of vehicle-kilometres for Canada by type of vehicle and vehicle model year

	Total, all vehicle	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over		
	millions					
Total, all ages of vehicle model Later than 2004	<b>332,274.6</b> A 85,192.6 A	<b>300,203.3</b> A 71,038.6 B	<b>8,149.7</b> B 3,012.4 B	<b>23,921.6</b> A 11,141.6 B		
2002 to 2004 1998 to 2001	82,027.6 A 89.681.5 A	75,771.6 A 82.673.6 A	1,913.3 <sup>B</sup> 1,745.1 <sup>C</sup>	4,342.8 <sup>B</sup> 5,262.8 <sup>B</sup>		
1994 to 1997 Earlier than 1994	49,104.1 <sup>B</sup> 26,268.8 <sup>B</sup>	45,836.9 B 24,882.5 B	755.5 <sup>D</sup> 723.4 <sup>E</sup>	2,511.6 D 662.9 E		

Table 4-3
Estimates of vehicle-kilometres for Canada by type of vehicle and vehicle body type

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over		
_	millions					
Total, all vehicles body types	332.274.6 A	300,203.3 A	8,149.7B	23,921.6 A		
Car	143,876.8 A	143,869.0 A				
Station wagon	4,520.4 D	4,520.4 D				
Van	54.319.9B	53.864.3 B	455.6 €			
Sport utility vehicle	37.509.4 B	37.509.4 B				
Pickup	60.942.3B	59.099.4 B	1,842.3°	F		
Straight truck	9.372.1 <sup>B</sup>	F	5,343.8 B	3.210.8B		
Tractor trailer	21.218.9 A		411.9 E	20.709.4 A		
Bus	, F		Ė			
Other vehicle type	F	F	F	F		

Table 4-4 Estimates of vehicle-kilometres for Canada by type of vehicle and type of fuel

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over		
	millions					
Total, all fuel types Gasoline Diesel Other fuel type	<b>332,274.6</b> A 290,210.4 A 40,954.3 A 1,109.9 E	<b>300,203.3</b> A 288,668.5 A 10,505.1 C F	<b>8,149.7</b> B 1,468.5 C 6,621.2 B F	<b>23,921.6</b> A F 23,828.0 A F		

Table 5-1 Estimates of passenger-kilometres for provinces only by type of vehicle and jurisdiction

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
_		millions	:	
Total Newfoundland and Labrador Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	524,449.9 A 7,370.2 B 2,318.7 C 17,907.5 B 13,182.3 B 114,622.4 A 196,184.1 A 22,671.8 B 21,365.1 B 71,629.8 B 57,197.9 B	486,931.7 A 7,129.4 B 2,219.8 C 17,241.1 B 12,939.2 B 108,617.8 B 183,601.8 A 20,358.3 B 19,152.3 B 61,476.7 B 54,195.2 B	11,151.2 B 72.4 E 17.9 E 183.8 D 151.2 E 1,407.5 C 2,448.1 C 287.1 D 734.3 D 3,513.6 C 2,335.2 C	26,367.0 A 168.4 D 81.0 E 482.6 D 91.8 E 4,597.1 B 10,134.2 B 2,026.4 C 1,478.6 C 6,639.5 E 667.5 E

Table 5-2 Estimates of passenger-kilometres for provinces only by type of vehicle and vehicle model year

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
		millions	3	
Total, all ages of vehicle model Later than 2004	<b>524,449.9</b> A 133.919.3 A	<b>486,931.7</b> A 117,711.5 B	<b>11,151.2</b> <sup>B</sup> 4.058.5 <sup>B</sup>	<b>26,367.0</b> A 12.149.2 B
2002 to 2004	129,316.7 A	121,909.6 A	2,748.5°	4,658.6 B
1998 to 2001	144,245.7 A	136,083.8 A	2,338.6°	5,823.3 B
1994 to 1997 Earlier than 1994	76,312.0 <sup>B</sup> 40,656.3 <sup>B</sup>	72,273.1 <sup>B</sup> 38,953.7 <sup>B</sup>	1,025.2 <sup>D</sup> 980.3 <sup>E</sup>	3,013.7 <sup>D</sup> 722.3 <sup>E</sup>

Table 5-3 Estimates of passenger-kilometres for provinces only by type of vehicle and vehicle body type

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
_		millions	<b>S</b>	
Total, all vehicles body types	<b>524,449.9</b> A	486,931.7 A	11,151.2B	26,367.0 A
Car	224,266.0 A	224,258.2 A	• • • • • • • • • • • • • • • • • • • •	
Station wagon	7,054.9 D	7,054.9 D		
Van	104,524.3 B	103,975.0 B	549.3 E	
Sport utility vehicle	62,131.4 B	62,131.4 B		
Pickup	89.917.7B	87.049.6 B	2,868.1 <sup>C</sup>	F
Straight truck	11.847.9B	F	7,027.3B	3,467.9B
Tractor trailer	23.545.0 A		549.9 ⊑	22.898.4 A
Bus	F		F	
Other vehicle type	F	F	F	F

Table 5-4 Estimates of passenger-kilometres for provinces only by type of vehicle and type of fuel

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
	millions			
Total, all fuel types Gasoline Diesel Other fuel type	<b>524,449.9</b> A 472,159.7 A 50,687.6 A 1,602.6 E	<b>486,931.7</b> A 470,105.3 A 15,311.9 C 1,514.5 E	<b>11,151.2</b> <sup>B</sup> 1,976.3 <sup>C</sup> 9,107.0 <sup>B</sup> F	<b>26,367.0</b> A F 26,268.7 A F

Table 5-5
Estimates of passenger-kilometres for provinces only by passenger age group for vehicles up to 4.5 tonnes

	Vehicles up to 4.5 tonnes
	millions
Total, all ages Under 5 years 5 to 14 years 15 to 19 years 20 to 24 years 25 to 34 years 35 to 54 years 55 to 64 years 65 to 74 years 75 to 84 years 85 years and over	486,931.7 A 10,891.1 C 31,976.6 B 20,975.7 C 15,389.2 C 38,709.9 B 187,783.4 A 97,483.9 A 57,809.4 B 24,041.5 B 1,801.0 E

Table 6-1
Estimates of vehicle-kilometres and passenger-kilometres for provinces only by type of vehicle and driver age group

	Total,	Vehicles up	Trucks 4.5 tonnes	Trucks 15 tonnes
	all vehicles	to 4.5 tonnes	to 14.9 tonnes	and over
		millions of vehicle-l	kilometres	
Total, all age groups	331,396.3 <sup>A</sup>	299,555.2 A	8,110.5 B	23,730.5
Under 20 years	3,896.7 ⋿	3,862.5 <sup>E</sup>	F	F
20 to 24 years	8,344.5 <sup>C</sup>	7,463.0 <sup>C</sup>	117.6 <sup>E</sup>	764.0 <sup>□</sup>
25 to 34 years	30,035.1 B	25,250.1 <sup>C</sup>	898.7 <sup>C</sup>	3,886.2 <sup>B</sup>
35 to 44 years	70,447.4 B	60,090.5 B	2,557.0 B	7,799.9 E
45 to 54 years	91,345.8 B	81,128.2 B	3,235.9 B	6,981.7 <sup>B</sup>
55 to 64 years	75,191.5 <sup>B</sup>	70,100.6 B	936.4 <sup>C</sup>	4,154.5 <sup>B</sup>
65 years and over	52,135.3 <sup>B</sup>	51,660.4 B	330.8 E	144.2 E
	millions of passenger-kilometres			
Total, all age groups	<b>524,449.9</b> A	486,931.7 A	11,151.2 B	26,367.0 A
Under 20 years	6,417.5 ⊑	6,357.4 €	F	· F
20 to 24 years	12,718.4 <sup>C</sup>	11,707.8 <sup>C</sup>	174.1 ⊑	836.6
25 to 34 years	48,727.7 B	43,016.2 <sup>C</sup>	1,245.9 <sup>C</sup>	4,465.6 E
35 to 44 years	114,763.3 B	102,718.5 B	3,619.6 B	8,425.2 E
45 to 54 years	138,311.3 B	126,420.9 B	4,192.0 B	7,698.3 E
55 to 64 years	113,602.4 B	107,394.3 B	1,421.5 <sup>C</sup>	4,786.6 E
65 years and over	89,909.3 B	89,316.6 B	437.9 E	F

Table 6-2
Estimates of vehicle-kilometres and passenger-kilometres for provinces only by type of vehicle and sex of driver

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
		millions of vehicle-	kilometres	
Both sexes Males Females	<b>331,396.3</b> A 232,860.2 A 98,536.2 B	<b>299,555.2</b> A 202,034.0 A 97,521.2 B	<b>8,110.5</b> B 7,823.9 A 286.6 E	<b>23,730.5</b> A 23,002.2 A 728.3 E
		millions of passenge	r-kilometres	
Both sexes Males Females	<b>524,449.9</b> A 368,218.3 A 156,231.6 B	<b>486,931.7</b> A 331,967.7 A 154,964.0 B	<b>11,151.2</b> <sup>B</sup> 10,843.5 <sup>B</sup> 307.6 <sup>E</sup>	<b>26,367.0</b> A 25,407.1 A 960.0 E

Table 6-3 Estimates of vehicle-kilometres and passenger-kilometres for provinces only by driver age group and sex of driver

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
_		millions of vehicle-l	kilometres	
- Fotal, all age groups				
Both sexes	331,396.3 A	299,555.2 A	8,110.5 B	23,730.5
Males .	232,860.2 A	202,034.0 A	7,823.9 A	23,002.2
Females	98,536.2 <sup>B</sup>	97,521.2 <sup>B</sup>	286.6 E	728.3
Jnder 25 years				
Both sexes	12,241.2 <sup>C</sup>	11,325.5 <sup>C</sup>	151.8 ⊑	764.0
Males	6,977.1 <sup>C</sup>	6,062.7 □	150. <u>4</u> E	764.0
Females	5,264.2 D	5,262.8 D	F	F
25 to 54 years				
Both sexes	191,828.3 <sup>A</sup>	166,468.8 <sup>A</sup>	6,691.6 <sup>B</sup>	18,667.9
Males	129,348.5 A	104,892.2 B	6,436.1 <sup>B</sup>	18,020.1
Females	62,479.8 B	61,576.5 <sup>B</sup>	255.5 <sup>E</sup>	647.81
55 years and over				
Both sexes	127,326.8 A	121,761.0 A	1,267.2 <sup>C</sup>	4,298.7
Males	96,534.6 A	91,079.1 B	1,237.4 <sup>C</sup>	4,218.1
Females	30,792.2 B	30,681.8 B	F	F
_		millions of passenge	r-kilometres	
Fotal, all age groups				
Both sexes	524,449.9 A	486,931.7 A	11,151.2 <sup>B</sup>	26.367.0
Vales	368.218.3 A	331.967.7 A	10.843.5 B	25.407.1
emales	156,231.6 B	154,964.0 B	307.6 <sup>E</sup>	960.0
Jnder 25 years				
Both sexes	19.135.9 <sup>C</sup>	18.065.2 <sup>C</sup>	234.2 ⊑	836.61
Males	10,547.5 C	9,478.1 <sup>C</sup>	232.9 €	836.61
Females	8,588.4 D	8,587.1 D	F	F
25 to 54 years				
Both sexes	301,802.3 A	272,155.6 A	9,057.5 <sup>B</sup>	20,589.2
Males	201,881.1 A	173,309.7 A	8,781.0 B	19,790.3
Females	99,921.2 <sup>B</sup>	98,845.8 <sup>B</sup>	F	798.9
55 years and over				
Both sexes	203,511.7 A	196,711.0 A	1,859.4 <sup>C</sup>	4,941.31
Males	155,789.7 A	149,179.9 A	1,829.6 <sup>C</sup>	4,780.2
Females Females	47,722.0 B	47,531.1 B	F	F

Table 6-4
Estimates of vehicle-kilometres and passenger-kilometres for provinces only by type of vehicle and dayof week

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
		millions of vehicle-l	kilometres	
Total, all days of the week	331,396.3 <sup>A</sup>	299,555.2 A	8,110.5 B	23,730.5 A
Sunday	36,469.6 B	34,442.7 B	, 558.8 E	1,468.2
Monday	51,823.3 B	46,557.4 B	1,318.1 <sup>B</sup>	3,947.8 A
Tuesday	50,586.8 A	44,645.9 A	1,454.4 B	4,486.4 A
Wednesday	48,928.0 A	43,049.2 A	1,301.9 B	4,576.9 A
Thursday	50,421.5 A	44,665.9 A	1,474.1 B	4,281.6 A
Friday	51,475.2 A	46,522.3 A	1,519.8 B	3,433.2 A
Saturday	41,600.7 B	39,594.8 B	480.2 D	1,525.7 B
		millions of passenge	r-kilometres	
Total, all days of the week	<b>524,449.9</b> A	486,931.7 A	11,151.2 B	26,367.0 A
Sunday	70,995.2 B	68,412.6 B	902.7 E	1,679.8 <sup>C</sup>
Monday	79,603.7 B	73,340.4 B	1,843.3 B	4,420.1 B
Tuesday	75,165.3 <sup>B</sup>	68,301.3 B	1,904.5 B	4,959.6 B
Wednesday	69,541.0 A	62,810.3 A	1,736.4 B	4,994.4 A
Thursday	73,313.3 A	66,653.1 B	1,943.3 B	4,716.9 A
Friday	79,473.4 A	73,435.8 A	2,155.0 B	3,882.6 B
Saturday	76.357.9 B	73,978.2 B	666.1 <sup>E</sup>	1.713.7 B

Table 6-5
Estimates of vehicle-kilometres and passenger-kilometres for provinces only by type of vehicle and type of day

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
		millions of vehicle-	kilometres	
Total, all days Weekends and holidays Weekdays	<b>331,396.3</b> <sup>A</sup> 88,451.6 <sup>A</sup> 242,944.7 <sup>A</sup>	<b>299,555.2</b> A 83,249.1 A 216,306.1 A	<b>8,110.5</b> B 1,258.1 D 6,852.4 A	<b>23,730.5</b> A 3,944.4 B 19,786.2 A
		millions of passenge	er-kilometres	
<b>Total, all days</b> Weekends and holidays Weekdays	<b>524,449.9</b> A 162,927.5 A 361,522.4 A	<b>486,931.7</b> A 156,641.7 A 330,290.0 A	<b>11,151.2</b> B 1,828.6 D 9,322.5 B	<b>26,367.0</b> A 4,457.2 B 21,909.8 A

Table 6-6
Estimates of vehicle-kilometres and passenger-kilometres for provinces only by type of vehicle and time of day

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
		millions of vehicle-l	kilometres	
<b>Total, all hours</b> 00:00 to 05:59 06:00 to 11:59 12:00 to 17:59 18:00 to 23:59	<b>331,396.3</b> A 10,173.8 B 110,286.6 A 149,673.1 A 61,262.8 A	<b>299,555.2</b> A 7,726.4 B 97,990.8 A 137,309.1 A 56,528.9 A	8,110.5 B 269.9 D 3,736.3 A 3,480.3 B 624.1 C	<b>23,730.5</b> A 2,177.4 B 8,559.6 A 8,883.7 A 4,109.8 B
		millions of passenge	r-kilometres	
<b>Total, all hours</b> 00:00 to 05:59 06:00 to 11:59 12:00 to 17:59 18:00 to 23:59	<b>524,449.9</b> A 14,592.2 B 161,055.8 A 242,910.5 A 105,891.4 A	<b>486,931.7</b> A 11,815.7 C 146,537.9 A 228,161.9 A 100,416.2 A	<b>11,151.2</b> B 339.7 D 5,049.0 B 4,834.4 B 928.1 C	<b>26,367.0</b> A 2,436.8 B 9,468.9 A 9,914.2 A 4,547.1 B

Table 6-7 Estimates of vehicle-kilometres and passenger-kilometres for provinces only by type of vehicle, type of day and time of day

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
		millions of vehicle	e-kilometres	
Total, all days				
Total, all hours	331,396.3 A	299,555.2 A	8,110.5 B	23,730.5
00:00 to 05:59	10,173.8 B	7,726.4 B	269.9D	2,177.4
06:00 to 11:59	110,286.6 A	97,990.8 A	3,736.3 A	8,559.6
12:00 to 17:59	149,673.1 A	137,309.1 A	3,480.3 B	8,883.7
18:00 to 23:59	61,262.8 A	56,528.9 A	624.1 <sup>C</sup>	4,109.8 E
Weekends and holidays				
Total, all hours	88,451.6 A	83,249.1 A	<b>1,258.1</b> □	3,944.4
00:00 to 05:59	2,492.7 <sup>C</sup>	2,124.6 D	42.8 E	325.4
06:00 to 11:59	25,456.6 B	23,555.6 B	509.9°	1,391.0 E
12:00 to 17:59	42,782.2 A	40,673.9 B	587.7 D	1,520.6 E
18:00 to 23:59	17,720.2 <sup>B</sup>	16,895.1 <sup>B</sup>	117.7 ⊑	707.4
Weekdays				
Total, all hours	<b>242,944.7</b> A	216,306.1 A	6,852.4 A	19,786.2 <sup>/</sup>
00:00 to 05:59	7,681.1 <sup>B</sup>	5,601.9°	227.1 D	1,852.1 <sup>E</sup>
06:00 to 11:59	84,830.1 A	74,435.2 <sup>A</sup>	3,226.3 A	7,168.5 <sup>/</sup>
12:00 to 17:59	106,890.9 A	96,635.2 A	2,892.6 B	7,363.2
18:00 to 23:59	43,542.6 <sup>A</sup>	39,633.9 B	506.4°	3,402.4 E
		millions of passeng	er-kilometres	
Total, all days				
Total, all hours	<b>524.449.9</b> A	486,931.7 A	11,151.2B	26.367.0
00:00 to 05:59	14.592.2 B	11.815.7°	339.7□	2.436.8 E
06:00 to 11:59	161.055.8 A	146,537.9 A	5.049.0 B	9.468.9
12:00 to 17:59	242.910.5 A	228,161.9 A	4,834.4 B	9.914.2
18:00 to 23:59	105,891.4 A	100,416.2 A	928.1°	4,547.1 E
Weekends and holidays				
Total, all hours	162,927.5 A	156,641.7 A	1,828.6 D	4,457.2
00:00 to 05:59	4,333.4 D	3,907.6 □	, F	372.4 <sup>[</sup>
06:00 to 11:59	43,063.7 B	40,751.3 B	735.1 <sup>C</sup>	1,577.3 E
12:00 to 17:59	81,588.5 A	78,979.2 A	877.2 ⊑	1,732.1 E
18:00 to 23:59	33,941.9 <sup>B</sup>	33,003.6 B	163.0 €	775.4
Weekdays				
Total, all hours	<b>361,522.4</b> <sup>A</sup>	330,290.0 A	<b>9,322.5</b> B	21,909.8
00:00 to 05:59	10,258.7 <sup>B</sup>	7,908.0 <sup>C</sup>	286.4 D	2,064.4 E
06:00 to 11:59	117,992.1 <sup>A</sup>	105,786.6 A	4,313.9 <sup>B</sup>	7,891.6 <sup>/</sup>
12:00 to 17:59	161,322.0 A	149,182.7 A	3,957.2 <sup>B</sup>	8,182.1 <sup>/</sup>
18:00 to 23:59	71,949.5 <sup>A</sup>	67,412.7 B	765.1 <sup>C</sup>	3,771.7 □

Table 6-8
Estimates of vehicle-kilometres and passenger-kilometres for provinces only by type of vehicle and road type

	Total, all vehicles	Vehicles up to 4.5 tonnes	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over
_		millions of v	vehicle-kilometres	
Total, all roads Roads with posted maximum speed	<b>331,396.3</b> A	<b>299,555.2</b> A	<b>8,110.5</b> B	23,730.5 A
of 80 kilometres per hour or more	176,465.0 A	155,383.2 A	4,446.5 B	16,635.4 A
All other roads	154,931.3 <sup>A</sup>	144,172.1 <sup>A</sup>	3,664.1 <sup>B</sup>	7,095.2 B
_		millions of pa	ssenger-kilometres	
Total, all roads Roads with posted maximum speed	<b>524,449.9</b> A	486,931.7 A	11,151.2 B	26,367.0 A
of 80 kilometres per hour or more	286,780.0 A	262,274.7 A	6,264.8 B	18,240.5 A
All other roads	237,669.9 A	224,657.0 A	4,886.4 B	8,126.5 B

Table 6-9
Estimates of vehicle-kilometres and passenger-kilometres for provinces only by origin and destination of trips for vehicles up to 4.5 tonnes

			Destination		
	Driver's home	Driver's regular workplace	Shopping centre, bank, other place of personal business	Leisure, entertainment, recreational facility, restaurant	Other
		millio	ons of vehicle-kilometre	es	
Origin					
Driver's home	52,961.4 A	25,437.3 B	10,005.4 D	10,238.7 <sup>C</sup>	39,747.9 B
Driver's regular workplace Shopping centre, bank, other place of	22,641.5 B	7,466.7 <sup>C</sup>	F	F	6,242.9 D
personal business Leisure, entertainment, recreational facility,	11,457.3 D	F	F	F	3,554.7 ⊑
restaurant	10,815.3 <sup>C</sup>	F	F	5,840.5 <sup>E</sup>	5,260.5 D
Other	35,952.5 B	5,456.8 D	4,518.0 E	5,407.6 D	25,061.7 B
		millior	ns of passenger-kilomet	tres	
Origin					
Driver's home	84,010.1 A	30,649.5 B	16,033.1 D	20,927.1 <sup>C</sup>	68,151.7 B
Driver's regular workplace Shopping centre, bank, other place of	26,695.3 <sup>C</sup>	8,801.1 <sup>C</sup>	F	F	7,687.2 ⊑
personal business Leisure, entertainment, recreational facility,	18,664.3 D	F	6,578.8 ⊑	3,869.1 ⊑	6,738.4 ⊑
restaurant	21,954.7 <sup>C</sup>	F	F	12,529.1 <sup>D</sup>	11,869.2 D
Other	60,932.2 B	6,827.4 E	8,712.8 E	12,146.5 D	45,152.6 B

Table 6-10
Estimates of vehicle-kilometres and passenger-kilometres for provinces only by part of the driver's job for vehicles up to 4.5 tonnes

	Vehicle-kilometres	Passenger-kilometres
	millions	
Total Yes No	<b>299,555.2</b> A 54,236.5 A 245,318.8 A	<b>486,931.7</b> A 68,349.0 B 418,582.7 A

**Table 6-11** Estimates of vehicle-kilometres and passenger-kilometres for provinces only by vehicle group and trip purpose for trucks weighing 4.5 tonnes or more

	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over			
_	millions of vehicle-kilometra	es			
Total, all groups Driving to or from service call Carrying goods or equipment Empty Other work purpose Non-work purpose Total	1,676.4 °C 3,671.2 °C 506.2 °E 554.0 °E 1,702.8 °C <b>8,110.5</b> °B	1,460.9 <sup>C</sup> 17,627.2 <sup>A</sup> 3,155.4 <sup>B</sup> 508.8 <sup>E</sup> 978.2 <sup>C</sup> 23,730.5 <sup>A</sup>			
Straight trucks Driving to or from service call Carrying goods or equipment Empty Other work purpose Non-work purpose Total	1,545.2 °C 3,485.3 °B 503.1 °E 536.8 °E 1,629.6 °C <b>7,700.0</b> °B	240.2 E 2,317.4 C 322.2 E F 199.7 E <b>3,200.1</b> B			
Other trucks over 4.5 tonnes Driving to or from service call Carrying goods or equipment Empty Other work purpose Non-work purpose Total	F F F F <b>410.5</b> <sup>⊑</sup>	1,220.7 E 15,309.8 A 2,833.2 B 388.2 E 778.5 D <b>20,530.4</b> A			
_	millions of passenger-kilometres				
Total, all groups Driving to or from service call Carrying goods or equipment Empty Other work purpose Non-work purpose Total	2,108.1 ° 4,743.0 ° 656.7 ° 850.1 ° 2,793.4 ° <b>11,151.2</b> °B	1,956.8 E 19,098.0 A 3,378.5 B 820.8 E 1,112.9 C <b>26,367.0</b> A			
Straight trucks Driving to or from service call Carrying goods or equipment Empty Other work purpose Non-work purpose Total	1,909.9 ° 4,521.5 ° 652.5 E 821.1 E 2,696.3 ° <b>10,601.3</b> B	288.1 E 2,470.3 C 354.6 E F 232.0 E <b>3,467.9</b> B			
Other trucks over 4.5 tonnes Driving to or from service call Carrying goods or equipment Empty Other work purpose Non-work purpose Total	F F F F <b>549.9</b> ⊑	1,668.7 E 16,627.7 A 3,024.0 B 697.8 E 880.8 E 22,899.1 A			

Table 6-12
Estimates of vehicle-kilometres and passenger-kilometres for provinces only by carrying dangerous goods for trucks weighing 4.5 tonnes or more

	Total, all vehicles	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over			
	millions of vehicle-kilometres					
otal with or without dangerous goods lith dangerous goods lithout dangerous goods	<b>31,841.1</b> A 2,813.3 C 29,027.8 A	<b>8,110.5</b> A 342.9 E 7,767.6 B	<b>23,730.5</b> A 2,470.4 E 21,260.1 A			
	million					
<b>Total with or without dangerous goods</b> With dangerous goods Without dangerous goods	<b>37,518.2</b> A 2,861.9 C 34,656.4 A	<b>11,151.2</b> A 371.4 E 10,779.8 B	<b>26,367.0</b> A 2,490.4 E 23,876.6 A			

Table 7-1
Estimates by type of vehicle, type of fuel and vehicle body type for provinces only — Vehicle-kilometres

	Total, all vel	nicles	Vehicles up to 4	.5 tonnes	Trucks 4.5 t to 14.9 tor		Trucks 15 tonne	es and over				
	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel				
		millions of vehicle-kilometres										
Vehicle body type												
Car	140,963.8 A	2,341.8 E	140,956.0 A	2,341.8 €								
Station wagon	4,424.5 D	F	4,424.5 D	F								
Van	53,441.6 B	F	53,243.3 B	F	198.3 ⊑	252.5 E						
SUV	37,154.8 B	F	37,154.8 B	F								
Pickup	51,941.6 B	8,319.4 C	51,389.8 B	7,101.6 D	551.8 E	1,217.8						
Straight truck	1,142.3 C	8,188.6 A	F	F	664.9 E	4,659.7 E	F F	3,184.8 B				
Tractor trailer		20,957.4 A				409.2 E		20,451.4 A				
Bus	F	F	F	F	F	F						
Other	F	F	F	F	F	F		F				
Total	289,516.4 A	<b>40,709.0</b> A	288,059.2 A	10,467.2 B	<b>1,445.8</b> B	6,604.8	F F	<b>23,637.0</b> A				

Table 7-2
Estimates by type of vehicle, type of fuel and vehicle body type for provinces only — Fuel consumed

	Total		Vehicles up to 4.	5 tonnes	Trucks 4.5 to to 14.9 ton		Trucks 15 tonne	s and over
	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel
				millions of	litres			
Vehicle body type								
Car	12,658.9 D	F	12,656.1 D	F				
Station wagon	F	F	F	F				
Van	6,379.4 ⊑	F	6,339.6 €	F	F	45.8 ⊑		
SUV	4,409.8 ⊑	F	4,409.8 E	F				
Pickup	7,467.7 <sup>C</sup>	1,236.1 目	7,348.0 C	978.7 ⋿	119.7 ⋿	257.4 C		
Straight truck	208.3 €	2,289.7 ₽	F	F	147.6 E	1,112.7 B	F	1,139.8 B
Tractor trailer		7,222.0 A				127.4 E		7,078.6 A
Bus	F	F	F	F	F	F		
Other	F	F	F	F	F	F		F
Total	<b>31,624.8</b> <sup>C</sup>	11,068.9 A	31,305.0 <sup>C</sup>	1,292.1 <sup>E</sup>	<b>315.8</b> <sup>C</sup>	1,557.9 B	F	<b>8,218.8</b> A

Table 8-1 Activity type for trucks weighing 4.5 tonnes or more for provinces only — Number of vehicles in scope by type of

	Trucks 4.5 tonnes to 14.9 tonnes	Trucks 15 tonnes and over		
Total, all activity types For-hire trucking	<b>389,936</b> <sup>A</sup> 53.941 <sup>B</sup>	<b>311,915</b> A 142.575 A		
Owner-operator trucking Private trucking	64,361 <sup>B</sup> 197.218 <sup>A</sup>	76,328 B 64,796 B		
Other activity type	74,417 B	28,216 <sup>C</sup>		

Table 8-2 Activity type for trucks weighing 4.5 tonnes or more for provinces only — Vehicle-kilometres and passenger-kilometres for trucks 4.5 tonnes to 14.9 tonnes

	Vehicle-kilometres	Passenger-kilometres
	millions	
Total, all activity types For-hire trucking Owner-operator trucking Private trucking Other activity type	<b>8,110.5</b> A 1,549.2 E 1,357.5 E 3,792.8 B 1,411.0 D	<b>11,151.2</b> A 2,171.4 E 1,963.4 E 5,198.3 B 1,818.1 C

Table 8-3 Activity type for trucks weighing 4.5 tonnes or more for provinces only — Vehicle-kilometres and passenger-kilometres for trucks 15 tonnes or more

	Vehicle-kilometres	Passenger-kilometres
	millions	
Total, all activity types For-hire trucking Owner-operator trucking Private trucking Other activity type	<b>23,730.5</b> A 13,555.8 B 5,616.3 B 3,219.7 C 1,338.7 D	<b>26,367.0</b> A 15,053.0 B 6,303.5 B 3,534.5 C 1,476.1 D

Table 9-1 Trip type for trucks weighing 4.5 tonnes or more for provinces only — Vehicle-kilometres and passenger-kilometres for trucks 4.5 tonnes to 14.9 tonnes

	Vehicle-kilometres	Passenger-kilometres
	millions	
Total, all trip types Trips within provinces Trips between provinces Trips across Canada and United States border Trips outside Canada	<b>8,110.5</b> A 7,480.2 B 583.1 E F F	11,151.2 A 9,962.4 B 1,052.5 E F F

Table 9-2
Trip type for trucks weighing 4.5 tonnes or more for provinces only — Vehicle-kilometres and passenger-kilometres for trucks 15 tonnes or more

	Vehicle-kilometres	Passenger-kilometres
	millions	
Total, all trip types Trips within provinces Trips between provinces Trips across Canada and United States border Trips outside Canada	<b>23,730.5</b> A 13,431.4 A 3,323.2 B 4,458.4 B 2,517.5 C	<b>26,367.0</b> A 15,006.0 A 3,600.7 B 4,628.1 B 3,132.3 C

# **Concepts and definitions**

### The population of interest

The **in-scope vehicles** for the CVS include all motor vehicles, except buses (buses were included in the survey prior to 2004), motorcycles, off road vehicles (for example, snowmobiles, dune buggies, amphibious vehicles) and special equipment (for example, cranes, street cleaners, snowplows and backhoes), registered in Canada anytime during the survey reference period, that have not been scrapped or salvaged.

The **population of interest** consists of vehicle-days, composed from the in-scope vehicles and the days within the survey reference period.

### **Definitions of variables in tables**

Vehicle-kilometres is the distance traveled by vehicles on roads.

Passenger-kilometres is the sum of the distances traveled by individual passengers (the driver being considered as one of the passengers). For example, for a vehicle with three passengers (the driver being one of them) that is driven on a distance of 10 kilometres, the number of passenger-kilometres will be 30. Light vehicles (see the Vehicle type definition below) report the number of passengers for each trip (see the Trip definition below). The number of passengers in heavy vehicles with gross vehicle weight of 4.5 tonnes or more (see the Vehicle type definition below) is calculated as the average of the number of passengers at the beginning of each trip and the number of passengers at the end of each trip (see the Trip definition below).

**Fuel consumed** is the amount of fuel used to operate vehicles. This variable is derived for each vehicle using the reported fuel purchases and distance driven.

**The number of vehicles on the registration lists** is the average number of the registered vehicles in the registration lists at the beginning and at the end of the reference period.

The number of vehicles in scope is an estimate of the average number of vehicles registered during the quarter based on the lists from jurisdictions and the survey responses. This number slightly differs from the previous one because we incorporate into it all our findings from the survey. Note that this number includes vehicles used and not used on the roads during the reference period.

### **Definitions of vehicle characteristics**

**Vehicle type** is the weight classification created for the CVS, based on the information available on the vehicle registration lists. The vehicles are divided into three weight types: **light vehicles** with gross vehicle weights below 4.5 tonnes, **heavy vehicles** with gross vehicle weights of 4.5 tonnes or more and less than 15 tonnes, and **heavy vehicles** with gross vehicle weights of 15 tonnes or more.

The respondent determines **vehicle body type**. The respondent is asked to choose among: car, station wagon, van, sport utility vehicle, pick-up, straight truck, truck-tractor, and other. Missing or unusual responses are verified against registration lists, if possible.

**Fuel type** is based on the information provided by the respondent or from the registration lists. All vehicles are divided into three classes: vehicles powered by gasoline, vehicles powered by diesel fuel and vehicles powered by other energy sources.

**Vehicle model year** is derived based on the information available on the registration lists.

### **Definitions of vehicle usage characteristics**

The CVS definition of a **trip** determines the trip characteristics. The definition of what delimits a trip depends on the **vehicle type**:

A new trip is reported for **light vehicles** if any of the following events happen:

- · the driver gets in the car
- · a passenger gets in or out of the car

A new trip is reported for heavy vehicles weighing 4.5 tonnes or more if any of the following events happen:

- · a stop of more than 30 minutes
- · a change of driver
- · a change of purpose or use
- · a change in the truck configuration
- · a change in the status of the load from loaded to unloaded or the reverse

For each trip, the respondent provides the following information:

- Beginning and end times and dates of the trip that are used to determine the **time of day** and **day of week** the trip takes place.
- Driver age group and driver sex.
- Trip origin and destination for light vehicles.
- **Trip purpose** for heavy vehicles, as determined by the respondent. If there were several purposes for the trip, the respondent is asked to indicate the main purpose of the trip. Multiple trip purposes are not allowed.
- If dangerous goods (as defined by the Transportation of Dangerous Goods Act) are carried by heavy vehicles.
- Number of kilometres traveled on roads with posted speed limit of 80 km/h or more.
- Age group (Under 5 years, 5 to 14, 15 to 19, 20 to 34, 35 to 54, 55 to 64, 65 to 74, 75 to 84, 85 years and over)
  of passengers and the number of passengers within each group, to calculate passenger-kms. Passenger age
  information is collected only for light vehicles (see "Data quality, concepts and methodology Data quality"). We
  collect the total number of passengers only for heavy vehicles.
- Truck configuration for heavy vehicles.
- Total cost, unit cost and quantity of fuel purchased.

# **Methodology**

The CVS has been designed as a quarterly survey. The survey design also allows the calculation of annual estimates based on the data collected during the four quarters.

### Survey design

### Survey population

The survey population of vehicles was derived from the 13 jurisdiction vehicle registration lists (ten Provincial and three Territorial Governments) created three months before the reference period. The sample of vehicles for each quarter of 2007 was drawn from lists of motor vehicles with valid registrations in any province or territory available three months before the beginning of each quarter. Buses, motorcycles, off-road vehicles (e.g., snowmobiles, dune buggies, amphibious vehicles) and special equipment (e.g., cranes, street cleaners, snowplows and backhoes) were excluded from the survey. This population differs from the population of interest of vehicles; e.g., vehicles that were registered less than three months before the quarter began (or during the quarter) were not included in that quarter's sample.

The thirteen incoming lists underwent a thorough preparation procedure:

- First, out-of-scope vehicles are removed (buses, trailers, motorcycles, construction equipment, parade vehicles, motor homes, etc.) from each list.
- Second, vehicles with expired registrations are removed from each list.
- · Then, records with duplicate Vehicle Identification Numbers (VIN) within each list are removed leaving only the record that had been updated most recently.
- Last, records in each file with irregular data are verified.

The most recent set of prepared lists was used to select the sample for each quarter of 2007. These sets of vehicle lists and the days within the respective quarter constitute the survey population.

### Sample design

The CVS uses a two-stage sample design. At the first-stage, a sample of vehicles is selected, while at the secondstage, a sample of consecutive days within the quarter is selected.

To select the first-stage sample, all vehicles from the survey population were first stratified (grouped) into 78 strata. The vehicles were stratified into three vehicle types (see appendix I) and 13 jurisdictions (ten provinces and three territories). Then, in order to improve the precision of the estimates, the vehicles were further divided into two vehicle-age strata of newer and older vehicles.

Next, the vehicles were sorted within each stratum, using the first three characters of the postal code of the owner's address. Then, a systematic sample of vehicles (first stage sample) was selected from the survey population. Systematic sampling was used to spread the sample over all regions and to avoid heavy burden on owners of multiple vehicles. To minimize respondent burden, no vehicle is selected more than once during any consecutive four guarters for provinces and two consecutive guarters for territories.

In the second stage, a first reporting day within the quarter was randomly assigned to each vehicle selected in the first stage. Within each stratum, the first reporting day was evenly spread over the quarter to ensure a uniform number of responses over time and for each day of the week. This step was not applied to the vehicles registered in the three territories since only odometer readings are collected (see "Survey overview").

#### **Estimation**

Since the sample was selected in two stages, the sampling weight (see appendix I) was also calculated in two steps. The first-stage sampling weight was calculated for each vehicle in the first-stage sample. Then the second-stage sampling weight was calculated for each vehicle-day selected from all days within the reference period. Finally, these two weights were multiplied together to obtain the final weight for a vehicle-day. The weighted values are obtained by multiplying the final weights and the collected values. They were aggregated to produce the estimates.

### Sample size

A total sample of 26,987 vehicles was drawn for the ten provinces. Another 11,693 vehicles were included in the sample for the three territories.

### Data collection and processing

#### **Data Collection**

The data collection for the vehicles sampled in the ten provinces is different from the one for the vehicles sampled in the territories.

### **Provincial collection**

The registered owners of the sampled vehicles were telephoned and interviewed (Computer Assisted Telephone Interview, or CATI). During the CATI, the following information is collected about each sampled vehicle: vehicle type, fuel type used, distance driven the previous week, some information about anticipated vehicle usage during the following six weeks, current odometer reading, some vehicle maintenance questions and some questions on the household characteristics. Then the respondent was asked to complete a trip log. If the respondent agreed, personal information, such as name and address, were obtained in order to mail out the trip log for the vehicle.

The log type depended on the type of vehicle. There were two types of logs: a light vehicle log and a heavy vehicle log.

Respondents receiving a light vehicle log were requested to record information for 20 consecutive trips made in the selected vehicle, beginning on the assigned first reporting day. Respondents receiving a heavy vehicle log were requested to record information for all the trips made in the selected vehicle over the assigned seven-day period.

The collected data included information about each trip:

- · Start and stop dates and times
- Start and stop odometer readings
- origin and destination (light vehicle log) or trip purpose (heavy vehicle log)
- number and age group of passengers (light vehicle log) or number of passengers at the start and end of the trip (heavy vehicle log)
- sex and age group of the driver
- fuel purchases

- · distance traveled on roads with posted speed limit of 80km/h or more
- truck configuration (heavy vehicle log only)
- · dangerous goods (heavy vehicle log only)

Starting in 2004, the respondents were also asked to continue to record their fuel purchases until they reported two fill-ups or five fuel purchases or until the 28-day reporting period is over.

If the respondent could not be contacted by phone, a trip log with a short additional questionnaire (to collect some of the information normally collected during the CATI) was mailed out.

To increase the number of responses, respondents were contacted a second time, either by phone or by mail. On the first or second day of the log, an attempt was made to phone each vehicle owner, who agreed during the CATI to fill out the log, to answer any questions the respondent might have. Later, an attempt was made to contact by phone or mail everyone who did not return logs. (Some companies with large vehicle fleets have special arrangements to lower their response burden. There is no follow-up done with these companies.)

#### Territorial collection

The registered owners of the selected vehicles were mailed questionnaires and asked to provide two odometer readings, one at the beginning of the quarter and another at the beginning of the next quarter. Information was also collected on the vehicle status (owned, sold, scrapped), body style (car, SUV, pick-up, etc.) and type of fuel used.

### **Edit and Imputation**

Once all necessary information for the survey was collected, a series of verifications took place to ensure that the records were consistent and that collection and capture of the data did not introduce errors. Reported data were examined for completeness and consistency using automated edits coupled with manual review. Outliers, i.e., respondents reporting extremely large values, were processed manually.

Missing values and data found in error were imputed by another automated system. The system imputed the data using different imputation rules depending on the vehicle, available information and the type of data to be imputed. For example, the data can be imputed based on other responses for the same vehicle or by using data from a similar vehicle. The imputed data were then again examined for completeness and consistency.

A complete description of the procedures applied to the survey data is available upon request from the Transportation Division of Statistics Canada.

### **Estimation**

Since the survey population differs from the population of interest, several corrections were done to assure that the estimates correspond (as closely as possible) to the population of interest. The sampling weights derived from the sample design were adjusted and improved using updated registration lists. This was possible because, during the passage of time since the sample was selected, new sets of prepared vehicle lists were obtained for the beginning and for the end of the reference quarter. To improve the estimates for the vehicles registered in the ten provinces, all the days were further stratified into working days and holidays (or non-working days, including weekends). Second stage sampling weights were adjusted so that every day of vehicle activity within the same stratum contributed with equal weight to the total estimate. The final set of weights reflected as closely as possible the characteristics of the vehicle population during the reference period.

The following estimates of totals are available:

- vehicle counts by jurisdiction and vehicle type;
- vehicle-kilometres by jurisdiction and vehicle type;

- · passenger-kilometres by province and vehicle type;
- fuel consumed, by vehicle type and fuel type;
- cross tabulations of vehicle-kilometers and passenger-kilometers by a number of variables (described in "Data quality, concepts and methodology — Data quality"), such as body type, driver characteristics, time of day, day of week, etc.

### **Data quality**

This section describes factors that affect the data quality and why they should be considered when using the CVS estimates.

### Sources of errors

While considerable effort is put forth to ensure that a high standard is maintained throughout all survey operations, the resulting estimates are inevitably subject to a certain degree of error. The total survey error is defined as the difference between the survey estimate and the true value for the population, at which the survey estimate aims. The total survey error consists of two types of errors: sampling and non-sampling errors.

### Sampling error

When a sample is selected from a population, estimates based on the sample data may not be exactly the same as what would be obtained from a census of that population. The two results will likely differ since only data for sampled units are used. In the case of a census, there is no sampling error.

The difference between the estimates from a sample survey and a census conducted under the same conditions is referred to as the sampling error of a survey estimate. Factors such as the sample size, the sample design, the variability of the population characteristic under study and the estimation method affect the sampling error. If the population is very heterogeneous like the population of registered motor vehicles, a large sample size is needed to obtain reliable estimates.

The sampling error is measured by a statistical quantity called the standard error. This quantity reflects the expected variability of the survey estimate of a particular population characteristic if repeated sampling is carried out. The true value of the standard error is, of course, not known but can be estimated from the sample. The estimated standard error is used, in this publication, in terms of a relative measure called the coefficient of variation (or CV). This measure is simply the estimated standard error expressed as a percentage of the value of the survey estimate. Therefore, a smaller CV indicates better reliability of the estimate.

### Non-sampling errors

The sampling error is only one component of the total survey error. All other errors arising from all phases of a survey are called non-sampling errors. As the sample size becomes closer to the population size, the sampling error component of the total survey error is expected to decrease. However, this is not necessarily true for the nonsampling error component. For example, this type of error can arise when a respondent provides incorrect information or does not answer certain questions, when a unit in the population of interest is omitted or covered more than once, when a unit that is out-of-scope for the survey is included by mistake or when errors occur in data processing, such as coding and capture errors.

Some non-sampling errors will cancel over a large number of observations, but systematically occurring errors (i.e. those that do not tend to cancel) will contribute to a bias in the estimates. For example, in the case of the CVS, if individuals that use their vehicles more than an average person consistently tend not to respond to the survey, then the resulting estimate of the total vehicle-kilometres will be below the true population total. Any such biases are not reflected in the estimates of standard error.

The non-sampling error as a whole is only one part of the total survey error but its contribution may be important. To minimize the effect of this type of error, a quality assurance program is carried out for each survey. For instance, follow-ups of nonrespondents can be conducted to obtain information from the total nonrespondents or to complete partially unanswered questionnaires for questions that are deemed essential. Various quality assurance procedures can be exercised at the data capture step. The data editing procedures can identify some inconsistencies in the data structure and the imputation procedures can then correct the identified inconsistencies.

In general, non-sampling errors are difficult to quantify. Special studies must be conducted to estimate them. However, certain measures such as response and imputation rates are easily obtained and can be used as indicators of the non-sampling errors. Different types of non-sampling errors are discussed below.

### **Coverage errors**

Coverage errors arise when the survey population does not adequately cover the population of interest. As a result, certain units belonging to the population of interest are either excluded (undercoverage), or counted more than once (overcoverage). In addition, out of scope units may be present in the survey population (overcoverage).

The following sources of coverage errors for the CVS were observed:

- Errors in the classification variables of the survey may result in either under- or overcoverage of the registered vehicles.
- The sample is drawn from the list created three months prior to the beginning of the reference period. Thus the vehicles registered after the list was created and before the end of the reference period cannot be drawn into the sample.
- A vehicle list from any jurisdiction that was not created on time or did not arrive at all results in even larger undercoverage since an older list has to be used for sampling.
- A vehicle list created early causes overcoverage.
- A vehicle that has been scrapped or salvaged and remained on the list causes overcoverage.
- The survey population (see "Data quality, concepts and methodology Methodology") can contain vehicles with the same Vehicle Identification Number (VIN), for example, when a vehicle is on the registration file of more than one jurisdiction. Since every vehicle has a unique VIN, this is likely to cause some overcoverage and consequently overestimation.
- · A vehicle that was registered and subsequently unregistered between two consecutive registration lists causes undercoverage.

Thus the CVS is subject to some degree of under and over coverage. The estimation procedure is designed to compensate for the part of the under- and over coverage that has been determined.

Since we assume that the respondent is right (unless we have hard evidence to the contrary), the corrections at the estimation stage are mostly based on the respondent statements.

### Response errors

Response errors occur when a respondent provides incorrect information due to a misinterpretation of the survey questions or due to a lack of correct information, or when a respondent is reluctant to disclose the correct information. Large response errors are likely to be caught during editing. However, others may simply go through undetected.

Few response errors were discovered during editing of the data.

### **Nonresponse errors**

Nonresponse errors can occur when a respondent does not respond at all (total nonresponse) or responds only to some questions (partial nonresponse). These errors can have a serious effect if the nonrespondents are systematically different in survey characteristics from the respondents and/or the nonresponse rate is high. See the response rate tables in "Data quality, concepts and methodology — Data quality".

### **Processing errors**

Apart from coverage, response and nonresponse errors described above, errors that occur during the processing of the data constitute another component of the non-sampling error. Processing errors can arise in data capture, coding, transcription, editing, imputation, outlier detection and treatment, and other types of data handling.

A coding error occurs when a field is coded erroneously because of a misinterpretation of the coding procedures or a bad judgment. A data capture error occurs when the data are misinterpreted or keyed incorrectly. For example, an odometer reading of 53467 could be keyed as 54367.

Once data are coded and captured, they are subject to editing and imputation of missing or erroneous values. The quality of the data used in the estimation depends on the amount of imputation and the difference between the imputed and the true, but unknown, values. The imputation system could result in bias of the estimates. This can happen due to wrong assumptions or due to inability to impute. For example, in the CVS, it is impossible to detect, for vehicles that travel only a small distance during the reported period, fuel purchases that are missing or entered in error.

### Measuring quality

This section presents some indicators of the data quality of the CVS estimates.

### **Response rates**

The response rate is a function of the number of vehicles that responded to the survey. This rate is defined as the number of vehicles for which respondents gave complete or partial (vehicle-kilometers only) answers to the survey divided by the total number of in-sample vehicles.

Vehicle response rates by province and vehicle type

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brusnwick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia
					percei	nt				
Light vehicles Heavy	59	69	58	59	67	60	68	61	53	58
vehicles 4.5 to 14.9 tonnes Heavy vehicles 15 tonnes or	60	68	63	63	61	59	65	58	54	54
more To tollines of	61	61	69	60	72	65	54	59	48	56

Table B
Vehicle response rates by territory

	Yukon	Northwest Territories	Nunavut
	percent		
All vehicles	15	13	8

The low level of response may lead to biased results if the characteristics of interest of the nonrespondents are different than those of the respondents.

### Relative imputation rates

The relative imputation rate is defined as the proportion of the corresponding published estimate that is accounted for by imputed data. For example, if the total published estimate is 25 million, composed of 20 million from nonimputed data and 5 million from imputed data, then the relative imputation rate is .2 (5 million divided by 25 million) or 20%. The lower the relative imputation rates are, the more reliable the published estimates are.

The relative imputation rates were calculated for each of the estimates and used to establish a quality indicator for each estimate. The relative imputation rates for estimates could be obtained from the Transportation Division of Statistics Canada upon request.

### Coefficient of variation

As a measure of the sampling error of the estimates, the estimated coefficients of variation (CV) were calculated. CV's for estimates may be obtained from the Transportation Division of Statistics Canada upon request. Note that the calculated CV estimates take into account the variability due to sampling and the variability due to non-response and imputation.

### **Quality indicator**

To assist the user in evaluating the potential effect of nonresponse, imputation and sampling error, an all-embracing quality indicator accompanies every estimate. The quality indicator is a function of the CV, which takes into account the variability due to sampling and the variability due to non-response and imputation.

Letter and significance	Coefficient of variation
A Excellent	Less than 5%

B Very good 5% to 9.9%
C Good 10% to 14.9%
D Acceptable 15% to 19.9%
E Use with caution 20% to 34.9%
F too unreliable to be published 35% or more

The quality of counts (direct from registration lists) not accompanied by a quality symbol is good or better.

### Notes for historical comparison

Recent updates to the vehicle registration files have now been incorporated into the Canadian Vehicle Survey counts and estimates for British Columbia. The revisions affect the 2003 to 2005 survey years. On average, estimated vehicle kilometres in British Columbia have been revised upward by 0.6% for 2003, 2.3% for 2004, and 6.7% for 2005.

Note that these revisions, in turn, affect the national estimates for the same periods, although the magnitude is much smaller – 0.1% in 2003, 0.4% in 2004, and 0.7% in 2005.

Revisions were also made in order to treat holidays consistently across the reference periods. This affected most variables for the four quarters of 2004. Impacts of the revisions vary depending on the variable, but are generally greatest for tables dealing with the day of week or time of day.

Beginning with Quarter 1, 2004, the following changes were made and may affect comparability with previous quarters:

- · Buses are excluded from the survey
- Rather than estimates of the quantity of fuel purchased, the survey now produces estimates of the quantity of fuel consumed.
- The light vehicle log is based on 20 trips rather than reporting all trips for 7 days. Depending on vehicle usage, some respondents will report more than 7 days worth of trips while others will report less than 7 days.
- The definition of a trip for light vehicles has changed so that a new trip is now reported every time a driver gets in
  the vehicle or a passenger gets in or out of the vehicle. This change will mean that what was previously reported
  as one trip could now be reported as two, three or even more trips if there is a change in driver and/or multiple
  passengers are picked up or dropped off at different locations. This new definition will produce more accurate
  estimates of passenger-kilometres for light vehicles.

Beginning with Quarter 2, 2003, vehicles that were insured but not registered were removed from the registration lists for Manitoba. As a result, some estimates for Manitoba may be lower than the estimates from previous guarters.

Beginning with Quarter 4, 2001, vehicles that were registered but did not have license plates were removed from the registration lists for Quebec. As a result, some estimates for Quebec may be lower than the estimates from previous quarters.

Beginning with Quarter 1, 2001, the following changes were made and may affect comparability with previous quarters:

- Prior to this quarter, duplicate records found within the same list and duplicate records found in more than one list were removed. Starting in this quarter, duplicate records were removed from within each list only. This change may cause some overcoverage and, consequently, overestimation.
- Type of fuel used and body type are collected for the territories. Consequently, the four tables (3-3, 3-4, 4-3 and 4-4) now include the territories.
- The heavy vehicle logs were changed in 2001 in order to collect passenger information for heavy vehicles. This
  change means that passenger-kilometres are now estimated for all vehicles, except urban transit buses, for all
  the provinces (but not for territories).
- The heavy vehicle logs were also changed in 2001 in order to collect distance traveled on roads with posted speeds of 80 kilometres per hour or more. This change means that this information is now estimated for all vehicle types in all provinces (but not for the territories).

The following change was made in the third quarter of 2000 and may affect comparability with previous quarterly results:

Owners of buses and heavy vehicles registered in the territories are now sent two short questionnaires to record
odometer readings at the start and end of the quarter. This process was always used for light vehicles in the
territories and replaces the previous method of sending only one questionnaire at the end of the quarter and
requesting that bus and heavy vehicle owners rely on maintenance records to provide odometer readings for the
start of the quarter.

The following changes were made in the first quarter of 2000 to improve the quality of the survey by diminishing non-sampling errors.

The changes that affect comparability with 1999 results:

- The trip purpose choices (for all vehicle types) were changed. The purpose is now based on the destination of the trip. Thus the results from 2000 and 1999 are not comparable for this item.
- · Passenger-kilometers were not collected for heavy vehicles in 2000.

The changes that may affect comparability with the 1999 results:

- A new log was developed for survey year 2000 for all heavy vehicles. In 1999 heavy vehicles with gross vehicle
  weights of 4.5 tonnes or more and less than 15 tonnes had a different log than heavy vehicles with gross vehicle
  weights of 15 tonnes or more.
- The fuel purchased question was attached to each trip for the 2000 survey year for heavy vehicles. Previously it
  was recorded separately from the trips.

# **Appendix I**

### **Glossary**

Population of interest: the collection of all units (for example, vehicle-days) for which the information is required.

**Survey population**: the collection of all units (for example, vehicle-days) for which the information can be realistically provided to the survey. The survey population may differ from the population of interest due to the operational difficulty of identifying all the units that belong to the population of interest. A list of all units in the survey population with their classification information (for example, geographical, vehicle characteristics, date) is used for sample design, selection and estimation.

**Stratification**: a non-overlapping partition of the survey population into relatively homogeneous groups with respect to certain characteristics such as geographical classification, size, etc. These groups are called strata and are used for sample allocation and selection.

**Sampling weight**: a raising factor is attached to each sampled unit (vehicle-day) to obtain estimates for the population from a sample. The basic concept of the sampling weight can be explained by using the representation rate. For example, if 2 units are selected out of 10 population units at random, then each selected unit represents 5 units in the population including itself, and is given the sampling weight of 5. A survey with a complex sample design like CVS requires a more complicated way of calculating the sampling weight. However, the sampling weight is still equal to the number of units in the registration lists the sampled unit represents.

**Editing**: the application of checks that identify missing, invalid or inconsistent entries or that point to data records that are potentially in error. Some of these checks involve logical relationships that follow directly from the concepts and definitions. Others are more empirical in nature or are obtained as a result of the application of statistical tests or procedures.

**Imputation**: the process used to resolve problems of missing, invalid or inconsistent responses identified during editing. This is done by changing some of the responses or missing values on the record being edited to ensure that a plausible, internally coherent record is created. Some problems are eliminated earlier through contact with the respondent or through manual study of the questionnaire. It is generally impossible to resolve all problems at these early stages due to concerns of response burden, cost and timeliness. Imputation is then used to handle remaining edit failures, since it is desirable to produce a complete and consistent file containing imputed data. Although, imputation can improve the quality of the final data by correcting for missing, invalid or inconsistent responses, some methods of imputation do not preserve the relationships between variables or can actually distort underlying distributions.