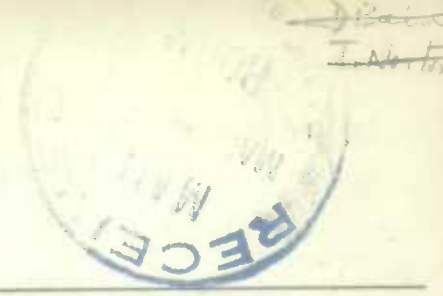


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Annual Industry Report

Iron and Steel and Their Products Group

A53-50

THE RAILWAY ROLLING STOCK INDUSTRY, 1948

Price 15 cents

This industry includes all establishments which were occupied chiefly in making or repairing railway cars and locomotives or in making parts for same, such as wheels, brakes, tires, bolsters, springs, etc. Production in 1948 was valued at \$237,382,892 including \$71,207,654 for new railway cars, \$20,047,918 for new locomotives, \$93,157,618 for repair work, \$16,652,629 for car and locomotive parts, and \$27,262,371 for miscellaneous products.

Thirty-eight establishments were in operation in this group in 1948, there being 15 in Ontario, 11 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.

The average number of employees in 1948 was 31,371 and salaries and wages for the year totalled \$77,861,850. Materials used in manufacturing or repair work cost \$127,092,740, and fuel and power costs amounted to \$4,626,351.

Table 1 - PRINCIPAL STATISTICS OF THE RAILWAY ROLLING STOCK INDUSTRY, 1944-1948

Year	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
1944	37	29,911	61,355,214	3,861,080	78,432,377	167,806,607
1945	37	30,515	61,793,939	4,181,244	84,264,315	181,249,842
1946	37	28,553	57,815,845	3,567,097	83,937,365	162,159,521
1947	37	28,526	61,754,235	3,817,648	73,076,408	159,283,149
1948	38	31,371	77,861,850	4,626,351	127,092,740	237,382,892
Per cent change 1948 from 1947.	..	+10.0	+26.1	+21.2	+73.9	+49.0

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

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1947 and 1948

Province	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
1947						
Nova Scotia and New Brunswick	4	2,295	4,715,393	442,339	6,222,621	11,806,054
Quebec	10	13,339	28,979,017	1,873,028	33,652,629	76,053,620
Ontario	15	5,447	12,287,489	704,011	17,153,140	38,571,423
Manitoba	4	5,606	11,831,364	557,829	12,587,654	25,253,362
Alberta and British Columbia ..	4	1,839	3,940,972	240,441	3,460,364	7,598,690
CANADA	37	28,526	61,754,235	3,817,648	73,076,408	159,283,149
1948						
Nova Scotia and New Brunswick	4	2,717	6,273,692	515,307	18,797,843	28,902,314
Quebec	11	14,557	36,892,515	2,334,173	62,363,896	113,360,460
Ontario	15	6,336	16,539,884	955,047	26,067,667	54,989,382
Manitoba	4	5,754	13,137,222	561,371	15,364,821	30,394,097
Alberta and British Columbia ..	4	2,007	5,018,537	260,453	4,498,513	9,736,639
CANADA	38	31,371	77,861,850	4,626,351	127,092,740	237,382,892

Prepared in the Mining, Metallurgical and Chemical Section.

Table 3 - PRODUCTS MANUFACTURED IN THE RAILWAY ROLLING STOCK INDUSTRY, 1947 and 1948

Product	Unit of measure	1 9 4 7		1 9 4 8	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
Brakes, brake beams, brake shoes and parts .....	...	...	1,578,054	...	1,831,975
Cars, standard steam railway, complete -					
Passenger	number	12	590,457	128	5,776,679
Freight - Box (except refrigerator)	number	4,312	20,689,124	8,030	42,408,961
Caboose	number	...	...	...	...
Flat	number	...	...	56	166,574
Gondola	number	600	2,959,988	850	5,257,250
Refrigerator	number	332	3,476,159	762	8,509,436
Tank	number	76	370,725	348	1,914,365
All other types	number	433	2,751,117	1,350	7,174,389
Cars, electric railway, passenger, new	number	2	63,865	99	2,936,635
Cars, narrow gauge for mines, quarries, etc.	number	818	226,296	1,288	208,772
Locomotives, standard steam railway, new	number	125	14,430,852	170	19,489,093
Locomotives, diesel-electric, standard gauge, new	number	...	...	6	558,825
Wheels for railway cars .....	...	...	4,123,092	...	5,734,731
Castings, grey iron (sold)	ton	14,357	1,990,301	15,155	2,394,524
Forgings (sold) .....	...	...	594,000	...	388,812
Other parts for cars and locomotives	...	...	9,340,335	...	9,085,923
Scrap iron and steel	ton	2,133	39,594	1,165	24,116
Repairs on freight cars .....	...	...	17,348,895	...	19,585,666
Repairs on passenger cars .....	...	...	12,760,165	...	15,252,658
Repairs on locomotives .....	...	...	25,684,192	...	30,298,934
Receipts from other custom and repair work .....	...	...	9,678,868	...	28,020,360
All other products .....	...	...	28,376,644	...	21,309,512
TOTAL .....	...	...	157,072,723	...	228,328,190
Add value of work done during year on cars, etc., which were not completed at year end			13,484,004		20,750,878
			170,556,727		249,079,068
Deduct value of work done in previous years on cars, etc., completed during current year			11,273,578		11,696,176
TOTAL VALUE OF PRODUCTION			159,283,149		237,382,892

Table 4 - MATERIALS USED IN THE RAILWAY ROLLING STOCK INDUSTRY, 1947 and 1948

Material	Unit of measure	1 9 4 7		1 9 4 8	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Iron and steel -					
Pig iron	ton	24,734	849,482	32,094	1,198,817
Castings, iron	ton	10,420	1,475,260	11,656	1,819,186
Forgings, steel .....	...	...	1,387,179	...	2,363,664
Billets, steel	ton	4,514	308,931	10,067	772,065
Bars and rods, steel	ton	33,292	2,641,805	43,352	3,705,966
Shafting, steel	ton	132	20,292	156	23,159
Wire, steel	ton	468	53,382	418	59,953
Plates, steel	ton	60,113	3,778,809	102,208	8,488,731
Sheets, steel	ton	18,219	1,308,532	41,225	3,512,787
Strip, steel	ton	735	59,230	755	68,355
Structural shapes, steel	ton	28,222	1,971,075	72,030	5,864,935

Table 4 - MATERIALS USED IN THE RAILWAY ROLLING STOCK INDUSTRY, 1947 and 1948 (Concluded)

Material	Unit of measure	1 9 4 7		1 9 4 8	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Iron and steel -					
Castings, steel.....	ton	17,624	5,861,974	34,696	9,584,048
Alloy steel .....	...	...	230,366	...	376,302
Scrap iron and steel	ton	149,450	2,258,925	169,918	3,060,109
Other iron and steel .....	...	...	814,626	...	733,742
Non-ferrous metals -					
Aluminum	pound	40,173	11,310	28,714	19,131
Brass and bronze	pound	9,700,371	2,735,355	11,076,927	3,910,046
Copper	pound	275,724	117,589	171,558	60,512
Lead	pound	286,982	27,113	360,724	56,511
Nickel	pound	50,539	17,477	59,826	22,235
Tin	pound	15,747	4,669	11,739	11,509
Zinc	pound	27,996	1,993	26,671	2,207
Babbitt metal and solder	pound	160,639	48,995	224,507	83,152
Other non-ferrous metals .....	...	...	39,469	...	34,743
Ferro-alloys .....	...	...	129,531	...	150,397
Other materials and supplies -					
Iron and steel pipe, tubes and fittings .....	...	...	1,003,582	...	1,555,136
Paints, oil and varnishes .....	...	...	923,279	...	1,733,979
Centres .....	...	...	31,160	...	34,487
Tires .....	...	...	1,568,497	...	1,280,818
Wheels .....	...	...	4,022,906	...	5,717,612
Springs .....	...	...	304,660	...	507,590
Other car and locomotive parts .....	...	...	7,141,667	...	9,608,054
Foundry coke	ton	29,663	540,998	35,561	805,874
Moulding sands	ton	8,148	56,866	10,961	70,856
Core sands	ton	6,551	21,551	8,059	28,866
Silica sand for sand blasting ..	ton	1,763	11,158	8,162	55,282
Plumbago and graphite	pound	107,100	8,960	124,229	10,280
Foundry facings	pound	2,216,330	46,652	2,462,110	56,362
Lumber	M bd.ft.	38,365	2,769,723	60,894	5,525,446
Firebrick and cupola blocks ....	...	...	90,774	...	124,379
Fireclay	ton	5,764	53,484	2,739	34,111
Core oil and core compounds ....	...	...	49,632	...	55,701
All other materials .....	...	...	28,277,490	...	53,905,645
TOTAL .....	...	...	73,076,408	...	127,092,740

Table 5 - PRODUCTION OF RAILWAY CAR WHEELS, RAILWAY CARS AND LOCOMOTIVES, 1939-1948

Year	Railway car wheels \$	Standard Railway Cars		Locomotives	
		Number	Selling value at works \$	Number	Selling value at works \$
1939	2,782,608	2,423	9,746,179	1	16,750
1940	3,412,213	5,328	18,524,594	55	6,616,094
1941	4,399,398	2,711	9,751,295	3	163,278
1942	6,791,118	1,501	11,001,274	71	8,604,459
1943	5,168,959	6,248	24,706,354	99	10,802,695
1944	6,575,408	9,251	35,935,406	190	18,915,916
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

Table 6 - PRODUCTION OF FINISHED RAIL FASTENINGS, 1939-1948

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	\$
1939	24,548	23,183	1,181,086	10,314	10,784	716,985
1940	24,371	26,544	1,388,150	14,040	13,702	907,832
1941	28,747	28,765	1,492,488	12,873	12,566	847,039
1942	25,187	25,685	1,393,375	14,510	14,963	1,018,651
1943	27,214	27,057	1,486,184	14,376	14,554	1,002,902
1944	41,826	38,351	2,123,629	14,583	14,324	997,004
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	747,608
1948	49,669	49,575	3,901,039	23,005	23,190	2,151,653

Table 7 - PRODUCTION OF RAILWAY SPIKES, 1939-1948

Year	Tonnage made	Tonnage sold	Income from sales
	tons	tons	\$
1939	8,244	8,679	596,306
1940	10,036	10,022	676,983
1941	12,876	13,162	894,766
1942	11,784	11,790	806,586
1943	11,419	11,265	765,911
1944	10,941	10,336	701,320
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

Table 8 - IMPORTS INTO CANADA AND EXPORTS OF SPECIFIED RAILWAY EQUIPMENT, 1947 and 1948

Table 6 - IMPORTS INTO CANADA AND EXPORTS OF CERTAIN RAILWAY EQUIPMENT, 1947 AND 1948					
Item		1 9 4 7		1 9 4 8	
		Quantity	Value	Quantity	Value
(a) Imports					
Railway cars - Box and flat	No.	243	85,566	280	101,363
Tank	No.	367	460,895	115	479,318
Passenger	No.	26	150,546	19	91,077
Other	No.	227	111,785	423	544,706
Railway car parts .....	...	...	1,444,766	...	1,614,629
Motor rail cars or units for use on railways, and chassis for same, and parts	No.	...	374,631	30	249,115
Railway locomotives	No.	24	199,404	8	239,649
Locomotive chassis, tops, wheels and bodies ....	...	...	76,616	...	715,309
Locomotives and motor cars for railways, of a class or kind not made in Canada, for sawmill, mining or metallurgical operations; and com- plete parts; also Diesel switching locomotives of a class or kind not made in Canada	No.	156	4,321,412	142	4,215,852
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 bolster for engines, tenders and passenger coa- ches; platform castings for passenger coaches. ..	..	...	1,121,170	...	1,316,318
Pressed wheels for use on railway rolling stock. ...	...	...	330,936	...	...
Steel wheels, other, for use on railway rolling stock .....	...	...	457,385	...	1,520,552
Tires of steel, in the rough, not drilled or machined in any manner, for railway vehicles .	cwt.	227,894	1,285,595	212,624	1,306,274
(b) Exports					
Railway cars and coaches, and parts	No.	...	3,368,347	23	6,593,299
Locomotives and parts	No.	136	15,672,079	89	8,792,315

Table 9 - EMPLOYEES, SALARIES AND WAGES IN THE RAILWAY ROLLING STOCK INDUSTRY, BY PROVINCES, 1947 and 1948

Province	Average Number of Employees					Salaries	Wages	Total Salaries and wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
<u>1947</u>						\$	\$	\$
Nova Scotia and New Brunswick	145	7	2,137	6	2,295	433,126	4,282,267	4,715,393
Quebec	919	130	12,209	81	13,339	2,787,684	26,191,333	28,979,017
Ontario	417	94	4,929	7	5,447	1,532,994	10,754,495	12,287,489
Manitoba	250	8	5,348	...	5,606	759,770	11,071,594	11,831,364
Alberta and British Columbia .	104	3	1,729	3	1,839	323,948	3,617,024	3,940,972
TOTAL	1,835	242	26,352	97	28,526	5,837,522	55,916,713	61,754,235
<u>1948</u>								
Nova Scotia and New Brunswick	187	10	2,513	7	2,717	574,496	5,699,196	6,273,692
Quebec	940	130	13,401	86	14,557	3,053,227	33,839,288	36,892,515
Ontario	424	90	5,817	5	6,336	1,696,219	14,843,665	16,539,884
Manitoba	254	8	5,490	2	5,754	853,827	12,283,395	13,137,222
Alberta and British Columbia .	105	3	1,897	2	2,007	373,501	4,645,036	5,018,537
TOTAL	1,910	241	29,118	102	31,371	6,551,270	71,310,580	77,861,850

LIST OF FIRMS IN THE RAILWAY ROLLING STOCK INDUSTRY, 1948

Name	Location of Works
<u>Nova Scotia -</u>	
Canadian Car & Foundry Company Limited	Amherst
Dominion Wheel & Foundries, Limited	New Glasgow
The Eastern Car Company Limited	Trenton
<u>New Brunswick -</u>	
Canadian National Railways	Moncton
<u>Quebec -</u>	
Canadian Car and Foundry Company Limited	Point St. Charles
Canadian Car and Foundry Company Limited	Cote St. Paul
Canadian Car and Foundry Company Limited	Ville St. Pierre
Canadian Gold Car Heating & Lighting Co. Ltd.	728 St. James St. W., Montreal
Canadian National Railways (2 Divisions)	Pte. St. Charles, Montreal
Canadian National Railways	Riviere du Loup
Canadian Pacific Railway Company	Montreal
B. J. Coghlin Company Limited	3320 Ontario Street East, Montreal
Montreal Locomotive Works, Limited	5781 Notre Dame Street East, Montreal
Franklin Railway Supply Company Limited	400 Atlantic Avenue, Outremont
<u>Ontario -</u>	
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



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Railway Rolling Stock

LIST OF FIRMS IN THE RAILWAY ROLLING STOCK INDUSTRY, 1948
(Concluded)

Name	Location of Works
<u>Ontario -</u>	
Dominion Brake Shoe Company Limited	1000 Talbot Street, St. Thomas
Dominion Wheel & Foundries, Limited	171 Eastern Avenue, Toronto
Dominion Wheel & Foundries, Limited	Princess Street, Cobourg
Fairmont Railway Motors Limited	58 Pelham Avenue, Toronto
Hamman Steel Car & Engineering Works	29 Dunbar Avenue, Hamilton
National Steel Car Corporation Limited	Kenilworth Avenue North, Hamilton
The Sylvester Steel Products Company Limited	1 Victoria Avenue South, Lindsay
<u>Manitoba -</u>	
Canadian National Railways	Fort Rouge
Canadian National Railways	Transcona
Canadian Pacific Railway Company	Winnipeg
Dominion Wheel & Foundries Limited	St. Boniface
<u>Alberta -</u>	
Canadian National Railways	Edmonton North
Canadian National Railways	Edmonton South
Canadian Pacific Railway Company	Calgary
<u>British Columbia -</u>	
Canadian Pacific Railway Company	foot of Drake Street, Vancouver