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## Canadă

Report on the Canadian Automotive Industry in 1986

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REPORT ON THE CANADIAN AUTOMOTIVE INDUSTRY IN 1986

Surface Transportation and Machinery Branch Industry, Science and Technology Canada Ottawa, Ontario

July 1988

## FOREWORD

In 1983, the Automotive Industry Task Force recommended that the government issue an annual report on the performance of the Canadian automotive industry. This recommendation was accepted and annual reports have been published since 1983. This report covers developments in the industry in 1986.

The primary objective of these annual reports is to provide a consistent base of statistics which can be used by industry, labour, government, analysts and researchers. The report also provides a brief overview of major events that influenced the industry during the year under review, and highlights key trends that may be evident from the statistical data.

The Department appreciates the assistance of all segments of the automotive industry in the preparation of this report.

## CANADIAN AUTOMOTIVE INDUSTRY DEVELOPMENTS IN 1986

The year 1986 was one of rapid change in the Canadian automotive industry, characterized by intense import competition, significant swings in currency markets and continuing innovation in production techniques. It was also the year in which two potentially profound trade negotiations were launched - the Canada-U.S. Free Trade Agreement and the eighth round of the General Agreement on Tariffs and Trade (GATT) negotiations.

After two decades of rationalization under the Auto Pact, the Canadian automotive industry is highly dependent on the North American market and is highly sensitive to North American market trends. However, with increasing internationalization and competition, the domestic industry has come under increasing pressure to adapt to the changing world environment. In this context, in order to assess the adequacy of existing policies affecting the sector, the Department of Regional Industrial Expansion commenced a review of Canadian automotive policy in consultation with all segments of the industry.

The North American market remains the largest and most mature automotive market in the world. With an established and efficient distribution system to reach a sophisticated consumer market, it is a relatively easy market to access for foreign automobile producers. As a result, efficient and competitive offshore producers have gained a substantial foothold.

Automobile sales in the North American market increased marginally in 1986 over 1985. This increased demand was largely satisfied by offshore producers whose share of the market reached 28.4 percent, the highest level to date. Automobile sales in Canada declined slightly from the record level in 1985 - a downturn in demand which equally affected domestically produced and imported automobile sales.

Demand for commercial vehicles remained strong in North America and sales exceeded those in 1985, the previous record sales year. This increase was shared equally by North American and Japanese-built vehicles.

In 1986, the Japanese limited exports of automobiles to the United States to 2.3 million units. Canada also obtained assurances from Japan that there would be no disruption of the Canadian market in 1986/87.

Of major importance in 1986 was the rebalancing of North American currencies with both Japanese and European currencies. This had a negative effect on sales by European producers. However, their market share loss and declining profitability in North America were offset by strong sales in the domestic and other world markets.

Despite the rapid appreciation of the yen, there was no indication of any appreciable impact on the viability of the Japanese industry, as firms responded quickly with offsetting cost-cutting measures and higher prices. However, the new dollar-yen relationship encouraged Japanese automobile
companies to accelerate their move toward the production of expensive and specialized models more directly competitive with the North American models assembled in Canada.

Currency rebalancing accelerated the trend towards increased Asian investment in North American-based assembly plants and parts manufacturing facilities. New production by Japanese companies is already flowing from plants in the United States and several more are in the construction or planning stage for Canada and the U.S. For example, in 1986 General Motors of Canada and Suzuki Motors of Japan announced plans to construct an assembly plant and stamping facility in Canada with a capacity of 200000 units annually to come fully onstream in 1992.

Japanese parts manufacturers are also investing in parts manufacturing in North America either by direct investment or through joint ventures. It is estimated that several hundred Japanese parts manufacturers could be in production in Canada and the United States by 1990 - a major competitive challenge for North American parts manufacturers.

The internationalization of the automotive industry continues and North American vehicle manufacturers are increasing their efforts to establish relationships with Asian producers. Each of the major vehicle companies has entered into equity investments, joint ventures, licensing arrangements and technical agreements to share production expertise and to source small and mid-size cars to help improve its competitive position in the North American market. General Motors has a strong interest in Isuzu and Suzuki as well as a joint venture in California with Toyota. General Motors also has a 50 percent interest in Daewoo Motors in South Korea. Ford owns a 25 percent share of Mazda and has an interest in KIA in South Korea. Ford also owns 70 percent of Ford Lio Ho Motor Company in Taiwan. Chrysler has an interest in Mitsubishi. In short, the internationalization of the automotive industry means that automobile imports will continue to feature prominently in the corporate strategies of the traditional North American producers.

Another significant factor influencing automotive production is the introduction of new automated and robotized production machinery. Automation has already lowered the minimum, efficient annual production scale for individual product lines. Increased use of flexible, automated equipment in the assembly of automobiles has permitted a wider range of products to be assembled on the same line. It has also permitted automobile companies to enter markets at relatively low assembly levels while offering a number of variations of the same model.

In 1986, there was a further evolution in the role of the automobile assembler towards the co-ordination of the production system. North American companies are seeking to reduce costs and capital outlays by greater outside purchasing of major components and sub-assemblies. They are working more closely with component suppliers to ensure that the problems of financing, design, quality and costs are resolved co-operatively. This suggests there will be fewer suppliers for each final assembler; special parts will be obtained from single
sources; and longer-term association with suppliers will be developed. It is likely that this supply process will be further developed in the future as vehicle assemblers endeavour to reduce costs and improve product quality.

According to some forecasts, the recovery of the North American industry over the past three years may have peaked, and current levels of production and employment may never again be exceeded. Slower growth through the remainder of the 1980s and predictions that motor vehicle markets in Canada and the United States are approaching saturation suggest that vehicle sales are unlikely to grow at more than one to two percent annually over this period. Rising competition from imports and "transplant" assembly in Canada and the U.S. in an environment of slow growth and rapid technological innovation will continue to exert pressure on North American vehicle and parts producers over the next decade.

Clearly, Canadian vehicle producers and parts manufacturers may expect to face an increasingly complex and competitive business environment in the future.

## Market Trends

Market demand for automobiles and commercial vehicles increased in Western Europe but was static in Japan. Total North American vehicle sales reached 17.8 million units, up from 17.2 million units in 1985 (Appendix Table 1.1). This increase can be attributed to sales in the United States.

In Canada, sales of North American type automobiles were down by 4.2 percent to 762000 units but maintained a market share of 69.8 percent. Sales of imported automobiles also declined in 1986 but Japanese automobile sales remained the same as in 1985 on a unit basis.

Figure 1

## PASSENGER CAR SALES IN CANADA <br> 1978-1986 <br> ('000 units)



Commercial vehicle sales in Canada in 1986 were up almost 11 percent to 436128 units. Sales of North American type trucks increased by 10.2 percent to 379598 units, while sales of Japanese light trucks increased by 16.4 percent (Figure 2).

Figure 2

## COMMERCIAL VEHICLE SALES IN CANADA <br> 1978-1986 <br> (Units)



## Production Trends

Worldwide vehicle production reached an all time high in 1986 of 45.7 million units, up from 45.2 million in 1985 , an increase of over one percent.

TABLE 1
WORLD MOTOR VEHICLE PRODUCTION TRENDS
(million)

|  | 1984 |  | 1985 |  | 1986 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Units | \% Share | Units | \% Share | Units | \% Share |
| North America <br> (U.S. and Canada) | 12.8 | 30.6 | 13.6 | 30.0 | 13.2 | 28.9 |
| Western Europe | 12.7 | 30.4 | 13.5 | 29.9 | 14.2 | 31.0 |
| Japan | 11.5 | 27.5 | 12.3 | 27.2 | 12.3 | 26.9 |
| Eastern Europe | 3.0 | 7.2 | 3.2 | 7.0 | 3.1 | 6.8 |
| Others | 1.8 | 4.3 | 2.6 | 5.9 | 2.9 | 6.4 |
| Total | 41.8 | 100.0 | 45.2 | 100.0 | 45.7 | 100.0 |

Source: Wards Automotive News

Vehicle production declined in North America to 13.2 million units, three percent below the 1985 production level. Japan's vehicle production remained constant while in Western Europe vehicle production rose to 14.2 million units, an increase of 5.1 percent.

## North American Vehicle Production

In the United States, motor vehicle production dropped by two percent in 1986. Automobile production was down 3.1 percent to 11.4 million units, although commercial vehicle production in the United States increased by 10 percent (Appendix TABLE 1.1).

Commercial vehicle production in Canada in 1986 declined by 58000 units, or 6.8 percent from the previous year. Automobile production in Canada was down by almost one percent.

TABLE 2
CANADIAN MOTOR VEHICLE PRODUCTION, 1978-1986
('000 UNITS)

| Year | Passenger Cars | \% <br> Change | Commercial Vehicles | \% <br> Change | Total | \% <br> Change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1978 | 1140 | - | 678 | - | 1818 | - |
| 1979 | 988 | (13.1) | 644 | (5.0) | 1632 | (10.2) |
| 1980 | 847 | (14.3) | 527 | (18.2) | 1374 | (15.8) |
| 1981 | 806 | (4.8) | 524 | (0.6) | 1330 | (3.2) |
| 1982 | 794 | (1.5) | 448 | (15.5) | 1242 | (6.6) |
| 1983 | 940 | 18.4 | 547 | 22.1 | 1487 | 19.8 |
| 1984 | 1023 | 8.8 | 807 | 47.5 | 1830 | 21.8 |
| 1985 | 1071 | 4.7 | 856 | 6.5 | 1930 | 5.5 |
| 1986 | 1062 | (0.8) | 798 | (6.8) | 1860 | (3.6) |
| Source: | Ward's Reports and MVMA |  |  |  |  |  |
| Notes: | (1) Minus figures in the brackets. |  |  |  |  |  |
|  | (2) Truck mini | Truck production in 1983 and 1984 included Chrysler's mini-vans. |  |  |  |  |

The downturn in vehicle production experienced by North American companies did not reflect the continuing strength of vehicle sales in Canada and the United States. Increasing automobile assembly by Japanese companies in North America and the continuing pressure of imports caused North American companies to reduce their output. The mounting presence by offshore companies in automobile assembly in North America is outlined in TABLE 3.

TABLE 3 NON-TRADITIONAL PLANTS IN NORTH AMERICA

| Company | Capacity <br> Units (cars) | Start- <br> up <br> Year |
| :--- | ---: | :--- |
|  | Ontario <br> Honda - | 1982000 |
| Nissan - Tennessee | 80000 | 1986 |
| Toyota - California | 200000 | 1983 |
| Toyota - Ontario | 250000 | 1984 |
| Mazda - Michigan | 200000 | 1988 |
| Mitsubishi - Illinois | 300000 | 1988 |
| Fuji - Indiana | 240000 | 1988 |
| GM/Suzuki - Ontario | 120000 | 1989 |
| Hyundai - Quebec | 200000 | 1988 |
| Total | 100000 | 1989 |

## Employment

Employment in the automotive sector in Canada reached a record total of 132600 workers compared to 129120 workers in 1985. Increases in employment were experienced in all segments of the industry including the parts sector which grew to 63600 workers.

Figure 3

## EMPLOYMENT IN THE CANADIAN AUTOMOTIVE INDUSTRY BY SECTOR 1978-1986 <br> (Units)



Trade in Automotive Products
Canada had an overall trade surplus in the automotive sector of $\$ 68.3$ million in 1986 compared to $\$ 1.4$ billion in 1985 and $\$ 3$ billion in 1984.

## Canada - United States Trade

Over 95 percent of automotive trade between the two countries falls under the provisions of the Auto Pact. More than 80 percent of Canadian motor vehicle assembly output is exported to the United States and approximately 70 percent of Canadian vehicle sales are met by imports from the United States.

Canadian exports of automotive products to the U.S. in 1986 increased by two percent to $\$ 34.5$ billion. This rate of increase was lower than the previous two years, reflecting a softening in demand in the United States market and increased competition from imports.

TABLE 4
CANADA-UNITED STATES TRADE IN AUTOMOTIVE PRODUCTS, 1984-1986 (RECONCIIED BASIS)


In 1986, Canada posted a $\$ 5.1$ billion trade surplus in automotive trade with the United States down \$374 million from 1985.

## Automotive Trade With Other Countries

The trade deficit in automotive products with countries other than the United States grew to a record $\$ 5.1$ billion in 1986 compared to $\$ 4.1$ billion in 1985. The increasing trade deficit is attributed to rising imports of parts to service imported vehicles, increasing sourcing of original equipment parts from lower-cost sources by North American vehicle producers, and importation of parts for the assembly of automobiles in Canada by Japanese companies. In 1986, Mexico had become the second largest supplier of automotive parts to Canada, mainly engines and engine parts imported by the North American companies for vehicle assembly.

Figure 4
CANADA - OVERSEAS TRADE IN AUTOMOTIVE PRODUCTS 1979-1986
(\$ millions)


## FINANCIAL PERFORMANCE

The financial performance of the North American automobile companies in Canada in any year reflects the strength of the market for the companies' products and such variables as product mix, new line start-up costs, plant renovations, work stoppages and security of parts and material supplies. In 1986, General Motors continued to modernize the Oshawa complex and introduced a new product program at Ste-Thérèse. Ford introduced new procedures and technology at Oakville, and Chrysler was engaged in a new product development program. Each of the companies had extensive sales incentives and low-rate financing programs designed to encourage sales and maintain market share. The costs and revenues for 1986 reflect these factors (TABLE 5).

TABLE 5
COSTS AND REVENUE TRENDS --
BIG THREE CANADIAN VEHICLE MANUFACTURERS, 1981-1986

|  | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Revenue (\$M) | 17380 | 18083 | 24232 | 31997 | 37180 | 38178 |
| Cost of Sales (\$M) | 17677 | 18341 | 23419 | 29862 | 35476 | 36928 |
| Revenue / Cost | 0.98 | 0.99 | 1.04 | 1.07 | 1.05 | 1.04 |
| Unit Sales (thousands) | 1686 | 1576 | 2036 | 2471 | 2692 | 2631 |
| Revenue/Unit | 10308 | 11474 | 11946 | 12949 | 13811 | 14511 |
| Cost Unit | 10485 | 11638 | 11502 | 12085 | 13178 | 14036 |
| Gross Profit Margin/Un | (177) | (164) | 444 | 864 | 633 | 475 |

Although revenue from sales increased by 2.7 percent over 1985, the cost of sales or operating costs increased by 4.1 percent resulting in a slight decline in the revenue-cost ratio. This was reflected in the gross profit margin per unit of sales which dropped by 24 percent in 1986.

The trend in cost-control by the North American companies in Canada continued in 1986 (TABLE 6).

TABLE 6
EMPLOYMENT PAYROLL COST AND REVENUE BIG THREE CANADIAN VEHICLE MANUFACTURERS, 1981-1986

|  | Unit Sales ('000) | Sales Revenue (\$ M) | Employment | $\begin{gathered} \text { Payroll } \\ \text { (\$ M) } \\ \hline \end{gathered}$ | Payroll/ Unit Sales (\$) | Payroll/ <br> Employee <br> (\$) | Payroll as \% of Sales |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1981 | 1686 | 17380 | 66396 | 1734 | 1028.47 | 26116 | 9.98 |
| 1982 | 1576 | 18083 | 60579 | 1720 | 1091.37 | 28393 | 9.51 |
| 1983 | 2036 | 24323 | 68938 | 2128 | 1045.19 | 30868 | 8.75 |
| 1984 | 2471 | 31997 | 73639 | 2564 | 1037.64 | 34819 | 8.01 |
| 1985 | 2692 | 37180 | 75962 | 2899 | 1076.89 | 38164 | 7.80 |
| 1986 | 2631 | 38178 | 72687 | 2878 | 1093.88 | 39594 | 7.54 |

Source: Company Financial Reports

Employment in the Big Three vehicle companies (assembly and captive parts) declined by 3275 workers in 1986, down four percent from 1985, although payroll costs only decreased by $\$ 21$ million. Payroll per unit of sales increased by $\$ 17$. This is reflected in the payroll per employee, which increased by three percent in 1986. However, payroll as a percent of sales revenue declined marginally, continuing the trend which occurred during the 1980s.

## Trends in Vehicle Output per Employee

As shown in TABLE 7, the number of vehicles produced per employee peaked at 30.8 in 1984. In 1985, there was a slight reduction and, in 1986, the number declined to 29.1 per employee. This decline in 1985 and 1986 may be attributed to the extensive refurbishing of the GM Oshawa complex and the model change-over programs.

TABLE 7
Candidan vehicle output per employee BIG THREE VEHICLE MANUFACTURERS, 1981-1986

|  | $\underline{1981}$ | $\underline{1982}$ |  | $\underline{1983}$ |  | $\underline{1984}$ |  | $\underline{1985}$ | $\underline{1986}$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Vehicle Production ('000) | 1 | 281 | 1 | 236 |  | 1 | 502 | 1830 |  |

Source: Company financial reports, Ward's Reports

* Employment figures in this table include only assembly workers.


## Capital Spending

Capital spending on plant and equipment by the North American vehicle producers in Canada in 1986 was $\$ 1138$ million, an increase of 20 percent over the previous year. General Motors' expenditures for the development of the Autoplex at Oshawa and the new product program at Ste-Thérèse accounted for a substantial portion of the total industry capital outlay.

## THE CANADIAN PARTS INDUSTRY

The automotive parts industry in Canada produces components for use in the assembly of vehicles, and parts and accessories for the aftermarket or replacement market. It is made up of three classes of manufacturers: in-house facilities of the vehicle producers, which in 1986, accounted for approximately 45 percent of production; foreign-owned independent parts producers responsible for about 40 percent of total output; and independent Canadian parts manufacturers which accounted for 15 percent of production. The Canadian-owned parts segment consists of several hundred small to medium-sized companies while the foreign-owned multinational independent segment is composed of 12 to 15 large companies.

Total automotive parts production in 1986 was $\$ 13.4$ billion, of which 80 percent was exported, principally to the United States. Approximately 85 percent was original equipment parts used in the assembly of vehicles by the motor vehicle companies. The remaining 15 percent was sold as aftermarket parts.

Figure 5
CANADIAN MOTOR VEHICLE PARTS SHIPMENTS
1978-1986
(\$ millions)


Exports of parts to the United States were up by $\$ 65$ million to $\$ 11.6$ billion in 1986 (Table 5.2). Parts exports to other countries were up 39 percent to \$418 million compared to $\$ 301$ million in 1985.

## Investment

Capital investment by Canadian automotive parts manufacturers in 1986 increased by 21 percent over 1985, continuing an investment trend that began in 1983.

TABLE 8
CAPITAL INVESTMENT IN CANADIAN AUTOMOTIVE-PARTS INDUSTRY, 1978-1986

Year

1978
1979 1980 1981 1982 1983 1984 1985 1986

Capital Expenditures SMillions
201.4
330.9
786.9
666.5
189.8
164.0
203.2
332.1
402.9

## STATISTICAL APPENDIX

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9. SALES

TABLE 1.1
Retail Sales of Motor Vehicles in Canada and the United States, 1970-1986 ('000 Units)

| AUTOMOBILES |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | NORTH | OVERSEAS |  | NORTH | OVERSEAS |  | TOTAL |
| YEAR | AMERICAN | IMPORT | TOTAL | AMERICAN | IMPORT | TOTAL | VEHICLES |

1. CANADA

| 1970 | 497 | 143 | 640 | 125 | 9 | 134 | 774 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1971 | 592 | 188 | 780 | 147 | 13 | 160 | 940 |
| 1972 | 654 | 205 | 859 | 190 | 17 | 207 | 1066 |
| 1973 | 783 | 188 | 971 | 235 | 20 | 256 | 227 |
| 1974 | 797 | 146 | 943 | 288 | 19 | 307 | 249 |
| 1975 | 836 | 154 | 989 | 310 | 17 | 327 | 1317 |
| 1976 | 793 | 153 | 946 | 331 | 14 | 345 | 1291 |
| 1977 | 798 | 194 | 991 | 338 | 16 | 354 | 1345 |
| 1978 | 816 | 173 | 989 | 364 | 13 | 377 | 1366 |
| 1979 | 863 | 140 | 1003 | 381 | 12 | 393 | 1396 |
| 1980 | 741 | 191 | 932 | 312 | 22 | 334 | 1266 |
| 1981 | 647 | 257 | 904 | 251 | 36 | 287 | 1191 |
| 1982 | 489 | 224 | 713 | 167 | 40 | 207 | 920 |
| 1983 | 625 | 218 | 843 | 193 | 45 | 238 | 1081 |
| 1984 | 725 | 246 | 971 | 274 | 39 | 313 | 1284 |
| 1985 | 795 | 342 | 1137 | 345 | 48 | 393 | 1530 |
| 1986 | 762 | 329 | 1091 | 368 | 51 | 419 | 1510 |

Source: Statistics Canada.

| AUTOMOBILES |  |  |  |  | TRUCKS |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: |
|  | NORTH | OVERSEAS |  | NORTH | OVERSEAS |  | TOTAL |  |
| YEAR | AMERICAN | IMPORT | TOTAL | AMERICAN | IMPORT | TOTAL | VEHICLES |  |

2. U.S.

| 1970 | 7120 | 1285 | 8405 | 1746 | 65 | 1811 | 10216 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1971 | 8681 | 1570 | 10251 | 2011 | 85 | 2096 | 12347 |
| 1972 | 9327 | 1623 | 10950 | 2486 | 143 | 2632 | 13575 |
| 1973 | 9676 | 1763 | 11439 | 2916 | 228 | 3144 | 14583 |
| 1974 | 7454 | 1413 | 8867 | 2512 | 171 | 2683 | 11550 |
| 1975 | 7053 | 1587 | 8640 | 2249 | 231 | 2480 | 11120 |
| 1976 | 8611 | 1498 | 10109 | 2944 | 237 | 3181 | 13290 |
| 1977 | 9109 | 2075 | 11184 | 3353 | 323 | 3676 | 14860 |
| 1978 | 9312 | 2000 | 11312 | 3776 | 337 | 4113 | 15425 |
| 1979 | 8328 | 2300 | 10628 | 3000 | 500 | 3500 | 14128 |
| 1980 | 6578 | 2398 | 8976 | 2002 | 484 | 2486 | 11462 |
| 1981 | 6206 | 2324 | 8530 | 1852 | 448 | 2300 | 10830 |
| 1982 | 5757 | 2222 | 7979 | 2151 | 410 | 2561 | 10540 |
| 1983 | 6795 | 2386 | 9181 | 2588 | 464 | 3052 | 12233 |
| 1984 | 7951 | 2439 | 10390 | 3484 | 607 | 4091 | 14481 |
| 1985 | 8205 | 2834 | 11038 | 3912 | 766 | 4678 | 15716 |
| 1986 | 8216 | 3235 | 11451 | 3944 | 923 | 4867 | 16318 |

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

TABLE 1.2
Canadian Sales of North American Cars by Size, 1970-1986
(Units)

| YEAR | SUB-COMPACT | PERCENT TOTAL | COMPACT | PERCENT TDTAL | INTERMEDIATE | PERCENT TOTAL | FULL-SIZE | PERCENT <br> TOTAL | LUXURY | PERCENT total | TOTAL SALES |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1970 | 8882 | 1.80 | 101192 | 20.46 | 156136 | 31.57 | 214785 | 43.43 | 13556 | 2.74 | 494551 |
| 1971 | 38616 | 6.85 | 108280 | 19.22 | 158687 | 28.16 | 234656 | 41.64 | 23259 | 4.13 | 563498 |
| 1972 | 45645 | 7.41 | 132550 | 21.51 | 185856 | 30.16 | 206830 | 33.57 | 45308 | 7.35 | 616189 |
| 1973 | 81739 | 10.89 | 164783 | 21.96 | 233914 | 31.18 | 213909 | 28.51 | 55927 | 7.45 | 750272 |
| 1974 | 89969 | 11.61 | 183062 | 23.63 | 239003 | 30.85 | 209102 | 26.99 | 53600 | 6.92 | 774736 |
| 1975 | 74552 | 10.29 | 185894 | 25.66 | 229364 | 31.66 | 222581 | 30.73 | 11963 | 1.65 | 724354 |
| 1976 | 70483 | 8.89 | 245047 | 30.91 | 249235 | 31.44 | 215451 | 27.18 | 12502 | 1.58 | 792718 |
| 1977 | 56060 | 7.03 | 245805 | 30.81 | 266784 | 33.44 | 214287 | 26.86 | 14775 | 1.85 | 797711 |
| 1978 | 96154 | 11.80 | 248046 | 30.43 | 263448 | 32.32 | 191113 | 23.44 | 16435 | 2.02 | 815196 |
| 1979 | 152432 | 17.67 | 236832 | 27.46 | 243132 | 28.19 | 203388 | 23.58 | 26738 | 3.10 | 862522 |
| 1980 | 140214 | 18.92 | 228745 | 30.86 | 205813 | 27.77 | 148145 | 19.99 | 18350 | 2.48 | 741267 |
| 1981 | 136696 | 21.45 | 198078 | 31.08 | 184443 | 28.94 | 105406 | 16.54 | 12604 | 1.98 | 637227 |
| 1982 | 156874 | 32.36 | 124944 | 25.78 | 145237 | 29.96 | 50705 | 10.46 | 6959 | 1.44 | 484719 |
| 1983 | 205942 | 33.56 | 135226 | 22.04 | 197672 | 32.21 | 66016 | 10.76 | 8817 | 1.44 | 613673 |
| 1984 | 235429 | 33.01 | 178527 | 25.03 | 206740 | 28.99 | 79030 | 11.08 | 13531 | 1.90 | 713257 |
| 1985 | 237047 | 30.22 | 202286 | 25.88 | 245966 | 31.47 | 79961 | 10.23 | 16567 | 2.12 | 781827 |
| 1986 | 232949 | 30.90 | 187465 | 24.87 | 234511 | 31.11 | 81752 | 10.85 | 17227 | 2.29 | 753904 |

> I $\underset{-}{\prime}$

SOURCE: MVMA.

TABLE 1.3
United States Sales of North American Cars by Size, 1970-1986
(Units)

| YEAR | SUB-COMPACT | PERCENT TOTAL | COMPACT | PERCENT TOTAL |  | INTERMEDIATE | PERCENT TOTAL | FULL-SIZE | PERCENT TOTAL | LUXURY | PERCENT TOTAL | TOTAL SALES |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1970 | 138259 | 1.93 | 1157250 | 16.18 | 2 | 434906 | 34.04 | 3033092 | 42.40 | 389280 | 5.44 | 7152787 |
| 1971 | 721814 | 8.74 | 1174090 | 14.21 | 2 | 330502 | 28.20 | 3500140 | 42.36 | 536890 | 6.50 | 8263436 |
| 1972 | 809014 | 9.75 | 1267350 | 15.27 | 2 | 360920 | 28.45 | 3332215 | 40.15 | 529277 | 6.38 | 8298776 |
| 1973 | 1072440 | 11.09 | 1687379 | 17.45 | 2 | 909511 | 30.09 | 3258475 | 33.70 | 741884 | 7.67 | 9669689 |
| 1974 | 791901 | 10.63 | 1557854 | 20.91 | 2 | 539193 | 34.09 | 2016375 | 27.07 | 543598 | 7.30 | 7448921 |
| 1975 | 1167393 | 17.27 | 1678500 | 24.83 | 1 | 974772 | 29.21 | 1587852 | 23.49 | 352395 | 5.21 | 6760912 |
| 1976 | 1041050 | 12.10 | 2436219 | 28.31 | 2 | 845207 | 33.06 | 1898857 | 22.06 | 385240 | 4.48 | 8606573 |
| 1977 | 994936 | 10.93 | 2364838 | 25.97 | 3 | 009209 | 33.05 | 2276561 | 25.00 | 458910 | 5.04 | 9104454 |
| 1978 | 1209320 | 13.20 | 2224380 | 24.28 | 3 | 007774 | 32.84 | 2137160 | 23.33 | 581547 | 6.35 | 9160181 |
| 1979 | 1762050 | 21.42 | 1936150 | 23.54 | 2 | 334500 | 28.38 | 1708790 | 20.77 | 483936 | 5.88 | 8225426 |
| 1980 | 1670721 | 25.40 | 1674755 | 25.46 | 1 | 835799 | 27.91 | 1075267 | 16.35 | 321710 | 4.89 | 6578252 |
| 1981 | 1661401 | 26.77 | 1523044 | 24.54 | 1 | 741694 | 28.07 | 951534 | 15.33 | 328183 | 5.29 | 6205856 |
| 1982 | 1738589 | 30.20 | 1104083 | 19.18 | 1 | 618078 | 28.11 | 928467 | 16.13 | 367441 | 6.38 | 5756658 |
| 1983 | 2034807 | 29.95 | 924639 | 13.61 | 2 | 247042 | 33.07 | 1157519 | 17.04 | 431292 | 6.35 | 6795299 |
| 1984 | 2306206 | 29.00 | 1309390 | 16.47 | 2 | 457048 | 30.90 | 1232368 | 15.50 | 646511 | 8.13 | 7951523 |
| 1985 | 1296863 | 15.81 | 2562588 | 31.24 | 2 | 463556 | 30.03 | 1077308 | 13.14 | 804389 | 9.81 | 8204704 |
| 1986 | 1325325 | 16.14 | 2461192 | 29.97 | 2 | 540491 | 30.93 | 1115789 | 13.59 | 772091 | 9.40 | 8214888 |

Source: 1970 through 1975 are registrations (figures are low because of incomplete reports from some states). 1976 and subsequent years are retail sales -- Ward's Automotive Reports.

TABLE 1.4
Canadian Sales of New Passenger Cars by Origin, 1964-1986 (Units)

| Year | Total Sales Volume | Domestic |  | Total Imported |  | Japanese |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Volume | Percent | Volume | Percent | Volume | Percent |
| 1964 | 616759 | 550823 | 89.3 | 65936 | 10.7 | - | - |
| 1965 | 708716 | 633641 | 89.4 | 75075 | 10.6 | 2834 | 0.4 |
| 1966 | 694820 | 626986 | 90.2 | 67834 | 9.8 | 2742 | 0.4 |
| 1967 | 679435 | 605049 | 89.1 | 74386 | 10.9 | 5617 | 0.8 |
| 1968 | 741915 | 637393 | 85.9 | 104522 | 14.1 | 15859 | 2.1 |
| 1969 | 760803 | 638270 | 83.9 | 122533 | 16.1 | 39033 | 5.1 |
| 1970 | 640360 | 497185 | 77.7 | 143175 | 22.3 | 65569 | 10.2 |
| 1971 | 780762 | 592319 | 75.9 | 188443 | 24.1 | 106552 | 13.7 |
| 1972 | 858959 | 653933 | 76.1 | 205026 | 23.9 | 116860 | 13.6 |
| 1973 | 970828 | 782914 | 80.6 | 187914 | 19.4 | 111467 | 11.5 |
| 1974 | 942797 | 796840 | 84.5 | 145957 | 15.5 | 87609 | 9.3 |
| 1975 | 989280 | 835679 | 84.5 | 153601 | 15.5 | 95772 | 9.7 |
| 1976 | 946488 | 793201 | 83.8 | 153287 | 16.2 | 101558 | 10.7 |
| 1977 | 991398 | 797752 | 80.5 | 193646 | 19.5 | 134900 | 13.6 |
| 1978 | 988890 | 815994 | 82.5 | 172896 | 17.5 | 113166 | 11.4 |
| 1979 | 1003008 | 863554 | 86.1 | 139454 | 13.9 | 79879 | 8.0 |
| 1980 | 932060 | 740767 | 79.5 | 191293 | 20.5 | 138107 | 14.8 |
| 1981 | 904195 | 646942 | 71.6 | 257253 | 28.4 | 207639 | 23.0 |
| 1982 | 713481 | 489435 | 68.6 | 224046 | 31.4 | 178174 | 25.0 |
| 1983 | 843318 | 625088 | 74.1 | 218230 | 25.9 | 176525 | 20.9 |
| 1984 | 971210 | 724932 | 74.6 | 246278 | 25.4 | 171204 | 17.6 |
| 1985 | 1137216 | 794965 | 69.9 | 342251 | 30.1 | 199221 | 17.5 |
| 1986 | 1091117 | 761867 | 69.8 | 329250 | 30.2 | 198410 | 18.2 |

Source: Statistics Canada.

TABLE 1.5

## U.S. Sales of New Passenger Cars by Origin, 1964-1986 (Units)

| Year | Total Sales Volume | Domestic |  | Total Imported |  | Japanese |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Volume | Percent |  |  |  |  |
| 1964 | 8100865 | 7616734 | 94.0 | 484131 | 6.0 | N/A | - |
| 1965 | 9232504 | 8763219 | 94.9 | 469285 | 5.1 | 18067 | 0.2 |
| 1966 | 8978657 | 8377425 | 93.3 | 601232 | 6.7 | 40183 | 0.5 |
| 1967 | 8286472 | 7567884 | 91.3 | 718588 | 8.7 | 69188 | 8 |
| 1968 | 9610257 | 8624820 | 89.7 | 985437 | 10.3 | 109586 | 1.2 |
| 1969 | 9545295 | 8464375 | 88.7 | 1080920 | 11.3 | 189160 | 2.0 |
| 1970 | 8364950 | 7115537 | 85.1 | 1249413 | 14.9 | 312777 | 3.7 |
| 1971 | 10209375 | 8676284 | 85.0 | 1533091 | 15.0 | 578977 | 5.7 |
| 1972 | 10907503 | 9321502 | 85.5 | 1586001 | 14.6 | 628918 | . 8 |
| 1973 | 11402261 | 9669689 | 84.8 | 1732572 | 15.2 | 742621 | 6.5 |
| 1974 | 8838244 | 7448921 | 84.3 | 1389323 | 15.7 | 592113 | 6.7 |
| 1975 | 8614524 | 7050120 | 81.8 | 1564404 | 18.2 | 807931 | 9.4 |
| 1976 | 10097692 | 8606573 | 85.2 | 1491119 | 14.8 | 931182 | 9.2 |
| 1977 | 11168708 | 9104454 | 81.5 | 2064254 | 18.5 | 1399338 | 12.5 |
| 1978 | 11300477 | 9307563 | 82.4 | 1992914 | 17.6 | 1414260 | 12.5 |
| 1979 | 10647442 | 8328055 | 78.2 | 2319387 | 21.8 | 1833927 | 17.2 |
| 1980 | 8978584 | 6578252 | 73.3 | 2400332 | 26.7 | 1908413 | 21.3 |
| 1981 | 8533135 | 6205856 | 72.7 | 2327279 | 27.3 | 1858896 | 21.8 |
| 1982 | 7978872 | 5756658 | 72.2 | 2222214 | 27.9 | 1801481 | 22.6 |
| 1983 | 9182071 | 6795299 | 74.0 | 2386772 | 26.0 | 1915621 | 20.9 |
| 1984 | 10390815 | 7951523 | 76.5 | 2439292 | 23.5 | 1906204 | 18.3 |
| 1985 | 11038423 | 8204704 | 74.3 | 2833719 | 25.7 | 2217860 | 20.2 |
| 1986 | 11452566 | 8214888 | 71.7 | 3237678 | 28.3 | 2375818 | 20.7 |

* Imported includes captive imports for 1980 and subsequent years.

Source: Ward's.

TABLE 1.6
Road Motor vehicle Registrations in Canada, 1981-1985

|  | 1981 |  |  | 1982 |  |  | 1983 |  |  | 1984 |  |  | 1985 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Passenger Automobiles | 10 | 199 | 388 | 10 | 530 | 355 | 10 |  | 520 | 10 | 780 | 667 |  | 118 | 071 |
| Trucks and Truck-tractors | $3$ |  | 987 | 3 | 239 | 341 |  |  | 746 | 3 | 046 | 889 |  | 095 | 243 |
| Buses |  |  | 210 |  |  |  |  | 55 | 226 |  | 52 | 169 |  | 53 | 285 |
| Motorcycles |  |  | 871 |  | 431 |  |  | 466 | 411 |  | 470 | 445 |  | 452 | 526 |
| Mopeds |  |  | - |  |  | - |  |  | - |  |  | - |  | 35 | 397 |
| Other |  |  |  |  | 55 | 503 |  | 58 |  |  | 56 | 302 |  | 64 | 103 |
| TOTAL |  | 851 | 482 | 14 | 310 |  |  | 619 | 609 |  | 406 | 472 |  | 818 | 625 |

Source: Statistics Canada.
The statistics on road-vehicle registrations shown in this table have been obtained from the 12 provincial and territorial governments, each of which has its own distinct registration system. While each provincial or territorial system may be comprehensive and consistent within itself, the inconsistencies between the different provinces and territories pose serious problems for anyone trying to make use of national totals.

For all provinces and territories, the registration figures represent the total number of vehicles which held a registration in the reporting jurisdiction for all, or any part, of the licence year. However, there is some slight duplication when vehicles are registered in more than one province or territory during the same licence year. Although the Statistics Canada questionnaire asked for separate reporting of transfers from other provinces or territories, only Nova Scotia and British Columbia were able to supply this figure. Therefore, no adjustment was made. An analysis of these reports indicates that less than 1.7 percent of registrations of road motor-vehicles represents transfers from other provinces or territories.

Since 1980, information from the province of Quebec concerning registration is based on a count of the number of vehicles in circulation. In previous years, data shown in tabulations for Quebec were based on the number of registration transactions. However, because Quebec registrations change each time a vehicle is sold (unlike the other nine provinces where the licence plate stays with the vehicle), the transactions count tended to overstate the number of vehicles on the road in Quebec.

## TABLE 1.7

Top-ten Vehicle Manufacturers in the World by Total Output, 1985

| COMPANY | TOTAL OUTPUT (Units) |
| :--- | :--- |
| 1. General Motors -- U.S.A. | 9077049 |
| 2. Ford Motor -- U.S.A. | 5450526 |
| 3. Toyota -- Japan | 3718522 |
| 4. Nissan -- Japan | 2808085 |
| 5. Volkswagen -- West Germany | 2385349 |
| 6. Chrysler -- U.S.A. | 1936583 |
| 7. Renault -- France | 1879054 |
| 8. Peugeot -- France | 1818816 |
| 9. Uaz -- U.S.S.R. | 1660000 |
| 10. Fiat -- Italy | 1508986 |

Note: Includes production from plants outside parent country.
Source: Motor Vehicle Manufacturers Association (MVMA) of the United States, World Motor Vehicle Data, 1987.

Data compiled by the MVMA from various overseas sources. Information was obtained from published reports issued by various vehicle associations outside the U.S. and from a number of other sources considered reliable. Therefore, and because of the numerous complex factors involved in determining vehicle ranking worldwide, the MVMA does not assume responsibility for the above classification.

TABLE 1.8
International Sourcing Pattern of Original-equipment Parts of the Five Major Motor Vehicle Manufacturers (\$C Million)

| Model Year | U.S. Purchases from In-house Suppliers in Canada | Canadian Purchases from In-house Suppliers in U.S.A. | $\begin{aligned} & \text { Column (a) } \\ & \text { Lesess (b) } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
|  | (a) | (b) | (c) |
| 1965 | 17.4 | 522.2 | - 504.8 |
| 1966 | 163.7 | 599.5 | - 435.8 |
| 1967 | 209.0 | 716.1 | - 507.1 |
| 1968 | 356.3 | 1008.5 | 652.2 |
| 1969 | 406.8 | 1298.7 | 891.9 |
| 1970 | 453.6 | 1153.3 | - 699.7 |
| 1971 | 639.0 | 1428.1 | - 789.1 |
| 1972 | 763.2 | 1556.4 | - 793.2 |
| 1973 | 801.7 | 1804.0 | -1 002.3 |
| 1974 | 713.0 | 2083.2 | -1 370.2 |
| 1975 | 796.7 | 2 209.1 | -1 112.4 |
| 1976 | 1165.6 | 2772.2 | -1 606.6 |
| 1977 | 1520.6 | 3365.8 | -1 845.2 |
| 1978 | 2222.0 | N.A. | N.A. |
| 1979 | 2361.7 | 4702.8 | -2 341. 1 |
| 1980 | 1604.1 | 3991.7 | -2 387.6 |
| 1981 | 2118.7 | 4957.2 | -2 838.5 |
| 1982 | 2891.7 | 5 374.2 | -2 482.5 |
| 1983 | 2360.0 | 5918.0 | -3 558.0 |
| 1984 | 3959.6 | 7813.4 | -3 853.8 |
| 1985 | 4620.7 | 8489.6 | -3 868.9 |
| 1986 | 4869.0 | 9710.4 | -4 814.4 |


| Model Year | U.S. Purchases from Independent Suppliers in Canada | Canadian Purchases from Independent Suppliers in U.S.A. |  |
| :---: | :---: | :---: | :---: |
| 1965 | 74.3 | 236.4 | - 162.1 |
| 1966 | 112.3 | 279.8 304.6 | - 162.15 <br> $-\quad 132.5$ |
| 1968 | 127.4 | 304.6 | - 132.5 |
| 1969 | 430.9 | 485.5 | - $\quad 54.6$ |
| 1970 | 487.3 | 505.4 | - 18.1 |
| 1971 | 574.5 | 484.4 | 90.1 |
| 1973 | 699.3 | 558.9 | 140.4 |
| 1974 | 771.4 | 846.9 | 13.6 $-\quad 75.5$ |
| 1975 | 875.8 | 1051.1 | - 175.3 |
| 1976 | 1221.6 1530.0 | 1283.5 1519.9 | - $\quad 61.9$ |
| 1978 | 1537.8 <br> 1 | 1 N. ${ }^{\text {A }}$. | N. A. |
| 1979 | $\underline{1} 812.0$ | 1560.0 | 25.2 |
| 1980 | 1253.4 1385.1 | ${ }_{1}^{1} 2226.1$ | $\begin{array}{r}27.3 \\ -\quad 65.6 \\ \hline\end{array}$ |
| 1982 | 1476.9 | 1 2 843.8 | - 366.9 |
| 1983 1984 | $\frac{1}{2} 922.1$ | 2067.4 3 3 | [ 145.3 $-\quad 417.5$ |
| 1985 | 2 3 3 3 | 3034.2 3871.4 | - 419.5 |
| 1986 | 3735.7 | 4618.8 | - 883.1 |

Note: Canadian purchases are for use in vehicle assembly in Canada only. These figures do not include parts imported for further manufacture or parts imported for re-export, either as parts or as CKD vehicles.

Source: Compiled from company responses to the Reisman Inquiry (1965-1977) and company Auto Pact Reports (1979-1986). 1978 data not available from Auto Pact Reports.
2. SHIPMENTS

TABLE 2.1
Value of Shipments in Canadian Automotive Industry, 1976-1986 (\$C Million)

| Year | Motor-Vehicle <br> Manufacturers |  <br> Trailer <br> Manufacturers | Motor <br> Vehicle <br>  <br> Accessories <br> (SIC 325) | Automotive <br> Fabric | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| (SIC 188) |  |  |  |  |  |
| 1976 | 72776.1 | 304.7 | 3112.3 | 305.5 | 10998.6 |
| 1977 | 8610.4 | 340.4 | 3790.2 | 348.6 | 13089.6 |
| 1978 | 10070.1 | 426.1 | 4692.0 | 427.7 | 15615.9 |
| 1979 | 10724.4 | 594.5 | 4472.8 | 424.6 | 16216.3 |
| 1980 | 10071.1 | 618.4 | 3609.7 | 424.5 | 14723.7 |
| 1981 | 11402.8 | 631.6 | 4358.4 | 520.9 | 16913.7 |
| 1982 | 12343.6 | 483.4 | 5059.7 | 479.2 | 18365.9 |
| 1983 | 15590.7 | 449.4 | 8357.9 | 612.3 | 25010.3 |
| 1984 | 21262.9 | 981.9 | 11019.5 | 816.9 | 34081.2 |
| 1985 | 24599.1 | 1049.1 | 12183.3 | 905.3 | 38736.8 |
| 1986 | 25093.9 | 1174.8 | 12222.0 | 999.7 | 39490.4 |

[^0]3. PRODUCTION

TABLE 3.1
North American Production of Motor Vehicles, 1965-1986
('000 Units)

| Year | Canada |  | U.S.A. |  | $\frac{\text { North America }}{\text { Total }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Volume | Percent | Volume | Percent | Volume | Percent |
| 1965 | 846 | 7.1 | 11114 | 92.9 | 11960 | 100.0 |
| 1966 | 902 | 8.0 | 10363 | 92.0 | 11265 | 100.0 |
| 1967 | 947 | 9.5 | 8992 | 90.5 | 9939 | 100.0 |
| 1968 | 1180 | 9.8 | 10794 | 90.2 | 11974 | 100.0 |
| 1969 | 1353 | 11.7 | 10182 | 88.3 | 11535 | 100.0 |
| 1970 | 1193 | 12.6 | 8263 | 87.4 | 9456 | 100.0 |
| 1971 | 1373 | 11.4 | 10650 | 88.6 | 12023 | 100.0 |
| 1972 | 1474 | 11.5 | 11297 | 88.5 | 12771 | 100.0 |
| 1973 | 1575 | 11.1 | 12663 | 88.9 | 14238 | 100.0 |
| 1974 | 1564 | 13.5 | 9984 | 86.5 | 11548 | 100.0 |
| 1975 | 1442 | 13.9 | 8965 | 86.1 | 10407 | 100.0 |
| 1976 | 1647 | 12.5 | 11486 | 87.5 | 13133 | 100.0 |
| 1977 | 1775 | 12.3 | 12699 | 87.7 | 14474 | 100.0 |
| 1978 | 1818 | 12.4 | 12895 | 87.6 | 14713 | 100.0 |
| 1979 | 1632 | 12.4 | 11475 | 87.6 | 13107 | 100.0 |
| 1980 | 1374 | 14.6 | 8010 | 85.4 | 9384 | 100.0 |
| 1981 | 1280 | 13.9 | 7941 | 86.1 | 9221 | 100.0 |
| 1982 | 1236 | 15.0 | 6985 | 85.0 | 8221 | 100.0 |
| 1983 | 1502 | 13.9 | 9226 | 86.1 | 10728 | 100.0 |
| 1984 | 1830 | 14.4 | 10924 | 85.6 | 12754 | 100.0 |
| 1985 | 1930 | 14.2 | 11648 | 85.8 | 13578 | 100.0 |
| 1986 | 1859 | 14.1 | 11317 | 85.9 | 13176 | 100.0 |

Source: Ward's Automotive Reports.

TABLE 3.2
Canadian Truck Production, 1975-1986 (Units)

| YEAR | LIGHT | PERCENT <br> OF TOTAL | MEDIUM AND <br> HEAVY-DUTY | PERCENT <br> OF TOTAL | TOTAL |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1975 | 367142 | 94.74 | 20397 | 5.26 | 387539 |
| 1976 | 482807 | 96.45 | 17753 | 3.55 | 500560 |
| 1977 | 576297 | 95.64 | 26263 | 4.36 | 602560 |
| 1978 | 629743 | 95.99 | 26316 | 4.01 | 656059 |
| 1979 | 606936 | 95.59 | 27980 | 4.41 | 634916 |
| 1980 | 506274 | 95.97 | 21248 | 4.03 | 527522 |
| 1981 | 480172 | 96.65 | 16650 | 3.35 | 496822 |
| 1982 | 434138 | 96.94 | 13682 | 3.06 | 447820 |
| 1983 | 539386 | 98.53 | 8051 | 1.47 | 547437 |
| 1984 | 793873 | 97.81 | 17849 | 2.19 | 811722 |
| 1985 | 834467 | 97.46 | 21711 | 2.54 | 856178 |
| 1986 | 771102 | 97.28 | 21578 | 2.73 | 792680 |

Source: MVMA

TABLE 3.3
U.S. Truck Production, 1975-1986
(Units)

| YEAR | LIGHT |  |  | PERCENT <br> OF TOTAL | MEDIUM |  | PERCENT <br> OF TOTAL | HEAVYDUTY |  | PERCENT <br> OF TOTAL | TOTAL |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1975 | 1 | 945 | 498 | 85.62 | 200 | 271 | 8.82 | 126 | 391 | 5.56 | 2 | 272 | 160 |
| 1976 | 2 | 637 | 7314 | 88.53 | 198 | 8726 | 6.67 | 143 | 3009 | 4.80 | 2 | 979 | 049 |
| 1977 | 3 | 048 | 8767 | 88.80 | 203 | 3653 | 5.93 | 180 | 809 | 5.27 | 3 | 433 | 229 |
| 1978 | 3 | 263 | 3122 | 88.04 | 224 | 4379 | 6.05 | 218 | 749 | 5.91 | 3 | 706 | 250 |
| 1979 | 2 | 608 | 8076 | 85.89 | 189 | 9477 | 6.24 | 239 | 153 | 7.88 | 3 | 036 | 706 |
| 1980 | 1 | 386 | 6523 | 83.16 | 100 | 0088 | 6.00 | 180 | 072 | 10.84 | 1 | 667 | 283 |
| 1981 | 1 | 445 | 5403 | 84.98 | 88 | 8666 | 5.21 | 166 | 6839 | 9.81 | 1 | 700 | 908 |
| 1982 | 1 | 720 | O 532 | 90.30 | 49 | 9224 | 2.58 | 135 | 5684 | 7.12 | 1 | 905 | 440 |
| 1983 | 2 | 096 | 6297 | 86.47 | 126 | 6548 | 5.22 | 201 | 1459 | 8.31 | 2 | 424 | 304 |
| 1984 | 2 | 769 | 9275 | 90.05 | 67 | 7805 | 2.21 | 238 | 8245 | 7.74 | 3 | 075 | 325 |
| 1985 | 3 | 045 | 5990 | 90.74 |  | 8279 | 2.33 | 232 | 2636 | 6.93 | 3 | 356 | 906 |
| 1986 | 3 | 128 | 8146 | 92.20 |  | 1264 | 1.52 | 213 | 3475 | 6.30 | 3 | 392 | 885 |

Source: Ward's Automotive Yearbook.
4. INVESTMENTI

TABLE 4.1
New Capital Expenditures in the Canadian Automotive Industry, 1976-1986 (\$C Million)

|  | Motor Vehicle <br> Manufacturers | Truck Body <br> Manufacturers | Sub-Total | Motor-Vehicle <br> Parts and <br> Accessories | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 1976 | 59.6 | 23.3 | 82.9 | 62.5 | 145.5 |
| 1977 | 152.5 | 24.1 | 176.6 | 109.6 | 286.2 |
| 1978 | 83.6 | 15.4 | 99.0 | 203.9 | 302.9 |
| 1979 | 111.4 | 41.7 | 153.1 | 330.9 | 484.0 |
| 1980 | 136.4 | 47.2 | 183.6 | 780.9 | 964.5 |
| 1981 | 272.9 | 32.2 | 305.1 | 666.5 | 971.6 |
| 1982 | 203.1 | 33.6 | 236.7 | 188.5 | 425.2 |
| 1983 | 463.2 | 12.6 | 475.8 | 140.5 | 616.3 |
| 1984 | 256.1 | 12.6 | 268.7 | 171.1 | 439.8 |
| 1985 | 713.6 | 8.9 | 722.5 | 332.1 | 1054.6 |
| 1986 | 1897.3 | 19.4 | 1916.7 | 402.9 | 2319.6 |

SOURCE: Statistics Canada.
5. TRADE AND AUTO PACT DATA

TABLE 5.1
Canadian-overseas Trade in Automotive Products, 1969-1986*
(\$C Million)

|  | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CANADIAN EXPORTS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Motor Vehicles | 141 | 114 | 117 | 126 | 204 | 421 | 427 | 614 | 711 | 558 | 634 | 656 | 440 | 281 | 346 | 225 | 222 |
| Parts | 99 | 85 | 88 | 119 | 142 | 180 | 171 | 195 | 314 | 445 | 420 | 556 | 404 | 254 | 280 | 301 | 418 |
| Tires and Tubes | 3 | 4 | 3 | 5 | 5 | 5 | 8 | 7 | 10 | 11 | 31 | 45 | 26 | 18 | 24 | 45 | 42 |
| Re-exports | 9 | 7 | 6 | 8 | 7 | 10 | 10 | 10 | 9 | 21 | 89 | 436 | 390 | 194 | 174 | 134 | 197 |
| TOTAL | 252 | 210 | 214 | 258 | 358 | 621 | 615 | 826 | 1044 | 1035 | 1174 | 1693 | 1260 | 747 | 824 | 705 | 879 |
| CANADIAN IMPORTS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Motor Vehicles | 240 | 374 | 464 | 377 | 450 | 410 | 522 | 592 | 894 | 727 | 1159 | 1599 | 1413 | 1626 | 2176 | 3106 | 3954 |
| Parts | 130 | 133 | 191 | 212 | 260 | 206 | 231 | 235 | 262 | 365 | 355 | 342 | 379 | 613 | 1328 | 1460 | 1761 |
| Tires and Tubes | 19 | 27 | 42 | 57 | 70 | 82 | 79 | 110 | 146 | 202 | 208 | 187 | 115 | 128 | 207 | 207 | 220 |
| TOTAL | 389 | 534 | 697 | 646 | 780 | 698 | 842 | 937 | 1302 | 1294 | 1722 | 2128 | 1907 | 2367 | 3711 | 4773 | 5935 |
| BALANCES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Motor Vehicles | (99) | (260) | (347) | (251) | (246) | 11 | (95) | 22 | (183) | (169) | (525) | (943) | (973) | (1345) | (1830) | (2881) | (3732) |
| Parts | (31) | (48) | (103) | (93) | (118) | (26) | (60) | (40) | 52 | 180 | 65 | 214 | 25 | (359) | (1048) | (1159) | (1343) |
| Tires and Tubes | (16) | (23) | (39) | (52) | (65) | (77) | (71) | (103) | (136) | (191) | (177) | (142) | (89) | (110) | (183) | (162) | (178) |
| Re-exports | 9 | 7 | 6 | 8 | 7 | 10 | 10 | 10 | 9 | 21 | 89 | 436 | 390 | 194 | 174 | 134 | 197 |
| TOTAL | (137) | (324) | (483) | (388) | (422) | (82) | (227) | (111) | (258) | (259) | (548) | (435) | (647) | (1620) | (2887) | (4068) | (5056) 三 $e$ |

*CKDs are included sometimes in the parts category and sometimes in vehicle category.
Source: Statistics Canada.

|  | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | 1986

United States Imports from Canada*
\$C MILLION

| Cars | 1538 | 1943 | 2046 | 2272 | 2540 | 2858 | 3430 | 4032 | 4 | 723 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Trucks, etc. | 589 | 593 | 706 | 789 | 868 | 932 | 1344 | 1964 | 2 | 325 | 2 | 364 | 2 | 218 | 3142 | 3 |  | 4 | 973 | 13 | 085 | 15 | 277 | 16428 5 |
| Parts | 1127 | 1495 | 1778 | 2172 | 1963 | 2045 | 2942 | 3721 | 4 | 753 | 4 | 489 | 3 | 218 | 3142 | 4 | 946 | 4 | 437 | 5 | 880 | 6 | 422 | 5804 |
| Tires and tubes | 15 | 8 | 23 | 68 | 64 | 68 | 163 | 144 | 4 | 192 | 4 | 234 | 3 | 23 | 286 | 4 |  | 7 | 419 |  |  | 11 | 512 | 77 |
| Total | 3269 | 4039 | 4553 | 5301 | 5435 | 5903 | 7879 | 9861 | 11 | 993 | 11 | 432 | 10 | 306 | 12724 | 16 | 424 | 20 | 885 | 29 | 850 |  |  | 34 |

Canadian Imports from United States

| Cars | 659 | 960 | 1056 | 1439 | 1621 | 2183 | 2317 | 2834 | 3038 |  | 747 | 3388 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Trucks, etc. | 275 | 361 | 495 | 643 | 896 | 942 | 970 | 1118 | 1322 |  | 952 | 1217 |  |  |  |  |  |  | 60 |  | 8048 |  |  |
| Parts | 2107 | 2485 | 2907 | 3528 | 3829 | 4425 | 5473 | 6848 | 8092 | 8 | 665 | 1217 | 1 |  | 9 | 873 | 11 |  | 20 |  | 2504 |  |  |
| Tires and tubes | 24 | 36 | 50 | 92 | 218 | 174 | 115 | 153 | 130 |  | 155 | 146 |  | 165 |  | 147 |  | 225 |  |  | 264 | 17 | 635 227 |
| Total | 3065 | 3842 | 4508 | 5702 | 6564 | 7724 | 8874 | 10953 | 12582 | 14 | 520 | 12351 | 14 | 452 | 13 | 571 | 17 | 599 | 23 | 528 | 8304 | 29 | 314 |
| 8alances |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cars | 879 | 983 | 990 | 833 | 919 | 675 | 1113 | 1198 | 1685 |  |  |  | 1 |  | 4 |  |  |  |  |  |  |  |  |
| Trucks, etc. | 314 | 232 | 211 | 146 | -28 | -10 | 375 | - 846 |  |  | 412 | 1001 | 1 | 735 | 4 | 295 | 4 | 087 | 700 |  | 7229 | 7 | 800 |
| Parts | -980 | -990 | -1 129 | -1 356 | -1 856 | -2 380 | -2 531 | -3 127 | 1003 -3339 | -4 | 177 | 1 -4195 | -5 | 795 | 3 | 073 | -4 | 308 | 38 |  | 3918 | 2 | 980 |
| Tires and Tubes | -9 | -28 | -27 | -24 | -154 | -106 | 48 | -9 | 62 |  | 79 | $\begin{array}{r}18195 \\ \hline 85\end{array}$ | -5 | 121 | -4 | 174 259 | -4 | 194 | -5 | $\begin{aligned} & 9-5 \\ & 3 \end{aligned}$ | $\begin{array}{r} 5976 \\ 328 \end{array}$ | -6 | 058 |
| Total | 204 | 197 | 45 | -401 | -1 129 | -1821 | -995 | -1 092 | -589 | -3 | 087 | -2 045 | -1 | 728 | 2 | 853 | 3 | 286 | 593 | 5 | 5499 | 5 | 170 |
| Excluded: retroactive adjustments to value of imported part from U.S. for special tooling charges. $95 \quad 80$ |  |  | 85 | 93 | 188 | 135 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 9 | 188 | 135 | 151 | 244 | 284 |  | 234 | 297 |  | 463 |  | 479 |  | 454 | 41 |  | 409 |  | 545 |

[^1]TABLE 5.3
Overall Net Production to Net Sales-value Ratios* Achieved by Auto Pact Companies in Canada, 1972-1986 ( $\$ \mathrm{C}$ million)

*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.

Source: Compiled from company Auto Pact Reports to Department of Regional Industrial Expansion.

TABLE 5.4

Actual Canadian Value-added (CVA) as a Percentage of Cost of Sales Compared to CVA Commitments of all Auto Pact Producers, 1976 - 1986 (\$C Million)

|  | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost of Vehicle Sales in Canada of all Auto Pact Producers (model year) | 5345 | 6001 | 6727 | 8554 | 8757 | 8659 | 6327 | 6752 | 10281 | 13022 | 15002 |
| Total CVA Produced (model year) | 3606 | 4337 | 4951 | 5491 | 4659 | 5368 | 5759 | 5847 | 8504 | 10210 | 11282 |
| Difference Between Cost of Sales and CVA Produced | 1739 | 1664 | 1776 | 3063 | 4020 | 3235 | 568 | 905 | 1777 | 2812 | 3720 |
| Total Achieved CVA as Percentage * of Cost of Sales | 67 | 72 | 74 | 64 | 53 | 62 | 91 | 87 | 83 | 78 | 75 |

Source: Auto Pact Company Reports to Department of Regional Industrial Expansion.

* CVA to cost of sales requirement range from 40 to 60 per cent.

TABLE 5.5
Total Canadian Value-added by Category of Production for the Four Major Vehicle Manufacturers in Canada (\$C thousand), 1964-1986

| Year | Non-parts CVA in Vehicle Production | ```Parts CVA in Vehicle Production``` | CVA in Originalequipment <br> Parts Exported | Total <br> Canadian <br> Value-added Produced | Parts CVA as Percentage of <br> Total CVA |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | a | b | c | $d=a+b+c$ | $(b+c) / d$ |
| 1964 | 319294 | 429687 | 36496 | 785477 | 59.4 |
| 1965 | 379532 | 575750 | 100097 | 956229 | 60.3 |
| 1966 | 398154 | 537554 | 198943 | 1134651 | 64.9 |
| 1967 | 360716 | 481780 | 302669 | 1145165 | 68.5 |
| 1968 | 418490 | 493666 | 444895 | 1357051 | 69.2 |
| 1969 | 473920 | 559537 | 587509 | 1620966 | 70.8 |
| 1970 | 482821 | 509910 | 650575 | 1643306 | 70.6 |
| 1971 | 524922 | 457094 | 728149 | 1710165 | 69.3 |
| 1972 | 564178 | 562676 | 879228 | 2006082 | 71.9 |
| 1973 | 657787 | 603624 | 1078736 | 2340147 | 71.9 |
| 1974 | 739987 | 640285 | 1069117 | 2449389 | 69.8 |
| 1975 | 876298 | 733442 | 1105988 | 2715728 | 67.7 |
| 1976 | 1053265 | 724808 | 1568273 | 3346346 | 68.5 |
| 1977 | 1289796 | 833948 | 1882556 | 4006300 | 67.8 |
| 1978 | 1435608 | 948744 | 2133323 | 4517675 | 68.2 |
| 1979 | 1465468 | 1184305 | 2351655 | 5001428 | 70.7 |
| 1980 | 1321865 | 1086625 | 1755138 | 4163628 | 68.2 |
| 1981 | 1344937 | 1272954 | 2217692 | 4835583 | 72.2 |
| 1982 | 1456898 | 1232880 | 2256222 | 4946000 | 70.6 |
| 1983 | 1603567 | 1446315 | 2542162 | 5592044 | 71.3 |
| 1984 | 1980610 | 2067701 | 3917148 | 7965459 | 75.1 |
| 1985 | 2181753 | 2135860 | 5095169 | 9412782 | 76.8 |
| 1986 | 2432490 | 2500545 | 5532363 | 10465398 | 76.8 |

Source: 1964-1977 data prepared by the Reisman Commission; 1978-1986 data prepared by Department of Regional Industrial Expansion.

TABLE 5.6
Automotive Industry, Selected Current and Capital Account Transactions (1) Between Canada and the United States (\$C million) 1982-1985

| Type of Transaction | 1982 | 1983 | 1984 | 1985 |
| :--- | :--- | :--- | :--- | :--- | :--- |

United States Imports from Canada (2):

| Cars | 7 | 170 | 8 | 973 | 13 | 085 | 15 | 277 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Trucks, etc. | 3 | 946 | 4 | 437 | 5 | 880 | 6 | 422 |
| Parts | 5 | 308 | 7 | 775 | 10 | 885 | 12 | 104 |
| Tires and Tubes |  |  |  |  |  |  |  |  |
| tal | 16424 | 20885 | 29850 | 33 | 803 |  |  |  |

Canadian Imports from United States (3):

| Cars | 2 | 877 | 4 | 886 |  | 085 |  | 048 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Trucks, etc. |  | 873 | 1 | 129 | 2 | 039 | 2 | 504 |
| Parts | 9 | 829 | 11 | 671 | 15 | 791 | 17 | 752 |
| Tires and Tubes |  |  |  |  |  |  |  |  |
| Total | 13 | 579 | 17 | 686 | 23 | 915 | 28 | 304 |
| Net Flow on Merchandise Trade | +2 | 845 | +3 | 199 | +5 | 935 | +5 | 499 |
| ther Selected Current Account Transactions | - | 868 | - | 421 | -1 | 436 | -1 | 039 |
| et Flow on Current Account | +1 | 977 | +2 | 778 | +4 | 499 | +4 | 460 |

Capital Account Transactions
Net Flow on Capital Account $\quad-31-1286+107+160$
Net Flow on Current and Capital Account +1946 +1 492 +4 606 +4 620
(1) Items contained in the statement do not reflect the full range of current and capital flows associated with the automotive industry, but are a selection of important elements. Balances should be read with this qualification in mind.
(2) Data are converted on a monthly noon average exchange basis.
(3) Excluding special tooling charges on parts imported from United States.

This table presents data on the main current and capital account movements between Canada and the United States within the automotive sector. It covers the four major automobile manufacturers in Canada and other Canadian manufacturers of automotive parts and accessories.

## TABLE 5.6 (Cont'd)

The statement does not purport to show the complete balance of payments impact of the Automotive Products Agreements as, besides international freight costs which are generally excluded from the reported values of vehicles and parts, the effects on trade with third countries and other sectors of the economy are not covered.

In identifying the automotive industry for the purpose of this table, particular attention was paid to the manufacturers resident in Canada whose products could be identified in merchandise trade statistics. In addition to the automobile manufacturers, the data accordingly cover suppliers and product manufacturers engaged in the automotive after-market industries (where identifiable in balance of payments surveys).

Source: Statistics Canada.

## TABLE 5.7

Scheduled Tariffs Changes under the General Agreement on Trade and Tariffs for Most Favoured Nations Ad Valorem Rates of Duty, Tariff Ytems 43803-1 and 61815-1

|  | 1983 | 1984 | 1985 | 1986 | 1987 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Automobiles and motor vehicles of <br> all kinds; electric, trackless <br> trolley buses; chassis for all the <br> foregoing. (Tariff Item 43803-1) | 12.1 | 11.4 | 10.7 | 9.9 | 9.2 |
| Tires and tubes, wholly or in part <br> of rubber. (Tariff Item 61815-1) | 13.9 | 12.9 | 12.0 | 11.1 | 10.2 |

6. EMPLOYMENT

## TABLE 6.1

Employment Related to Automotive Manufacturing in Canada, 1964-1986 ('000)

| Calendar <br> Year | Motor-vehicle <br> Assembly <br> (SIC 323) | Truck Bodies \& Trailers (SIC 324) | Automotive Parts \& Acc. (SIC 325) | Automobile <br> Fabric \& Acc. <br> (SIC 188) | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1964 | 34.3 | 4.4 | 30.5 | 1.3 | 70.5 |
| 1965 | 39.8 | 5.8 | 35.3 | 1.9 | 82.8 |
| 1966 | 40.7 | 6.3 | 37.6 | 2.7 | 87.3 |
| 1967 | 38.7 | 6.7 | 37.7 | 2.6 | 85.7 |
| 1968 | 39.6 | 6.8 | 37.3 | 3.1 | 86.8 |
| 1969 | 42.3 | 8.2 | 40.4 | 4.1 | 95.0 |
| 1970 | 37.5 | 8.4 | 36.4 | 3.7 | 86.0 |
| 1971 | 41.0 | 10.1 | 41.3 | 4.3 | 96.7 |
| 1972 | 41.9 | 14.2 | 41.4 | 5.2 | 102.7 |
| 1973 | 45.2 | 14.8 | 48.8 | 5.8 | 114.6 |
| 1974 | 47.1 | 15.2 | 45.9 | 5.7 | 113.9 |
| 1975 | 43.4 | 14.4 | 41.2 | 4.8 | 103.8 |
| 1976 | 46.6 | 14.0 | 46.2 | 5.6 | 112.4 |
| 1977 | 50.6 | 12.6 | 48.6 | 6.5 | 118.3 |
| 1978 | 52.3 | 13.6 | 52.1 | 6.9 | 124.9 |
| 1979 | 52.6 | 14.8 | 49.8 | 6.6 | 123.8 |
| 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 | 129.1 |
| 1986 | 49.9 | 14.1 | 63.6 | 5.1 | 132.6 |

* Effective March, 1983, employment data is based on a sample survey rather than those firms with 20 or more employees as was the case prior to 1983. Accordingly, 1983 and later data cannot be compared with the historical employment data.

Source: Statistics Canada.

TABLE 6.2
Employment Related to Automotive Manufacturing in the U.S., 1972-1986 ('000)
$\left.\begin{array}{lccccc}\hline & \begin{array}{c}\text { Total Motor } \\ \text { Vehicles } \\ \text { And }\end{array} & \begin{array}{c}\text { Motor } \\ \text { YEAR }\end{array} & \begin{array}{c}\text { Equipment } \\ \text { (SIC 371) }\end{array} & \begin{array}{c}\text { Trucks } \\ \text { (SIC 37 Bus } \\ \text { Bodies }\end{array} & \begin{array}{c}\text { Parts } \\ \text { and } \\ \text { (SIC 3713) }\end{array}\end{array} \begin{array}{c}\text { Accessories } \\ \text { (SIC 3714) }\end{array} \quad \begin{array}{c}\text { Automotive } \\ \text { Stampings } \\ \text { (SIC 3465) }\end{array}\right]$

Source: U.S. Bureau of Labor Statistics.
Based on 1972 Standard Industrial Classification (SIC), annual average 1972-1986.

TABLE 6.3
Canadian Automotive Parts Industry by Number of Employees, 1985

| Number of <br> Employees | Number of <br> Establishments | Percent <br> of Total <br> Establishments | Value of <br> Shipments <br> (\$ million) | Percent <br> of Total <br> Shipments |
| :--- | :---: | :---: | :---: | :---: |
| Fewer than <br> 100 | 340 | 66.2 | 1007767 | 7.8 |
| $100-500$ | 139 | 27.0 | 3579323 | 27.7 |
| 500 or more | 34 | 6.8 | 8336380 | 64.5 |
| Total | 513 | 100.0 | 12923470 | 100.0 |

Source: Statistics Canada.
7. VEHICLE-ASSEMBLY AND PARTS-MANUFACTURING PLANTS IN CANADA

TABLE 7.1

# Major Motor-vehicle Assembly and Parts-manufacturing Plants in Canada 

Location Company/Plant Name $\quad$ Main Products

## British Columbia

| Burnaby | Freightliner of Canada Ltd. | Trucks |
| :--- | :--- | :--- |
| Kelowna | Western Star Trucks Inc. | Trucks |
| North Vancouver | Pacific Truck and Trailer Ltd. | Trucks |

## Manitoba

| Winnipeg | Flyer Industries Ltd. | Buses |
| :--- | :--- | :--- |
|  | Motor Coach Industries | Buses |

Ontario
Brampton American Motors (Canada) Ltd. Cars
Chatham Navistar Canada Trucks
Oakville Ford Motor Company of Cars
Canada, Ltd.: car-assembly plant
Ford truck plant Trucks
Oakville Mack Canada, Inc. Trucks
Oshawa General Motors of Canada Ltd.: Cars car-assembly plant

GM truck-assembly plant Trucks
Mississauga Ontario Bus Industries Ltd. Buses
Scarborough GM van plant Vans

TABLE 7.1 (continued)

## Major Motor-vehicle Assembly and Parts-manufacturing Plants in Canada

| Location | Company/Plant Name | Main Products |
| :---: | :---: | :---: |
| Ontario (continued) |  |  |
| St. Thomas | Ford Motor Company of Canada, Ltd. | Cars |
| Windsor | Chrysler Canada Ltd. | Vans and wagons |
|  | Chrysler Pillette Road plant | Vans and wagons |
| Bramalea | Chrysler Canada Ltd. | Eagle Division (cars) |
| Quebec |  |  |
| Saint-Eustache | GM Diesel Division coach plant | Buses |
| Sainte-Thérèse | ```Canadian Kenworth Company (a division of Paccar Canada Ltd.)``` | Trucks |
| Sainte-Thérèse | General Motors of Canada Ltd. | Cars |
| Pointe-Claire | Prévost Car, Inc. | Buses |
| Nova Scotia |  |  |
| Halifax | Volvo Canada Ltd. | Cars |

Source: Compiled from information supplied by the companies, the Motor Vehicle Manufacturers' Association and Statistics Canada.

TABLE 7.2
A Partial List of Major Automotive Parts Plants in Canada
Company/Plant Name Locations Main Products

## In-house facilities

American Motors (Canada) Inc. Sarnia, Ont. Blocks and casting

Chrysler Canada Ltd.

| Trim plant | Ajax, Ont. | Door panels seat <br> cushions, backs |
| :--- | :--- | :--- |
| Aluminum-casting plant | Etobicoke, Ont, | Pistons, water-pump <br> bodies, transmissions, <br> transfer cases |
| Ford Motor Company of Canada Ltd. |  |  |
| Niagara glass plant | Niagara Falls, | Automotive glass |
| Essex plant | Ont. | Windsor, Ont. |

TABLE 7.2 (continued)
A Partial List of Major Automotive Parts Plants in Canada

| Company Name | Locations | Main Products |
| :---: | :---: | :---: |
| Foreign-owned Independent Manufacturers (larger facilities) |  |  |
| AP Parts of Canada | Rexdale, Ont. | Mufflers, tail and exhaust pipes |
| Budd Canada Inc. | Kitchener, Ont. Winnipeg, Man. | Frames, engine heaters |
| Canadian Fram Limited | Chatham, Ont. | Emission controls, cooling systems |
| Certified Brakes | Rexdale, Ont. | Brake disc-pads, brake linings, hydraulic parts |
| Continental Group of Canada Ltd. | Amherstburg, N.S. Brampton, Ont. | Stampings, springs |
| Hayes-Dana Inc. | St. Catharines, Ont. Barrie, Ont. | Drive shafts, frames, axles |
| Kelsey-Hayes Canada Ltd. | Windsor, Ont. <br> St. Catharines, Ont. | Wheels, brake parts |
| Kralinator Filters | Cambridge, Ont. | Oil, fuel and air <br> filters |
| Motor Wheel Corporation of Canada Ltd. | Chatham, Ont. | Wheels, rims and flanges |
| Rockwell International of Canada Ltd. | La Colle, Que. Tilbury, Ont. Gananoque, Ont. Mississauga, Ont. Bracebridge, Ont. Chatham, Ont. Milton, Ont. | Coil springs, brakes, mechanical components stampings, plastic components |
| Standard Tube Canada Ltd. | Woodstock, Ont. | Axle components |
| Standard Products Canada | Stratford, Ont. | Weather stripping, engine and body mounts |
| TRW Canada, Thompson Products Division | St. Catharines, Ont. | Steering components, valves, electromechanical devices |
| Varta Batteries Ltd. | Lachine, Que. <br> Scarborough, Ont. <br> St. Thomas, Ont. <br> Winnipeg, Man. <br> Richmond, Man. | Batteries |
| Walker Exhausts | Cambridge, Ont. | Mufflers, tail and exhaust pipes |

TABLE 7.2 (continued)
A Partial List of Major Automotive Parts Plants in Canada

| Company Name | Locations | Main Products |
| :---: | :---: | :---: |
| Canadian-owned Companies |  |  |
| A.G. Simpson Co. Ltd. | Toronto, Ont. Windsor, Ont. | Stampings |
| Ahoy Industries Inc. | Richmond, B.C. | Truck exhaust-tubings |
| Amcan Castings Ltd. | Hamilton, Ont. | Die castings |
| Asbestonos | Montréal, Que. | Brake and clutch products |
| Butler Metal Products Co. Ltd. | Cambridge, Ont. | Stampings |
| CAE Industries Ltd. | St. Catharines, Ont. Montréal, Que. Welland, Ont. Vancouver, B.C. | Non-ferrous and lightalloy castings |
| Canadian-General Tower Ltd. | Cambridge, Ont. | Seat fabrics |
| Crila Plastic Industries Ltd. | Bolton, Ont. | Trim |
| Do Ray Lamp Company (Canada) | Toronto, Ont. | Truck lighting and safety equipment |
| Dominion Auto Accessories Ltd. | Toronto, Ont. | Protective lighting, mirrors, directional signals |
| Fabricated Steel Products Ltd. | Windsor, Ont. | Stampings |
| Fleck Manufacturing Company | Tillsonburg, Ont. Huron Park, Ont. | Wire harnesses |
| Huron Steel Products | Windsor, Ont. | Stampings |
| Kendan Manufacturing Ltd. | Windsor, Ont. | Diesel engine components |
| Keystone A\&A Industries Ltd. | Richmond, B.C. | Wheels and wheel covers |
| Magna International Incorporated | Markham, Ont. | Stampings, plastic components, motors, instrumentation |
| National Auto Radiator Manufacturing Co. | Windsor, Ont. | Stampings |
| Stelco Inc. <br> (parts manufacturing only) | Gananoque, Ont. Toronto, Ont. | Fasteners and forgings |

TABLE 7.2 (continued)

| A Partial List of Major |  |  |
| :--- | :--- | :--- |
|  | Automotive Parts Plants in Canada |  |
| Company Name | Locations | Main Products |

Canadian-Owned Companies (continued)

| Tamco Ltd. | Windsor, Ont. | Gear-shift levers, <br> steering-column jackets |
| :--- | :--- | :--- |
| Tridon Ltd. | Burlington, Ont. <br> Oakville, Ont. | Clamps, electronic <br> flashers, wiper blades |
| Waterville Cellular Products Ltd. | Waterville, Ont.Rubber products, padded <br> auto instrument panels |  |
| Woodbridge Foam Corporation | Toronto, Ont. | Sets, other foam rubber <br> components |

A comprehensive listing of Canadian parts manufacturers is available through the Automotive Parts Manufacturers Association.

TABLE 7.3

## AUTOMOTIVE PARTS

## Country

Japan

## Companies

Woodbridge Foam Corp./ Inoue MTP Co. Ltd.

TRW/Tokai Rika
Fuji Tool and Die/Magna International Inc.

Rockwell International Corp./Mitsubishi Steel

Fukuda Press Industry/Press Giken Kogyo

Yazaki Corp./VDO

Waterville Cellular/Toyoda Gosei Co.
Amada Co. Ltd.
Aida Engineering
Aclo Compounder Inc. (Purchased by Mitsubishi Corp.)

## Place

Woodbridge, Ontario

To be decided
Rexdale, Ontario

Lacolle, Quebec Chatham and Milton

Totteninam, Ontario

Barrie, Ontario

St. Jérome, Quebec
Oakville, Ontario
Mississauga, Ontario
Cambridge, Ontario

## Project

Finished auto seats and trim components

Manufacture of seat belts
Manufacture of press dies for cars

Automotive suspension components and systems

Fully integrated stamping, welding, painting and assembly of auto structural components

Speedometers, other instrument parts

Weather strips
Metal fabricating equipment

Stamping presses
Plastic compounds

$$
\mid
$$




[^0]:    * Standard Industrial Classification

    SOURCE: Statistics Canada.

[^1]:    * 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 counterpart United States statistics of imports.

