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ANNUAL



# RAILROAD ROLLING STOCK INDUSTRY

Formerly The Railway Rolling Stock Industry

1960

ANNUAL CENSUS  
OF MANUFACTURES

DOMINION BUREAU  
OF STATISTICS

AUG 27 1960

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The Honourable George Hees, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS  
Industry and Merchandising Division

August, 1960  
6523-537

Price 50 cents

### SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- \* revised figures.

## EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1960 are as follows:

### Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

### Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory; sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

### Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, ware-

housing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc. are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

### Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

### Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

### Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

### Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers



and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

### **Inventories**

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

### **Value added by Manufacturing**

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.<sup>1</sup>

### **Standard Industrial Classification**

The revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

<sup>1</sup> To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

### **Short Forms**

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

## RAILROAD ROLLING STOCK INDUSTRY

### 1960

Data presented in this report under the heading of Railroad Rolling Stock Industry reflect implementation of the revised Standard Industrial Classification (SIC) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 Industry Statistics—see item "Standard Industrial Classification" in the explanatory notes section of this report. For statistical purposes the industry titled Railroad Rolling Stock Industry in the revised Standard Industrial Classification covers the operation of establishments primarily engaged in building and rebuilding locomotives of any type or gauge and railroad cars (including frames and parts) for freight and passenger service. This industry includes establishments of railway companies similarly engaged in manufacturing or repairing locomotives and cars.

In many instances, adoption of the revised Standard Industrial Classification effected radical shifting of manufacturing establishments as between industry groupings. However, in the case of establishments engaged in manufacturing railroad rolling stock, changes brought about by the implementation of the revised Standard Industrial Classification were minimal as evidenced in the comparative

series of statistics presented in Tables 1 A and 1 B. Table 1 A shows data for these establishments according to the "old" concept while Table 1 B carries figures re-compiled on the "new" or revised Standard Industrial Classification basis.

There were 29 establishments classified in the Railroad Rolling Stock Industry, 1960; there being 11 in Ontario, 6 in Quebec, 5 in Manitoba and 7 in all other provinces. Employees in this industry numbered 18,256. Salaries and wages totalled \$77,069,849. Materials used in manufacturing processes cost \$124,501,102. Fuel and electricity cost \$3,782,545 and gross value of production was reported at \$212,076,967.

**Note:** Figures for value added by manufacture prior to 1960 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1960 the "value added" calculation takes into account the change in finished goods inventory to accommodate products such as parts for cars and locomotives, machinery, forgings and other miscellaneous equipment reported in terms of factory shipments rather than production.

**TABLE 1 A. Principal Statistics of the Railroad Rolling Stock Industry, Significant Years 1929 - 59**  
Basis: Standard Industrial Classification in use prior to 1960

| Year       | Estab-<br>lish-<br>ments | Em-<br>ployees | Salaries<br>and<br>wages | Cost of<br>fuel and<br>electricity<br>at plant | Cost of<br>materials<br>at plant | Value<br>added by<br>manufacture | Gross<br>value of<br>production |
|------------|--------------------------|----------------|--------------------------|--|----------------------------------|----------------------------------|---------------------------------|
|            | number                   |                |                          |  | dollars                          |                                  |                                 |
| 1929 ..... | 35                       | 25,488         | 38,311,179               | 2,570,981                                      | 74,156,037                       | 49,760,019                       | 126,487,037                     |
| 1933 ..... | 37                       | 16,172         | 14,584,021               | 1,535,225                                      | 13,574,592                       | 14,562,448                       | 29,672,265                      |
| 1937 ..... | 37                       | 21,496         | 29,187,157               | 2,090,074                                      | 56,191,146                       | 35,573,335                       | 93,854,555                      |
| 1939 ..... | 38                       | 17,569         | 25,050,559               | 1,882,557                                      | 34,070,884                       | 24,756,763                       | 60,710,204                      |
| 1945 ..... | 37                       | 30,515         | 61,793,939               | 4,181,244                                      | 84,264,315                       | 92,804,283                       | 181,249,842                     |
| 1946 ..... | 37                       | 28,553         | 57,815,845               | 3,567,097                                      | 83,937,365                       | 74,655,059                       | 162,159,521                     |
| 1949 ..... | 39                       | 32,410         | 82,135,159               | 4,471,448                                      | 133,053,860                      | 109,228,718                      | 246,754,026                     |
| 1955 ..... | 32                       | 25,400         | 86,257,623               | 3,940,088                                      | 139,475,062                      | 102,324,180                      | 245,739,330                     |
| 1956 ..... | 29                       | 28,118         | 100,729,171              | 4,394,127                                      | 207,028,080                      | 134,093,999                      | 345,516,206                     |
| 1957 ..... | 30                       | 27,909         | 104,168,142              | 4,415,818                                      | 241,830,731                      | 140,475,504                      | 386,722,053                     |
| 1958 ..... | 29                       | 22,374         | 87,953,769               | 4,006,379                                      | 188,155,709                      | 103,799,162                      | 295,961,250                     |
| 1959 ..... | 29                       | 20,248         | 83,680,309               | 3,566,466                                      | 163,814,494                      | 99,487,140                       | 266,868,100                     |

Note: Profits or losses cannot be calculated from above figures as data are not available for general expense items such as interest, rent, depreciation, taxes, insurance, advertising, etc.

**TABLE 1 B. Principal Statistics, Railroad Rolling Stock Industry, by Provinces 1957 - 1960**

Basis: Standard Industrial Classification revised 1960

| Year and province         | Estab-<br>lish-<br>ments | Em-<br>ployees | Salaries<br>and<br>wages | Cost of<br>fuel and<br>electricity<br>at plant | Cost of<br>materials<br>at plant | Value<br>added by<br>manufacture <sup>1</sup> | Gross<br>value of<br>production |
|---------------------------|--------------------------|----------------|--------------------------|--|----------------------------------|---|---------------------------------|
|                           | number                   |                |                          |  | dollars                          |   |                                 |
| <b>1957</b>               |                          |                |                          |  |                                  |   |                                 |
| Quebec .....              | 7                        | 12,826         | 46,807,754               | 2,374,213                                      | 107,096,620                      | 63,009,884                                    | 172,480,717                     |
| Ontario .....             | 13                       | 5,986          | 24,836,620               | 1,089,409                                      | 86,453,102                       | 46,058,765                                    | 133,601,276                     |
| Manitoba .....            | 4                        | 4,822          | 17,205,635               | 566,859  | 17,040,452                       | 16,626,328                                    | 34,233,639                      |
| All other provinces ..... | 7                        | 4,479          | 16,055,131               | 680,024  | 33,702,619                       | 16,806,212                                    | 51,188,855                      |
| <b>Canada</b> .....       | <b>31</b>                | <b>28,113</b>  | <b>104,905,140</b>       | <b>4,710,505</b>                               | <b>244,292,793</b>               | <b>142,501,189</b>                            | <b>391,504,487</b>              |
| <b>1958</b>               |                          |                |                          |  |                                  |   |                                 |
| Quebec .....              | 7                        | 9,990          | 38,946,419               | 2,331,193                                      | 84,476,227                       | 41,288,626                                    | 128,096,046                     |
| Ontario .....             | 11                       | 4,589          | 20,181,442               | 878,951  | 63,845,740                       | 32,428,317                                    | 97,153,008                      |
| Manitoba .....            | 4                        | 4,214          | 15,653,150               | 522,218  | 15,736,777                       | 16,610,902                                    | 32,869,897                      |
| All other provinces ..... | 7                        | 3,732          | 13,709,212               | 559,522  | 26,052,403                       | 15,530,641                                    | 42,142,566                      |
| <b>Canada</b> .....       | <b>29</b>                | <b>22,525</b>  | <b>88,490,223</b>        | <b>4,291,884</b>                               | <b>190,111,147</b>               | <b>105,858,486</b>                            | <b>300,261,517</b>              |
| <b>1959</b>               |                          |                |                          |  |                                  |   |                                 |
| Quebec .....              | 6                        | 9,277          | 37,672,118               | 1,934,394                                      | 72,794,242                       | 43,427,529                                    | 118,156,165                     |
| Ontario .....             | 12                       | 3,787          | 17,515,227               | 815,378  | 49,581,573                       | 27,097,295                                    | 77,494,246                      |
| Manitoba .....            | 5                        | 3,833          | 15,503,447               | 628,590  | 18,286,075                       | 16,747,950                                    | 35,662,615                      |
| All other provinces ..... | 7                        | 3,549          | 13,928,464               | 511,448  | 25,129,770                       | 14,246,824                                    | 39,888,042                      |
| <b>Canada</b> .....       | <b>30</b>                | <b>20,446</b>  | <b>84,619,256</b>        | <b>3,889,810</b>                               | <b>165,791,660</b>               | <b>101,519,598</b>                            | <b>271,201,068</b>              |
| <b>1960</b>               |                          |                |                          |  |                                  |   |                                 |
| Quebec .....              | 6                        | 8,706          | 36,213,699               | 1,787,034                                      | 59,901,565                       | 35,955,264                                    | 97,649,681                      |
| Ontario .....             | 11                       | 3,020          | 14,394,265               | 711,670  | 25,088,770                       | 17,191,889                                    | 44,753,355                      |
| Manitoba .....            | 5                        | 3,510          | 13,954,172               | 735,442  | 18,055,553                       | 16,773,561                                    | 35,466,660                      |
| All other provinces ..... | 7                        | 3,020          | 12,507,713               | 548,399  | 21,455,214                       | 12,210,984                                    | 34,207,271                      |
| <b>Canada</b> .....       | <b>29</b>                | <b>18,256</b>  | <b>77,069,849</b>        | <b>3,782,545</b>                               | <b>124,501,102</b>               | <b>82,131,698</b>                             | <b>212,076,967</b>              |

<sup>1</sup> Value added — see note in text.



TABLE 2. Inventories<sup>1</sup>: Railroad Rolling Stock Industry, 1960

|                           | Raw materials and supplies | Goods in process | Finished goods of own manufacture | Total             |
|---------------------------|----------------------------|------------------|-----------------------------------|-------------------|
|                           | dollars                    |                  |                                   |                   |
| Opening:                  |                            |                  |                                   |                   |
| Quebec .....              | 16,685,883                 | 2,657,183        | 153,953                           | 19,497,019        |
| Ontario .....             | 4,809,710                  | 4,389,447        | 2,902,612                         | 12,101,769        |
| Manitoba .....            | 6,513,725                  | 338,098          | 259,720                           | 7,111,543         |
| All other provinces ..... | 4,057,427                  | 61,396           | 10,861                            | 4,129,684         |
| <b>Canada .....</b>       | <b>32,066,745</b>          | <b>7,446,124</b> | <b>3,327,146</b>                  | <b>42,840,015</b> |
| Closing:                  |                            |                  |                                   |                   |
| Quebec .....              | 16,027,104                 | 1,541,420        | 148,135                           | 17,716,659        |
| Ontario .....             | 3,363,709                  | 2,408,005        | 1,141,586                         | 6,913,300         |
| Manitoba .....            | 5,331,950                  | 120,226          | 357,616                           | 5,809,792         |
| All other provinces ..... | 3,567,985                  | 82,270           | 18,187                            | 3,668,442         |
| <b>Canada .....</b>       | <b>28,290,748</b>          | <b>4,151,921</b> | <b>1,665,524</b>                  | <b>34,108,193</b> |

<sup>1</sup> Book value of all manufacturing inventories owned and held at plant and plant warehouses.

TABLE 3. Products Manufactured in the Railroad Rolling Stock Industry, 1960

| Products  | Quantity  | Selling value at works |
|---|-----------|------------------------|
|   |           | \$                     |
| Railway cars (standard gauge only):   |           |                        |
| Passenger .....   | —         | —                      |
| Freight—Automobile .....  | —         | —                      |
| Ballast .....   | —         | —                      |
| Box .....   | No. 1,337 | 11,974,799             |
| Flat .....  | " 765     | 7,230,015              |
| Gondola .....   | —         | —                      |
| Hopper .....  | No. 110   | 1,203,699              |
| Ore .....   | " 30      | 355,777                |
| Refrigerator .....  | " 5       | 217,500                |
| Stock .....   | —         | —                      |
| Tank .....  | No. 78    | 1,433,462              |
| Other .....   | " 133     | 2,305,113              |
| Cars, trucks and trailers, narrow gauge (for mines, quarries, etc.) .....                                 | " 250     | 367,250                |
| Locomotives, small size, for mines, etc. new .....  | " 10      | 1,149,494              |
| Locomotives, diesel-electric, standard gauge, new .....   | " 162     | 28,039,874             |
| Railway car and locomotive parts:   |           |                        |
| Brakes, brake beams, brake shoes and parts .....  | —         | 2,565,417              |
| All other car and locomotive parts (wheels, springs, etc.) .....  | —         | 16,699,063             |
| Miscellaneous products:   |           |                        |
| Castings, grey iron .....   | ton 1,746 | 632,751                |
| Machinery .....   | —         | 1,270,661              |
| Railway track equipment .....   | —         | 1,119,043              |
| Repairs on freight cars (value of work done) .....  | —         | 29,991,138             |
| Repairs on passenger cars (value of work done) .....  | —         | 10,381,100             |
| Repairs on locomotives (value of work done) .....   | —         | 17,167,450             |
| Amount received for other repair work .....   | —         | 28,006,062             |
| All other products .....  | —         | 52,919,455             |
| Amount received in payment for work done on materials owned by others .....                               | —         | 298,603                |
| <b>Total value of above items .....</b>   |           | <b>215,327,726</b>     |
| Add value of work done in 1960 on locomotives, cars, etc. which were not completed at year end .....      | —         | 5,615,346              |
| Deduct value of work done in previous years on locomotives, cars, etc. which were completed in 1960 ..... | —         | 8,866,105              |
| <b>Total net value 1960 .....</b>   |           | <b>212,076,967</b>     |

TABLE 4. Materials Used: Railroad Rolling Stock Industry, 1960

| Material  |           | Quantity  | Cost at works      |
|---|-----------|-----------|--------------------|
|   |           |           | \$                 |
| Iron and steel:   |           |           |                    |
| Pig iron .....  | ton       | 1,801     | 108,582            |
| Bars and rods, steel .....                                | "         | 9,132     | 1,632,187          |
| Wire, steel .....   | "         | 218       | 47,635             |
| Plates, steel .....                                       | "         | 29,245    | 4,230,833          |
| Sheets—Plain .....  | "         | 4,065     | 579,295            |
| Galvanized .....  | "         | 1,638     | 317,880            |
| Strip, steel .....  | "         | 108       | 18,774             |
| Structural shapes, steel .....                            | "         | 16,114    | 2,297,809          |
| Alloy steel .....   | "         | ...       | 542,214            |
| Scrap iron and steel .....                                | ton       | 120,441   | 4,298,757          |
| Castings (rough and semi-finished received from foundry): |           |           |                    |
| Iron (gray and malleable) .....                           | "         | 2,231     | 751,669            |
| Steel .....   | "         | 4,992     | 2,196,994          |
| Other iron and steel .....                                | "         | ...       | 2,304,098          |
| Non-ferrous metals:                                       |           |           |                    |
| Aluminum—Castings .....                                   | lb.       | 230,859   | 149,669            |
| Sheet .....   | "         | 1,118,284 | 533,416            |
| Other Forms .....   | "         | 391,521   | 189,127            |
| Brass and bronze .....                                    | "         | 3,747,673 | 2,614,799          |
| Copper—Sheet .....  | "         | 22,075    | 17,368             |
| Wire .....  | "         | 79        | 56                 |
| Other forms .....   | "         | 151,501   | 74,608             |
| Lead .....  | "         | 45,512    | 12,293             |
| Nickel .....  | "         | 7,361     | 6,433              |
| Tin .....   | "         | 26,524    | 31,866             |
| Zinc .....  | "         | 64,615    | 22,086             |
| Babbitt metal and solder .....                            | "         | 285,834   | 117,913            |
| Other non-ferrous metals .....                            | "         | ...       | 64,127             |
| Ferro-alloys .....  |           |           | 367,916            |
| Other materials and supplies:                             |           |           |                    |
| Iron and steel pipe, tubes and fittings .....             |           | ...       | 1,982,369          |
| Paints, oil and varnishes .....                           |           | ...       | 754,059            |
| Wheels .....  |           | ...       | 11,552,331         |
| Springs .....   |           | ...       | 520,241            |
| Other car and locomotive parts .....                      |           | ...       | 23,537,528         |
| Foundry coke .....  | ton       | 13,966    | 483,472            |
| Moulding sands .....                                      | "         | 3,728     | 50,211             |
| Core sands .....  | "         | 3,369     | 34,427             |
| Plumbago and graphite .....                               | lb.       | 49,212    | 5,930              |
| Lumber .....  | M bd. ft. | 25,695    | 2,746,507          |
| Firebrick and cupola blocks .....                         |           | ...       | 48,205             |
| Fireclay .....  | ton       | 330       | 9,364              |
| Core oil .....  | Imp. gal. | 2,060     | 2,264              |
| All other materials .....                                 |           | ...       | 59,265,790         |
| <b>Totals</b> .....                                       |           | ...       | <b>124,501,102</b> |

TABLE 5. Factory Shipments of Railway Spikes, from All Industries, 1951-60

| Year       | Tonnage sold | Value of factory shipments |
|------------|--------------|----------------------------|
|            | tons         | dollars                    |
| 1951 ..... | 17,068       | 2,142,668                  |
| 1952 ..... | 16,950       | 2,396,596                  |
| 1953 ..... | 14,401       | 2,087,052                  |
| 1954 ..... | 11,393       | 1,685,033                  |
| 1955 ..... | 14,380       | 2,159,331                  |
| 1956 ..... | 18,817       | 3,235,704                  |
| 1957 ..... | 12,358       | 2,293,294                  |
| 1958 ..... | 13,200       | 2,625,868                  |
| 1959 ..... | 13,019       | 2,526,755                  |
| 1960 ..... | 7,072        | 1,426,100                  |



TABLE 6. Production of Railway cars and Locomotives, from All Industries, 1951 - 60

| Year       | Standard railway Cars |                           | Locomotives |                           |
|------------|-----------------------|---------------------------|-------------|---------------------------|
|            | Number                | Gross value of production | Number      | Gross value of production |
|            |                       |                           |             |                           |
|            |                       | \$                        |             | \$                        |
| 1951 ..... | 10,613                | 75,428,547                | 267         | 41,893,150                |
| 1952 ..... | 11,954                | 92,258,661                | 226         | 38,306,186                |
| 1953 ..... | 8,464                 | 85,879,182                | 260         | 42,259,233                |
| 1954 ..... | 8,287                 | 88,394,512                | 244         | 41,105,438                |
| 1955 ..... | 3,736                 | 27,821,586                | 362         | 59,692,536                |
| 1956 ..... | 9,221                 | 70,980,820                | 488         | 78,220,162                |
| 1957 ..... | 10,475                | 98,665,682 <sup>r</sup>   | 521         | 94,417,333                |
| 1958 ..... | 5,313                 | 64,126,138                | 417         | 75,229,711                |
| 1959 ..... | 3,585                 | 40,370,183                | 375         | 66,573,422                |
| 1960 ..... | 2,510                 | 25,396,966                | 172         | 29,189,368                |

TABLE 7. Factory Shipments of Finished Rail Fastenings, from All Industries, 1951 - 60

| Year       | Tie plates    |                   |                    | Fish plates or splice bars |                   |                    |
|------------|---------------|-------------------|--------------------|----------------------------|-------------------|--------------------|
|            | Quantity made | Factory shipments |                    | Quantity made              | Factory shipments |                    |
|            |               | Quantity          | Value of shipments |                            | Quantity          | Value of shipments |
|            | tons          |                   | \$                 | tons                       |                   | \$                 |
| 1951 ..... | 67,588        | 66,783            | 6,464,668          | 18,655                     | 18,577            | 2,008,149          |
| 1952 ..... | 74,519        | 73,605            | 7,822,057          | 16,344                     | 15,803            | 1,891,455          |
| 1953 ..... | 50,181        | 50,202            | 5,530,240          | 14,939                     | 14,159            | 1,754,308          |
| 1954 ..... | 39,386        | 38,027            | 4,152,574          | 13,175                     | 12,786            | 1,545,914          |
| 1955 ..... | 66,856        | 67,683            | 7,272,282          | 15,582                     | 16,812            | 1,986,547          |
| 1956 ..... | 88,590        | 86,592            | 10,103,650         | 18,487                     | 18,675            | 2,465,669          |
| 1957 ..... | 78,555        | 80,575            | 10,148,065         | 17,022                     | 16,793            | 2,502,295          |
| 1958 ..... | 56,118        | 56,189            | 7,338,111          | 14,078                     | 14,088            | 2,066,763          |
| 1959 ..... | 70,376        | 70,351            | 8,970,082          | 14,853                     | 14,818            | 2,212,917          |
| 1960 ..... | 36,028        | 36,108            | 4,787,831          | 11,256                     | 11,133            | 1,684,824          |

TABLE 8. Principal Statistics classified according to Type of Ownership:  
Railroad Rolling Stock Industry, 1957 and 1960

| Type                         | Estab-<br>lish-<br>ments | Employees | Salaries<br>and<br>wages | Cost at plant<br>of materials<br>used | Gross value<br>of production |
|------------------------------|--------------------------|-----------|--------------------------|---------------------------------------|------------------------------|
|                              | number                   |           |                          | dollars                               |                              |
| 1957                         |                          |           |                          |                                       |                              |
| Incorporated companies ..... | 31                       | 28,113    | 104,905,140              | 244,292,793                           | 391,504,487                  |
| Totals .....                 | 31                       | 28,113    | 104,905,140              | 244,292,793                           | 391,504,487                  |
| 1960                         |                          |           |                          |                                       |                              |
| Incorporated companies ..... | 29                       | 18,256    | 77,069,849               | 124,501,102                           | 212,076,967                  |
| Totals .....                 | 29                       | 18,256    | 77,069,849               | 124,501,102                           | 212,076,967                  |

TABLE 9. Principal Statistics grouped according to Value of Production:  
Railroad Rolling Stock Industry, 1957 and 1960

| Establishments reporting<br>value of production | Estab-<br>lish-<br>ments | Employees     | Salaries<br>and<br>wages | Cost at plant<br>of materials<br>used | Gross value<br>of production |
|---|--------------------------|---------------|--------------------------|---------------------------------------|------------------------------|
|   | number                   |               | dollars                  |                                       |                              |
| 1957  |                          |               |                          |                                       |                              |
| \$ 100,000 to \$ 199,999 .....                  | —                        | 295           | 1,042,792                | 2,498,742                             | 3,320,831                    |
| 200,000 " 499,999 .....                         | 1                        |               |                          |                                       |                              |
| 500,000 " 999,999 .....                         | 5                        |               |                          |                                       |                              |
| 1,000,000 " 4,999,999 .....                     | 9                        | 2,434         | 8,487,496                | 12,112,243                            | 23,418,123                   |
| 5,000,000 and over .....                        | 16                       | 25,384        | 95,374,852               | 229,681,808                           | 364,165,480                  |
| <b>Totals</b> .....                             | <b>31</b>                | <b>28,113</b> | <b>104,905,140</b>       | <b>244,292,793</b>                    | <b>391,504,487</b>           |
| 1960  |                          |               |                          |                                       |                              |
| \$ 100,000 to \$ 199,999 .....                  | 1                        | 249           | 1,007,833                | 1,562,937                             | 2,748,075                    |
| 200,000 " 499,999 .....                         | 1                        |               |                          |                                       |                              |
| 500,000 " 999,999 .....                         | 3                        |               |                          |                                       |                              |
| 1,000,000 " 4,999,999 .....                     | 13                       | 3,364         | 14,025,706               | 15,098,077                            | 35,994,135                   |
| 5,000,000 and over .....                        | 11                       | 14,643        | 62,036,310               | 107,840,088                           | 173,364,757                  |
| <b>Totals</b> .....                             | <b>29</b>                | <b>18,256</b> | <b>77,069,849</b>        | <b>124,501,102</b>                    | <b>212,076,957</b>           |

TABLE 10. Employees and their Earnings: Railroad Rolling Stock Industry, 1959 and 1960

| Province                  | Employees   |        |          |        |        | Salaries   | Wages      | Total<br>salaries<br>and wages |
|---------------------------|-------------|--------|----------|--------|--------|------------|------------|--------------------------------|
|                           | On salaries |        | On wages |        | Total  |            |            |                                |
|                           | Male        | Female | Male     | Female |        |            |            |                                |
| 1959                      | number      |        |          |        |        | dollars    |            |                                |
| Quebec .....              | 1,068       | 88     | 8,105    | 16     | 9,277  | 6,701,159  | 30,970,950 | 37,672,109                     |
| Ontario .....             | 741         | 152    | 2,879    | 15     | 3,787  | 5,505,281  | 12,009,946 | 17,515,227                     |
| Manitoba .....            | 293         | 8      | 3,532    | —      | 3,833  | 1,657,730  | 13,845,717 | 15,503,447                     |
| All other provinces ..... | 331         | 12     | 3,200    | 6      | 3,549  | 1,669,987  | 12,258,477 | 13,928,464                     |
| Canada .....              | 2,433       | 260    | 17,716   | 37     | 20,446 | 15,534,157 | 69,085,099 | 84,619,256                     |
| 1960                      |             |        |          |        |        |            |            |                                |
| Quebec .....              | 1,107       | 106    | 7,485    | 8      | 8,706  | 7,582,255  | 28,631,444 | 36,213,699                     |
| Ontario .....             | 663         | 135    | 2,203    | 19     | 3,020  | 5,140,293  | 9,253,972  | 14,394,265                     |
| Manitoba .....            | 285         | 9      | 3,216    | —      | 3,510  | 1,548,795  | 12,405,377 | 13,954,172                     |
| All other provinces ..... | 301         | 14     | 2,699    | 6      | 3,020  | 1,606,469  | 10,901,244 | 12,507,713                     |
| Canada .....              | 2,356       | 264    | 15,603   | 33     | 18,256 | 15,877,812 | 61,192,037 | 77,069,849                     |

TABLE 11. Production Workers, by Month: Railroad Rolling Stock Industry, 1960

| Month                 | Male          | Female    | Total         |
|-----------------------|---------------|-----------|---------------|
|                       | number        |           |               |
| January .....         | 15,619        | 32        | 15,651        |
| February .....        | 15,612        | 29        | 15,641        |
| March .....           | 16,139        | 39        | 16,178        |
| April .....           | 16,460        | 43        | 16,503        |
| May .....             | 16,486        | 45        | 16,531        |
| June .....            | 17,229        | 47        | 17,276        |
| July .....            | 16,048        | 37        | 16,085        |
| August .....          | 15,400        | 30        | 15,430        |
| September .....       | 15,216        | 26        | 15,242        |
| October .....         | 14,828        | 24        | 14,852        |
| November .....        | 14,470        | 25        | 14,495        |
| December .....        | 13,718        | 25        | 13,743        |
| <b>Averages</b> ..... | <b>15,603</b> | <b>33</b> | <b>15,636</b> |

TABLE 12. Fuel and Electricity Used: Railroad Rolling Stock Industry, 1960

| Kind   |            | Quantity    | Cost at works    |
|--|------------|-------------|------------------|
|  |            |             | \$               |
| Bituminous coal—From Canadian mines .....                  | ton        | 27,692      | 282,111          |
| Imported .....   | "          | 69,433      | 690,453          |
| Anthracite coal .....                                      | "          | 10,669      | 112,101          |
| Lignite coal .....   | "          | 96,031      | 194,190          |
| Coke (for fuel only) .....                                 | "          | 189         | 5,484            |
| Gasoline (including gasoline used in cars or trucks) ..... | Imp. gal.  | 208,615     | 62,348           |
| Fuel oil (including kerosene or coal oil) .....            | "          | 8,571,427   | 833,846          |
| Wood .....   | cord       | 2           | 14               |
| Gas—Liquefied petroleum gases (propane etc.) .....         | Imp. gal.  | 252,960     | 28,968           |
| Manufactured .....   | M. cu. ft. | 1,399       | 1,504            |
| Natural .....  | "          | 295,032     | 118,946          |
| Other fuel .....   | "          | "           | 8,560            |
| Electricity purchased .....                                | kwh.       | 170,512,041 | 1,444,020        |
| <b>Totals</b> .....  |            | ...         | <b>3,782,545</b> |
| Electricity generated for own use .....                    | kwh.       | 5,010       | —                |

TABLE 13. Imports and Exports of Railroad Rolling Stock, 1959 and 1960

| Import and export class | Commodities  | 1959       |           | 1960     |           |
|-------------------------|--|------------|-----------|----------|-----------|
|                         |  | Quantity   | Value     | Quantity | Value     |
|                         |  |            | \$        |          | \$        |
|                         | <b>Imports</b>   |            |           |          |           |
| 5653                    | Railway cars:  |            |           |          |           |
|                         | Box and flat .....   | No. 80     | 123,861   | 75       | 146,467   |
| 5655                    | Tank .....   | " 40       | 86,037    | 109      | 310,592   |
| 5654                    | Passenger .....  | " 36       | 471,377   | 4        | 10,768    |
| 5656                    | Other .....  | " 466      | 621,407   | 475      | 600,380   |
| 5657                    | Railway car parts .....  | ...        | 4,183,236 | ...      | 2,773,039 |
| 5658                    | Motor rail cars or units for use on railways and chassis for same, and parts .....   | No. 8      | 897,080   | 7        | 745,195   |
| 5255                    | Railway locomotives .....  | " 10       | 202,797   | 33       | 503,785   |
| 5256                    | Locomotive chassis, tops, wheels and bodies .....  | —          | 2,225,610 | ...      | 1,515,224 |
| 5257                    | Locomotives and motor cars for railways, of a class or kind not made in Canada, for sawmill, mining or metallurgical operations, and complete parts; also Diesel switching locomotives of a class or kind not made in Canada ..... | No. 73     | 1,271,925 | 54       | 1,532,346 |
| 5057                    | Steel wheels, other, for use on railway rolling stock .....  | ..         | 4,143,857 | ..       | 1,377,663 |
| 5055                    | Tires of steel, in the rough, not drilled or machined in any manner, for railway vehicles .....  | cwt. 1,672 | 20,356    | 2,520    | 31,693    |
|                         | <b>Exports</b>   |            |           |          |           |
| 5840                    | Railway cars and coaches, and parts .....  | No. 108    | 907,744   | 19       | 1,175,672 |
| 5270                    | Locomotives and parts .....  | " 13       | 699,573   | 4        | 435,350   |

Note: These data are published monthly in "Trade of Canada—Imports" (Cat. no.65-007), and "Trade of Canada—Exports" (Cat. no.65-004), which also shows the details of shipments by countries.





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## List of Firms: Railroad Rolling Stock Industry, 1960

| Name   | Location of works                  |
|--|------------------------------------|
| <b>Newfoundland:</b>                               |                                    |
| Canadian National Railways .....                   | St. John's                         |
| <b>Nova Scotia:</b>                                |                                    |
| Canada Iron Foundries Ltd. ....                    | Trenton                            |
| Dominion Steel & Coal Corporation Ltd. ....        | Trenton                            |
| <b>New Brunswick:</b>                              |                                    |
| Canadian National Railways .....                   | Moncton                            |
| <b>Quebec:</b>                                     |                                    |
| Canadian Car Company Limited .....                 | Ville St-Pierre                    |
| Canadian National Railway Company .....            | Pointe St-Charles                  |
| Canadian Pacific Railway Company .....             | Montreal                           |
| B.J. Coghlin Company Limited .....                 | 3320 Ontario Street East, Montreal |
| Griffin Steel Foundries Ltd. ....                  | St. Hyacinthe                      |
| <b>Ontario:</b>                                    |                                    |
| Buffalo Brake Beam Company .....                   | 21 Dunbar Avenue, Hamilton         |
| Canada Iron Foundries Limited .....                | St. Thomas                         |
| Canadian Locomotive Co. Limited .....              | 140 Ontario Street, Kingston       |
| Canadian National Railways .....                   | Florence Street, London            |
| Canadian National Railways .....                   | 256 Downie Street, Stratford       |
| Canadian Pacific Railway Company .....             | West Toronto                       |
| Canadian Westinghouse Co. Ltd. ....                | 286 Sanford Ave., Hamilton         |
| Fairmont Railway Motors Limited .....              | Montfair Ave., Toronto             |
| General Motors Diesel Limited .....                | Oxford Street, East, London        |
| National Steel Car Corporation Limited .....       | Kenilworth Avenue North, Hamilton  |
| The Sylvester Steel Products Company Limited ..... | 1 Victoria Avenue South, Lindsay   |
| <b>Manitoba:</b>                                   |                                    |
| Canada Iron Foundries Limited .....                | St. Boniface                       |
| Canadian National Railways .....                   | Fort Rouge                         |
| Canadian National Railways .....                   | Transcona                          |
| Canadian Pacific Railway Company .....             | Winnipeg                           |
| Griffin Steel Foundries Ltd. ....                  | Transcona                          |
| <b>Alberta:</b>                                    |                                    |
| Canadian National Railways .....                   | Edmonton North                     |
| Canadian Pacific Railway Company .....             | Calgary                            |
| <b>British Columbia:</b>                           |                                    |
| Canadian Pacific Railway Company .....             | Foot of Drake Street, Vancouver    |