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THE RAILWAY ROLLING STOCK INDUSTRY 1954



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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50
- II—The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
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- VII—Textile Mills
- VIII—Knitting Mills
- IX—Clothing
- X—Wood and Paper Products
- XI—Printing Trades
- XII—Iron and Steel Products
- XIII—Transportation Equipment
- XIV—Non-ferrous Metal Products
- XV—Electrical Apparatus and Supplies
- XVI—Non-metallic Mineral Products
- XVII—Products of Petroleum and Coal
- XVIII—Chemicals and Allied Products
- XIX—Miscellaneous Manufactures

The present report belongs in Part XIII, Transportation Equipment. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review, 25¢
- B—The Aircraft and Parts Industry, 25¢
- C—The Bicycle Manufacturing Industry, 25¢
- D—The Boat Building Industry, 25¢
- E—The Motor Vehicles Industry, 25¢
- F—The Motor Vehicle Parts Industry, 25¢
- G—The Railway Rolling Stock Industry, 25¢
- H—The Shipbuilding Industry, 25¢
- I—The Miscellaneous Transportation Equipment Industry, 25¢

THE RAILWAY ROLLING STOCK INDUSTRY

1954

This industry includes all establishments which were occupied chiefly in making railway cars and locomotives, or in making parts for same, such as wheels, brakes, tires, bolsters, springs, etc. The principal repair shops of the Canadian National Railways and the Canadian Pacific Railways are also included.

Production in 1954 was valued at \$283,398,567, a decline of 16.2 per cent from the corresponding total of \$338,321,229 for 1953. Output included new railway cars valued at \$88,394,512, new locomotives at \$41,105,438 and other lines, such as railway car

wheels, parts for railway cars and locomotives, repair work, etc.

Thirty-six establishments were in operation in this group in 1954, there being 16 in Ontario, 8 in Quebec, 4 in Manitoba, 3 in Nova Scotia, 3 in Alberta, 1 in New Brunswick and 1 in British Columbia. Only the larger repair shops were included.

Employees in 1954 numbered 29,214 and salaries and wages for the year totalled \$96,862,444. Materials used in manufacturing or repair work cost \$162,219,587 and fuel and power costs amounted to \$4,442,645.

TABLE 1. Principal Statistics of the Railway Rolling Stock Industry, Significant Years 1929-1954, and by Provinces, 1953 and 1954

Year and province	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture	Gross selling value of products
	No.	No.	\$	\$	\$	\$	\$
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
1950	38	29,257	73,356,659	4,156,966	110,373,110	79,756,161	194,286,237
1951	37	33,410	94,028,834	4,767,123	175,964,789	119,895,329	300,627,241
1952	36	36,084	108,318,766	4,783,760	181,620,234	145,760,789	332,164,783
1953							
Nova Scotia and New Brunswick....	4	2,724	8,704,839	514,260	18,452,835	11,292,846	30,259,941
Quebec	9	16,844	55,974,465	2,314,950	80,207,737	74,420,630	156,943,317
Ontario	15	7,195	25,365,544	1,153,790	51,182,024	39,350,894	91,686,708
Manitoba	4	6,154	19,919,048	496,762	19,935,570	20,550,955	40,983,287
Alberta and British Columbia	4	2,530	8,062,454	271,431	10,114,091	8,062,454	18,447,976
Total	36	35,447	118,026,350	4,751,193	179,892,257	153,677,779	338,321,229
1954							
Nova Scotia and New Brunswick....	4	2,156	6,921,312	454,068	14,007,333	8,937,820	23,399,221
Quebec	8	13,540	44,198,754	2,175,601	78,753,045	43,470,733	124,399,379
Ontario	16	6,448	23,158,008	1,083,711	47,588,338	41,076,400	89,748,449
Manitoba	4	4,959	15,914,826	479,146	14,309,171	16,581,838	31,370,155
Alberta and British Columbia	4	2,111	6,669,544	250,119	7,561,700	6,669,544	14,481,363
Canada	36	29,214	96,862,444	4,442,645	162,219,587	116,736,335	283,398,567

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.

TRANSPORTATION EQUIPMENT

TABLE 2. Inventories¹, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Nova Scotia and New Brunswick.....	725,135	4,049,418	282,770	5,057,323
Quebec	19,536,311	12,103,266	711,243	32,350,820
Ontario	14,894,198	5,219,688	1,918,932	22,032,818
Manitoba	9,495,497	204,745	86,000	9,786,242
British Columbia and Alberta	3,380,704	2,672	—	3,383,376
Canada	48,031,845	21,579,789	2,998,945	72,610,579
Closing:				
Nova Scotia and New Brunswick.....	735,098	205,339	108,936	1,049,373
Quebec	15,685,618	5,261,286	736,619	21,683,523
Ontario	9,639,057	5,230,376	1,714,590	16,584,023
Manitoba	6,328,671	122,892	90,250	6,541,813
British Columbia and Alberta	2,518,096	2,447	—	2,520,543
Canada	34,906,540	10,822,340	2,650,395	48,379,275

1. (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Railway Rolling Stock Industry for the year under review are shown in the above table.

TABLE 3. Products Manufactured in the Railway Rolling Stock Industry, 1953 and 1954

Product	1953		1954	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Brakes, brake beams, brake shoes and parts	—	2,481,071	—	2,338,584
Cars, railway, complete:				
Passenger	No. 206	14,821,404	253	28,780,272
Freight:				
Box (except refrigerator)	No. 3,350	22,522,573	4,490	30,022,108
Caboose	—	—	50	640,552
Flat	276	1,789,803	325	2,206,877
Gondola	1,111	8,300,946	1,025	7,910,135
Refrigerator	852	13,835,879	230	4,020,229
Tank	58	932,340	90	1,026,864
All other types	2,611	23,676,237	1,824	13,787,475
Cars, narrow gauge, for mines, quarries, etc.	948	1,170,280	243	308,571
Locomotives, standard steam railway, new	—	—	—	—
Locomotives, diesel-electric, standard gauge, new ..	No. 260	42,259,233	244	41,105,438
Wheels for railway cars	tons 104,858	7,307,851	82,844	5,458,124
Castings, grey iron (sold)	tons 12,038	2,673,833	9,349	2,080,786
Forgings (sold)	—	1,353,101	—	1,297,908
Other parts for cars and locomotives	—	12,135,253	—	18,585,580
Scrap iron and steel	tons 250	4,514	1	—
Repairs on freight cars	—	31,487,833	—	27,375,658
Repairs on passenger cars	—	19,407,560	—	16,670,666
Repairs on locomotives	—	43,310,135	—	27,709,047
Receipts from other custom and repair work	—	34,691,644	—	32,820,718
All other products	—	46,318,151	—	30,361,824
Total of above items	—	330,479,641	—	294,507,416
Add value of work done during year on cars, etc., which were not complete at year-end	—	27,731,498	—	12,155,121
Total	—	358,211,139	—	306,662,537
Deduct value of work done in previous years on cars, etc., completed during current year	—	19,889,910	—	23,263,970
Total value of production	—	338,321,229	—	283,398,567

1. Not available separately.

TABLE 4. Materials Used in the Railway Rolling Stock Industry, 1953 and 1954

Material		1953		1954	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Iron and steel:					
Pig iron.....	tons	9,797	597,985	4,679	271,374
Bars and rods, steel.....	"	45,587	5,027,376	28,231	3,030,836
Wire, steel.....	"	1,007	181,063	600	101,711
Plates, steel.....	"	55,775	6,809,722	49,000	5,452,132
Sheets - Plain.....	"	13,171	1,634,000	12,313	1,664,932
Galvanized.....	"	8,779	1,334,581	4,825	856,811
Strip, steel.....	"	1,214	145,292	1,255	162,506
Structural shapes, steel.....	"	28,190	3,845,850	36,072	4,217,502
Alloy steel.....	—	—	488,031	—	289,135
Scrap iron and steel.....	tons	161,812	4,386,400	126,625	3,264,819
Other iron and steel.....	—	—	13,408,701	—	9,329,667
Non-ferrous metals:					
Aluminum - Castings.....	pounds	123,674	105,705	47,481	36,172
Sheet.....	"	95,319	36,601	273,435	98,217
Other forms.....	"	154,918	80,283	102,235	78,926
Brass and bronze.....	"	14,979,096	6,695,394	11,114,370	4,450,986
Copper - Sheet.....	"	154,255	71,757	98,819	41,870
Wire.....	"	100,047	72,801	158,546	132,489
Other forms.....	"	163,614	85,217	137,139	77,900
Lead.....	"	64,501	22,547	31,873	15,395
Nickel.....	"	22,371	14,760	28,306	18,110
Tin.....	"	30,330	30,391	12,822	12,085
Zinc.....	"	5,015	1,250	190,540	86,693
Babbitt metal and solder.....	"	336,306	96,753	246,003	76,366
Other non-ferrous metals.....	—	—	23,822	—	83,573
ferro-alloys.....	—	—	283,990	—	278,376
Other materials and supplies:					
Iron and steel pipe, tubes and fittings.....	—	—	1,787,020	—	1,940,948
Paints, oil and varnishes.....	—	—	1,510,591	—	954,561
Centres.....	—	—	22,863	—	24,813
Tires.....	—	—	911,232	—	421,386
Wheels.....	—	—	8,166,332	—	6,866,840
Springs.....	—	—	662,951	—	551,922
Other car and locomotive parts.....	—	—	31,533,924	—	44,655,857
Foundry coke.....	tons	28,597	819,843	22,917	656,094
Moulding sands.....	"	11,177	104,272	8,753	85,419
Core sands.....	"	6,748	29,029	5,630	26,185
Plumbago and graphite.....	pounds	103,911	9,928	78,935	7,474
Lumber.....	M. bd. ft.	46,248	5,802,716	29,211	3,213,109
Firebrick and cupola blocks.....	—	—	101,846	—	108,549
Fireclay.....	tons	3,373	63,918	1,318	25,457
Core oil.....	Imp. gal.	9,107	11,705	3,427	4,028
All other materials.....	—	—	82,873,815	—	68,548,362
Total.....	—	—	179,892,257	—	162,219,587

TABLE 5. Production of Railway Spikes, 1945-1954

Year	Tonnage made	Tonnage sold	Income from sales
	tons	tons	\$
1945.....	12,218	12,287	843,150
1946.....	10,825	11,320	835,376
1947.....	13,372	12,336	991,828
1948.....	13,624	13,292	1,241,471
1949.....	11,279	10,792	1,125,272
1950.....	16,168	16,053	1,776,991
1951.....	16,908	17,068	2,142,668
1952.....	17,240	16,950	2,396,596
1953.....	14,820	14,401	2,087,052
1954.....	1	11,393	1,685,033

1. Not available.

TABLE 6. Production of Railway Car Wheels, Railway Cars and Locomotives, 1945-1954

Year	Railway car wheels	Standard railway cars		Locomotives	
		Number	Selling value at works	Number	Selling value at works
	\$		\$		\$
1945.....	5,210,624	13,480	47,570,897	378	29,498,706
1946.....	4,269,010	10,092	31,831,866	271	25,966,332
1947.....	4,669,396	5,765	30,837,570	125	14,430,852
1948.....	6,437,217	11,524	71,207,654	176	20,047,918
1949.....	4,929,262	10,798	60,684,727	319	38,144,425
1950.....	5,208,022	4,762	33,213,687	146	22,285,122
1951.....	7,026,909	10,613	75,428,547	267	41,893,150
1952.....	8,273,693	11,954	92,258,661	226	38,306,186
1953.....	7,779,926	8,464	85,879,182	260	42,259,233
1954.....	5,877,913	8,287	88,394,512	244	41,105,438

TABLE 7. Production of Finished Rail Fastenings, 1945-1954

Year	Tie plates			Fish plates or splice bars		
	Quantity made	Factory sales		Quantity made	Factory sales	
		Quantity	Income from sales		Quantity	Income from sales
	tons	tons	\$	tons	tons	\$
1945.....	40,129	40,784	2,271,313	10,847	10,836	778,664
1946.....	38,778	41,097	2,474,231	11,918	11,988	876,209
1947.....	39,175	39,459	2,572,632	10,124	9,666	747,609
1948.....	49,669	49,575	3,901,039	23,005	23,190	2,151,653
1949.....	48,493	48,343	4,231,844	14,481	14,267	1,398,332
1950.....	53,807	53,510	4,603,788	14,151	13,912	1,377,614
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

TABLE 8. Principal Statistics Classified According to Type of Ownership - 1953 and 1954

Type	Estab-lish-ments	Employees	Earnings	Cost at plant of materials used	Gross selling value of products
	No.	No.	\$	\$	\$
1953					
Individual ownership.....	1	35,447	118,026,350	179,892,257	338,321,229
Incorporated companies.....	35				
Total	36	35,447	118,026,350	179,892,257	338,321,229
1954					
Incorporated companies	36	29,214	96,862,444	162,219,587	283,398,587
Total	36	29,214	96,862,444	162,219,587	283,398,587

TABLE 9. Principal Statistics of the Railway Rolling Stock Industry in Canada, Grouped According to Size of Establishment, 1953 and 1954

Establishments reporting value of production	Estab-lish-ments	Employees	Earnings	Cost at plant of materials used	Gross selling value of products
	No.	No.	\$	\$	\$
1953					
\$25,000 to \$49,999	1	133	352,519	485,077	897,055
\$100,000 to \$199,999	1				
\$200,000 to \$499,999	2				
\$500,000 to \$999,999	5	359	1,118,250	2,419,214	3,856,890
\$1,000,000 to \$4,999,999	10	3,113	10,080,241	9,545,664	23,041,316
\$5,000,000 and over	17	31,842	106,475,340	167,442,302	310,525,968
Total	36	35,447	118,026,350	179,892,257	338,321,229
1954					
\$50,000 to \$99,999	1	128	399,212	817,952	948,729
\$100,000 to \$199,999	2				
\$200,000 to \$499,999	2				
\$500,000 to \$999,999	5	545	1,526,759	1,663,147	3,764,134
\$1,000,000 to \$4,999,999	9	2,542	8,273,878	7,733,610	18,105,371
\$5,000,000 and over	17	25,999	86,662,595	152,004,878	260,580,333
Total	36	29,214	96,862,444	162,219,587	283,398,567

TABLE 10. Employees, Salaries and Wages in the Railway Rolling Stock Industry, by Provinces, 1953 and 1954

Province	Number of employees					Salaries	Wages	Total salaries and wages
	On salaries		On wages		Total			
	Male	Female	Male	Female				
						\$	\$	\$
1953								
Nova Scotia and New Brunswick	168	13	2,534	9	2,724	753,622	7,951,217	8,704,839
Quebec	959	114	15,659	112	16,844	4,583,899	51,390,566	55,974,465
Ontario	742	183	6,265	5	7,195	4,463,439	20,902,105	25,365,544
Manitoba	273	6	5,873	2	6,154	1,227,260	18,691,788	19,919,048
Alberta and British Columbia	127	4	2,398	1	2,530	569,444	7,493,010	8,062,454
Total	2,269	320	32,729	129	35,447	11,597,664	106,428,686	118,026,350
1954								
Nova Scotia and New Brunswick	167	16	1,968	5	2,156	732,368	6,188,944	6,921,312
Quebec	843	90	12,526	81	13,540	4,220,927	39,977,827	44,198,754
Ontario	857	209	5,356	26	6,448	4,864,854	18,293,154	23,158,008
Manitoba	260	5	4,694	—	4,959	1,160,455	14,754,371	15,914,826
Alberta and British Columbia	114	3	1,993	1	2,111	523,577	6,145,967	6,669,544
Total	2,241	323	26,537	113	29,214	11,502,181	85,360,263	96,862,444

TABLE 11. Production Workers, by Months, 1953 and 1954

Month	1953			1954		
	Male	Female	Total	Male	Female	Total
	Number					
January	32,864	134	32,998	30,247	137	30,384
February	32,463	132	32,595	29,419	134	29,553
March	33,225	132	33,357	30,231	129	30,360
April	33,646	133	33,779	30,015	130	30,145
May	33,738	127	33,865	28,945	122	29,067
June	34,237	127	34,364	27,563	119	27,682
July	33,905	126	34,031	26,476	113	26,589
August	33,135	119	33,254	24,182	106	24,288
September	32,454	127	32,581	23,671	106	23,777
October	31,635	132	41,767	22,803	97	22,900
November	31,119	131	31,250	23,101	91	23,192
December	30,330	129	30,459	21,817	83	21,900
Average	32,729	129	32,858	26,537	113	26,650

TABLE 12. Capital and Repair Expenditures in the Railway Rolling Stock Industry, 1950-1954

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Con-struction	Machinery and equipment		Con-struction	Machinery and equipment		
	\$'000						
1950	1,308	2,792	4,100	1,608	5,309	6,917	11,017
1951	2,916	3,282	6,198	2,602	7,100	9,702	15,900
1952	5,654	4,966	10,620	8,149	11,301	19,450	30,070
1953	3,445	5,919	9,364	4,592	9,076	13,668	23,032
1954 ¹	2,534	4,167	6,701	3,854	7,440	11,294	17,995

1. Preliminary.

TABLE 13. Imports and Exports of Specified Railway Equipment, 1953 and 1954

Item	1953		1954	
	Quantity	Value	Quantity	Value
		\$		\$
(a) IMPORTS				
Railway cars:				
Box and flat	No. 1,548	11,423,217	20	24,427
Tank	" 1,203	2,955,269	53	190,196
Passenger	" 14	93,713	196	26,206,455
Other	" 79	424,743	193	4,570,238
Railway car parts	—	2,680,217	—	2,046,421
Motor rail cars or units for use on railways and chassis for same, and parts	No. 199	6,175,801	109	3,999,959
Railway locomotives	" 13	80,716	13	72,962
Locomotive chassis, tops, wheels and bodies	—	947,908	—	1,003,491
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. 104	1,965,318	161	1,693,804
Locomotive beds or frames of steel, cast in one piece; tender frames of steel, cast in one piece; cast steel cradles for the rear ends of locomotive frames; cast steel truck frames and bolsters for engines, tenders and passenger coaches; platform castings for passenger coaches	—	359,724	—	163,535
Steel wheels, other, for use on railway rolling stock	—	3,108,194	—	3,442,843
Tires of steel, in the rough, not drilled or machined in any manner, for railway vehicles	cwt. 38,750	338,309	34,069	312,975
(b) EXPORTS				
Railway cars and coaches, and parts	No. —	1,987,518	25	912,705
Locomotives and parts	" 45	7,053,260	41	7,526,504

List of Firms in the Railway Rolling Stock Industry, 1954

Name	Location of works
Nova Scotia:	
Dominion Wheel & Foundries, Limited	New Glasgow
The Eastern Car Company Limited	Trenton
Enamel & Heating Products Ltd.	Amherst
New Brunswick:	
Canadian National Railways	Moncton
Quebec:	
Canadian Car and Foundry Company Limited	Ville St-Pierre
Canadian Car and Foundry Company Limited	Côte St-Paul, Montreal
Canadian National Railways	Pointe St-Charles
Canadian Pacific Railway Company	Montreal
B.J. Coghlin Company Limited	3320 Ontario Street East, Montreal
Griffin Steel Foundries Ltd.	St-Hyacinthe
Montreal Locomotive Works, Limited	5781 Notre Dame St. E., Montreal
Standard Railway Equipment Mfg. Co. (Canada) Ltd.	2100 Remembrance St., Lachine
Ontario:	
Buffalo Brake Beam Company	21 Dunbar Avenue, Hamilton
Canada Iron Foundries Limited	1010 Talbot Street, St. Thomas
Canada Iron Foundries Limited	Montreal Street, Fort William
Canadian Locomotive Co. Limited	140 Ontario Street, Kingston
Canadian National Railway Company	Florence Street, London
Canadian National Railway Company	256 Downie Street, Stratford
Canadian National Railway Company	Esander Drive, Leaside
Canadian Pacific Railway Company	West Toronto
Canadian Westinghouse Co. Ltd.	286 Sanford Ave., Hamilton
Dominion Wheel & Foundries, Limited	171 Eastern Avenue, Toronto
Dominion Wheel & Foundries, Limited	Princess Street, Cobourg
Fairmont Railway Motors Limited	Montfair Ave., Toronto
General Motors Diesel Limited	Oxford St. East, London
Hammant Car & Engineering Works Ltd.	29 Dunbar Avenue, Hamilton
National Steel Car Corporation Limited	Kenilworth Avenue North, Hamilton
The Sylvester Steel Products Company Limited	1 Victoria Avenue South, Lindsay
Manitoba:	
Canadian National Railways	Fort Rouge
Canadian National Railways	Transcona
Canadian Pacific Railway Company	Winnipeg
Dominion Wheel & Foundries Limited	St. Boniface
Alberta:	
Canadian National Railways	Edmonton North
Canadian National Railways	104th Ave. and 112th St., Edmonton
Canadian Pacific Railway Company	Calgary
British Columbia:	
Canadian Pacific Railway Company	Foot of Drake Street, Vancouver

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