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Annual Steel Report

Iron and Steel and Their Products Group

STATISTICS STATISTIQUE
CANADA CANADA

APR 18 1947

THE RAILWAY ROLLING STOCK INDUSTRY, 1945

BIBLIOTHEQUE

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 1945 was valued at \$181,249,842, including \$47,570,897 for new railway cars, \$29,498,706 for new locomotives, \$47,702,977 for repair work, 6,410,490 for munitions and armaments, \$8,859,978 for car and locomotive parts, and \$40,451,083 for miscellaneous products. This year's output value was the highest on record, being about 8 per cent over the 1944 total and 43 per cent over the pre-war high of \$126,487,037 in 1929.

Thirty-seven establishments were in operation in this group in 1945, 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 1945 was 30,515 and salaries and wages for the year totalled \$61,793,939. Materials used in manufacturing or repair work cost \$84,264,315 and fuel and power costs amounted to \$4,181,244.

Table 1 - Principal Statistics, 1934-1945

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
			\$	\$	\$	\$
1934	37	16,095	16,312,271	1,527,920	16,756,285	34,352,911
1935	37	16,921	18,785,671	1,636,866	20,769,208	41,213,039
1936	37	18,633	22,161,277	1,781,825	30,486,569	56,969,453
1937	37	21,496	29,187,157	2,090,074	56,191,146	93,854,555
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	118,080,141
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

Per cent change
1945 from 1944 +2.2 +0.7 +8.3 +7.4 +8.1

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, 1944 and 1945

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>1944</u>						
Nova Scotia and New Brunswick	3) 1)	2,315	4,418,528	305,995	5,067,357	10,306,710
Quebec	10	14,829	31,372,920	2,000,219	40,897,259	88,652,108
Ontario	15	6,456	12,968,162	964,068	20,939,501	43,614,998
Manitoba	4	4,951	9,996,198	416,174	9,217,172	20,187,308
Alberta and British Columbia .	3) 1)	1,360	2,599,406	174,624	2,311,088	5,045,483
Canada	37	29,911	61,355,214	3,861,080	78,432,377	167,806,607

1945

Nova Scotia and New Brunswick	4	2,684	4,964,578	447,869	6,779,013	13,750,929
Quebec	10	14,833	31,086,860	2,148,615	43,102,775	95,360,595
Ontario	15	6,304	12,947,173	873,344	22,250,327	46,397,923
Manitoba	4	5,200	9,960,933	472,608	9,795,612	20,379,116
Alberta and British Columbia ..	3) 1)	1,494	2,834,395	238,808	2,336,588	5,361,279
Canada	37	30,515	61,793,939	4,181,244	84,264,315	181,249,842

Table 3 - Employees, Salaries and Wages, By Provinces, 1944 and 1945

Province	Average Number of Employees					Salaries	Wages	Total Salaries and Wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
<hr/>								
<div>1944</div>								
Nova Scotia and New Brunswick	122	22	2,144	27	2,315	370,747	4,047,781	4,418,528
Quebec	953	191	13,577	108	14,829	2,828,698	28,544,222	31,372,920
Ontario	403	141	5,594	318	6,456	1,528,067	11,440,095	12,968,162
Manitoba	232	12	4,707	...	4,951	637,148	9,359,050	9,996,198
Alberta and British Columbia .	76	7	1,271	6	1,360	218,564	2,380,842	2,599,406
Total	1,786	373	27,293	459	29,911	5,583,224	55,771,990	61,355,214

1945

Nova Scotia and New Brunswick	131	110	2,367	76	2,684	536,595	4,427,983	4,964,578
Quebec	974	178	13,593	88	14,833	2,723,883	28,362,977	31,086,860
Ontario	403	129	5,536	236	6,304	1,539,911	11,407,262	12,947,173
Manitoba	237	11	4,952	...	5,200	647,553	9,313,380	9,960,933
Alberta and British Columbia .	79	7	1,392	16	1,494	233,427	2,600,968	2,834,395
Total	1,824	435	27,840	416	30,515	5,681,369	56,112,570	61,793,939

Table 4 - Wage-Earners, By Months, 1944 and 1945 (Number on payroll on last work-day of each month)

Month	1 9 4 4			1 9 4 5		
	Male	Female	Total	Male	Female	Total
January	27,796	488	28,284	28,481	650	29,131
February	27,657	442	28,099	28,834	646	29,480
March	27,472	415	27,887	28,641	667	29,308
April	27,148	407	27,555	28,605	668	29,273
May	27,333	423	27,756	27,929	503	28,432
June	27,107	429	27,536	26,817	347	27,164
July	26,933	434	27,367	26,129	307	26,436
August	26,982	447	27,429	26,769	286	27,055
September	26,818	466	27,284	27,191	267	27,458
October	27,246	492	27,738	27,895	224	28,119
November	27,465	516	27,981	28,533	210	28,743
December	27,548	555	28,103	28,229	198	28,427
Average	27,293	459	27,752	27,840	416	28,256

Table 5 - Hours Worked Per Week By Wage-Earners, 1945 (In one week of highest employment; overtime included)

Hours worked per week	Male	Female	Total
30 hours or less	546	14	560
31-43 hours	3,826	132	3,958
44 hours	13,440	200	13,640
45-47 hours	2,685	86	2,771
48 hours	5,652	152	5,804
49-50 hours	1,665	5	1,670
51-54 hours	1,304	2	1,306
55 hours	418	...	418
56-64 hours	1,156	...	1,156
65 hours and over	581	...	581
Total	31,273	591	31,864
Total wages paid in selected week	\$ 1,235,622	15,385	1,251,007

Table 6 - Fuel and Electricity Used, 1944 and 1945

Kind	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal: Canadian	ton	95,097	537,757	86,553	586,314
Imported	ton	132,901	1,032,376	153,424	1,214,613
Anthracite coal	ton	447	6,000	400	4,964
Lignite coal - Canadian	ton	99,011	297,998	107,203	319,028
Coke	ton	2,389	31,291	2,741	33,688
Gasoline	Imp.gal.	130,692	34,441	131,581	33,957
Kerosene	Imp.gal.	39,321	8,388	20,730	3,455
Fuel oil	Imp.gal.	7,756,838	594,947	9,111,527	749,654
Wood	cord	426	3,290	257	1,662
Gas: Manufactured	M cu.ft.	560,726	217,916	413,772	142,842
Natural	M cu.ft.	1,567	681	1,719	744
Other fuel .....	...	...	576	...	423
Electricity purchased	K.W.H.	130,849,427	1,095,419	157,271,547	1,089,900
Total .....	...	...	3,861,080	...	4,181,244
Electricity generated:					
(a) For own use	K.W.H.	13,368,289	...	8,624,409	...
(b) For sale	K.W.H.	24,300,832	199,822	19,590,193	169,012

Table 7 - Power Equipment, 1944 and 1945

	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 4</u>				
Steam engines and steam turbines	27	16,943	12	5,621
Electric motors run by purchased power ..	7,388	105,845	131	1,650
Total	7,415	122,788	143	7,271
Electric motors run by power generated by above primary units	635	9,744	48	1,109
Stationary boilers	87	38,598	1	600
Motor-generator sets	52	4,936	4	555
<u>1 9 4 5</u>				
Gasoline, gas and oil engines .....	...	...	2	30
Steam engines and steam turbines	27	17,543	13	5,621
Electric motors run by purchased power ..	7,451	105,708	130	2,111
Total	7,478	123,251	145	7,762
Electric motors run by power generated by above primary units	655	9,919	48	1,124
Stationary power boilers	78	36,728	1	600
Motor-generator sets	55	6,009	4	705

Table 8 - Materials Used, 1944 and 1945

Material	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Cost at	Quantity	Cost at
			works		works

Table 8 - Materials Used, 1944 and 1945 (Concluded)

Material	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Cost at works	Quantity	Cost at works
Ferromanganese	ton	1,560	81,307	539	68,594
Ferrosilicon	ton	712	31,829	811	39,588
Other materials and supplies -					
Iron and steel pipe, tubes and fittings .....	...	...	1,152,304	...	1,023,514
Paints, oil and varnishes ....	...	...	967,445	...	986,825
Centres	No.	1,832	82,885	1,512	59,796
Tires	No.	...	2,035,473	...	2,284,540
Wheels	No.	...	2,604,738	...	3,780,615
Springs .....	...	...	364,687	...	378,319
Foundry coke	ton	30,645	531,797	29,350	495,510
Moulding sands	ton	14,676	74,989	7,267	51,627
Core sands	ton	4,969	18,800	3,661	16,497
Silica sand for sand blasting.	ton	1,559	9,683	3,353	16,794
Plumbago and graphite	pound	125,202	8,803	158,111	9,169
Foundry facings .....	...	...	39,392	...	34,702
Lumber	M bd.ft.	53,373	3,443,179	69,075	4,362,241
Firebrick and cupola blocks ..	...	...	145,984	...	166,028
Fireclay	ton	2,627	19,464	2,874	17,651
Core oil and core compounds ..	...	...	39,536	...	47,414
All other materials .....	...	...	33,497,087	...	37,696,589
Total .....	...	...	78,432,377	...	84,264,315

Table 9 - Products Manufactured, 1944 and 1945

Product	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Selling value at works	Quantity	Selling value at works
Brakes, brake beams, brake shoes and parts	...	....	1,126,330	...	1,174,774
Cars, standard steam railway, complete -					
Passenger	number	4	82,623	...	...
Freight	number	9,251	35,852,783	13,480	47,570,897
Cars, narrow gauge for mines, quarries, etc.	number	418	105,871	1,128	1,782,238
Locomotives, new	number	190	18,915,916	378	29,498,706
Wheels for railway cars .....	...	...	6,575,408	...	5,210,624
Castings, grey iron (sold)	ton	22,004	2,143,644	...	2,052,180
Forgings (sold)	ton	...	1,351,185	...	1,166,937
Other parts for cars and locomotives .....	...	...	7,431,913	...	8,859,978
Scrap iron and steel	ton	61,028	1,314,356	100,655	1,719,929
Repairs on freight cars .....	...	...	14,014,199	...	14,841,029
Repairs on passenger cars .....	...	...	10,090,612	...	10,151,709
Repairs on locomotives .....	...	...	20,060,154	...	20,435,754
Receipts from other custom and repair work	...	...	2,153,762	...	2,274,485
Munitions and armaments .....	...	...	13,288,625	...	6,410,490
All other products .....	...	...	31,619,447	...	27,344,401
Total .....	...	...	166,126,828	...	180,494,131
Add value of work done during year on cars, etc., which were not completed at year end			7,760,857		8,516,568
			173,887,585		189,010,699
Deduct value of work done in previous year on cars, etc., completed during current year			6,081,078		7,760,857
Total Value of Production			167,806,607		181,249,842

Table 10 - Production in Canada of Railway Car Wheels, Railway Cars and Locomotives, 1935-1945

Year	Railway car wheels	Standard Railway Cars		Number	Selling value at works
		Number	Selling value at works		
1935	1,942,603	550	2,017,841	4	111,500
1936	2,179,990	2,116	9,530,441	23	2,367,414
1937	3,570,015	7,504	28,827,178	46	4,862,925
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(x)	24,706,354	99	10,802,695
1944	6,575,408	9,251(x)	35,935,406	190	18,915,916
1945	5,210,624	13,480(x)	47,570,897	378	29,498,706

(x) Includes 4,729 box cars, 220 tank cars, 100 refrigerator cars, 7 flat cars and 1,166 other types in 1943; 7,485 box cars, 8 tank cars, 194 refrigerator cars, 1 flat car, 500 gondola cars, 50 cabooses and 1,013 other types in 1944; and 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.

Table 11 - Production in Canada of Finished Rail Fastenings, 1935-1945

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	\$
1935	20,420	20,650	944,342	6,113	6,014	344,711
1936	26,228	25,571	1,136,175	5,634	5,812	333,712
1937	23,284	24,394	1,123,923	7,125	7,180	430,204
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	1,388,150	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

Table 12 - Production in Canada of Railway Spikes, 1935-1945

Table 12 - Production in Canada of Railway Spikes, 1935-1945			
Year	Tonnage made	Tonnage sold	Income from sales
	tons	tons	\$
1935	6,435	6,573	398,691
1936	7,710	7,380	445,891
1937	7,941	8,242	559,997
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

Table 13 - Imports Into Canada and Exports of Specified Railway Equipment, 1944 and 1945

Item		1 9 4 4		1 9 4 5	
		Quantity	Value	Quantity	Value
(a) Imports					
Railway cars - Box and flat	No.	8	5,800	3	2,350
Tank	No.	8	38,191	437	433,081
Passenger	No.	1	11,100	...	...
Other	No.	101	124,011	139	27,436
Railway car parts .....	...	...	319,955	...	324,359
Motor rail cars or units for use on railways, and chassis for same, and parts	No.	79	464,786	66	460,052
Railway locomotives	No.	19	198,647	9	116,101
Locomotive chassis, tops, wheels and bodies ....	...	...	40,157	...	30,184
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.	32	1,059,461	47	1,348,758
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 coaches; platform castings for passenger coaches ...	...	...	1,041,291	...	679,335
Pressed wheels for use on railway rolling stock. ...	...	...	53,758	...	133,043
Steel wheels, other, for use on railway rolling stock .....	...	...	334,378	...	798,337
Tires of steel, in the rough, not drilled or machined in any manner, for railway vehicles .	cwt.	232,040	1,070,357	275,748	1,315,403
(b) Exports					
Railway cars and coaches, and parts	No.	39	2,579,346	...	24,450,900
Locomotives and parts	No.	122	10,683,348	269	21,473,114

List of Firms in the Railway Rolling Stock Industry, 1945

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	Cote St. Paul
Canadian Car and Foundry Company Limited	Ville St. Pierre
Canadian National Railways	Pte. St. Charles, Montreal
Canadian Gold Car Heating & Lighting Co. Ltd.	728 St. James St., Montreal
Canadian National Railways	Rivière 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



List of Firms in the Railway Rolling Stock Industry, 1945 (Concluded)

Name	Location of Works
<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
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 Manufacturing Company Limited	1 Victoria Avenue South, Lindsay
Canadian Pacific Railway Co.	West Toronto
<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