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# New motor vehicle sales

August 2004





Statistics Canada Statistique Canada



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#### Statistics Canada Marketing and Clients Services

# **New motor vehicle sales**

## August 2004

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#### Note of appreciation

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## **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 confidential to meet secrecy requirements of the Statistics Act
- E use with caution
- F too unreliable to be published

#### **Note**

Components may not add to totals due to rounding.

#### **Acknowledgements**

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- · R. Lussier, Director, Distributive Trades Division
- · R. Evans, Assistant Director, Distributive Trades Division
- . M. Weise, Chief, Retail Trade Section, Distributive Trades Division
- C. Kimanyl, Analyst, Retail Financial Section, Distributive Trades Division

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## **Highlights**

#### August 2004

• New motor vehicle sales slipped 1.2% in August, eating into the gain observed in July. The decline registered in August is entirely attributable to weak sales of both trucks and overseas-built passenger cars. Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses.

## Analysis – August 2004

New motor vehicle sales slipped 1.2% in August, eating into the gain observed in July. The decline registered in August is entirely attributable to weak sales of both trucks and overseas-built passenger cars. Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses.

In all, consumers purchased 131,543 new vehicles, down 1,584 units compared with July.

New motor vehicle sales have remained relatively stable since May 2004, following a string of increases that began at the start of the year and peaked in April. Previously, sales had gone through a period of major declines throughout the second half of 2003. This plunge in sales resulted in a sizable build-up of new vehicle inventories in Canada, which have since been sold off. In the first half of 2003, sales showed major fluctuations while at the same time trending downward.

Based on preliminary automobile industry figures, the number of new motor vehicles sold in September is estimated to have fallen by approximately 3%, with the decline mainly attributable to passenger cars.

#### Note to readers

All data in this release are seasonally adjusted unless otherwise indicated. Seasonally adjusted provincial data back to January 1991 are available on CANSIM.

**Passenger cars** include those used for personal and commercial purposes, such as taxis or rental cars. Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses.

**North American-built new motor vehicles include vehicles** manufactured or assembled in Canada, the United States or Mexico. All other new motor vehicles are considered to have been manufactured overseas.

For reasons of confidentiality, data for Yukon, the Northwest Territories and Nunavut are included with those for British Columbia.

The New Motor Vehicle Sales Survey is compiled on the basis of figures obtained from motor vehicle manufacturers and importers. These results may vary from those obtained directly from auto dealers, due to possible differences in record keeping.

#### Sales decrease attributable to both trucks and overseas-built cars

The number of new trucks sold in August dropped 1.9%, wiping out the gain observed in July. In all, 62,438 new trucks were purchased in August.

The 6.2% drop in the number of overseas-built cars sold in August caused overall sales of passenger cars to fall by 0.5%. Sales of overseas-built cars (which account for one-quarter of all cars) have performed more poorly thus far in 2004—declining in six of the past eight months.

In August, sales of North American-built passenger cars rose 1.6% compared with July, when they registered the largest gain since the start of the year. North American-built cars include cars made by foreign manufacturers that produce cars in North America.

Both passenger car sales and truck sales grew in the first four months of 2004, following a period of steep declines in the second half of 2003. This downward movement first appeared in sales of passenger cars, which began to decline in the fall of 2002. For truck sales, the weakness appeared in mid-2003.

#### Sales up in the West and most of the Atlantic provinces

In August, new motor vehicle sales advanced in all of the Western provinces and every Atlantic province except Prince Edward Island. Quebec and Ontario were the other two provinces reporting sales declines.

In Western Canada, where all provinces (except Manitoba) reported a second consecutive increase, Saskatchewan registered the largest gain (+4.8%) in the country. New motor vehicle sales in Saskatchewan, which rose sharply in February, have since then remained relatively stable.

In the Atlantic provinces, the advance in sales registered in August by New Brunswick was a third consecutive gain, whereas it was the second for Newfoundland and Labrador and a rebound for Nova Scotia, which had registered a sharp decline in July.

Quebec and Ontario, which accounted for almost two-thirds of national sales, saw declines of 4.2% and 1.3% respectively, following the gains observed in July.

Chart 1

New motor vehicle sales, seasonally adjusted, in units, 2001-2004

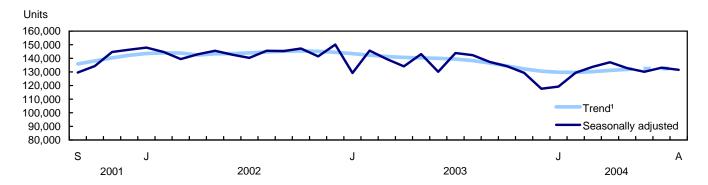


Chart 2
Passenger car sales, seasonally adjusted, in units, 2001-2004

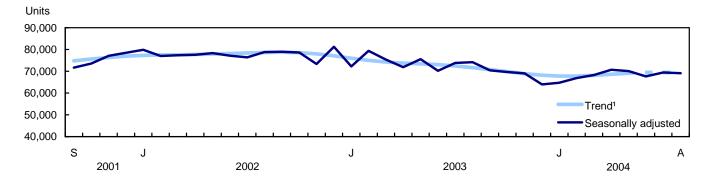


Chart 3

Truck, van and bus sales, seasonally adjusted,in units, 2001-2004

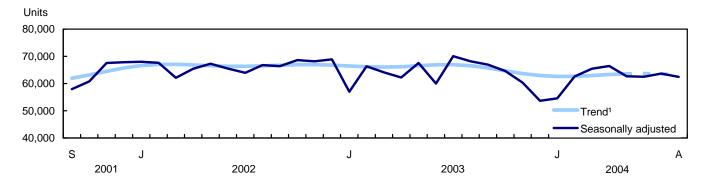


Chart 4

Monthly distribution of the Canadian motor vehicle market (passenger cars), by origin, 2001-2004

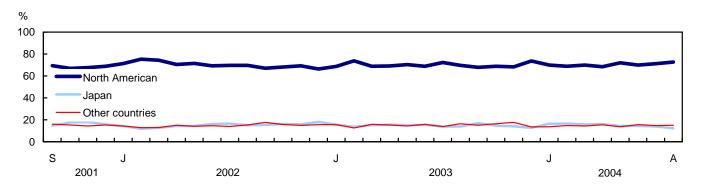
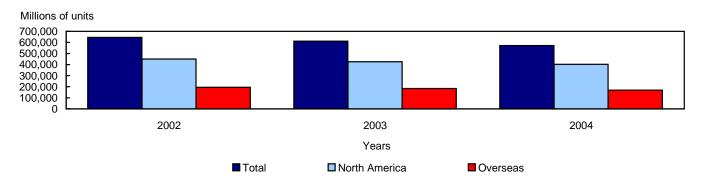


Chart 5

Cumulative sales of new passenger cars, by origin, in units, 2002-2004

January - August



## **Related products**

#### **Selected publications from Statistics Canada**

63-005-X	Retail trade
63-541-X	Retail Commodity Survey, 1989
63F0006X	New motor vehicle sales seasonal factors

#### Selected CANSIM tables from Statistics Canada

079-0001	New motor vehicle sales, Canada, provinces and territories
079-0002	Other estimates of new motor vehicle sales, Canada, provinces and territories

#### **Note on CANSIM**

All current and historical statistics on New Motor Vehicle Sales (tables 0790001-0790002) as well as many other series are available to the public from Statistics Canada's computerized data bank CANSIM (Canadian Socio-Economic Information Management System) via terminal, on computer printouts, or in machine readable form.

For further information, please visit CANSIM.

#### Selected surveys from Statistics Canada

|--|

#### Selected tables of Canadian statistics from Statistics Canada

- · Canadian Statistics New motor vehicle sales
- Economic indicators Canada
- · Canadian Statistics New motor vehicle sales
- Canadian Statistics New motor vehicle sales, provinces

# **Statistical Tables**

Table 1-1 Monthly sales of new motor vehicles, by type and origin, in units, 2002 - 2004

Period	Total new moto	Passenger cars								
		-	North Ar	nerica	Japa	an	Other co	untries	Tota	al
	Units	Year/year change	Units	Year/year change	Units	Year/year change	Units	Year/year change	Units	Year/year change
	No.	%	No.	%	No.	%	No.	%	No.	%
2002										
January	112,105	15.8	41,820	11.0	7,153	47.9	7,297	16.2	56,270	15.3
February	103,981	16.6	37,067	10.4	7,556	43.7	7,965	15.9	52,588	15.1
March	150,286	5.0	57,955	4.3	11,730	20.1	11,433	9.3	81,118	7.0
April	167,558	11.6	66,005	11.7	15,387	32.3	13,912	12.8	95,304	14.8
May	186,313	10.2	74,074	3.7	17,586	25.6	14,837	3.8	106,497	6.8
June	168,305	4.5	62,931	-3.0	13,584	16.5	13,872	9.3	90,387	1.3
July	141,101	8.1	52,993	3.9	12,070	12.4	13,916	18.5	78,979	7.5
August	150,865	8.5	57,576	8.9	13,696	-2.2	13,239	9.4	84,511	7.0
September	144,297	13.6	54,782	17.6	12,536	1.3	11,807	18.6	79,125	14.8
October	137,951	11.1	49,822	5.4	13,594	24.7	11,681	11.4	75,097	9.4
November	127,244	-3.5	44,232	-11.5	10,058	1.0	10,060	-0.6	64,350	-8.1
December	143,312	5.5	52,048	4.3	9,646	22.7	8,784	3.6	70,478	6.4
Year	1,733,318	8.5	651,305	5.1	144,596	17.6	138,803	10.3	934,704	7.6
2003										
January	95,477	-14.8	34,345	-17.9	7,602	6.3	7,943	8.9	49,890	-11.3
February	105,391	1.4	37,734	1.8	8,533	12.9	8,371	5.1	54,638	3.9
March	148,922	-0.9	55,863	-3.6	12,065	2.9	11,457	0.2	79,385	-2.1
April	152,967	-8.7	59,729	-9.5	13,339	-13.3	13,725	-1.3	86,793	-8.9
May	185,419	-0.5	74,880	1.1	14,309	-18.6	14,318	-3.5	103,507	-2.8
June	149,816	-11.0	55,824	-11.3	11,164	-17.8	13,098	-5.6	80,086	-11.4
July	148,957	5.6	54,580	3.0	11,539	-4.4	12,269	-11.8	78,388	-0.7
August	145,108	-3.8	52.954	-8.0	13.297	-2.9	11.762	-11.2	78.013	-7.7
September	141,988	-1.6	50,433	-7.9	10,830	-13.6	12,023	1.8	73,286	-7.4
October	124,427	-9.8	44.518	-10.6	9,224	-32.1	11.484	-1.7	65,226	-13.1
November	115.126	-9.5	44.653	1.0	7.718	-23.3	8.185	-18.6	60.556	-5.9
December	112,870	-21.2	39,213	-24.7	7,288	-24.4	9,206	4.8	55,707	-21.0
Year	1,626,468	-6.2	604,726	-7.2	126,908	-12.2	133,841	-3.6	865,475	-7.4
2004										
January	85,238	-10.7	30.151	-12.2	7,074	-6.9	5.917	-25.5	43.142	-13.5
February	94,778	-10.1	31,676	-16.1	7,608	-10.8	6,745	-19.4	46,029	-15.8
March	149,624	0.5	52,775	-5.5	11,871	-1.6	10,904	-4.8	75,550	-4.8
April	160,195	4.7	59,271	-0.8	14.007	5.0	13,363	-2.6	86,641	-0.2
May	166,136	-10.4	67,222	-10.2	13,456	-6.0	12,650	-11.6	93,328	-9.8
June	154,134	2.9	56,132	0.6	11,601	3.9	12,504	-4.5	80,237	0.2
July	136,582	-8.3	51,686	-5.3	10,122	-12.3	10,762	-12.3	72,570	-7.4
August P September October November December	136,200	-6.1	53,721	1.4	9,085	-31.7	11,137	-5.3	73,943	-5.2
Year										

<sup>1.</sup> Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses. **Note:** Percentage change are year-over-year changes.

Table 1-2 Monthly sales of new motor vehicles, by type and origin, in units, 2002 - 2004

Period	Total new motor	Trucks <sup>1</sup>							
		_	North An	nerica	Overs	seas	Tota	ıl	
	Units	Year/year change	Units	Year/year change	Units	Year/year change	Units	Year/year change	
	No.	%	No.	%	No.	%	No.	%	
2002									
January	112,105	15.8	48,802	12.1	7,033	56.9	55,835	16.3	
February	103,981	16.6	45,464	17.4	5,929	25.5	51,393	18.3	
March	150,286	5.0	61,640	1.1	7,528	17.0	69,168	2.6	
April	167,558	11.6	63,785	4.9	8,469	33.7	72,254	7.6	
May	186,313	10.2	70,834	14.6	8,982	19.0	79,816	15.1	
June	168,305	4.5	69,010	7.0	8,908	22.0	77,918	8.5	
July	141,101	8.1	53,444	6.4	8,678	28.4	62,122	9.0	
August	150,865	8.5	57,466	9.4	8,888	17.8	66,354	10.5	
September	144,297	13.6	56,855	11.1	8,317	19.5	65,172	12.2	
October	137,951	11.1	53,476	10.0	9,378	34.6	62,854	13.1	
November	127,244	-3.5	53,964	-0.8	8,930	19.3	62,894	1.7	
December	143,312	5.5	64,130	5.6	8,704	-1.2	72,834	4.7	
Year	1,733,318	8.5	698,870	7.9	99,744	22.6	798,614	9.5	
2003									
January	95,477	-14.8	39,097	-19.9	6,490	-7.7	45,587	-18.4	
February	105,391	1.4	43,530	-4.3	7,223	21.8	50,753	-1.2	
March	148,922	-0.9	60,318	-2.1	9,219	22.5	69,537	0.5	
April	152,967	-8.7	56,539	-11.4	9,635	13.8	66,174	-8.4	
May	185,419	-0.5	71,005	0.2	10,907	21.4	81,912	2.6	
June	149,816	-11.0	60,493	-12.3	9,237	3.7	69,730	-10.5	
July	148,957	5.6	60,228	12.7	10,341	19.2	70,569	13.6	
August	145,108	-3.8	57,732	0.5	9,363	5.3	67,095	1.1	
September	141,988	-1.6	59,257	4.2	9,445	13.6	68,702	5.4	
October	124,427	-9.8	49,342	-7.7	9,859	5.1	59,201	-5.8	
November	115,126	-9.5	46,522	-13.8	8,048	-9.9	54,570	-13.2	
December	112,870	-21.2	50,073	-21.9	7,090	-18.5	57,163	-21.5	
Year	1,626,468	-6.2	654,136	-6.4	106,857	7.1	760,993	-4.7	
2004									
January	85,238	-10.7	36,140	-7.6	5,956	-8.2	42,096	-7.7	
February	94,778	-10.1	42,614	-2.1	6,135	-15.1	48,749	-3.9	
March	149,624	0.5	65,555	8.7	8,519	-7.6	74,074	6.5	
April	160,195	4.7	64,616	14.3	8,938	-7.2	73,554	11.2	
May	166,136	-10.4	64,043	-9.8	8,765	-19.6	72,808	-11.1	
June	154,134	2.9	65,041	7.5	8,856	-4.1	73,897	6.0	
July	136,582	-8.3	54,651	-9.3	9,361	-9.5	64,012	-9.3	
August P September October November December	136,200	-6.1	52,203	-9.6	10,054	7.4	62,257	-7.2	
Year									

<sup>1.</sup> Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses. **Note:** Percentage change are year-over-year changes.

Table 2-1 Monthly sales of new motor vehicles, by type and origin, in dollars, 2002 - 2004

Period	Total new motor vehicles Passenger cars									
			North Ame	erica	Japa	n	Other cou	ıntries	Total	
	Units	Year/year change	Units	Year/year change	Units	Year/year change	Units	Year/year change	Units	Year/year change
	\$'000	%	\$'000	%	\$'000	%	\$'000	%	\$'000	%
2002										
January	3,412,178	19.3	1,003,521	12.7	173,817	58.6	216,775	16.8	1,394,112	17.6
February	3,174,004	19.4	871,644	10.5	187,520	59.8	238,430	11.5	1,297,595	15.8
March	4,504,327	6.4	1,367,549	5.9	289.520	28.0	362.393	16.4	2.019.461	10.4
April	4,945,277	12.9	1,568,292	12.6	373,792	37.7	427,937	17.5	2,370,020	16.8
May	5,463,686	12.6	1,760,819	5.7	414,062	26.7	446,139	5.6	2,621,020	8.5
June	5,034,008	7.3	1,517,592	-1.3	325,654	21.4	423,205	14.9	2,266,450	4.2
July	4,195,497	11.9	1,260,735	5.6	291,510	19.2	392,289	19.2	1,944,534	10.0
	4,193,497	13.1	1.374.571	11.6	326.726	4.3	365,941	7.3	2,067,238	9.6
August						4.3 4.2				
September	4,362,089	17.4	1,303,544	19.1	307,681		351,096	21.1	1,962,320	16.8
October	4,239,363	14.7	1,189,282	7.9	333,272	24.9	347,121	12.3	1,869,675	11.4
November	3,969,183	0.6	1,056,203	-11.7	247,101	-1.4	315,283	0.2	1,618,587	-8.1
December	4,410,106	7.5	1,247,543	4.8	230,639	20.0	282,289	8.2	1,760,471	7.1
Year	52,227,499	11.4	15,521,295	6.5	3,501,294	21.5	4,168,898	12.4	23,191,483	9.6
2003										
January	2,941,847	-13.8	824,784	-17.8	178,744	2.8	238,493	10.0	1,242,022	-10.9
February	3,276,166	3.2	901,436	3.4	204,027	8.8	254,185	6.6	1,359,649	4.8
March	4,619,716	2.6	1,342,055	-1.9	287,456	-0.7	354,970	-2.0	1,984,481	-1.7
April	4,671,934	-5.5	1,447,359	-7.7	319,616	-14.5	423,686	-1.0	2,190,662	-7.6
May	5,551,388	1.6	1,808,156	2.7	344,754	-16.7	438,653	-1.7	2,591,563	-1.1
June	4,596,710	-8.7	1.352.584	-10.9	270,678	-16.9	394,456	-6.8	2,017,718	-11.0
July	4,570,411	8.9	1,305,259	3.5	264,556	-9.2	349,578	-10.9	1,919,393	-1.3
					301,261				1,895,623	
August	4,452,716	-1.4	1,258,881	-8.4		-7.8	335,482	-8.3		-8.3
September	4,487,201	2.9	1,209,940	-7.2	250,835	-18.5	359,903	2.5	1,820,678	-7.2
October	3,996,557	-5.7	1,076,616	-9.5	215,226	-35.4	389,239	12.1	1,681,081	-10.1
November	3,678,577	-7.3	1,092,537	3.4	180,705	-26.9	288,064	-8.6	1,561,306	-3.5
December	3,650,085	-17.2	945,611	-24.2	170,416	-26.1	305,384	8.2	1,421,411	-19.3
Year	50,493,308	-3.3	14,565,218	-6.2	2,988,274	-14.7	4,132,093	-0.9	21,685,587	-6.5
2004										
January	2,711,635	-7.8	714,925	-13.3	155,729	-12.9	183,723	-23.0	1,054,378	-15.1
February	3,005,467	-8.3	755,094	-16.2	171,197	-16.1	225,879	-11.1	1,152,171	-15.3
March	4,675,824	1.2	1,256,631	-6.4	275,102	-4.3	354,138	-0.2	1,885,871	-5.0
April	4,889,585	4.7	1,415,972	-2.2	324,034	1.4	431,751	1.9	2.171.757	-0.9
May	5,029,987	-9.4	1,606,953	-11.1	310,894	-9.8	416,381	-5.1	2,334,228	-9.9
June	4,812,540	4.7	1,350,675	-0.1	266,842	-1.4	393,117	-0.3	2,010,635	-0.4
July	4,257,660	-6.8	1,238,110	-5.1	236,014	-10.8	315,260	-9.8	1,789,384	-6.8
August P	4,244,352	-0.6 -4.7	1,236,110	-5.1 1.3	214,269	-10.8	334,268	-9.6 -0.4	1,769,364	-0.6 -3.8
September October November	4,244,332	-4.7	1,273,030	1.5	214,209	-20.9	334,200	-0.4	1,024,394	-5.0
December										
Year										

<sup>1.</sup> Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses. **Note:** Percentage change are year-over-year changes.

Table 2-2 Monthly sales of new motor vehicles, by type and origin, in dollars, 2002 - 2004

Period	Total new motor	Trucks <sup>1</sup>							
		_	North Ame	erica	Overse	as	Total		
	Units	Year/year change	Units	Year/year change	Units	Year/year change	Units	Year/year change	
	\$'000	%	\$'000	%	\$'000	%	\$'000	%	
2002									
January	3,412,178	19.3	1,779,369	16.7	238,696	60.5	2,018,065	20.6	
February	3,174,004	19.4	1,667,702	21.3	208,707	28.4	1,876,409	22.0	
March	4,504,327	6.4	2,229,610	2.1	255,256	16.9	2,484,866	3.4	
April	4,945,277	12.9	2,290,546	7.1	284,711	32.3	2,575,257	9.4	
May	5,463,686	12.6	2,538,344	16.0	304,322	21.6	2,842,666	16.6	
June	5,034,008	7.3	2,467,958	8.7	299,599	21.2	2,767,558	9.9	
July	4,195,497	11.9	1,964,517	11.7	286,446	27.8	2,250,963	13.5	
August	4,517,781	13.1	2,153,296	15.9	297,247	19.1	2,450,543	16.2	
September	4,362,089	17.4	2,118,915	17.7	280,853	18.8	2,399,768	17.8	
October	4,239,363	14.7	2,045,255	15.1	324,433	33.2	2,369,688	17.3	
November	3.969.183	0.6	2.037.884	5.8	312.712	19.8	2,359,000	7.5	
December	4,410,106	7.5	2,339,740	8.5	309,895	2.6	2,649,635	7.3 7.8	
			, ,		•		, ,		
Year	52,227,499	11.4	25,633,136	11.7	3,402,877	23.3	29,036,014	12.9	
2003									
January	2,941,847	-13.8	1,467,829	-17.5	231,997	-2.8	1,699,826	-15.8	
February	3,276,166	3.2	1,652,299	-0.9	264,219	26.6	1,916,518	2.1	
March	4,619,716	2.6	2,296,628	3.0	338,607	32.7	2,635,235	6.1	
April	4,671,934	-5.5	2,123,655	-7.3	357,617	25.6	2,481,272	-3.6	
May	5,551,388	1.6	2,557,042	0.7	402,783	32.4	2,959,825	4.1	
June	4,596,710	-8.7	2,236,697	-9.4	342,295	14.3	2,578,992	-6.8	
July	4,570,411	8.9	2,274,577	15.8	376,441	31.4	2,651,017	17.8	
August	4,452,716	-1.4	2,213,158	2.8	343,934	15.7	2,557,092	4.3	
September	4,487,201	2.9	2,306,377	8.8	360,146	28.2	2,666,523	11.1	
October	3,996,557	-5.7	1,946,666	-4.8	368,809	13.7	2,315,475	-2.3	
November	3,678,577	-7.3	1,812,877	-11.0	304,393	-2.7	2,117,271	-9.9	
December	3,650,085	-17.2	1,958,110	-16.3	270,563	-12.7	2,228,674	-15.9	
					•		, ,		
Year	50,493,308	-3.3	24,845,915	-3.1	3,961,804	16.4	28,807,720	-0.8	
2004									
January	2,711,635	-7.8	1,433,529	-2.3	223,728	-3.6	1,657,257	-2.5	
February	3,005,467	-8.3	1,615,159	-2.2	238,137	-9.9	1,853,296	-3.3	
March	4,675,824	1.2	2,469,121	7.5	320,831	-5.2	2,789,953	5.9	
April	4,889,585	4.7	2,389,389	12.5	328,439	-8.2	2,717,827	9.5	
May	5,029,987	-9.4	2,372,470	-7.2	323,288	-19.7	2,695,759	-8.9	
June	4,812,540	4.7	2,473,893	10.6	328,012	-4.2	2,801,905	8.6	
July	4,257,660	-6.8	2,132,569	-6.2	335,708	-10.8	2,468,276	-6.9	
August P September October	4,244,352	-4.7	2,058,541	-7.0	361,417	5.1	2,419,958	-5.4	
November December									
Year									

<sup>1.</sup> Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses. **Note:** Percentage change are year-over-year changes.

Table 3 Average monthly prices of passenger cars, by origin, 2002 - 2004

Period	North Ameri	ca	Japan		Other countri	es
	Amount	Change	Amount	Change	Amount	Change
	\$	%	\$	%	\$	%
2002						
January	23,996	1.5	24,300	7.2	29,707	0.5
February	23,515	0.1	24,817	11.2	29,935	-3.8
March	23,597	1.5	24,682	6.6	31,697	6.5
April	23,760	0.8	24,293	4.1	30,760	6.5 4.2
May	23,771	1.9	23,545	0.8	30,069	1.8
		1.8		4.2		5.1
June	24,115		23,973		30,508	
July	23,791	1.7	24,152	6.0	28,190	0.6
August	23,874	2.5	23,856	6.6	27,641	-2.0
September	23,795	1.3	24,544	2.9	29,736	2.1
October	23,871	2.4	24,516	0.2	29,717	0.8
November	23,879	-0.2	24,568	-2.3	31,340	0.8
December	23,969	0.5	23,910	-2.1	32,137	4.5
Year	23,831	1.3	24,214	3.3	30,035	1.8
2003						
January	24,015	0.1	23,513	-3.2	30,026	1.1
February	23,889	1.6	23,910	-3.7	30,365	1.4
March	24,024	1.8	23,826	-3.5	30,983	-2.3
April	24,232	2.0	23,961	-1.4	30,870	0.4
May	24,147	1.6	24,093	2.3	30,636	1.9
June	24,229	0.5	24,246	1.1	30,116	-1.3
July	23,915	0.5	22,927	-5.1	28,493	1.1
August	23,773	-0.4	22,656	-5.0	28,523	3.2
September	23,773	0.8	23,161	-5.6	29,935	0.7
October	24,184	1.3	23,333	-3.0 -4.8	33,894	14.1
November	24,467	2.5	23,413	-4.7	35,194	12.3
December	24,115	0.6	23,383	-2.2	33,172	3.2
Year	24,086	1.1	23,547	-2.8	30,873	2.8
2004	00.740	4.0	00.044	0.4	24.050	2.4
January	23,712	-1.3	22,014	-6.4	31,050	3.4
February	23,838	-0.2	22,502	-5.9	33,488	10.3
March	23,811	-0.9	23,174	-2.7	32,478	4.8
April	23,890	-1.4	23,134	-3.5	32,309	4.7
May	23,905	-1.0	23,104	-4.1	32,916	7.4
June	24,062	-0.7	23,002	-5.1	31,439	4.4
July	23,954	0.2	23,317	1.7	29,294	2.8
August p	23,750	-0.1	23,585	4.1	30,014	5.2
September						
October						
November						
December						
Year						

Note: Percentage changes shown are year-to-year changes.

Table 4

Monthly market share of new passenger car sales (units), by origin, Canada, 2002 - 2004

Period	Total		Passenger cars							
			North Amer	ica	Japan		Other count	ries		
	Units	Market share	Units	Market share	Units	Market share	Units	Market share		
	No.	%	No.	%	No.	%	No.	%		
2002										
January	56,270	100.0	41,820	74.3	7,153	12.7	7,297	13.0		
February	52,588	100.0	37,067	70.5	7,556	14.4	7,965	15.1		
March	81,118	100.0	57,955	71.4	11,730	14.5	11,433	14.1		
April	95,304	100.0	66,005	69.3	15,387	16.1	13,912	14.6		
May	106,497	100.0	74,074	69.6	17,586	16.5	14,837	13.9		
June	90,387	100.0	62,931	69.6	13,584	15.0	13,872	15.3		
July	78,979	100.0	52,993	67.1	12,070	15.3	13,916	17.6		
August	84,511	100.0	57,576	68.1	13,696	16.2	13,239	15.7		
September	79,125	100.0	54,782	69.2	12,536	15.8	11,807	14.9		
October	75,097	100.0	49,822	66.3	13,594	18.1	11,681	15.6		
November	64,350	100.0	44,232	68.7	10,058	15.6	10,060	15.6		
December	70,478	100.0	52,048	73.8	9,646	13.7	8,784	12.5		
Year	934,704	100.0	651,305	69.7	144,596	15.5	138,803	14.8		
2003										
January	49,890	100.0	34,345	68.8	7,602	15.2	7,943	15.9		
February	54,638	100.0	37,734	69.1	8,533	15.6	8,371	15.3		
March	79,385	100.0	55,863	70.4	12,065	15.2	11,457	14.4		
April	86,793	100.0	59,729	68.8	13,339	15.4	13,725	15.8		
May	103,507	100.0	74,880	72.3	14,309	13.8	14,318	13.8		
June	80,086	100.0	55,824	69.7	11,164	13.9	13,098	16.4		
July	78,388	100.0	54,580	69.6	11,539	14.7	12,269	15.7		
August	78,013	100.0	52,954	67.9	13,297	17.0	11,762	15.1		
September	73,286	100.0	50,433	68.8	10,830	14.8	12,023	16.4		
October	65,226	100.0	44,518	68.3	9,224	14.1	11,484	17.6		
November	60,556	100.0	44,653	73.7	7,718	12.7	8,185	13.5		
December	55,707	100.0	39,213	70.4	7,288	13.1	9,206	16.5		
Year	865,475	100.0	604,726	69.9	126,908	14.7	133,841	15.5		
2004										
January	43,142	100.0	30,151	69.9	7,074	16.4	5,917	13.7		
February	46,029	100.0	31,676	68.8	7,608	16.5	6,745	14.7		
March	75,550	100.0	52,775	69.9	11,871	15.7	10,904	14.4		
April	86,641	100.0	59,271	68.4	14,007	16.2	13,363	15.4		
May	93,328	100.0	67,222	72.0	13,456	14.4	12,650	13.6		
June	80,237	100.0	56,132	70.0	11,601	14.5	12,504	15.6		
July	72,570	100.0	51,686	71.2	10,122	13.9	10,762	14.8		
August p	73,943	100.0	53,721	72.7	9,085	12.3	11,137	15.1		
September										
October										
November December										
Year										

Table 5-1 Provincial sales of new motor vehicles, by type and origin, in units and dollars, 2002 - 2004, August

Type and origin of vehicles	Canada	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Total, new motor vehicles 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	150,865 145,108 136,200 -6.1	2,497 2,655 2,282 -14.0	444 494 430 -13.0	4,128 4,047 3,848 -4.9	3,491 3,293 3,123 -5.2	39,960 40,504 35,859 -11.5
2002 (\$'000) 2003 (\$'000) 2004 (\$'000) 2004 / 2003 %	4,517,781 4,452,716 4,244,352 -4.7	64,340 71,804 61,903 -13.8	11,630 12,977 11,033 -15.0	113,525 112,725 110,526 -2.0	98,162 94,747 92,832 -2.0	1,084,837 1,103,703 994,632 -9.9
Passenger cars, manufactured in North America 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	57,576 52,954 53,721 1.4	975 991 1,009 1.8	190 220 216 -1.8	1,756 1,745 1,778 1.9	1,418 1,348 1,379 2.3	15,437 15,760 15,426 -2.1
2002 (\$'000) 2003 (\$'000) 2004 (\$'000) 2004 / 2003 %	1,374,571 1,258,881 1,275,856 1.3	21,820 22,353 22,164 -0.8	4,179 4,954 4,738 -4.4	40,122 40,067 39,985 -0.2	32,572 30,831 31,179 1.1	345,793 356,290 351,516 -1.3
Passenger cars, manufactured in Japan 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	13,696 13,297 9,085 -31.7	x x x x	x x x x	304 285 179 -37.2	x x x x	5,765 5,950 3,941 -33.8
2002 (\$'000) 2003 (\$'000) 2004 (\$'000) 2004 / 2003 %	326,726 301,261 214,269 -28.9	x x x	x x x	6,999 6,299 3,890 -38.2	x x x x	120,348 120,279 82,007 -31.8
Passenger cars, manufactured in other countries 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	13,239 11,762 11,137 -5.3	x x x x	x x x x	346 294 336 14.3	x x x x	5,528 4,979 4,350 -12.6
2002 (\$'000) 2003 (\$'000) 2004 (\$'000) 2004 / 2003 %	365,941 335,482 334,268 -0.4	x x x x	x x x	7,458 6,796 7,810 14.9	x x x x	133,176 120,834 109,736 -9.2
Trucks², manufactured in North America 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	57,466 57,732 52,203 -9.6	x x x x	x x x	1,501 1,527 1,322 -13.4	1,425 1,392 1,214 -12.8	10,856 11,172 9,432 -15.6
2002 (\$'000) 2003 (\$'000) 2004 (\$'000) 2004 / 2003 %	2,153,296 2,213,158 2,058,541 -7.0	x x x x	x x x	52,018 52,995 51,045 -3.7	50,411 50,460 48,287 -4.3	408,498 414,101 357,071 -13.8

See footnotes at the end of the table.

Table 5-1 – continued

Provincial sales of new motor vehicles, by type and origin, in units and dollars, 2002 - 2004, August

Type and origin of vehicles	Canada	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Trucks², manufactured overseas						
2002 (No.)	8,888	Х	Х	221	195	2,374
2003 (No.)	9,363	Х	х	196	159	2,643
2004 (No.)	10,054	Х	Х	233	185	2,710
2004 / 2003 %	7.4	Х	х	18.9	16.4	2.5
2002 (\$'000)	297,247	х	х	6,927	5,832	77,022
2003 (\$'000)	343,934	Х	х	6,568	5,298	92,199
2004 (\$'000)	361,417	Х	Х	7.797	6.007	94,303
2004 / 2003 %	5.1	Х	X	18.7	13.4	2.3

<sup>1.</sup> For reasons of confidentiality, data for the Yukon, the Northwest Territories and Nunavut have been included with the data for British Columbia.

 $<sup>2. \ \ \</sup>text{Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses.}$ 

Table 5-2 Provincial sales of new motor vehicles, by type and origin, in units and dollars, 2002 - 2004, August

Type and origin of vehicles	Canada	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia¹
Total, new motor vehicles 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	150,865 145,108 136,200 -6.1	59,989 53,348 51,783 -2.9	4,666 4,209 4,149 -1.4	3,533 3,918 3,729 -4.8	16,429 16,679 15,922 -4.5	15,728 15,961 15,075 -5.6
2002 (\$'000)	4,517,781	1,850,943	145,062	111,722	549,553	488,008
2003 (\$'000)	4,452,716	1,700,000	135,598	127,425	577,581	516,156
2004 (\$'000)	4,244,352	1,689,905	139,927	122,726	535,769	485,098
2004 / 2003 %	-4.7	-0.6	3.2	-3.7	-7.2	-6.0
Passenger cars, manufactured in North Americ 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	a 57,576 52,954 53,721 1.4	23,665 20,202 20,603 2.0	1,832 1,570 1,634 4.1	1,294 1,283 1,306 1.8	5,271 4,725 4,920 4.1	5,738 5,110 5,450 6.7
2002 (\$'000)	1,374,571	587,035	44,179	31,650	130,384	136,837
2003 (\$'000)	1,258,881	497,025	38,184	31,488	117,107	120,583
2004 (\$'000)	1,275,856	510,579	38,942	31,456	117,844	127,453
2004 / 2003 %	1.3	2.7	2.0	-0.1	0.6	5.7
Passenger cars, manufactured in Japan 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	13,696 13,297 9,085 -31.7	4,513 3,957 2,606 -34.1	249 222 134 -39.6	146 166 91 -45.2	806 841 695 -17.4	1,417 1,420 1,218 -14.2
2002 (\$'000)	326,726	120,177	6,273	3,975	21,877	36,907
2003 (\$'000)	301,261	100,324	5,239	3,864	21,460	34,495
2004 (\$'000)	214,269	68,596	3,243	2,377	17,188	32,590
2004 / 2003 %	-28.9	-31.6	-38.1	-38.5	-19.9	-5.5
Passenger cars, manufactured in other countrie 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	13,239	4,636	213	167	678	1,167
	11,762	3,832	210	174	640	1,209
	11,137	3,700	164	163	773	1,223
	-5.3	-3.4	-21.9	-6.3	20.8	1.2
2002 (\$'000)	365,941	145,022	5,282	3,823	20,594	40,944
2003 (\$'000)	335,482	127,252	4,956	3,914	19,984	43,456
2004 (\$'000)	334,268	126,863	4,274	4,304	25,688	46,517
2004 / 2003 %	-0.4	-0.3	-13.8	10.0	28.5	7.0
Trucks², manufactured in North America 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	57,466 57,732 52,203 -9.6	23,596 21,830 21,008 -3.8	2,224 2,021 1,996 -1.2	1,788 2,152 1,943 -9.7	8,851 9,512 8,481 -10.8	6,169 6,850 5,829 -14.9
2002 (\$'000)	2,153,296	877,247	84,624	67,929	348,350	229,702
2003 (\$'000)	2,213,158	842,061	80,479	82,883	382,720	264,948
2004 (\$'000)	2,058,541	838,980	85,580	76,639	336,018	231,211
2004 / 2003 %	-7.0	-0.4	6.3	-7.5	-12.2	-12.7
Trucks², manufactured overseas 2002 (No.) 2003 (No.) 2004 (No.) 2004 / 2003 %	8,888 9,363 10,054 7.4	3,579 3,527 3,866 9.6	148 186 221 18.8	138 143 226 58.0	823 961 1,053 9.6	1,237 1,372 1,355 -1.2
2002 (\$'000)	297,247	121,462	4,705	4,344	28,348	43,617
2003 (\$'000)	343,934	133,338	6,741	5,277	36,309	52,674
2004 (\$'000)	361,417	144,887	7,888	7,950	39,031	47,327
2004 / 2003 %	5.1	8.7	17.0	50.7	7.5	-10.2

For reasons of confidentiality, data for the Yukon, the Northwest Territories and Nunavut have been included with the data for British Columbia.
 Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses.

Table 6-1 Year to date provincial sales of new motor vehicles, by type and origin, in units, January - August, 2002 - 2004

Province	Total new moto	r vehicles	Passenger cars							
			North A	merica	Japa	an	Other co	untries	Tota	al
	Units	Year/year change	Units	Year/year change	Units	Year/year change	Units	Year/year change	Units	Year/yea change
	No.	%	No.	%	No.	%	No.	%	No.	%
2002		· ·								
Newfoundland and										
Labrador	18.402	2.0	7.558	-2.0	x	x	х	x	10.733	-1.1
Prince Edward Island	3,449	7.2	1,543	8.2	X	X	X	X	2,019	9.7
Nova Scotia	33,419	8.6	15,440	7.4	2,341	9.9	2,424	1.2	20,205	6.9
New Brunswick	29,071	9.0	11,853	7.1	X	x	×	x	15,353	6.3
Quebec	300,437	7.7	117,444	3.9	40.326	14.1	39.022	13.8	196,792	7.7
Ontario	463,970	8.2	184,366	2.6	33,241	24.6	34,424	7.9	252,031	5.7
Manitoba	32.943	16.3	12.002	18.0	1.659	25.7	1,476	22.8	15.137	19.2
Saskatchewan	27,496	11.1	9.112	8.9	1,129	28.3	1,109	3.4	11,350	9.9
Alberta	136,891	10.8	43,584	12.2	6,041	26.9	5,035	10.9	54,660	13.6
British Columbia <sup>1</sup>	134,436	16.0	47,519	15.1	10,558	36.1	9,297	24.0	67,374	19.2
Canada	1,180,514	9.4	450,421	5.7	98,762	20.6	96,471	11.2	645,654	8.6
	1,100,514	3.4	430,421	5.7	30,702	20.0	30,471	11.2	043,034	0.0
2003										
Newfoundland and										
Labrador	18,637	1.3	7,533	-0.3	х	Х	X	Х	10,592	-1.3
Prince Edward Island	3,338	-3.2	1,497	-3.0	х	Х	X	Х	1,926	-4.6
Nova Scotia	33,285	-0.4	15,228	-1.4	2,162	-7.6	2,195	-9.4	19,585	-3.1
New Brunswick	27,222	-6.4	11,546	-2.6	x	х	X	х	14,713	-4.2
Quebec	300,569	0.0	119,933	2.1	38,814	-3.7	38,635	-1.0	197,382	0.3
Ontario	433,755	-6.5	166,748	-9.6	29,374	-11.6	31,924	-7.3	228,046	-9.5
Manitoba	31,547	-4.2	11,656	-2.9	1,420	-14.4	1,455	-1.4	14,531	-4.0
Saskatchewan	27,630	0.5	8,811	-3.3	1.076	-4.7	1.159	4.5	11.046	-2.7
Alberta	131,875	-3.7	39,359	-9.7	5,938	-1.7	4,913	-2.4	50,210	-8.1
British Columbia <sup>1</sup>	124,199	-7.6	43,598	-8.3	9,713	-8.0	9,358	0.7	62,669	-7.0
Canada	1,132,057	-4.1	425,909	-5.4	91,848	-7.0	92,943	-3.7	610,700	-5.4
2004										
Newfoundland and										
Labrador	16,280	-12.6	6,797	-9.8	x	х	x	х	8,951	-15.5
Prince Edward Island	3,240	-2.9	1,424	-4.9	x	х	x	х	1,866	-3.1
Nova Scotia	32,389	-2.7	14,406	-5.4	2,029	-6.2	2,314	5.4	18,749	-4.3
New Brunswick	24,308	-10.7	10,231	-11.4	×	х	×	х	12,996	-11.7
Quebec	288,295	-4.1	115,444	-3.7	38.681	-0.3	32,641	-15.5	186,766	-5.4
Ontario	409,434	-5.6	152,297	-8.7	24,068	-18.1	29,583	-7.3	205,948	-9.7
Manitoba	30,851	-2.2	11,149	-4.3	1,252	-11.8	1,246	-14.4	13,647	-6.1
Saskatchewan	25,888	-6.3	7,967	-9.6	815	-24.3	974	-16.0	9,756	-11.7
Alberta	128,714	-2.4	38,525	-2.1	5.601	-5.7	5.138	4.6	49,264	-1.9
British Columbia <sup>1</sup>	123,488	-0.6	44,394	1.8	10,020	3.2	9,083	-2.9	63,497	1.3
Canada	1,082,887	-4.3	402,634	-5.5	84,824	-7.6	83,982	-9.6	571,440	-6.4

<sup>1.</sup> For reasons of confidentiality, data for the Yukon, the Northwest Territories and Nunavut have been included with the data for British Columbia.

Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses.
 Note: Percentage changes shown are year-to-year changes.

Table 6-2 Year to date provincial sales of new motor vehicles, by type and origin, in units, January - August, 2002 - 2004

Province	Total new motor	vehicles			Truc	ks²		
			North An	nerica	Overs	seas	Tota	al
	Units	Year/year change	Units	Year/year change	Units	Year/year change	Units	Year/year change
	No.	%	No.	%	No.	%	No.	%
2002 Newfoundland and								
Labrador Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta	18,402 3,449 33,419 29,071 300,437 463,970 32,943 27,496 136,891	2.0 7.2 8.6 9.0 7.7 8.2 16.3 11.1	x x 11,673 12,531 86,692 186,402 16,606 15,048 76,205	x 8.3 11.0 5.3 9.7 12.2 10.2 7.5	x x 1,541 1,187 16,953 25,537 1,200 1,098 6,026	x 40.3 27.6 22.1 23.2 43.0 44.7 34.1	7,669 1,430 13,214 13,718 103,645 211,939 17,806 16,146 82,231	6.7 4.0 11.3 12.2 7.8 11.2 13.9 12.0 9.1
British Columbia <sup>1</sup> Canada	134,436 1,180,514	16.0 9.4	57,321 470,445	10.3 8.6	9,741 64,415	31.7 26.0	67,062 534,860	13.0 10.5
2003  Newfoundland and Labrador Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia¹ Canada	18,637 3,338 33,285 27,222 300,569 433,755 31,547 27,630 131,875 124,199 1,132,057	1.3 -3.2 -0.4 -6.4 0.0 -6.5 -4.2 0.5 -3.7 -7.6 -4.1	x x 12,113 11,316 83,668 176,200 15,685 15,250 74,557 51,992 448,942	x x 3.8 -9.7 -3.5 -5.5 -1.3 -2.2 -9.3 -4.6	x x 1,587 1,193 19,519 29,509 1,331 1,334 7,108 9,538 72,415	x 3.0 0.5 15.1 15.6 10.9 21.5 18.0 -2.1	8,045 1,412 13,700 12,509 103,187 205,709 17,016 16,584 81,665 61,530 521,357	4.9 -1.3 3.7 -8.8 -0.4 -2.9 -4.4 2.7 -0.7 -8.2 -2.5
2004 Newfoundland and Labrador Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia¹ Canada	16,280 3,240 32,389 24,308 288,295 409,434 30,851 25,888 128,714 123,488 1,082,887	-12.6 -2.9 -2.7 -10.7 -4.1 -5.6 -2.2 -6.3 -2.4 -0.6 -4.3	x 11,987 10,210 84,110 176,749 15,823 14,855 72,686 50,840 444,863	x -1.0 -9.8 0.5 0.3 0.9 -2.6 -2.5 -2.2	x 1,653 1,102 17,419 26,737 1,381 1,277 6,764 9,151 66,584	x 4.2 -7.6 -10.8 -9.4 3.8 -4.3 -4.8 -4.1 -8.1	7,329 1,374 13,640 11,312 101,529 203,486 17,204 16,132 79,450 59,991 511,447	-8.9 -2.7 -0.4 -9.6 -1.6 -1.1 1.1 -2.7 -2.7 -2.5 -1.9

For reasons of confidentiality, data for the Yukon, the Northwest Territories and Nunavut have been included with the data for British Columbia.
 Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses.
 Percentage changes shown are year-to-year changes.

Table 7-1 Year to date provincial sales of new motor vehicles, by type and origin, in dollars, January - August, 2002 - 2004

Province	Total new moto	or vehicles				Passenge	er cars			
-			North Am	erica	Japa	n	Other cou	intries	Total	
	Sales	Year/year change	Sales	Year/year change	Sales	Year/year change	Sales	Year/year change	Sales	Year/year change
_	'000\$	%	'000\$	%	'000\$	%	'000\$	%	'000\$	%
2002										
Newfoundland and Labrador	475,309	4.7	169.716	-0.4	х	x	х	х	231,139	0.3
Prince Edward Island	90,058	8.4	34,790	11.6	X	x	X	X	44,613	13.8
Nova Scotia	894,941	11.4	350,481	9.0	51,635	15.3	55,143	2.3	457,260	8.8
New Brunswick	824.811	11.9	275,794	9.1	X .,000	. v. v	X	c	349,419	9.1
Quebec	8.138.879	11.3	2,622,650	5.2	862.514	21.8	986.035	14.3	4.471.199	10.0
Ontario	14,179,284	11.7	4,540,401	4.2	888,834	29.3	1,179,519	11.4	6,608,753	8.2
Manitoba	1,049,198	17.1	292.287	20.9	42,371	32.1	40.163	20.4	374.818	22.0
Saskatchewan	876.579	12.0	222.995	11.4	29.859	30.5	27.074	5.9	279.929	12.6
Alberta	4.506.833	10.7	1.086.134	14.1	162.875	30.2	171.306	17.4	1.420.315	16.1
British Columbia <sup>1</sup>	4,210,866	17.5	1,129,473	16.4	272.084	38.5	341.428	21.6	1,742,982	20.4
Canada	35.246.758	12.2	10,724,723	7.3	2,382,601	26.9	2,873,109	13.3	15.980.430	10.9
	33,240,736	12.2	10,724,723	7.3	2,362,601	20.9	2,673,109	13.3	15,960,430	10.9
2003										
Newfoundland and Labrador	495,784	4.3	170,491	0.5	х	х	Х	х	231,348	0.1
Prince Edward Island	88,516	-1.7	33,760	-3.0	X	X	Х	X	42,177	-5.5
Nova Scotia	933,261	4.3	352,957	0.7	48,784	-5.5	51,208	-7.1	452,952	-0.9
New Brunswick	773,662	-6.2	271,800	-1.4	X	X	X	Х	339,898	-2.7
Quebec	8,294,950	1.9	2,743,022	4.6	818,231	-5.1	981,291	-0.5	4,542,545	1.6
Ontario	13,654,335	-3.7	4,133,958	-9.0	770,173	-13.4	1,109,934	-5.9	6,014,066	-9.0
Manitoba	1,033,369	-1.5	284,079	-2.8	35,313	-16.7	38,639	-3.8	358,028	-4.5
Saskatchewan	903,235	3.0	216,803	-2.8	27,760	-7.0	28,030	3.5	272,594	-2.6
Alberta	4,505,714	0.0	994,658	-8.4	155,314	-4.6	166,098	-3.0	1,316,072	-7.3
British Columbia <sup>1</sup>	3,998,064	-5.1	1,038,984	-8.0	246,355	-9.5	346,091	1.4	1,631,430	-6.4
Canada	34,680,888	-1.6	10,240,514	-4.5	2,171,092	-8.9	2,789,503	-2.9	15,201,111	-4.9
2004										
Newfoundland and Labrador	439,360	-11.4	150,703	-11.6	х	х	X	X	193,975	-16.2
Prince Edward Island	84,999	-4.0	31,328	-7.2	Х	х	X	X	39,552	-6.2
Nova Scotia	917,376	-1.7	327,219	-7.3	42,462	-13.0	55,973	9.3	425,654	-6.0
New Brunswick	705,229	-8.8	231,232	-14.9	. X	x	×	х	289,150	-14.9
Quebec	8,122,986	-2.1	2,659,882	-3.0	797,724	-2.5	880,268	-10.3	4,337,872	-4.5
Ontario	13,191,009	-3.4	3,780,508	-8.5	617,300	-19.8	1,064,710	-4.1	5,462,519	-9.2
Manitoba	1,010,004	-2.3	266,705	-6.1	29,763	-15.7	36,290	-6.1	332,758	-7.1
Saskatchewan	850,114	-5.9	191,875	-11.5	20,302	-26.9	25,193	-10.1	237,371	-12.9
Alberta	4,313,964	-4.3	930,386	-6.5	142,276	-8.4	178,446	7.4	1,251,110	-4.9
British Columbia <sup>1</sup>	3,992,009	-0.2	1,044,379	0.5	257,863	4.7	350,617	1.3	1,652,860	1.3
Canada	33,627,050	-3.0	9,614,216	-6.1	1,954,081	-10.0	2,654,517	-4.8	14,222,818	-6.4
Juliada	00,027,000	-3.0	0,014,210	-0.1	1,004,001	-10.0	2,00-4,017	-4.0	1-7,222,010	-0

<sup>1.</sup> For reasons of confidentiality, data for the Yukon, the Northwest Territories and Nunavut have been included with the data for British Columbia.

<sup>2.</sup> Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses.

\*\*Note: Percentage changes shown are year-over-year changes.

Table 7-2 Year to date provincial sales of new motor vehicles, by type and origin, in dollars, January - August, 2002 - 2004

Province	Total new motor	r vehicles	Trucks <sup>2</sup>								
			North Ame	erica	Overse	as	Total				
	Sales	Year/year change	Sales	Year/year change	Sales	Year/year change	Sales	Year/year change			
	'000\$	%	'000\$	%	'000\$	%	'000\$	%			
2002											
Newfoundland and											
Labrador	475,309	4.7	X	X	X	Х	244,171	9.2			
Prince Edward Island	90,058	8.4	Х	X	X	Х	45,443	3.5			
Nova Scotia	894,941	11.4	389,650	11.9	48,031	37.1	437,680	14.2			
New Brunswick	824,811	11.9	439,566	13.0	35,825	29.3	475,390	14.1			
Quebec	8,138,879	11.3	3,124,964	11.2	542,716	23.6	3,667,679	12.8			
Ontario	14,179,284	11.7	6,687,241	13.8	883,289	23.8	7,570,531	14.9			
Manitoba	1,049,198	17.1	634,942	13.3	39,437	41.0	674,380	14.6			
Saskatchewan	876,579	12.0	561,099	10.1	35,551	45.1	596,652	11.7			
Alberta	4,506,833	10.7	2,879,913	7.0	206,604	31.8	3,086,516	8.4			
British Columbia <sup>1</sup>	4,210,866	17.5	2,117,316	12.9	350,567	33.3	2,467,883	15.4			
Canada	35,246,758	12.2	17,091,342	11.7	2,174,984	26.7	19,266,327	13.2			
2003											
Newfoundland and											
Labrador	495,784	4.3	X	X	X	Х	264,436	8.3			
Prince Edward Island	88,516	-1.7	Х	Х	Х	Х	46,338	2.0			
Nova Scotia	933,261	4.3	425,980	9.3	54,329	13.1	480,309	9.7			
New Brunswick	773,662	-6.2	395,294	-10.1	38,471	7.4	433,763	-8.8			
Quebec	8,294,950	1.9	3,075,947	-1.6	676,457	24.6	3,752,404	2.3			
Ontario	13,654,335	-3.7	6,520,835	-2.5	1,119,433	26.7	7,640,268	0.9			
Manitoba	1,033,369	-1.5	627,146	-1.2	48,197	22.2	675,341	0.1			
Saskatchewan	903,235	3.0	583,005	3.9	47,635	34.0	630,641	5.7			
Alberta	4,505,714	0.0	2,922,666	1.5	266,979	29.2	3,189,645	3.3			
British Columbia <sup>1</sup>	3,998,064	-5.1	1,999,985	-5.5	366,649	4.6	2,366,632	-4.1			
Canada	34,680,888	-1.6	16,821,885	-1.6	2,657,893	22.2	19,479,777	1.1			
2004											
Newfoundland and											
Labrador	439,360	-11.4	X	Х	Х	Х	245,383	-7.2			
Prince Edward Island	84,999	-4.0	Х	X	Х	Х	45,445	-1.9			
Nova Scotia	917,376	-1.7	435,235	2.2	56,487	4.0	491,721	2.4			
New Brunswick	705,229	-8.8	380,372	-3.8	35,708	-7.2	416,081	-4.1			
Quebec	8,122,986	-2.1	3,162,259	2.8	622,858	-7.9	3,785,114	0.9			
Ontario	13,191,009	-3.4	6,705,118	2.8	1,023,374	-8.6	7,728,492	1.2			
Manitoba	1,010,004	-2.3	628,285	0.2	48,959	1.6	677,246	0.3			
Saskatchewan	850,114	-5.9	567,693	-2.6	45,047	-5.4	612,741	-2.8			
Alberta	4,313,964	-4.3	2,807,526	-3.9	255,330	-4.4	3,062,858	-4.0			
British Columbia <sup>1</sup>	3,992,009	-0.2	2,001,302	0.1	337,849	-7.9	2,339,150	-1.2			
Canada	33,627,050	-3.0	16,944,671	0.7	2,459,560	-7.5	19,404,231	-0.4			

For reasons of confidentiality, data for the Yukon, the Northwest Territories and Nunavut have been included with the data for British Columbia.
 Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses.
 Percentage changes shown are year-over-year changes.

Table 8

Annual sales of new motor vehicles, by type and origin, in units and dollars, Canada, 1981 - 2003

Year	Total		Passenger	cars			Trucks <sup>1</sup>	
	_	Total	North America	Japan	Other countries	Total	North America	Overseas
				No.				
1981	1,190,882	904,195	646,942	207,639	49,614	286,687	250,775	35,912
1982 1983	920,902 1,081,088	713,481 843.318	489,435 625,088	178,174 176,525	45,872 41,705	207,421 237,770	166,986 192.609	40,435 45,161
1984	1,283,502	971,210	724,932	170,525	75,074	312,292	273,604	38,688
1985	1,530,410	1,137,216	794,965	199,221	143,030	393,194	344,871	48,323
1986	1,515,920	1,095,313	761,169	203,304	130,840	420.607	368.423	52,184
1987	1,533,637	1,065,093	700,930	243,288	120,875	468,544	417,189	51,355
1988	1,565,501	1,056,310	724,733	243,835	87,742	509,191	459,777	49,414
1989	1,483,875	988,134	675,340	239,548	73,246	495,741	422,398	73,343
1990	1,317,869	884,564	580,397	239,603	64,564	433,305	361,403	71,902
1991	1,287,790	873,184	573,297	237,701	62,186	414,606	347,671	66,935
1992	1,227,419	798,023	503,460	236,675	57,888	429,396	370,422	58,974
1993	1,192,934	739,049	493,759	196,310	48,980	453,885	402,112	51,773
1994 1995	1,260,056 1,166,535	748,666 670,190	573,361 553,265	129,547 71,493	45,759 45,432	511,390 496,345	475,444 469,590	35,946 26,755
1996	1,100,535	660.769	572.581	47,901	40,287	490,345 543.788	517.738	26,755
1997	1,424,380	738,550	629,488	66,297	42.765	685,830	628,214	57.616
1998	1,428,932	740.809	590.667	98,275	51,867	688.123	627,256	60.867
1999	1,542,041	806,450	625,292	103,016	78,142	735,591	672,444	63,147
2000	1,587,561	849,171	640,856	106,937	101,378	738,390	669.492	68,898
2001	1,597,964	868,633	619,810	122,998	125,825	729,331	647,987	81,344
2002	1,733,318	934,704	651,305	144,596	138,803	798,614	698,870	99,744
2003	1,626,468	865,475	604,726	126,908	133,841	760,993	654,136	106,857
				\$'000				
1981	11,918,395	8,272,529	6,033,437	1,622,711	616,381	3,645,866	3,334,406	311,460
1982	9,823,971	7,037,564	4,856,340	1,551,269	629,955	2,786,407	2,423,014	363,393
1983	12,196,326	9,041,376	6,700,490	1,688,571	652,315	3,154,950	2,728,842	426,108
1984	15,679,760	11,138,931	8,176,591	1,928,031	1,034,309	4,540,829	4,136,482	404,347
1985 1986	19,890,119 21,841,550	13,707,637 14,669,730	9,545,156 9,856,684	2,325,922 2,811,893	1,836,559 2,001,153	6,182,482 7,171,820	5,641,518	540,964 729,993
1987	24,471,752	15,748,410	10,031,338	3,567,223	2,149,849	8,723,342	6,441,827 7,930,138	729,993
1988	26,865,327	16,709,476	11,080,866	3,784,902	1,843,708	10,155,851	9,369,528	786,323
1989	26,959,378	16,541,801	11,034,684	3,887,341	1,619,774	10,417,577	9,059,482	1,358,095
1990	24,888,751	15.245.831	9.784.293	4,015,958	1,445,580	9,642,918	8,210,502	1,432,416
1991	22,855,626	14,103,545	9,038,584	3,789,001	1,275,960	8,752,081	7,503,659	1,248,422
1992	23,484,453	13,691,747	8,450,515	4,053,784	1,187,448	9,792,706	8,613,980	1,178,726
1993	24,630,368	13,278,183	8,620,651	3,560,912	1,096,620	11,352,185	10,227,081	1,125,104
1994	27,893,795	14,182,894	10,595,001	2,346,168	1,241,727	13,710,902	12,846,447	864,453
1995	28,168,806	13,882,004	11,070,368	1,492,451	1,319,184	14,286,804	13,544,980	741,824
1996 1997	31,485,777	14,510,882 16.836.615	12,062,092 13.809.161	1,118,289 1.519.604	1,330,501	16,974,894	16,115,584	859,309
1997	38,986,224 40,255,777	10,830,615	13,809,161	2,110,330	1,507,852 1,842,211	22,149,610 23,201,534	20,341,263 21,165,239	1,808,346 2,036,296
1999	45,317,914	17,054,244	14.138.902	2,110,330	2.631.853	26,300,638	24,055,653	2,036,296
2000	46,930,514	20,790,660	15,089,665	2,431,251	3,269,743	26,139,852	23,745,933	2,393,922
2001	46,886,252	21,168,628	14,575,745	2,882,386	3,710,497	25,717,623	22,958,458	2,759,162
2002	52,227,499	23,191,483	15,521,295	3,501,294	4,168,898	29,036,014	25,633,136	3,402,877

<sup>1.</sup> Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses.

Table 9 Canada, monthly sales of new motor vehicles, in units, by type and origin, seasonally adjusted , 2002 - 2004

Period	Total new m	Total new motor vehicles		Passenge	Trucks <sup>1</sup>			
			North	America	Ov	erseas	T	otal
	Units	Month/month change	Units	Month/month change	Units	Month/month change	Units	Month/month change
	No.	%	No.	%	No.	%	No.	%
2002								
January	147,881	1.0	56,865	1.4	23,025	2.7	67,991	0.2
February	144,654	-2.2	53,586	-5.8	23,456	1.9	67,612	-0.6
March	139,481	-3.6	54,547	1.8	22,813	-2.7	62,121	-8.1
April	143,028	2.5	54,465	-0.2	23,131	1.4	65,432	5.3
May	145,596	1.8	54,336	-0.2	23,995	3.7	67,265	2.8
June	142,628	-2.0	53,106	-2.3	24,039	0.2	65,483	-2.6
July	140,366	-1.6	52,664	-0.8	23,752	-1.2	63,950	-2.3
August	145,562	3.7	56,020	6.4	22,789	-4.1	66,753	4.4
September	145,348	-0.1	55,370	-1.2	23,604	3.6	66,374	-0.6
October	147,192	1.3	54,073	-2.3	24,535	3.9	68,584	3.3
November	141,460	-3.9	49,431	-8.6	23,877	-2.7	68,151	-0.6
December	150,122	6.1	56,842	15.0	24,383	2.1	68,897	1.1
2003	400.000	40.0	.= .=.	40.0	0.4.500		=====	4= 0
January	129,208	-13.9	47,653	-16.2	24,563	0.7	56,991	-17.3
February	145,689	12.8	54,791	15.0	24,561	0.0	66,337	16.4
March	139,488	-4.3	52,064	-5.0	23,289	-5.2	64,135	-3.3
April	134,081	-3.9	50,318	-3.4	21,558	-7.4	62,205	-3.0
May	143,104	6.7	54,128	7.6	21,404	-0.7	67,572	8.6
June	130,162	-9.0	49,137	-9.2	21,040	-1.7	59,985	-11.2
July	143,837	10.5	52,744	7.3	21,048	0.0	70,046	16.8
August	142,324 137.324	-1.1 -3.5	52,442 49.574	-0.6 -5.5	21,714 20.809	3.2 -4.2	68,169 66.942	-2.7 -1.8
September	137,324	-3.5 -2.2			20,809	-4.2 -2.4	66,942 64,594	-1.8 -3.5
October November	129,341		49,369 49,376	-0.4 0.0	19,631		60,334	
December	129,341	-3.7 -9.0	49,376	-12.6	20,823	-3.3 6.1	53,684	-6.6 -11.0
2004	,		,		,		,	
January	119.262	1.4	44.124	2.3	20.605	-1.0	54.533	1.6
February	129,477	8.6	46,370	5.1	20,479	-0.6	62,628	14.8
March	133.727	3.3	47,370	2.2	20,916	2.1	65,440	4.5
April	137,101	2.5	49,624	4.8	21,047	0.6	66,430	1.5
May r	132,778	-3.2	49.686	0.1	20,410	-3.0	62.682	-5.6
June r	130.129	-2.0	47.963	-3.5	19.644	-3.8	62.522	-0.3
July r	133.127	2.3	50.444	5.2	19.010	-3.2	63.673	1.8
August p	131,543	-1.2	51,270	1.6	17,835	-6.2	62,438	-1.9
September	101,010	1.2	01,210	1.0	17,000	0.2	02,100	1.0
October								
November								
December								

<sup>1.</sup> Trucks include minivans, sport-utility vehicles, light and heavy trucks, vans and buses. **Note:** Percentage changes shown are month-to-month changes.

Table 10-1

Monthly sales of new motor vehicles, in units, by province, seasonally adjusted, 2002 - 2004

Period	Canada	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
2002 January February March April May June July August September October November December	147,881	2,193	437	4,106	3,590	35,832
	144,654	2,173	423	3,882	3,440	35,313
	139,481	2,022	433	3,871	3,498	34,143
	143,028	2,073	411	3,935	3,473	34,892
	145,596	1,957	390	3,862	3,435	36,742
	142,628	1,996	389	3,513	3,341	35,315
	140,366	2,019	402	3,952	3,171	35,258
	145,562	2,155	414	4,066	3,461	36,351
	145,348	2,194	423	3,993	3,496	37,311
	147,192	2,231	424	4,043	3,355	38,609
	141,460	2,122	427	3,979	3,005	35,910
	150,122	2,654	422	4,274	3,673	37,944
2003 January February March April May June July August September October November December	129,208	1,665	327	3,530	2,885	33,282
	145,689	2,130	419	3,992	3,394	36,927
	139,488	2,038	405	3,722	3,124	36,068
	134,081	2,077	381	3,750	3,008	34,980
	143,104	2,109	429	3,950	3,338	36,897
	130,162	2,151	357	3,720	3,185	34,272
	143,837	2,243	414	4,436	3,583	36,638
	142,324	2,422	454	4,007	3,268	37,551
	137,324	2,106	397	3,630	3,110	35,793
	134,272	2,122	427	4,005	3,027	34,435
	129,341	2,101	377	3,858	2,869	33,565
	117,636	2,264	343	3,760	2,619	29,777
2004 January February March April May r June r July r August p September October November December	119,262	1,798	336	3,530	2,842	31,350
	129,477	1,812	380	3,315	2,908	33,346
	133,727	1,833	373	3,876	2,857	35,532
	137,101	1,872	460	3,838	2,925	35,666
	132,778	1,979	382	3,843	2,686	34,077
	130,129	1,819	376	4,033	2,753	33,980
	133,127	1,934	396	3,723	2,933	34,633
	131,543	1,992	384	3,769	2,990	33,164

<sup>1.</sup> For reasons of confidentiality, data for the Yukon, the Northwest Territories and Nunavut have been included with the data for British Columbia.

**Table 10-2** Monthly sales of new motor vehicles, in units, by province, seasonally adjusted, 2002 - 2004

Period	Canada	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and the Territories¹
2002						
January	147,881	59,249	4,164	3,434	17,941	16,934
February	144,654	57,899	4,304	3,477	17,236	16,508
March	139,481	57,467	3,841	3,355	16,224	14,628
April	143,028	57,918	4,101	3,473	16,849	15,903
May	145,596	58,053	4,088	3,618	16,936	16,515
June	142,628	56,886	3,940	3,339	17,310	16,599
July	140,366	53,921	4,001	3,500	16,973	17,167
August	145,562	57,876	4,449	3,438	17,101	16,251
September	145,348	57,774	4,002	3,409	16,888	15,858
October	147,192	57,413	4,098	3,430	17,000	16,589
November	141,460	55,545	4,083	3,398	16,994	15,997
December	150,122	59,667	4,238	3,714	17,353	16,183
2003						
January	129,208	49,445	3,464	3,056	16,111	15,444
February	145,689	58,354	3,980	3,585	17,109	15,800
March	139,488	55,910	3,895	3,535	16,271	14,520
April	134,081	52,876	3,871	3,139	15,644	14,353
May	143,104	56,881	4,083	3,501	16,929	14,988
June	130,162	50,338	3,974	3,205	15,598	13,361
July	143,837	54,516	4,150	3,931	17,937	15,989
August	142,324	53,245	4,008	3,880	17,163	16,326
September	137,324	53,292	3,857	3,507	15,994	15,638
October	134,272	51,669	3,775	3,492	16,135	15,186
November	129,341	48,772	3,660	3,110	15,867	15,161
December	117,636	44,475	3,345	3,203	13,692	14,158
2004						
January	119,262	45,292	3,377	2,653	14,693	13,391
February	129,477	50,453	3,803	3,432	16,318	13,711
March	133,727	50,905	3,817	3,225	16,075	15,233
April	137,101	53,268	4,184	3,343	16,213	15,332
May <sup>r</sup>	132,778	51,410	3,824	3,192	16,213	15,172
June r	130,129	49,281	3,877	3,180	15,731	15,099
July <sup>r</sup>	133,127	51,111	3,753	3,276	16,164	15,204
August p	131,543	50,468	3,815	3,433	16,283	15,243
September						
October						
November						
December						

<sup>1.</sup> For reasons of confidentiality, data for the Yukon, the Northwest Territories and Nunavut have been included with the data for British Columbia.

### **Definitions**

#### **Trucks**

Trucks include light and heavy trucks, minivans, sport utility vehicles, vans, coaches and buses, regardless of their intended use.

#### Passenger car

The term passenger car refers to all vehicles whose primary function is to carry passengers, excluding those vehicles classified as a commercial vehicle (see definition above). Passenger cars also include cars used for commercial purposes, i.e. taxis, auto rentals and other car fleets.

#### **Country of origin**

New motor vehicles fall into two categories defined on the basis of origin: those manufactured in North America and those manufactured overseas. The latter are imported in a fully assembled state from countries other than the United States or Mexico. All passenger cars and commercial vehicles assembled in Canada, Mexico and the United States and sold in Canada classified are as North American manufactured vehicles.

#### Motor vehicle sales - units

The number of new motor vehicles sold in Canada.

#### Motor vehicle sales - dollars

Net sales refers to the selling price to the consumer, i.e., manufacturer's invoice price plus estimated dealer's markup, including charges for standard and optional accessories. Sales taxes are excluded.

#### Average price of passenger cars

The average price is obtained by dividing the total dollar sales by the number of units sold. Therefore, changes in the average price reflect variations in the models sold as well as price changes. For example, an increase in the average price for passenger cars may reflect both a shift to more expensive models as well as price increases.

## **Appendix I**

#### Scope of the survey

The interest in and need for detailed statistics on the automobile industry arose years ago, when the industry began playing a prominent role in the Canadian economy. For over 50 years, Statistics Canada has been collecting and disseminating statistical information on the retail sales<sup>1</sup> of new motor vehicles. Not only are these statistics required to produce estimates of Canadian consumer spending for the national accounts and the gross domestic product, but they have also served and continue to serve as one of the most important, most often requested indicators of the health of Canada's economy.<sup>2</sup>

However, estimates of the total retail sales volume of new motor vehicles were not sufficient to meet the incessant demand for more information. There came an increasing need for data on the characteristics of the fleet of new vehicles sold at retail, either to learn more about the preferences of Canadian consumers or to assess the penetration of the Canadian market by major foreign manufacturers. Statistics on new motor vehicle sales were expanded in the early 1970s to provide separate figures for Japanese vehicle sales.

The statistics in this report cover exclusively retail sales of new motor vehicles within Canada's borders. Data are derived from a postal survey (a census - see the methodology section at the end of the report for more details).

Other statistics connected with the automobile industry (sales of new and used car dealers, auto parts and accessories stores and so on) are available on the monthly Retail Trade survey (Catalogue No. 63-005). For further information, please contact the Retail Commodity Section, Distributive Trades Division, Statistics Canada, Ottawa, K1A 0T6, (Telephone: 613-951-3549 or toll free at 1-877-421-3067).

#### Data quality and methodology

This survey is a census of all motor vehicle manufacturers and importers known to be active in Canada.

The value of sales is reported at selling price to consumer (i.e. the manufacturer's invoice price plus estimated dealer's markup, charges for standard equipment and options, less provincial sales tax and federal goods and services tax (G.S.T.) and harmonized sales tax (H.S.T.).

The response rate for this survey is generally 100%. Minimal estimation is required so there is little bias resulting from non-response introduced in these data.

All attempts have been made to minimize the non-sampling errors: the questionnaires used in the survey have been carefully designed to minimize different interpretations; detailed acceptance testing has been carried out for the different stages of editing and processing.

#### **Data confidentiality**

Statistics Canada is prohibited by law from publishing any statistics which would divulge information relating to any identifiable business without the previous consent in writing of that business. The disclosure of data likely to reveal specific information on the activity of a particular company is systematically and rigorously controlled and regulated

<sup>1.</sup> According to the 1980 Standard Industrial Classification Manual, "establishments included in retail trade are those primarily engaged in retail dealing, i.e., buying commodities for resale to the general public for personal or household consumption..."

<sup>2.</sup> The new motor vehicle sales series is one of ten statistical series making up the leading indicator developed by Statistics Canada for current economic analysis purposes.

<sup>3.</sup> See Section 17 of the Statistics Act (Chapter 5-19), entitled «Secrecy».

to prevent the publication or disclosure of any information deemed confidential. The rules regarding confidentiality are therefore applied in such a way that no data are shown for cells (or statistical units). If information is withheld for reasons of confidentiality an "X" will appear in the appropriate cell of this publication.

Another way of preserving data confidentiality without having to enter an "X" is to combine (consolidate) the information **from selected regions** (or selected cells) for the same item. The data in question can be aggregated and published in a less detailed, but still confidential, form. For example, the data for the Northwest Territories, the Yukon and Nunavut are included with the British Columbia data.

#### Seasonal adjustment

Time series contain the elements essential to the description, explanation and forecasting of the behaviour of an economic phenomenon: "They are statistical records of the evolution of economic processes through time." In using time series to observe economic activity, economists and statisticians have identified four characteristic behavioural components: the long-term movement or trend, the cycle, the seasonal (variations) and the irregular (fluctuations). These movements are caused by various economic, natural or institutional factors. The **seasonal variations** occur periodically on a more or less regular basis over the course of the year as a result of seasonal changes in weather, statutory holidays and other events which occur at fairly regular intervals and thus have a major impact on the rate of economic activity.

In the interest of accurately interpreting the fundamental evolution of an economic phenomenon and producing forecasts of superior quality, Statistics Canada uses the X-11-ARIMA seasonal adjustment method <sup>5</sup> to seasonally adjust its time series. The ARIMA part of this method minimizes the impact of seasonal variations on the series and essentially consists of adding one year of estimated data onto each end of the original series before it is seasonally adjusted per se. The estimated data are derived from forecasts and back casts using ARIMA (Autoregressive Integrated Moving Average) models of the Box-Jenkins type.

The X-11 part of the X-11-ARIMA program uses primarily the ratio-to-moving average method to smooth the modified series and obtain a preliminary estimate of the trend-cycle, to calculate the ratios of the original series (fitted) to the estimates of the trend-cycle and to estimate the seasonal factors from these ratios. The final seasonal factors are produced only after these operations have been repeated several times. These procedures, used to determine the seasonal factors necessary to calculate the final seasonally adjusted data, are, since February 1983, executed every month instead of once a year. This permits us to update each month, the reference series from which we derive the final estimations of the seasonal factors employing the most current data available.

While seasonal adjustment permits a better understanding of the underlying trend-cycle of a series, the seasonally-adjusted series still contains an irregular component. Slight month-to-month variations in the seasonally adjusted series may be simple irregular movements; to get a better idea of the underlying trend, users must examine several months of seasonally adjusted series.

To assist the user, the Months of Cyclical Dominance number, MCD, is provided. The MCD is the shortest monthly span for which a certain ratio becomes and remains less than one, that is, the ratio for which the absolute average percentage change of the trend-cycle of the seasonally adjusted series becomes greater than the absolute average per cent change of the irregular component. The MCD can be interpreted as the number of months over which a change in the seasonally adjusted series must move in a given direction before one can be reasonably certain that the trend-cycle of that series also has moved in the given direction. Clearly small MCD's are desirable and indicative of a smooth series. Applying a moving average to the seasonally adjusted data of MCD length tends to smooth irregular movements which may obscure the underlying trend-cycle. The MCD moving average provides a method of reducing all types of series to approximately the same degree of smoothness, whatever the size of the irregular component in the original series.

<sup>4. «</sup>A Note on the Seasonal adjustment of Economic Time Series,» Canadian Statistical Review, August 1974.

<sup>5.</sup> For further information see the X-11-ARIMA/88 Seasonal Adjustment Method, by Estelle Bee Dagum , Statistics Canada.

<sup>6.</sup> MCD = 8 for North American passenger cars. MCD = 3 or Overseas passenger cars. MCD = 7 for Commercial vehicles.

#### **Revision procedures**

The seasonally adjusted estimates are revised for the three months preceding the reference period. Monthly unadjusted data are revised for the previous month, when new information is made available to Statistics Canada. In addition, unadjusted new motor vehicle sales are revised each year, for the latest year, in the February issue of this publication. At that time, monthly seasonally adjusted estimates for the latest four years of data are revised.

## **Appendix II**

#### List of North American motor vehicle manufacturers

B.M.W. Canada Inc.

Blue Bird Body Co.

DaimlerChrysler Canada Inc.

Ford Motor Company of Canada Limited

Freightliner of Canada Ltd.

General Motors of Canada Limited

Honda Canada Inc.

Hyundai Auto Canada Inc.

International Truck and Engine Corporation Canada

Kenworth Div., Paccar of Canada Ltd.

Mack Canada Inc.

Mazda Canada Inc.

Mitsubishi Motor Sales of Canada, Inc.

Motor Coach Industries Limited

New Flyer Industries Ltd.

Nissan Canada Inc.

Nova Bus Corp.

Orion Bus Industries Inc.

Peterbilt Div., Paccar of Canada Ltd.

Prévost Car Inc.

Sterling Heavy Duty TrucksSubaru Canada Inc.

Subaru Canada Inc.

Suzuki Canada Inc.

Thomas Built Buses of Canada Ltd.

Toyota Canada Ltd.

Volkswagen Canada Inc.

Volvo Trucks Canada Inc.

Western Star Trucks Inc.

#### List of importers and distributers of overseas manufactured motor vehicles

#### Japan

General Motors of Canada Ltd.

Hino Diesel Trucks Canada Ltd.

Honda Canada Inc.

Mazda Canada Inc.

Mitsubishi Motor Sales of Canada, Inc.

Nissan Canada Inc.

Subaru Canada Inc.

Suzuki Canada Inc.

Toyota Canada Inc.

#### **Other Countries**

B.M.W. Canada Inc.

Daewoo Auto Canada Inc.

Ford Motor Company of Canada Limited

General Motors Canada Ltd.

Hyundai Auto Canada Inc.

Jaguar Canada Inc.

Kia Canada Inc.

Land Rover group Canada Inc.

Mercedes-Benz Canada Inc.

Porsche Cars of Canada Ltd.

Volkswagen Canada Inc.

Volvo Cars of Canada Ltd.