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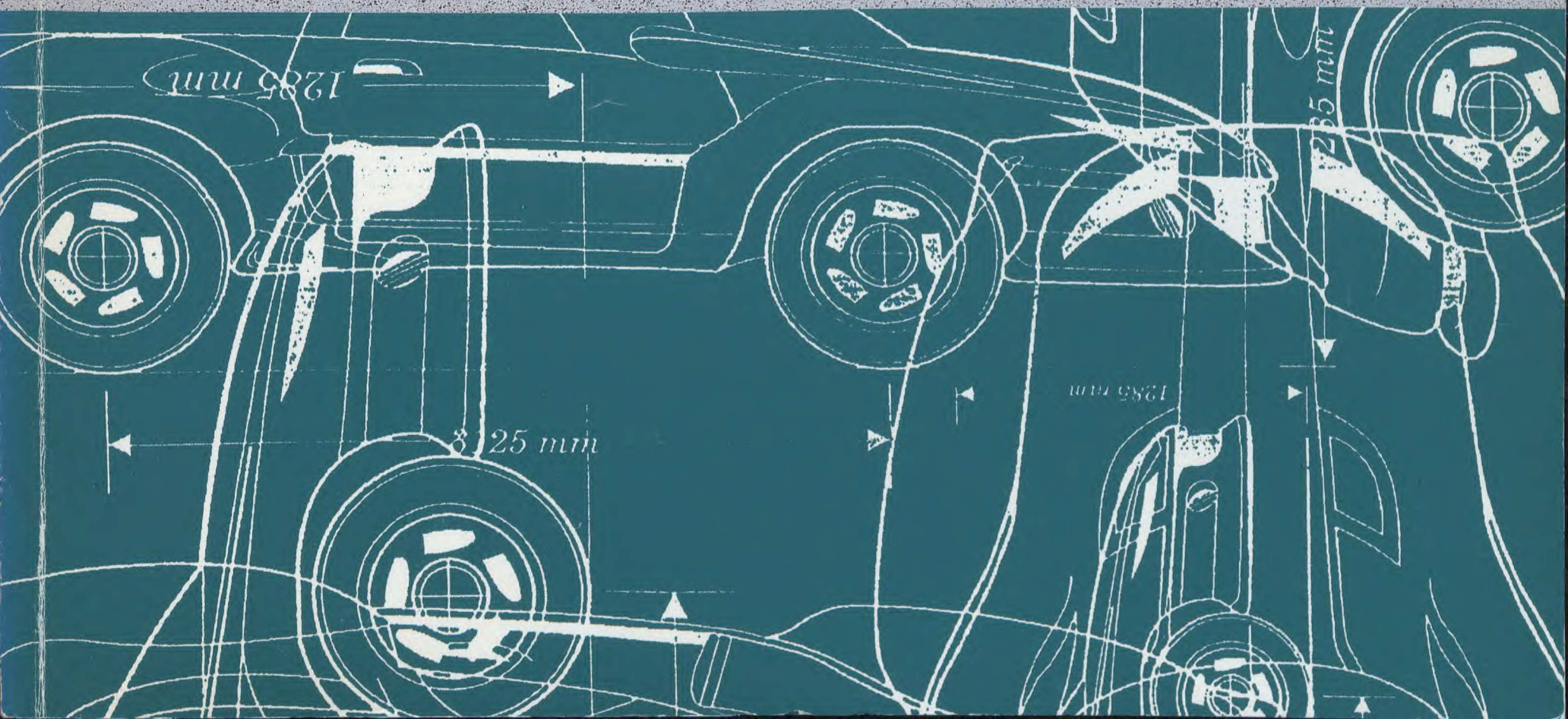
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Canada

STATISTICAL REVIEW OF THE CANADIAN AUTOMOTIVE INDUSTRY: 1989



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Canadian Automotive Developments in 1989

After nearly seven consecutive years of strong performance by the Canadian automotive industry, vehicle production and sales declined in 1989. Softening of the economies in both Canada and the U.S., accompanied by high interest rates and increasing consumer debt load, resulted in a weakening of demand for consumer durables, such as cars, in the second half of 1989. As a result, production was suspended in several Canadian plants during the fourth quarter of 1989 and the first quarter of 1990. Canadian vehicle production was down by 1.9 percent from the 1988 peak level of 1 977 000 units.

Car sales declined 6 percent to 993 000 units (the first time since 1984 that they fell below one million units). Even these levels were sustained largely through generous sales incentives such as rebates and lower interest rate financing. Big Three sales declined by 7.8 percent while sales of foreign cars were up 3.7 percent. Sales of Japanese cars were up by 5.7 percent, while sales of European models were down by 9.4 percent. The market share of all North American-built models was 67.9 percent, down from 68.6 percent in 1988.

In 1989, General Motors completed the conversion of its Autoplex in Oshawa. Plant No. 1 began production of the mid-size Chevrolet Lumina, while Plant No. 2 continued to build the coupe version of the Buick Regal and began to prepare to assemble the four-door versions of each model for introduction in early 1990.

GM also completed the construction of a new paint facility at its Ste-Thérèse, Quebec, car assembly plant in 1989, and announced a new production program for that plant involving a new generation of Firebird and

Camaro models. GM also announced that its Scarborough, Ontario, van plant will close following the 1992 model year and that it will consolidate assembly of full-size vans in Flint, Michigan.

During 1989, three of Chrysler Canada's four assembly plants continued to operate at near-capacity levels. Production of cars and trucks declined by 2 percent to 482 000 units, largely due to a softening of the market. The company announced that the Windsor assembly plant will undergo extensive retooling during the summer of 1990 to prepare for production of the redesigned 1991 Voyageur and Caravan -- the first major change to these mini-vans since they were introduced six years ago. Chrysler and Mitsubishi have also announced that they will build a joint stamping facility to supply class A stamping to the Bramalea assembly plant.

Ford's unit sales were down 7 percent from 1988, while its vehicle production declined by 10 percent. In 1989, Ford focused on upgrading plants and equipment, and on improving product quality and design. On May 16, 1990, Ford announced that it will build a new paint shop at its Oakville plant, ending several years of speculation about the future of that facility. According to Ford, the total investment may reach \$500 million. Ford also recently announced that it will invest \$50 million in a new advanced aluminum casting facility in Windsor.

All Asian-owned assembly plants in Canada increased production in 1989. Honda announced that it will increase annual production to 100 000 units from 80 000 units. Toyota plans to increase production from 50 000 units to 60 000 units annually. CAMI, which came on stream in 1989, produced 15 000 cars by the end of the year and started production of its

utility vehicle in December. CAMI expects to increase production gradually to 200 000 units annually. Hyundai assembled about 25 000 units of the Sonata model in Canada in 1989 and announced its intention to build a stamping plant at its Bromont, Quebec, facility.

The Automotive Components Initiative (ACI), launched by Industry, Science and Technology Canada in 1988, continued to be widely used by the parts industry. ACI is designed to encourage small and medium-sized Canadian automotive components companies to enhance their competitiveness by identifying and implementing productivity improvements in the plant.

An Automotive Advisory Committee, reporting to the Minister of Industry, Science and Technology, was established in early 1989 to facilitate communication and cooperation among government, industry and labour. The committee provides a forum for policy advice to the government on specific issues of common interest, such as environmental concerns, and the level of research and development in the auto sector. Sub-committees have been formed to focus on each of these issues.

The Automotive Select Panel, set up under the Canada-U.S. Free Trade Agreement (FTA) and consisting of representatives from Canada and the U.S., is currently focusing on the question of whether the North American value added (NAVA) in the rule of origin should be changed from 50 percent as currently specified in the FTA. It is also studying the competitiveness of the North American auto industry vis-à-vis other auto-producing countries.

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NOTE: Because of the variety of sources from which these statistical tables have been derived or taken, totals will not always agree.



Sales

Table 1.1

Retail Sales of Motor Vehicles in Canada, 1965-1989
 (000 Units)

Year	Automobiles			Trucks			Total Vehicles
	Domestic*	Overseas** Import	Total	Domestic*	Overseas** Import	Total	
1965	634	75	709	120	2	122	831
1970	497	143	640	125	9	134	774
1975	836	154	990	310	17	327	1 317
1979	863	140	1 003	381	12	393	1 396
1980	741	191	932	312	22	334	1 266
1981	647	257	904	251	36	287	1 191
1982	489	224	713	167	40	207	920
1983	625	218	843	193	45	238	1 081
1984	725	246	971	274	39	313	1 284
1985	795	342	1 137	345	48	393	1 530
1986	762	329	1 091	368	51	419	1 510
1987	701	364	1 065	412	51	463	1 528
1988	725	332	1 057	460	49	509	1 566
1989	674	319	993	422	68	490	1 483

* North American-Built (includes Mexico)

** Includes captives

Source: Statistics Canada Catalogue 63-007.

**Retail Sales of Motor Vehicles in the U.S., 1965-1989
(000 Units)**

Year	Automobiles			Trucks			Total Vehicles
	Domestic*	Overseas** Import	Total	Domestic*	Overseas** Import	Total	
1965	8 763	569	9 332	1 539	44	1 583	10 915
1970	7 120	1 285	8 405	1 746	65	1 811	10 216
1975	7 053	1 587	8 640	2 249	231	2 480	11 120
1979	8 328	2 300	10 628	3 000	500	3 500	14 128
1980	6 578	2 398	8 976	2 002	484	2 486	11 462
1981	6 206	2 324	8 530	1 852	448	2 300	10 830
1982	5 757	2 222	7 979	2 151	410	2 561	10 540
1983	6 795	2 386	9 181	2 588	464	3 052	12 233
1984	7 951	2 439	10 390	3 484	607	4 091	14 481
1985	8 205	2 834	11 039	3 912	766	4 678	15 717
1986	8 216	3 235	11 451	3 944	923	4 867	16 318
1987	6 871	3 197	10 068	3 915	824	4 739	14 807
1988	7 539	3 099	10 638	4 547	604	5 151	15 789
1989	7 078	2 825	9 903	4 132	506	4 638	14 541

* North American-Built (includes Mexico)

** Includes captives

Source: Motor Vehicle Manufacturers' Association (MVMA) and *Ward's Automotive Reports*.

**Canadian Car Sales* by Size by North American Companies, 1970-1989
(000 Units)**

Year	Sub-compact	Percent Total	Compact	Percent Total	Intermediate	Percent Total	Full-size	Percent Total	Luxury	Percent Total	Total Sales
1970	9	1.8	101	20.4	156	31.5	215	43.4	14	2.8	495
1975	75	10.3	186	25.7	229	31.6	223	30.8	12	1.7	725
1979	152	17.6	237	27.5	243	28.2	203	23.5	27	3.1	862
1980	140	18.9	229	30.9	206	27.8	148	20.0	18	2.4	741
1981	137	21.5	198	31.1	184	28.9	105	16.5	13	2.0	637
1982	157	32.4	125	25.8	145	29.9	51	10.5	7	1.4	485
1983	206	33.6	135	22.0	198	32.2	66	10.7	9	1.5	614
1984	235	32.9	179	25.1	207	29.0	79	11.1	14	2.0	714
1985	237	30.3	202	25.8	246	31.5	80	10.2	17	2.2	782
1986	233	30.9	187	24.8	235	31.2	82	10.9	17	2.3	754
1987	107	14.6	298	40.5	230	31.3	68	9.3	32	4.4	735
1988	73	9.7	343	45.6	216	28.7	92	12.2	28	3.7	752
1989	76	11.1	314	45.8	175	25.5	94	13.7	27	3.9	686

* Includes captives

Source: Motor Vehicle Manufacturers' Association by Ward's Classification.

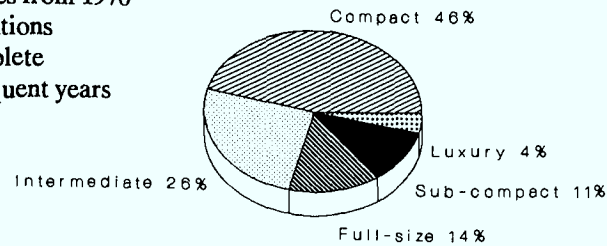
U.S. Sales of North American* Cars by Size, 1970-1989
(000 Units)

Year	Sub-compact	Percent Total	Compact	Percent Total	Intermediate	Percent Total	Full-size	Percent Total	Luxury	Percent Total	Total Sales
1970	138	1.9	1 157	16.2	2 435	34.0	3 033	42.4	389	5.4	7 152
1975	1 167	17.3	1 679	24.8	1 975	29.2	1 588	23.5	352	5.2	6 761
1979	1 762	21.4	1 936	23.5	2 335	28.4	1 709	20.8	484	5.9	8 226
1980	1 671	25.4	1 675	25.5	1 836	27.9	1 075	16.3	321	4.9	6 578
1981	1 661	26.8	1 523	24.5	1 742	28.1	952	15.3	328	5.3	6 206
1982	1 739	30.2	1 104	19.2	1 618	28.1	928	16.1	367	6.4	5 756
1983	2 035	29.9	925	13.6	2 247	33.1	1 158	17.0	431	6.3	6 796
1984	2 306	29.0	1 309	16.5	2 457	30.9	1 232	15.5	647	8.1	7 951
1985	1 297	15.8	2 563	31.2	2 464	30.0	1 077	13.1	804	9.8	8 205
1986	1 325	16.1	2 461	30.0	2 540	30.9	1 116	13.6	772	9.4	8 214
1987	1 100	15.5	2 389	33.7	2 026	28.6	925	13.1	640	9.0	7 080
1988	1 019	13.5	2 781	36.9	2 017	26.8	1 052	14.0	670	8.9	7 539
1989	926	13.1	2 606	36.8	1 916	27.1	955	13.5	674	9.5	7 077

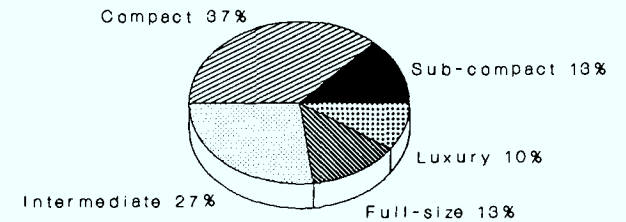
* Includes Mexico but does not include captives

1989

Source: *Ward's Automotive Reports*. Figures from 1970 through 1975 are based on registrations (figures are low because of incomplete reports from some states). Subsequent years are based on retail sales.



Canada



U.S.

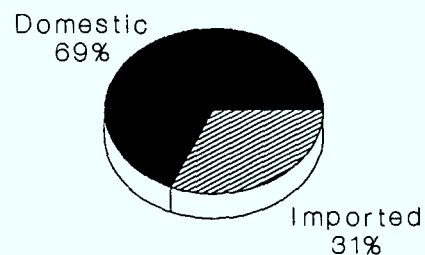
Canadian Sales of New Passenger Cars by Origin, 1965-1989
(000 Units)

Year	Total Sales Volume	Domestic*		Offshore Imports**		Imports from Japan**	
		Volume	Percent	Volume	Percent	Volume	Percent
1965	709	634	89.4	75	10.6	2	0.3
1970	640	497	77.7	143	22.3	66	10.3
1975	989	836	84.5	154	15.6	96	9.7
1979	1 003	864	86.1	139	13.9	80	8.0
1980	932	741	79.5	191	20.5	138	14.8
1981	904	647	71.6	257	28.4	208	23.0
1982	713	489	68.6	224	31.4	178	25.0
1983	843	625	74.1	218	25.9	177	21.0
1984	971	725	74.7	246	25.3	171	17.6
1985	1 137	795	69.9	342	30.1	199	17.5
1986	1 091	762	69.8	329	30.2	198	18.1
1987	1 065	701	65.8	364	34.2	243	22.8
1988	1 057	725	68.6	332	31.4	244	23.1
1989	993	674	67.9	319	32.1	246	24.7

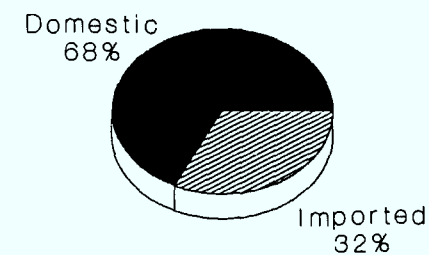
* North American-built (includes Mexico)

** Includes captives

Source: Statistics Canada Catalogue 63-007.



1988



1989

**U.S. Sales of New Passenger Cars by Origin, 1965-1989
(000 Units)**

Year	Total Sales Volume	Domestic*		Offshore Imports**		Imports from Japan**	
		Volume	Percent	Volume	Percent	Volume	Percent
1965	9 233	8 673	93.9	469	5.1	18	0.2
1970	8 365	7 116	85.1	1 249	14.9	313	3.7
1975	8 615	7 050	81.8	1 564	18.2	808	9.4
1979	10 647	8 328	78.2	2 319	21.8	1 834	17.2
1980	8 979	6 578	73.3	2 400	26.7	1 908	21.2
1981	8 533	6 206	72.7	2 328	27.3	1 859	21.8
1982	7 979	5 757	72.2	2 222	27.8	1 801	22.6
1983	9 182	6 795	74.0	2 387	26.0	1 916	20.9
1984	10 391	7 952	76.5	2 439	23.5	1 906	18.3
1985	11 039	8 205	74.3	2 834	25.7	2 218	20.1
1986	11 453	8 215	71.7	3 238	28.3	2 376	20.7
1987	10 278	6 886	67.0	3 392	33.0	2 330	22.7
1988	10 638	7 539	70.9	3 099	29.1	2 178	20.5
1989	9 903	7 078	71.5	2 825	28.5	2 048	20.7

* North American-Built (includes Mexico)

** Includes captive imports for 1980 and subsequent years

Source: *Ward's Automotive Reports*.

**Road Motor Vehicle Registrations in Canada, 1980-1988
(000 Units)**

Year	Passenger Automobiles	Trucks & Truck Tractors	Buses	Motorcycles	Mopeds	Other	Total
1980	10 256	2 903	53	389	NA	118	13 719
1981	10 199	3 138	54	407	NA	53	13 851
1982	10 530	3 239	54	431	NA	55	14 309
1983	10 732	3 308	55	466	NA	59	14 620
1984	10 781	3 047	52	470	NA	56	14 406
1985	11 118	3 095	53	453	35	64	14 818
1986	11 586	3 156	56	430	35	72	15 335
1987	11 773	3 508	59	414	34	76	15 864
1988	12 086	3 706	60	370	31	84	16 337

Source: Statistics Canada Catalogue 53-219.

International Sourcing Pattern of Original Equipment Parts of Five Major Motor Vehicle Manufacturers *
(Purchases from In-house Suppliers), 1965-1989
(\$ Millions)

Model Year	U.S Purchases from In-house Suppliers in Canada	Canadian Purchases from In-house Suppliers in U.S.	Column (A) Less Column (B)
	(A)	(B)	
1965	17	522	(505)
1970	454	1 153	(700)
1975	797	2 209	(1 412)
1979	2 362	4 703	(2 341)
1980	1 604	3 992	(2 388)
1981	2 119	4 957	(2 839)
1982	2 892	5 374	(2 483)
1983	2 360	5 918	(3 558)
1984	3 960	7 813	(3 854)
1985	4 621	8 490	(3 869)
1986	4 869	9 710	(4 841)
1987	4 579	7 251	(2 671)
1988	3 979	8 752	(4 773)
1989	4 845	8 494	(3 649)

* General Motors, Ford, Chrysler (includes AMC before 1987), CAMI (starting in 1989) and Navistar

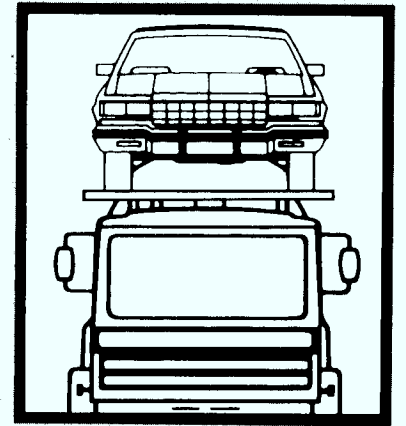
Source: Compiled from company responses to the Reisman Inquiry (1965-1977) and company Auto Pact reports (1979-1989).

International Sourcing Pattern of Original Equipment Parts of Five Major Motor Vehicle Manufacturers *
(Purchases from Independent Suppliers), 1965-1989
(\$ Millions)

Model Year	U.S Purchases from Independent Suppliers in Canada	Canadian Purchases from Independent Suppliers in U.S.	Column (A) Less Column (B)
	(A)	(B)	
1965	74	236	(162)
1970	487	505	(18)
1975	876	1 051	(175)
1979	1 812	1 560	252
1980	1 253	1 226	27
1981	1 385	1 451	(66)
1982	1 477	1 844	(367)
1983	1 922	2 067	(145)
1984	2 617	3 034	(418)
1985	3 381	3 871	(490)
1986	3 736	4 619	(883)
1987	3 819	4 385	(566)
1988	3 500	4 838	(1 338)
1989	3 486	6 226	(2 740)

* General Motors, Ford, Chrysler (includes AMC before 1987), CAMI (starting in 1989) and Navistar

Source: Compiled from company responses to the Reisman Inquiry (1965-1977) and Company Auto Pact reports (1979-1989).



Shipments

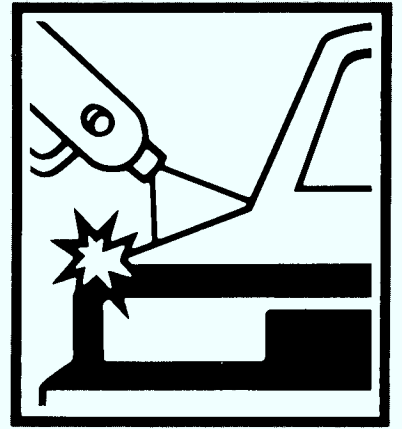
Value of Shipments in Canadian Automotive Industries, 1976-1989
 (\$ Millions)

Year	Motor Vehicle Manufacturers	Truck Body & Trailer Manufacturers	Motor Vehicle Parts & Accessories Manufacturers*	Automotive Tire and Tube Manufacturers**	Total
1976	7 276	749	3 418	NA	11 443
1977	8 610	713	4 139	NA	13 462
1978	10 070	861	5 120	NA	16 051
1979	10 724	1 042	4 897	NA	16 663
1980	10 071	978	4 034	NA	15 083
1981	11 403	1 005	4 879	NA	17 287
1982	12 344	743	5 877	NA	18 964
1983	15 591	722	8 358	1 381	26 052
1984	21 263	1 002	11 494	1 697	35 456
1985	24 599	1 148	12 923	1 653	40 323
1986	25 094	1 302	12 922	1 849	41 167
1987	22 154	1 367	12 739	1 699	37 959
1988	26 866	1 631	14 471	1 287	44 255
1989	28 059	1 687	14 718	1 295	45 759

* Includes automobile fabric and accessories manufacturers

** Information supplied by companies

Source: Statistics Canada Catalogue 31-001.



Production

Table 3.1

**North American Production of Motor Vehicles, 1965-1989
(000 Units)**

Year	Canada		U.S.		North America Total Volume
	Volume	Percent	Volume	Percent	
1965	846	7.1	11 114	92.9	11 960
1970	1 193	12.6	8 263	87.4	9 456
1975	1 442	13.9	8 965	86.1	10 407
1979	1 632	12.5	11 475	87.5	13 107
1980	1 374	14.6	8 010	85.4	9 384
1981	1 280	13.9	7 941	86.1	9 221
1982	1 236	15.0	6 985	85.0	8 221
1983	1 502	14.0	9 226	86.0	10 728
1984	1 830	14.3	10 924	85.7	12 754
1985	1 930	14.2	11 648	85.8	13 578
1986	1 859	14.1	11 317	85.9	13 176
1987	1 648	13.1	10 908	86.9	12 556
1988	1 977	15.0	11 197	85.0	13 174
1989	1 940	15.2	10 851	84.8	12 791

Source: *Ward's Automotive Reports*.

North American Production of Motor Vehicles, 1965-1989
(000 Units)

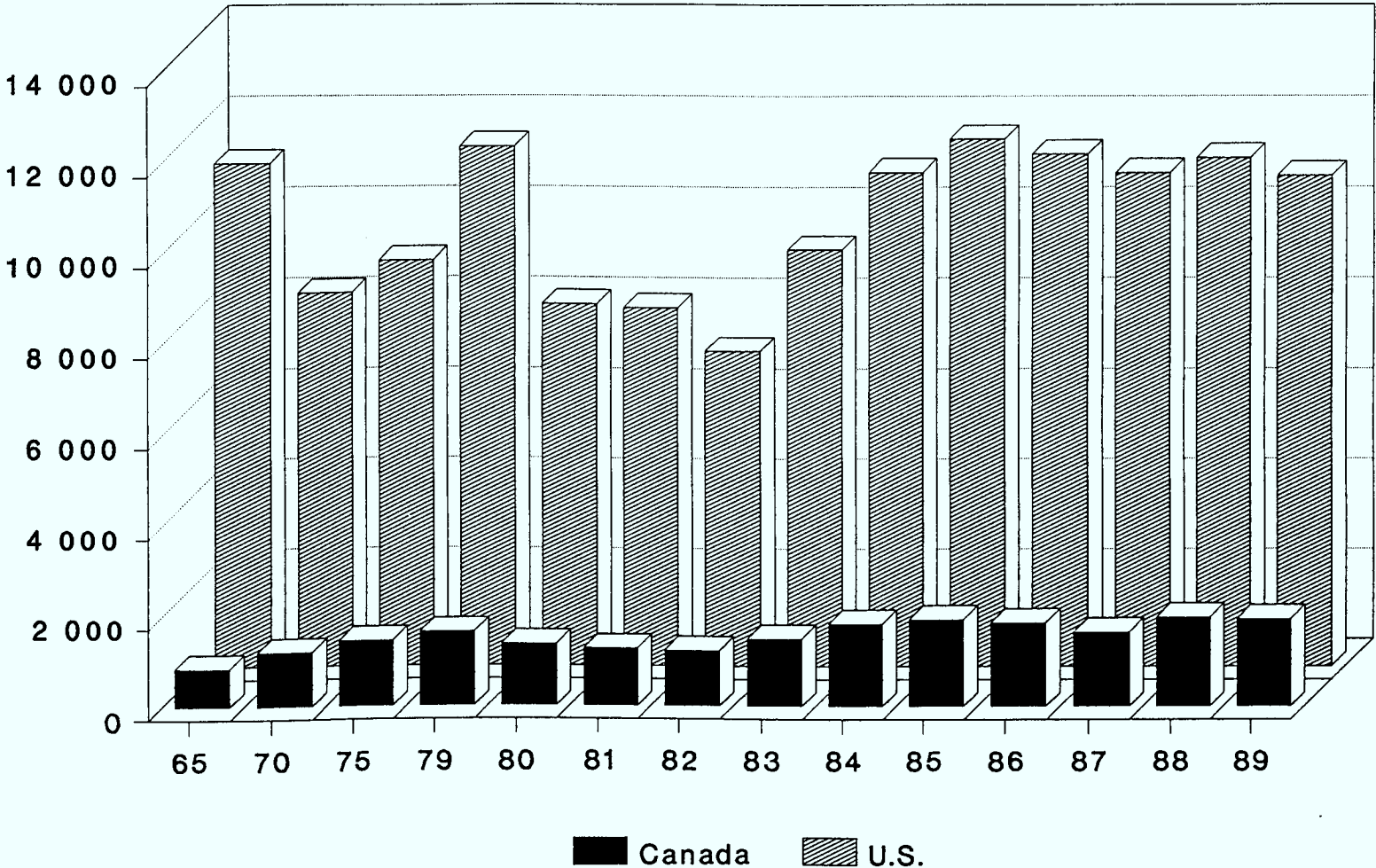


Table 3.2

**North American Production of Passenger Cars, 1965-1989
(000 Units)**

Year	Canada		U.S.		North America Total Volume
	Volume	Percent	Volume	Percent	
1965	707	7.0	9 329	93.0	10 036
1970	940	12.6	6 546	87.4	7 486
1975	1 055	13.6	6 706	86.4	7 761
1976	1 146	11.9	8 493	88.1	9 639
1977	1 162	11.2	9 211	88.8	10 373
1978	1 162	11.2	9 174	88.8	10 336
1979	997	10.6	8 422	89.4	9 419
1980	847	11.7	6 372	88.3	7 219
1981	784	11.1	6 251	88.9	7 035
1982	788	13.4	5 073	86.6	5 861
1983	955	12.3	6 782	87.7	7 737
1984	1 023	11.6	7 773	88.4	8 796
1985	1 071	11.6	8 186	88.4	9 257
1986	1 062	11.9	7 829	88.1	8 891
1987	811	10.3	7 100	89.7	7 911
1988	1 028	12.6	7 118	87.4	8 146
1989	1 002	12.8	6 823	87.2	7 825

Source: *Ward's Automotive Reports*.

**Canadian Truck* Production, 1975-1989
(000 Units)**

Year	Light	Percent of Total	Medium & Heavy-Duty	Percent of Total	Total
1975	367	94.8	20	5.2	387
1976	483	96.4	18	3.6	501
1977	576	95.7	26	4.3	602
1978	630	96.0	26	4.0	656
1979	607	95.6	28	4.4	635
1980	506	96.0	21	4.0	527
1981	480	96.6	17	3.4	497
1982	434	96.9	14	3.1	448
1983	539	98.5	8	1.5	547
1984	794	97.8	18	2.2	812
1985	834	97.4	22	2.6	856
1986	771	97.2	22	2.8	793
1987	816	97.4	22	2.6	838
1988	922	97.1	28	2.9	950
1989	914	97.4	24	2.6	938

* Includes vans

Source: *Ward's Automotive Reports*.

Table 3.4

**U.S. Truck* Production, 1965-1989
(000 Units)**

Year	Light	Percent of Total	Medium	Percent of Total	Heavy- Duty	Percent of Total	Total
1965	1 325	76.5	271	15.7	135	7.8	1 731
1970	1 359	80.3	194	11.5	140	8.3	1 693
1975	1 945	85.6	200	8.8	126	5.5	2 271
1976	2 637	88.5	199	6.7	143	4.8	2 979
1977	3 049	88.8	204	5.9	181	5.2	3 434
1978	3 263	88.0	224	6.0	219	5.9	3 706
1979	2 608	85.9	189	6.2	239	7.9	3 036
1980	1 387	83.2	100	6.0	181	10.9	1 668
1981	1 445	85.0	89	5.2	167	9.8	1 701
1982	1 721	90.3	49	2.6	136	7.1	1 906
1983	2 096	86.5	127	5.2	201	8.3	2 424
1984	2 769	90.0	68	2.2	238	7.7	3 075
1985	3 046	90.7	78	2.3	233	6.9	3 357
1986	3 128	92.2	51	1.5	213	6.3	3 392
1987	3 528	92.4	55	1.4	234	6.1	3 817
1988	3 810	92.5	62	1.5	249	6.0	4 121
1989	3 788	93.2	43	1.1	232	5.7	4 062

* Includes vans

Source: *Ward's Automotive Reports*.

Top Ten Vehicle Manufacturers in the World by Total Output, 1987

Company	Total Output (Units)
General Motors - U.S.A	7 497 063
Ford Motor - U.S.A.	5 892 267
Toyota - Japan	3 729 719
Nissan - Japan	2 658 255
Peugeot - Citroen - France	2 511 502
Volkswagen - West Germany	2 475 347
Chrysler - U.S.A.	2 187 706
Renault - France	2 053 444
Fiat - Italy	1 880 408
Vaz - U.S.S.R.	1 604 740

Source: Motor Vehicle Manufacturers' Association (MVMA) of the United States, *World Motor Vehicle Data*, 1989.

Table 3.6

**World Motor Vehicle Production by Country, 1965-1989
(000 Units)**

	1965	1970	1975	1980	1984	1985	1986	1987	1988	1989
Japan	1 876	5 289	6 941	11 043	11 393	12 271	12 260	12 249	12 700	13 026
U.S.	11 118	8 267	8 991	8 010	10 924	11 672	11 373	10 975	11 262	11 125
West Germany	2 976	3 842	3 186	3 879	4 046	4 446	4 578	4 614	4 625	4 852
France	1 642	2 750	2 861	3 378	3 062	3 016	3 195	3 493	3 698	3 920
Italy	1 176	1 854	1 459	1 612	1 601	1 573	1 913	1 913	2 111	2 221
U.S.S.R.	634	916	1 964	2 199	2 209	2 200	2 226	2 100	2 180	2 100
Spain	229	536	814	1 182	1 309	1 418	1 307	1 433	1 866	2 046
Canada	852	1 157	1 446	1 373	1 878	1 937	1 864	1 564	1 960	1 936
U.K.	2 177	2 098	1 648	1 313	1 134	1 311	1 203	1 342	1 545	1 626
South Korea	-	29	36	123	165	378	602	977	1 084	1 130
Brazil	185	416	930	1 165	836	967	1 056	900	1 069	1 103

Source: *Automotive News* (ranked by 1989 production).

Canadian Motor Vehicle Production by Industrial Product Price Indexes, 1981-1989

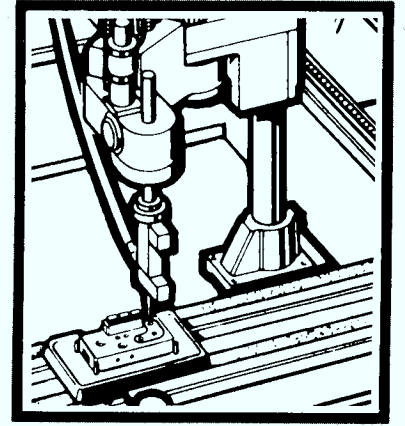
Year	Number of Units Produced (000)	Value of SIC 3231 Production (\$ millions)	Unit Value (\$)	Index * (1981 = 100)	Motor Vehicle Industry (IPPI)** (1981 = 100)
1981	1 323	11 418	8 630	100.0	100.0
1982	1 276	12 346	9 676	112.1	107.2
1983	1 524	15 738	10 320	119.6	112.1
1984	1 829	20 700	11 318	131.2	119.5
1985	1 933	23 848	12 334	142.9	129.6
1986	1 854	24 174	3 039	151.1	139.2
1987	1 635	22 421	13 713	158.9	135.8
1988	1 949	26 891***	13 699	158.7	130.7
1989	1 910	27 862***	14 587	169.0	130.2

* Unit value as a % of total number of units produced divided by value of production

** Industrial Product Price Indexes for SIC 3231 based on the actual prices of a select group of vehicles

*** Preliminary -- based on Catalogue 31-001

Source: Statistics Canada .



Investment

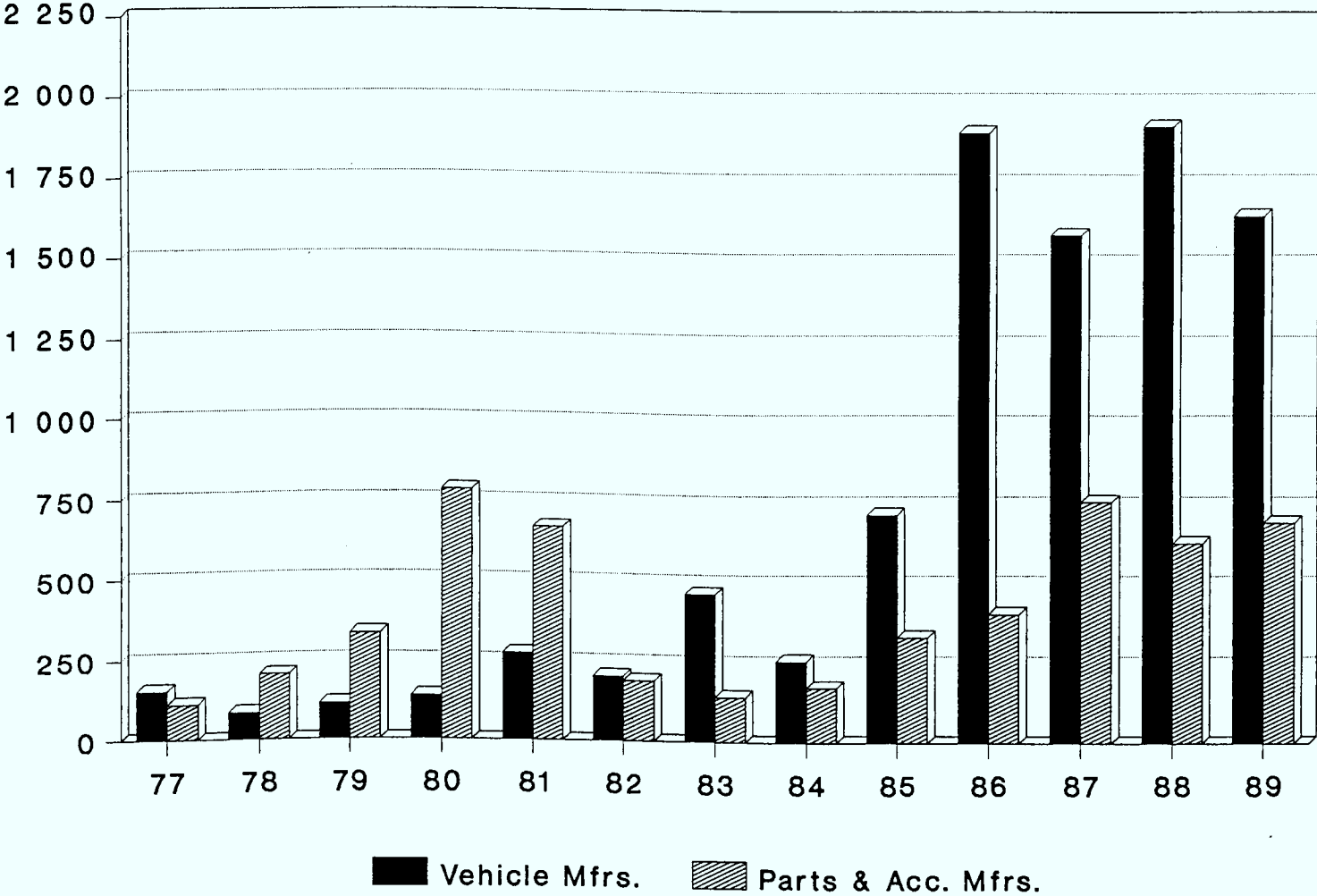
New Capital Expenditures In Canadian Automotive Industries, 1977-1989
 (\$ Millions)

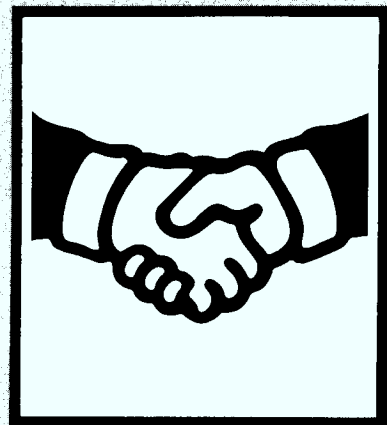
Year	Motor Vehicle Manufacturers (SIC 323)	Truck Body Manufacturers (SIC 324)	Motor Vehicle Parts & Accessories (SIC 325)	Total
1977	153	24	110	287
1978	84	15	204	303
1979	111	42	331	484
1980	136	47	781	964
1981	273	32	667	972
1982	203	34	189	426
1983	463	13	141	617
1984	256	13	171	440
1985	714	9	332	1 055
1986	1 897	19	403	2 319
1987	1 584	27	755	2 366
1988	1 917	20	624	2 561
1989*	1 645	22	690	2 357

* Preliminary

Source: Statistics Canada Catalogue 61-214.

New Capital Expenditures In Canadian Automotive Industries, 1977-1989
(\$ Millions)





**Trade and Auto
Pact Data**

Canadian-Overseas Trade in Automotive Products*, 1965-1989
 (\$ Millions)

	1965	1970	1975	1980	1984	1985	1986	1987	1988	1989
Canadian Exports										
Motor Vehicles	92	141	421	634	346	216	222	187	303	259
Parts	32	99	180	420	280	307	418	382	346	369
Tires and Tubes	4	3	5	31	24	45	42	32	33	29
Re-exports	5	9	10	89	174	134	197	195	238	261
Total	133	252	616	1 174	824	702	879	796	920	918
Canadian Imports										
Motor Vehicles	115	240	410	1 159	2 176	3 107	3 954	4 080	3 936	3 900
Parts	21	130	206	355	1 328	1 459	1 761	1 831	1 630	2 449
Tires and Tubes	2	19	82	208	207	207	220	261	243	248
Total	138	389	698	1 722	3 711	4 773	5 935	6 172	5 809	6 597
Balances										
Motor Vehicles	(23)	(99)	11	(525)	(1 830)	(2 891)	(3 732)	(3 893)	(3 633)	(3 641)
Parts	11	(31)	(26)	65	(1 048)	(1 152)	(1 343)	(1 449)	(1 284)	(2 080)
Tires and Tubes	2	(16)	(77)	(177)	(183)	(162)	(178)	(229)	(210)	(219)
Re-exports	5	9	10	89	174	134	197	195	238	261
Total	(5)	(137)	(82)	(548)	(2 887)	(4 071)	(5 056)	(5 376)	(4 889)	(5 679)

* CKDs are included sometimes in the parts category and sometimes in the vehicle category.

Source: Statistics Canada Catalogues 65-001P and 11-001E.

Canada-U.S. Trade in Automotive Products, 1965-1989
 (\$ Millions)

	1965	1970	1975	1980	1984	1985	1986	1987	1988	1989
U.S. Imports From Canada*										
Cars	74	1 538	2 858	4 452	13 085	15 277	16 428	13 505	16 326	14 997
Trucks	21	589	932	2 218	5 880	6 422	5 804	6 838	7 363	8 063
Parts	151	1 127	2 045	3 405	10 287	11 512	11 577	11 579	11 752	11 666
Tires and Tubes	4	15	68	231	598	592	675	661	520	665
Total	250	3 269	5 903	10 306	29 850	33 803	34 484	32 583	35 961	35 391
Canadian Imports From the U.S.										
Cars	94	659	2 183	3 388	6 085	8 566	8 628	8 691	8 605	8 176
Trucks	60	275	942	1 217	2 039	2 570	2 824	3 282	3 076	2 824
Parts	797	2 107	4 425	7 600	15 446	17 438	17 635	16 397	19 956	18 020
Tires and Tubes	10	24	174	146	345	264	227	310	351	444
Total	961	3 065	7 724	12 351	23 915	28 838	29 314	28 680	31 993	29 464
Balances										
Cars	(20)	879	675	1 064	7 000	6 711	7 800	4 814	7 718	6 821
Trucks	(39)	314	(10)	1 001	3 841	3 852	2 980	3 556	4 285	5 239
Parts	(646)	(980)	(2 380)	(4 195)	(5 159)	(5 926)	(6 058)	(4 818)	(8 204)	(6 354)
Tires and Tubes	(6)	(9)	(106)	85	253	328	448	351	169	221
Total	(711)	204	(1 821)	(2 045)	5 935	4 965	5 170	3 903	3 968	5 927

*A more accurate measurement of trade in automotive products is obtained by comparing the import statistics of each country. Accordingly, Canadian exports are derived from the corresponding U.S. import statistics.

Source: Statistics Canada Catalogues 65-001P and 11-001E.

Overall Net Production to Net Sales-Value Ratios* Achieved by Auto Pact Companies
in Canada, 1975-1989 (Percent)**

	Model Year										
	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Passenger Vehicles											
(Required Ratio: range 95-100)											
Net Sales-Value Ratio Achieved											
(All Companies)											
	122	106	123	202	196	173	174	177	162	153	138
Commercial Vehicles											
(Required Ratio: range 75-100)											
Net Sales-Value Ratio Achieved											
(All Companies)											
	101	115	140	238	272	231	192	191	159	133	188
Buses											
(Required Ratio: range 85-100)											
Net Sales-Value Ratio Achieved											
(All Companies)											
	114	199	273	213	243	312	324	239	163	189	230

* Net production to net sales-value ratio is the ratio of the total value of Canadian vehicle production to the total net sales value of vehicle sales for all Auto Pact companies.

** Based on 18 major manufacturers

Source: Compiled from company Auto Pact reports to Industry, Science and Technology Canada.

CVA/COS* Achieved by Auto Pact Producers, 1975-1989**
(\$ Millions, Percent)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Cost of Vehicle Sales in Canada of Auto Pact Producers (Model Year)	4 545	8 757	8 659	6 327	6 752	10 281	13 022	15 002	15 340	15 440	15 402
Total CVA Produced (Model Year)	2 987	4 659	5 368	5 759	5 847	8 504	10 210	11 282	10 113	11 035	11 438
Difference between Cost of Sales and CVA Produced	1 558	4 020	3 235	568	905	1 777	2 812	3 720	5 227	4 405	3 964
Total achieved CVA as Percentage of Cost of Sales	66	53	62	91	87	83	78	75	66	72	74

* Canadian Value Added/ Cost of Sales

** Based on 18 major manufacturers

Source: Auto Pact company reports to Industry, Science and Technology Canada.

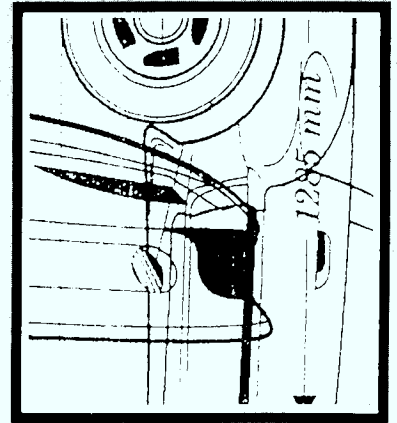
Table 5.5

Total Canadian Value Added by Category of Production for the Four Major Vehicle Manufacturers in Canada* , 1965-1989
 (\$ Millions)

Year	Non-Parts CVA in Vehicle Production	Parts CVA in Vehicle Production	CVA in Original Equipment Parts Exported	Total CVA Produced	Parts CVA as Percent of Total CVA
	A	B	C	D = A+B+C	(B+C)/D
1965	380	576	100	1 056	64.0
1970	483	510	651	1 644	70.6
1975	876	733	1 106	2 715	67.7
1980	1 322	1 087	1 755	4 164	68.3
1981	1 345	1 273	2 218	4 836	72.2
1982	1 457	1 233	2 256	4 946	70.5
1983	1 604	1 446	2 542	4 592	71.3
1984	1 981	1 797	3 917	8 695	77.2
1985	2 182	3 094	5 095	10 371	79.0
1986	2 432	2 501	5 532	10 465	76.8
1987	2 365	1 856	5 124	9 345	74.7
1988	2 877	3 114	5 044	11 035	73.9
1989	3 057	2 562	4 877	10 496	70.9

* General Motors, Ford, Chrysler (includes AMC before 1987) and CAMI (starting in 1989)

Source: 1965-1977 data prepared by the Reisman Commission; 1978-1989 data prepared by Industry, Science and Technology Canada.



Research and Development

Research and Development in the Motor Vehicle Industries, 1975-1987
(SIC 323, 324 and 325)

Year	Number of R&D Performers	Total R&D Personnel (Person-years)	Total R&D Expenditures (\$ Millions)
1975	28	545	12 000
1977	25	685	21 000
1979	24	735	32 000
1981	33	890	49 000
1982	32	825	53 000
1983	33	960	66 000
1984	25	890	70 000
1985	40	1 050	79 000
1986	57	1 255	90 000
1987	51	1 135	97 000

Source: Statistics Canada.

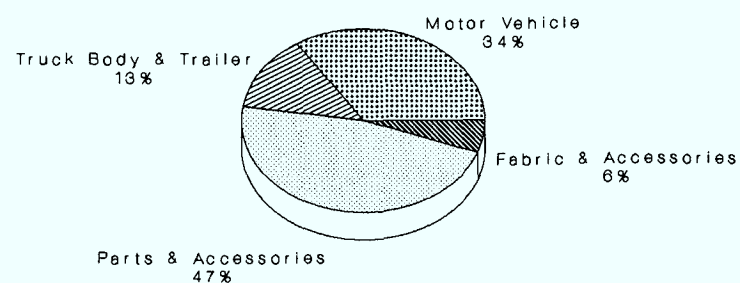


Employment

**Employment Related to Automotive Manufacturing in Canada, 1965-1989
(000)**

Year	Motor Vehicle Assembly (SIC 323)	Truck Bodies & Trailers (SIC 324)	Automotive Parts & Acc. (SIC 325)	Automobile Fabric & Acc. (SIC 188)	Total
1965	39.8	5.8	35.3	1.9	82.8
1970	37.5	8.4	36.4	3.7	86.0
1975	43.4	14.4	41.2	4.8	103.8
1980	43.9	12.9	41.0	6.3	104.1
1981	43.4	12.1	44.7	7.2	107.4
1982	42.7	8.6	41.1	6.3	98.7
1983	44.4	11.5	55.2	4.5	115.6
1984	49.5	12.5	56.9	4.9	123.8
1985	50.4	13.5	60.3	5.1	129.3
1986	49.9	14.1	63.5	5.1	132.6
1987	50.2	17.8	70.6	7.6	146.2
1988	50.6	20.6	74.0	8.4	153.6
1989	53.3	20.9	73.2	8.9	156.3

Source: Statistics Canada Catalogue 72-002. (As of January 1987, major changes to the coverage of firms in survey sampling took place, and 1986 figures and preceding years have been adjusted accordingly.)



Employment Related to Automotive Manufacturing in the U.S., 1972-1989
Annual Average (000)

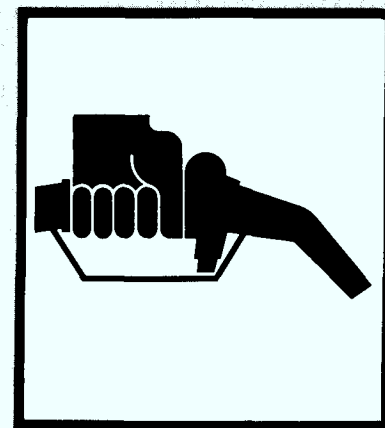
Year	Total Motor Vehicle Equipment (SIC 371)	Motor Vehicles (SIC 3711)	Truck & Bus Bodies (SIC 3713)	Parts & Accessories (SIC 3714)	Automotive Stampings (SIC 3465)
1972	875	415	46	383	105
1973	977	462	51	430	111
1974	908	416	55	403	96
1975	792	375	46	353	82
1976	881	416	44	399	100
1977	938	440	48	424	110
1978	977	452	51	444	114
1979	995	464	46	444	115
1980	789	368	40	350	95
1981	789	359	37	363	94
1982	705	321	31	325	82
1983	773	363	32	344	89
1984	867	389	40	388	99
1985	873	403	38	389	102
1986	843	381	38	379	101
1987	842	368	44	384	99
1988	850	358	75	397	96
1989	856	355	44	408	103

Source: U.S. Bureau of Labor Statistics.

Canadian Automotive Parts Industry by Number of Employees, 1986

Number of Employees	Number of Establishments	Percent of Total Establishments	Value of Shipments (\$ Million)	Percent of Total Shipments
Fewer than 100	375	68.7	989 531	7.7
100-500	145	26.5	4 250 070	32.9
500 or more	26	4.8	7 682 123	59.4
Total	546	100.0	12 921 724	100.0

Source: Statistics Canada Catalogue 42-251B.



Fuel Consumption

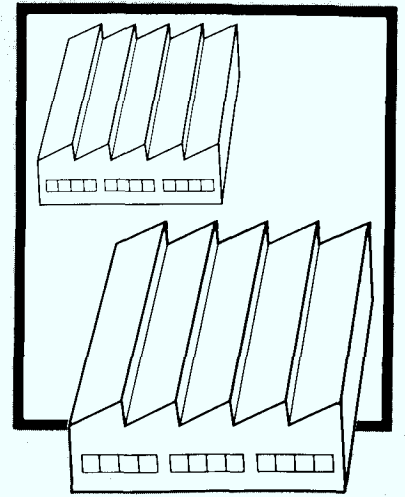
Table 8.1

Personal Use Passenger Cars Operated During the Period January to December 1988*

Model Year	Average Number of Cars Operated	Total number of Kilometres Driven (000 km)	Total Fuel Consumed (000 litres)	Fuel Consumption Ratio (litres per 100 km)
1978 and previous	1 237 400	16 533 688	2 737 345	16.6
1979	607 000	8 952 956	1 284 297	14.3
1980	630 700	9 693 099	1 314 409	13.6
1981	763 000	12 279 493	1 558 091	12.7
1982	515 900	8 269 876	1 014 871	12.3
1983	573 200	10 742 512	1 209 230	11.3
1984	983 000	17 023 029	1 917 461	11.3
1985	987 100	20 166 187	2 120 716	10.5
1986	1 036 500	20 605 899	2 117 197	10.3
1987	823 200	17 523 618	1 746 029	10.0
Total	8 156 900	141 790 360	17 019 644	12.0

* These figures are based on a sample survey and represent the mid-point of a range calculated using a coefficient of variation.

Source: Statistics Canada Catalogue 53-226.



**Major Automotive Plants
in Canada**

Major Motor Vehicle Assembly Plants In Canada

Company/Plant Name	Location	Products
Light Vehicle Manufacturers		
Canadian Automobile Mfg. Inc. (CAMI)	Ingersoll, Ontario	Firefly, Sprint, Swift, Sidekick, Tracker
Chrysler Canada Ltd.	Brampton, Ontario Bramalea, Ontario Windsor, Ontario Windsor, Ontario	Jeep XJ 4x4 Premier, Monaco Caravan, Voyager, Mini Ram van Ram van, Ram wagon
Ford Motor Company of Canada Ltd.	Oakville, Ontario Oakville, Ontario St. Thomas, Ontario	Tempo, Topaz F-series pick-up trucks Crown Victoria, Grand Marquis
Honda Canada Inc.	Alliston, Ontario	Hatchback Civic
Hyundai Auto Canada Inc.	Bromont, Quebec	Sonata
General Motors of Canada Ltd.	Oshawa, Ontario Oshawa, Ontario Oshawa, Ontario Scarborough, Ontario Ste-Thérèse, Quebec	Lumina Regal Chev/GMC light trucks Chev Van, Vandura Celebrity, Cutlass Ciera
Toyota Canada Inc	Cambridge, Ontario	Corolla
Volvo Canada Inc.	Halifax, Nova Scotia	740 series
Truck Manufacturers		
Canadian Kenworth (division of Paccar Ltd.)	Ste-Thérèse, Quebec	Heavy-duty trucks
Freightliner of Canada Ltd.	Burnaby, British Columbia	Heavy-duty trucks
Mack Canada Inc.	Oakville, Ontario	Heavy-duty trucks

Major Motor Vehicle Assembly Plants in Canada

Company/Plant Name	Location	Products
Truck Manufacturers (cont'd)		
Navistar International Corporation Canada	Chatham, Ontario	Heavy-duty trucks
Pacific Truck and Trailer Ltd.	North Vancouver, British Columbia	Heavy-duty trucks
Western Star Trucks Inc.	Kelowna, British Columbia	Heavy-duty trucks
Bus Manufacturers		
Les Autobus - MCI.	St-Eustache, Quebec	Urban transit buses
Motor Coach Industries Ltd.	Winnipeg, Manitoba	Highway buses
New Flyer Industries Ltd.	Winnipeg, Manitoba	Urban transit buses
Ontario Bus Industries Inc.	Mississauga, Ontario	Urban transit buses
Prèvoist Car Inc.	Ste-Claire, Quebec	Highway buses
Trailer Manufacturers		
Advance Engineered Products	Regina, Saskatchewan	Bulk tank trailers
Bedarco-McGruer Inc.	Montreal, Quebec	Bulk tank trailers
D&C Roussy Industries Ltd.	London, Ontario	Semi-trailers
Fruehauf Canada Inc.	Brantford, Ontario Ingersoll, Ontario	Lowbed, dry van, and bulk tank trailers

Major Motor Vehicle Assembly Plants in Canada

Company/Plant Name	Location	Products
Trailer Manufacturers (cont'd)		
Manac Inc.	Beauce Sud, Quebec	Lowbed and bulk tank trailers, semi-trailers
Westank-Willock	Regina, Saskatchewan	Bulk tank trailers
Specialty Vehicle Manufacturers		
Amertek Inc.	Woodstock, Ontario	Crash, fire and rescue vehicles
Frink/Eastern Steel Products	Cambridge, Ontario	Snowblowers, sweeper equipment
Paul Demers et Fils	Beloeil, Quebec	Ambulances
Tri-Star Industries Limited	Yarmouth, Nova Scotia	Ambulances
SMI Industries	Bathurst, New Brunswick	Crash, fire and rescue vehicles, snowblowers, fire trucks
Superior Emergency Equipment	Red Deer, Alberta	Fire trucks
Sweepright Mfg. Inc.	Regina, Saskatchewan	Sweepers
UTDC	Kingston, Ontario	Military vehicles

Source: Compiled from information supplied by the companies

A Partial List of Major Automotive Parts Plants in Canada

Company/Plant Name	Location	Main Products
In-house Facilities		
Chrysler Canada Ltd.		
Trim plant	Ajax, Ontario	Door panels, seat cushions, backs
Aluminum casting plant	Etobicoke, Ontario	Pistons, water pump bodies, transmissions, transfer cases
Trim plant	Stratford, Ontario	Soft interior trim components
Trim plant	Guelph, Ontario	Plastic automotive components
Ford Motor Company of Canada Ltd.		
Niagara glass plant	Niagara Falls, Ontario	Automotive glass
Essex engine plant	Windsor, Ontario	V6 engines
Ensite engine plant #1	Windsor, Ontario	V8 engines
Ensite engine plant #2	Windsor, Ontario	V8 engines and engine components
Foundry and casting plant	Windsor, Ontario	Iron castings
Essex aluminum plant	Windsor, Ontario	Aluminum castings
Ford Electronics Manufacturing Corp.	Markham, Ontario	Radio and electronic components

A Partial List of Major Automotive Parts Plants in Canada

Company/Plant Name	Location	Main Products
General Motors of Canada Ltd.		
Fabrication plant	Oshawa, Ontario	Stampings, batteries, radiators, instrument clusters, plastics, reaction injection moulding
Engine plant	St. Catharines, Ontario	V6 and V8 engines
Foundry	St. Catharines, Ontario	Metal castings (ferrous and non-ferrous)
Axle plant	St. Catharines, Ontario	Axles, disc brakes, spark plugs, front suspensions, transmission components
Trim plant	Windsor, Ontario	Trim sets, door covers
Transmission plant	Windsor, Ontario	Front-wheel-drive automatic transmissions
Tire and Tube Manufacturers		
Bridgestone/Firestone Canada Inc.	Joliette, Quebec	Passenger tires
General Tire Canada Ltd.	Barrie, Ontario	Passenger, truck, bus and off-highway tires
Goodyear Canada Inc.	Medicine Hat, Alberta Napanee, Ontario Valleyfield, Quebec	Passenger, truck, bus and off-highway tires
Michelin Tires (Canada) Ltd.	Bridgewater, Nova Scotia Granton, Nova Scotia Waterville, Quebec	Passenger, truck, bus and off-highway tires
Trent Rubber Services Ltd.	Lindsay, Ontario	Tubes
Uniroyal-Goodrich Canada Inc.	North-Kitchener, Ontario South-Kitchener, Ontario	Passenger, truck, bus and off-highway tires
United Tire and Rubber Company Ltd.	Rexdale, Ontario	Truck, bus, and off-highway tires

A Partial List of Major Automotive Parts Plants in Canada

Company/Plant Name	Location	Main Products
Foreign-owned Independent Manufacturers (larger facilities)		
AP Parts of Canada	Rexdale, Ontario	Mufflers, tail and exhaust pipes
Allied Signal Corp.	Chatham, Ontario London, Ontario Collingwood, Ontario Stratford, Ontario	Induction systems, engine cooling fans, electric drive cooling modules, cooling air blowers, EGR valves, electronic vacuum regulators, sensors and actuators, secondary air valves, etc.
Budd Canada Inc.	Kitchener, Ontario Winnipeg, Manitoba	Frames, engine heaters
Certified Brakes	Rexdale, Ontario	Brake disc pads, brake linings, hydraulic parts
F&P Manufacturing	Tottenham, Ontario	Structural frame stampings
Fabricated Steel Products Ltd.	Windsor, Ontario	Stampings
Hayes-Dana Inc.	Barrie, Ontario Burlington, Ontario Cambridge, Ontario Georgetown, Ontario Magog, Quebec Pickering, Ontario St. Catharines, Ontario Thorold, Ontario	Drive shafts, frames, axles
Kralinator Filters (Division of Hayes-Dana)	Cambridge, Ontario	Oil, fuel and air filters
Lear Siegler Industries Limited	Ajax, Ontario Whitby, Ontario Lindsay, Ontario Kitchener, Ontario	Automotive seating

A Partial List of Major Automotive Parts Plants in Canada

Company/Plant Name	Location	Main Products
Foreign-owned Independent Manufacturers (larger facilities)		
Motor Wheel Corporation of Canada Ltd.	Chatham, Ontario	Wheels, rims and flanges
PPG Canada Inc.	Toronto, Ontario Mississauga, Ontario Whitby, Ontario	Glass for automobiles, adhesives, coatings, paint, phosphating compounds
Rockwell International of Canada Ltd.	Lacolle, Quebec Tilbury, Ontario Mississauga, Ontario Bracebridge, Ontario Milton, Ontario Chatham, Ontario	Coil springs, brakes, mechanical stampings plastic components
Standard Tube Canada Ltd.	Woodstock, Ontario	Axle components
Standard Products Canada	Stratford, Ontario	Weather stripping, engine and body mounts
TRW Canada, Thompson Products Division	St. Catharines, Ontario	Steering components, valves, electro-mechanical devices
Varity Corp.	Windsor, Ontario St. Catharines, Ontario	Wheels, brake parts
Varta Batteries Ltd.	Lachine, Quebec St. Thomas, Ontario Winnipeg, Manitoba	Batteries
Walker Exhausts	Cambridge, Ontario	Mufflers, tail and exhaust pipes
Waterville T.G. Inc.	Waterville, Quebec	Rubber products, padded auto instrument panels

A Partial List of Major Automotive Parts Plants in Canada

Company/Plant Name	Location	Main Products
Canadian-owned Companies		
ABC Group of Companies	Rexdale, Ontario	Blow-moulded automotive components
A.G. Simpson Co. Ltd.	Cambridge, Ontario Oakville, Ontario Oshawa, Ontario Scarborough, Ontario Windsor, Ontario	Stampings
Alcan Automotive Castings	St. Catharines, Ontario Montreal, Quebec Welland, Ontario Vancouver, British Columbia	Aluminum cylinder heads, aluminum intake manifolds
Asbestonos	Montreal, Quebec	Brake and clutch products
Butler Metal Products Co. Ltd.	Cambridge, Ontario	Stampings
Canadian General Tower Ltd.	Cambridge, Ontario	Vinyl seat covers
Complex Corporation (The)	Windsor, Ontario Cobourg, Ontario	Compression and injection-moulded components
Court Industries Limited	St. Catharines	Surface treatment services, chrome and zinc-plating, bonderizing, screw machine products, transmission parts
Crila Plastic Industries Ltd.	Bolton, Ontario	Trim
Do-Ray Lamp Company (Canada)	Toronto, Ontario	Truck lighting and safety equipment
Dominion Automotive Industries	Toronto, Ontario	Protective lighting, mirrors, directional signals

A Partial List of Major Automotive Parts Plants in Canada

Company/Plant Name	Location	Main Products
Canadian-owned Companies		
Huron Steel Products	Windsor, Ontario	Stampings
Kendan Manufacturing Ltd.	Windsor, Ontario	Diesel engine components
Keystone A&A Industries	Richmond, B.C.	Wheels and wheel covers
Magna International Incorporated Atoma Division Cosma Division Decoma Division Tasma Division	Newmarket, Ontario Brampton, Ontario Concord, Ontario Concord, Ontario	Seatings, interior trim Stampings, exterior parts Plastic interior and exterior parts Steel engine components
National Auto Radiator Manufacturing Co. Ltd.	Windsor, Ontario	Stampings
Stelco Inc. (parts manufacturing only)	Gananoque, Ontario Toronto, Ontario Brantford, Ontario	Fasteners and forgings
Tamco Ltd.	Windsor, Ontario	Gear-shift levers, steering-column jackets
Tridon Ltd.	Burlington, Ontario Oakville, Ontario	Clamps, electronic flashers, wiper blades
Woodbridge Foam Corporation	Toronto, Ontario	Sets, other foam rubber components

Asian Assembly Investment in Canada and the U.S.

Company	Location	Announced Capacity (000)	Date Open	Products
Canada				
Toyota	Cambridge, Ontario	60	1988	Cars
Honda	Alliston, Ontario	100	1986	Cars
Hyundai	Bromont, Quebec	100	1989	Cars
CAMI	Ingersoll, Ontario	200	1989	Cars/Trucks (sport utility)
U.S.				
Toyota	Georgetown, Kentucky	200	1988	Cars
	Fremont, California	100	1992	Trucks (light)
NUMMI	Fremont, California	250	1984	Cars
Nissan	Smyrna, Tennessee	240	1983	Cars/Trucks (light)
	Smyrna, Tennessee	200	1992	Cars
Honda	Marysville, Ohio	360	1982	Cars
	Liberty, Ohio	150	1991	Cars
Diamond Star	Bloomington-Normal, Illinois	240	1988	Cars
Mazda	Flatrock, Michigan	240	1987	Cars
Fuji/Isuzu	Lafayette, Indiana	220	1989	Cars/Trucks (light)

Publications Available on the Automotive Industry

Industry, Science and Technology Canada

Directory of Canadian Automotive Original Equipment Manufacturers
Directory of Canadian Automotive Parts Manufacturers and Rebuilders
Directory of Canadian Automotive Parts Manufacturers and Rebuilders
(Aftermarket)
Directory of Canadian Truck Manufacturers and Truck Parts Suppliers
Directory of Canadian Vehicle Manufacturers

Product and Process Development in the Canadian Automotive
Sector - Winter 1990

Restructuring in the North American Industry - Summer 1989

Review of the Truck-Trailer Industry of Canada - Spring 1990

Tools for Competitiveness - Federal Programs and Services
of Interest to the Auto Parts Industry - Spring 1990

Others

A Comparative Study of the Cost Competitiveness of the Automotive
Parts Manufacturing Industry in North America - Booz-Allen & Hamilton
Inc. - Spring 1990

Statistics Canada

Employment, earnings and hours (monthly) - Catalogue 72-002
Fuel consumption survey, passenger cars, light trucks and vans (quarterly)
- Catalogue 53-007
Fuel consumption survey (annual) - Catalogue 53-226
Capital and repair expenditures manufacturing sub-industries
- Catalogue 61-214
Monthly survey of manufacturing - Catalogue 31-001
New motor vehicle sales (monthly) - Catalogue 63-007
Preliminary statement of international trade (monthly)
- Catalogue 65-001P
Road motor vehicles, registrations (annual) - Catalogue 53-219
Transportation Equipment Industries - Catalogues 42-251B, 3231;
3241, 42, 43, 44; 3251-3257; 3299
The Daily - Catalogue 11-001E
Transportation equipment industries (annual) - Catalogue 42-251

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