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Annual Industry Report

Iron and Steel and Their Products Group

THE RAILWAY ROLLING STOCK INDUSTRY, 1947

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 1947 was valued at \$159,283,149 including \$30,837,570 for new railway cars, \$14,430,852 for new locomotives, \$65,472,120 for repair work, \$9,340,335 for car and locomotive parts, and \$120,080,877 for miscellaneous products.
39,202,270

Thirty-seven establishments were in operation in this group in 1947, there being 15 in Ontario, 10 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 1947 was 28,526 and salaries and wages for the year totalled \$61,754,235. Materials used in manufacturing or repair work cost \$73,076,408, and fuel and power costs amounted to \$3,817,648.

Table 1 - PRINCIPAL STATISTICS, 1938-1947

Year	Number of plants	Average number of employees	Salaries and wages \$	Cost of fuel and electri- city at works \$	Cost of materials at works \$	Gross selling value of prod- ucts at works \$
1938	37	19,358	26,736,265	1,953,667	46,536,416	80,977,701
1939	38	17,569	25,050,559	1,882,557	34,070,884	60,710,204
1940	35	21,483	32,349,509	2,351,894	52,289,540	95,341,712
1941	34	28,126	46,126,832	3,215,331	63,310,071	118,060,141
1942	35	31,682	59,333,662	3,815,534	81,833,797	156,070,617
1943	34	30,495	59,442,679	4,007,840	83,069,419	159,156,587
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
Per cent change						
1947 from 1946 ..	..	-0.09	+6.8	+7.0	-12.9	-1.9

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, 1946 and 1947

Province	Number of plants	Average number of employees	Salaries and wages \$	Cost of fuel and electri- city at works \$	Cost of materials at works \$	Gross selling value of prod- ucts at works \$
1946						
Nova Scotia and New Brunswick ..	4	2,271	4,279,687	420,321	3,365,448	9,040,888
Quebec	10	13,385	27,770,157	1,820,218	49,563,606	87,188,385
Ontario	15	5,789	11,659,986	630,166	18,168,596	37,823,325
Manitoba	4	5,430	10,674,131	491,499	10,140,359	21,806,635
Alberta and British Columbia	4	1,678	3,431,884	204,893	2,701,356	6,300,288
CANADA ...	37	28,553	57,815,845	3,567,097	83,937,365	162,159,521

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1946 and 1947 (concluded)

Province	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electri- city at works	Cost of materials at works	Gross selling value of prod- ucts at works
			\$	\$	\$	\$
<u>1947</u>						
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

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1946 and 1947

Province	Average Number of Employees					Salaries	Wages	Total Salaries and wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
<hr/>								
1946								
Nova Scotia and New Brunswick	134	15	2,112	10	2,271	403,942	3,875,745	4,279,687
Quebec	894	145	12,267	79	13,385	2,531,312	25,238,845	27,770,157
Ontario	397	102	5,265	25	5,789	1,414,604	10,245,382	11,659,986
Manitoba	248	8	5,174	...	5,430	712,319	9,961,812	10,674,131
Alberta and British Columbia .	99	4	1,568	7	1,678	289,947	3,141,937	3,431,884
TOTAL	1,772	274	26,386	121	28,553	5,352,124	52,463,721	57,815,845
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1947								
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

Table 4 - WAGE-EARNERS, BY MONTHS, 1946 and 1947 (Number on payroll on last work-day of each month)

Month	1946			1947		
	Male	Female	Total	Male	Female	Total
January	28,349	184	28,533	24,723	87	24,810
February	28,221	165	28,386	25,149	89	25,238
March	28,205	137	28,342	25,375	96	25,471
April	27,500	128	27,628	25,708	98	25,806
May	27,157	122	27,279	26,065	98	26,163
June	26,489	119	26,608	25,386	97	25,483
July	25,879	117	25,996	25,147	89	25,236
August	25,245	105	25,350	25,909	88	25,997
September	24,267	98	24,365	27,344	99	27,443
October	24,166	85	24,251	28,147	101	28,248
November	25,461	87	25,548	28,397	100	28,497
December	25,669	86	25,755	28,846	99	28,945
AVERAGE	26,386	121	26,507	26,352	97	26,449

Table 5 - FUEL AND ELECTRICITY USED, 1946 and 1947

Kind	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal: Canadian	ton	89,588	630,968	71,677	584,618
Imported	ton	120,748	900,834	124,301	1,009,936
Anthracite coal	ton	439	5,680	348	4,383
Lignite coal - Canadian	ton	99,206	300,231	94,154	291,832
Coke	ton	2,843	40,004	2,499	37,556
Gasoline	Imp.gal.	128,048	32,036	130,877	35,749
Kerosene	Imp.gal.	20,641	3,313	28,035	5,343
Fuel oil	Imp.gal.	7,450,305	607,937	7,094,552	746,286
Wood	cord	468	2,918	348	2,229
Gas: Manufactured	M cu.ft.	219,045	63,720	129,993	58,084
Natural	M cu.ft.	1,462	702	982	585
Other fuel .....	...	...	224	...	...
Electricity purchased	K.W.H.	137,578,027	978,530	142,479,239	1,041,047
TOTAL .....	...	...	3,567,097	...	3,817,648
Electricity generated:					
(a) For own use	K.W.H.	6,948,911	...	2,451,477	...
(b) For sale	K.W.H.	21,735,129	185,567	...	...

Table 6 - POWER EQUIPMENT, 1946 and 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 6</u>				
Steam engines and steam turbines	24	15,975	15	6,821
Electric motors run by purchased power	8,128	114,467	149	2,721
TOTAL	8,152	130,442	164	9,542
Electric motors run by power generated by above primary units	647	10,166	52	1,170
Stationary power boilers	77	37,248	2	630
Motor-generator sets	58	6,908	7	1,295
<u>1 9 4 7</u>				
Steam engines and steam turbines	20	14,205	17	8,091
Electric motors run by purchased power	9,645	124,780	195	4,077
TOTAL	9,665	138,985	212	12,168
Electric motors run by power generated by above primary units	372	5,872	10	265
Stationary power boilers	79	36,188	5	1,420
Motor-generator sets	66	7,326	6	1,245

Table 7 - MATERIALS USED, 1946 and 1947

Material	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Iron and steel -					
Pig iron	ton	21,526	596,666	24,734	849,482
Castings, iron	ton	12,026	1,619,094	10,420	1,475,260
Forgings, steel .....	...	...	1,421,483	...	1,387,179
Billets, steel	ton	5,700	348,576	4,514	308,931
Bars and rods, steel	ton	51,248	4,006,142	33,292	2,641,805
Shafting, steel	ton	4,936	321,075	132	20,292
Wire, steel	ton	544	280,503	647	302,741

Table 7 - MATERIALS USED, 1946 and 1947 (Concluded)

Material	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Iron and steel (Concluded)-					
Plates, steel	ton	80,589	5,194,778	60,113	3,778,809
Sheets, steel	ton	44,360	3,024,611	18,219	923,332
Strip, steel	ton	838	70,637	735	59,230
Structural shapes, steel	ton	51,899	3,338,208	28,222	1,971,075
Castings, steel	ton	39,573	10,753,952	17,624	5,861,974
Alloy steel .....	...	...	281,795	...	230,366
Scrap iron and steel	ton	145,272	2,159,941	149,450	2,258,925
Other iron and steel .....	...	...	465,177	...	565,267
Non-ferrous metals -					
Aluminum	pound	51,269	15,646	40,173	11,310
Brass and bronze	pound	8,266,252	1,648,188	9,700,371	2,735,355
Copper	pound	221,860	62,982	275,724	117,589
Lead	pound	743,923	51,259	286,982	27,113
Nickel	pound	45,832	18,041	50,539	17,477
Tin	pound	17,459	9,362	15,747	4,669
Zinc	pound	20,904	1,361	27,996	1,993
Babbitt metal and solder	pound	202,959	37,977	160,639	48,995
Other non-ferrous metals .....	...	...	12,314	...	39,469
Ferromanganese	ton	540	69,849	591	78,594
Ferrosilicon	ton	949	47,424	789	50,856
Other materials and supplies -					
Iron and steel pipe, tubes and fittings .....	...	...	1,570,273	...	1,003,582
Paints, oil and varnishes .....	...	...	971,417	...	923,279
Centres .....	...	...	52,425	...	31,160
Tires .....	...	...	1,673,115	...	1,568,497
Wheels .....	...	...	3,500,522	...	4,022,906
Springs .....	...	...	489,648	...	304,660
Foundry coke	ton	28,654	472,675	29,663	540,998
Moulding sands	ton	8,312	53,511	8,148	56,866
Core sands	ton	5,399	17,582	6,551	21,551
Silica sand for sand blasting ..	ton	1,154	9,477	1,763	11,158
Plumbago and graphite	pound	256,985	7,957	107,100	8,960
Foundry facings	pound	...	35,167	2,216,330	46,652
Lumber	M bd.ft.	49,648	3,205,757	38,365	2,769,723
Firebrick and cupola blocks ...	...	...	79,406	...	90,774
Fireclay	ton	5,027	40,432	5,764	53,484
Core oil and core compounds ...	...	...	35,420	...	49,632
All other materials .....	...	...	35,865,540	...	35,804,438
TOTAL .....	...	...	83,937,365	...	73,076,408

Table 8 - PRODUCTS MANUFACTURED, 1946 and 1947

Product	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
Brakes, brake beams, brake shoes and parts ...	...	...	1,213,113	...	1,578,054
Cars, standard steam railway, complete -					
Passenger	number	...	...	12	590,457
Freight	number	10,092	31,831,866	5,753	30,247,113
Cars, narrow gauge for mines, quarries, etc.	number	1,030	221,833	818	226,296
Locomotives, new	number	271	25,966,332	125	14,430,852
Wheels for railway cars .....	...	...	3,863,483	...	4,123,092
Castings, grey iron (sold)	ton	13,317	1,624,289	14,357	1,990,301

Table 8 - PRODUCTS MANUFACTURED, 1946 and 1947 (concluded)

Product	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Selling value at works	Quantity	Selling value at works
Forgings (sold) .....	...	...	431,657	...	594,000
Other parts for cars and locomotives .....	...	...	5,419,603	...	9,340,335
Scrap iron and steel	ton	9,191	129,437	2,133	39,594
Repairs on freight cars .....	...	...	16,152,623	...	17,348,895
Repairs on passenger cars .....	...	...	11,237,998	...	12,760,165
Repairs on locomotives .....	...	...	22,674,377	...	25,684,192
Receipts from other custom and repair work .....	...	...	17,786,185	...	9,678,868
All other products .....	...	...	12,414,310	...	28,440,509
TOTAL .....	...	...	150,967,106	...	157,072,723
Add value of work done during year on cars, etc., which were not completed at year and			18,890,322		13,484,004
			169,857,428		170,556,727
Deduct value of work done in previous year on cars, etc., completed during current year			7,697,907		11,273,578
TOTAL VALUE OF PRODUCTION			162,159,521		159,283,149

Table 9 - PRODUCTION IN CANADA OF RAILWAY CAR WHEELS, RAILWAY CARS AND LOCOMOTIVES, 1938-1947

Year	Railway car wheels	Standard Railway Cars		Locomotives	
		Number	Selling value at works	Number	Selling value at works
1938	3,089,971	5,385	23,592,753	49	5,635,134
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(x)	47,570,897	378	29,498,706
1946	4,269,010	10,092(x)	31,831,866	271	25,966,332
1947	4,669,396	5,765(x)	30,837,570	125	14,430,852

(x) Includes 6,733 box cars, 2,745 flat cars, 3,580 gondola cars, 25 refrigerator cars, 146 tank cars, 50 cabooses, and 201 other types in 1945; and 4,520 box cars, 900 flat cars, 4,043 gondola cars, 425 refrigerator cars, and 204 other types in 1946; 4,312 box cars, 12 passenger cars, 600 gondola cars, 332 refrigerator cars, 76 tank cars and 433 other types in 1947.

Table 10 - PRODUCTION IN CANADA OF FINISHED RAIL FASTENINGS, 1938-1947

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	\$
1938	22,190	20,629	1,090,726	5,543	4,978	335,396
1939	24,548	23,183	1,181,086	10,314	10,784	716,985
1940	24,371	26,544	1,368,150	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

Table 11 - PRODUCTION IN CANADA OF RAILWAY SPIKES, 1938-1947

Year	Tonnage made	Tonnage sold	Income from sales
	tons	tons	\$
1938	7,036	6,703	480,477
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

Table 12 - IMPORTS INTO CANADA AND EXPORTS OF SPECIFIED RAILWAY EQUIPMENT, 1946 and 1947

Item	1946				1947			
	Quantity		Value		Quantity		Value	
				\$				\$
(a) Imports								
Railway cars - Box and flat	No.	51	38,564		243		85,566	
Tank	No.	14	26,943		367		460,895	
Passenger	No.	3	11,555		26		130,546	
Other	No.	192	115,405		227		111,785	
Railway car parts .....	...	...	730,792		...		1,444,766	
Motor rail cars or units for use on railways, and chassis for same, and parts	No.	16	110,352		...		374,631	
Railway locomotives	No.	25	258,964		24		199,404	
Locomotive chassis, tops, wheels and bodies .....	...	...	23,238		...		76,616	
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.	112	3,167,393		156		4,321,412	
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 loco- motive frames; cast steel truck frames and bolster for engines, tenders and passenger coaches; platform castings for passenger coaches .....	...	...	1,619,806		...		1,121,170	
Pressed wheels for use on railway rolling stock ....	...	...	288,244		...		330,936	
Steel wheels, other, for use on railway rolling stock .....	...	...	636,383		...		457,385	
Tires of steel, in the rough, not drilled or machined in any manner, for railway vehicles	cwt.	221,615	1,187,278		227,894		1,285,595	
(b) Exports								
Railway cars and coaches, and parts	No.	...	26,341,741		...		3,368,347	
Locomotives and parts	No.	284	26,981,374		136		15,672,079	

LIST OF FIRMS IN THE RAILWAY ROLLING STOCK INDUSTRY, 1947

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 National Railways	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	1000 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
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
Hawmont 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

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