

DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA

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ANNUAL STEEL REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE RAILWAY ROLLING STOCK INDUSTRY, 1944

This industry includes all establishments which in normal times 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 1944 was valued at \$167,806,607, including \$35,935,406 for new railway cars, \$18,915,916 for new locomotives, \$46,318,727 for repair work, \$13,288,625 for munitions and armaments, \$15,133,651 for car and locomotive parts, and \$36,534,503 for miscellaneous products. This year's output value was the highest on record, being about 5 per cent over the 1943 total and 32 per cent over the pre-war high of \$126,487,037 in 1929.

Thirty-seven establishments were in operation in this group in 1944, 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 1944 was 29,911 and salaries and wages for the year totalled \$61,355,214. Materials used in manufacturing or repair work cost \$78,432,377 and fuel and power costs amounted to \$3,861,080.

Table 1 - PRINCIPAL STATISTICS, 1934-1944

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
			\$	\$	\$	\$
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	34,070,984	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
Per cent change 1944 from 1943	..	-1.9	+3.2	-3.4	-5.5	+5.4

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 PROVINCE, 1943 and 1944

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
			\$	\$	\$	\$
1943						
Nova Scotia and New Brunswick ..	3)	1,916	3,497,506	360,960	3,891,572	8,082,152
Quebec .....	9	15,738	31,435,260	2,135,212	48,496,748	86,274,059
Ontario .....	14	6,869	13,252,763	1,089,921	20,348,579	43,241,621
Manitoba .....	4	4,739	9,179,850	304,146	8,114,107	17,695,431
Alberta .....	3	1,154	2,027,500	117,601	1,718,413	3,863,314
CANADA .....	34	30,495	59,442,679	4,007,840	83,069,419	159,156,587

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1943 and 1944 (Concluded)

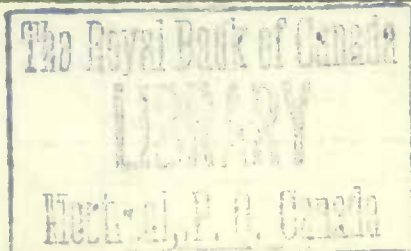
Province	Number of plants	Average number of employees	Salaries and wages \$	Cost of fuel and electri- city at works \$	Cost of materials at works \$	Gross selling value of prod- ucts at works \$
<u>1944</u>						
Nova Scotia and New Brunswick ..	3) 1)	2,315	4,418,528	305,993	5,087,357	10,306,710
Quebec .....	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

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1943 and 1944

Province	Average Number of Employees					Salaries \$	Wages \$	TOTAL SALARIES and WAGES \$
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
<u>1943</u>								
Nova Scotia and New Brunswick...	103	8	1,793	12	1,916	287,211	3,210,295	3,497,506
Quebec .....	1,020	229	14,363	176	15,788	2,654,906	28,830,354	31,485,260
Ontario .....	459	149	5,871	389	6,868	1,418,687	11,834,076	13,252,763
Manitoba .....	221	12	4,556	...	4,789	580,352	8,599,498	9,179,850
Alberta .....	67	1	1,066	...	1,134	177,663	1,849,637	2,027,300
TOTAL .....	1,870	399	27,649	577	30,495	5,118,819	54,323,860	59,442,679
<u>1944</u>								
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

Table 4 - WAGE-EARNERS, BY MONTHS, 1943 and 1944 (Number on payroll on last work-day of each month)

Month	1943			1944		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	29,412	660	30,072	27,796	488	28,284
February .....	28,939	690	29,629	27,657	442	28,099
March .....	28,967	706	29,673	27,472	415	27,887
April .....	28,407	682	29,089	27,148	407	27,555
May .....	27,604	673	28,277	27,333	423	27,756
June .....	26,991	561	27,552	27,107	429	27,536
July .....	26,923	460	27,383	26,933	434	27,367
August .....	27,000	459	27,459	26,982	447	27,429
September .....	26,955	513	27,468	26,818	466	27,284
October .....	26,841	518	27,359	27,246	492	27,738
November .....	26,762	510	27,272	27,465	516	27,981
December .....	27,006	500	27,506	27,548	555	28,103
AVERAGE .....	27,649	577	28,226	27,293	459	27,752



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Table 5 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1944 (In one week of highest employment; overtime included)

Hours worked per week	Male	Female	TOTAL
30 hours or less .....	479	17	496
31-43 hours .....	3,370	70	3,440
44 hours .....	8,360	105	8,465
45-47 hours .....	1,952	36	1,988
48 hours .....	9,718	362	10,080
49-50 hours .....	1,748	15	1,763
51-54 hours .....	1,641	8	1,649
55 hours .....	388	...	388
56-64 hours .....	1,046	...	1,046
65 hours and over .....	256	...	256
TOTAL .....	28,958	613	29,571
Total wages paid in selected week .....	\$ 1,145,814	15,087	1,160,901

Table 6 - FUEL AND ELECTRICITY USED, 1943 and 1944

Kind	Unit of measure	1 9 4 3		1 9 4 4	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal: Canadian .....	ton	115,457	592,540	95,097	537,757
Imported .....	ton	155,507	1,097,473	132,901	1,032,376
Anthracite coal .....	ton	514	6,770	447	6,000
Lignite coal--Canadian .....	ton	63,163	83,893	99,011	297,998
Coke .....	ton	2,658	34,629	2,389	31,221
Gasoline .....	Imp.gal.	116,760	40,612	130,692	34,441
Kerosene .....	Imp.gal.	111,541	14,467	39,321	8,388
Fuel oil .....	Imp.gal.	7,140,455	567,855	7,756,838	594,947
Wood .....	cord	337	2,474	426	3,290
Gas: Manufactured .....	M cu.ft.	623,775	363,661	560,726	217,916
Natural .....	M cu.ft.	2,040	822	1,567	681
Other fuel .....	...	...	1,026	...	576
Electricity purchased .....	K.W.H.	130,799,166	1,101,618	130,849,427	1,095,419
TOTAL .....	...	...	3,907,840	...	3,861,080
Electricity generated: (a) For own use .....	K.W.H.	7,185,811	...	13,368,289	...
(b) For sale .....	K.W.H.	25,269,433	211,165	24,300,832	199,822

Table 7 - POWER EQUIPMENT, 1943 and 1944

	Ordinarily in Use		On Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 3</u>				
Steam engines and steam turbines .....	29	16,833	11	5,971
Electric motors run by purchased power ..	6,959	105,729	99	1,923
TOTAL .....	6,988	122,562	110	7,894
Electric motors run by power generated by above primary units .....	636	11,422	47	1,108
Stationary boilers .....	85	35,322	1	600
Motor-generator sets .....	20	2,574	2	155
<u>1 9 4 4</u>				
Steam engines and steam turbines .....	27	16,943	12	5,621
Electric motors run by purchased power ..	7,398	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 power boilers .....	87	38,598	1	600
Motor-generator sets .....	52	4,936	4	555

Table 8 - MATERIALS USED, 1943 and 1944

1943 - 1944					
Material	Unit of measure	1943		1944	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Iron and steel -					
Pig iron .....	ton	24,518	614,230	31,638	824,068
Castings, iron .....	ton	9,641	1,230,152	11,070	1,510,980
Forgings, steel .....	ton	9,713	1,564,393	13,573	1,876,848
Billets, steel .....	ton	100,375	6,034,896	83,969	4,983,575
Bars and rods, steel .....	ton	48,516	3,103,926	44,118	3,004,139
Wire, steel .....	ton	417	209,491	555	231,058
Shafting, steel .....	ton	133	18,649	9,966	905,224
Plates, steel .....	ton	79,481	5,021,410	73,000	4,429,994
Sheets, steel .....	ton	14,364	970,375	19,139	1,255,379
Strip, steel .....	ton	256	32,899	356	45,035
Structural shapes, steel .....	ton	35,341	2,131,999	36,297	2,160,773
Castings, steel .....	ton	24,777	5,052,503	31,822	6,739,613
Alloy steel .....	ton	...	207,917	1,455	340,392
Scrap iron and steel .....	ton	157,674	2,259,734	155,313	2,263,566
Other iron and steel .....	ton	...	375,329	...	845,718
Non-ferrous metals -					
Aluminum .....	pound	188,576	92,000	128,462	62,491
Brass and bronze .....	pound	6,013,691	1,243,463	7,378,446	1,631,583
Copper .....	pound	174,291	61,018	183,227	51,079
Lead .....	pound	341,020	20,137	518,147	29,260
Nickel .....	pound	53,517	19,843	56,051	18,485
Tin .....	pound	7,216	3,762	7,129	4,290
Zinc .....	pound	8,858	780	21,936	1,559
Babbitt metal and solder .....	pound	213,462	42,229	203,795	39,293
Other non-ferrous metals .....	pound	...	43,675	...	28,345
Ferromanganese .....	ton	595	70,457	1,560	81,307
Ferrosilicon .....	ton	514	22,373	712	31,829
Other materials and supplies -					
Iron and steel pipe, tubes and fittings .....	...	...	954,616	...	1,152,304
Paints, oil and varnishes .....	...	...	786,661	...	967,445
Centres .....	No.	...	39,949	1,832	82,885
Tires .....	No.	...	1,564,790	...	2,035,473
Wheels .....	No.	...	2,123,537	...	2,604,738
Springs .....	...	...	282,442	...	364,687
Foundry coke .....	ton	27,698	459,428	30,645	531,797
Moulding sands .....	ton	14,100	61,858	14,676	74,989
Core sands .....	ton	6,937	22,344	4,969	18,800
Silica sand for sand blasting .....	ton	3,979	31,479	1,559	9,683
Plumbago and graphite .....	pound	116,641	6,312	125,202	8,803
Foundry facings .....	...	...	38,444	...	39,392
Lumber .....	M bd. ft.	42,157	3,219,828	53,373	3,443,179
Firebrick and cupola blocks ..	...	...	100,866	...	145,984
Fireclay .....	ton	1,863	15,861	2,627	19,464
Core oil and core compounds ..	...	...	39,106	...	39,536
All other materials .....	...	...	42,872,658	...	33,497,087
TOTAL .....	...	...	83,069,419	...	78,432,377



Table 9 - PRODUCTS MANUFACTURED, 1943 and 1944

Product	Unit of measure	1 9 4 3		1 9 4 4	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
Brakes, brake beams, brake shoes and parts	...	...	1,042,450	...	1,126,330
Cars, standard steam railway, complete -					
Passenger .....	number	26	1,203,536	4	82,625
Freight .....	number	6,222	23,502,818	9,251	35,852,783
Cars, narrow gauge for mines, quarries, etc.	number	...	607,074	418	105,871
Locomotives, new .....	number	99	10,802,695	190	18,915,916
Wheels for railway cars .....	...	...	5,168,959	...	6,575,408
Castings, grey iron (sold) .....	ton	25,854	2,628,489	22,004	2,143,644
Forgings (sold) .....	ton	7,819	1,225,952	...	1,351,135
Other parts for cars and locomotives .....	...	...	5,592,130	...	7,431,913
Scrap iron and steel .....	ton	43,012	699,629	61,028	1,314,356
Repairs on freight cars .....	...	...	11,773,147	...	14,014,199
Repairs on passenger cars .....	...	...	9,244,722	...	10,090,612
Repairs on locomotives .....	...	...	16,968,215	...	20,060,154
Receipts from other custom and repair work	...	...	2,241,632	...	2,153,762
Munitions and armaments .....	...	...	37,225,655	...	13,288,625
All other products .....	...	...	29,229,484	...	31,619,447
TOTAL .....	...	...	159,156,587	...	166,126,828
Add value of work done in 1944 but not completed .....					7,760,857
Deduct value of work done in 1943 on cars, etc., completed in 1944 .....					173,887,685
TOTAL VALUE OF PRODUCTION 1944 .....					6,081,078
					167,806,607

Table 10 - PRODUCTION IN CANADA OF RAILWAY CAR WHEELS, RAILWAY CARS AND LOCOMOTIVES, 1934-1944

Year	Railway car wheels	Standard Railway Cars		Standard Locomotives	
		Number	Selling value at works \$	Number	Selling value at works \$
1934 .....	1,860,603	31	150,315	...	...
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

(x) Includes 4,729 box cars, 220 tank cars, 100 refrigerator cars, 7 flat cars and 1,166 other types in 1943; and 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.

Table 11 - PRODUCTION IN CANADA OF FINISHED RAIL FASTENINGS, 1934-1944

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	\$
1934 .....	17,923	18,460	834,258	3,573	3,919	224,457
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	1,123,925	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

Table 12 - PRODUCTION IN CANADA OF RAILWAY SPIKES, 1934-1944

Year	Tonnage made	Tonnage sold	Income from sales
	tons	tons	\$
1934 .....	6,886	6,759	393,799
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 .....	10,217	9,730	641,178

Table 13 - IMPORTS INTO CANADA AND EXPORTS OF SPECIFIED RAILWAY EQUIPMENT, 1943 and 1944

Item		1943		1944	
		Quantity	Value	Quantity	Value
			\$		\$
(a) Imports					
Railway cars—Box and flat .....	No.	52	21,726	8	5,800
Tank .....	No.	29	89,072	8	38,191
Passenger .....	No.	3	23,976	1	11,100
Other .....	No.	91	271,597	101	124,011
Railway car parts .....	...	...	263,945	...	319,955
Motor rail cars or units for use on railways, and chassis for same, and parts .....	No.	36	246,691	79	464,786
Railway locomotives .....	No.	33	304,535	19	198,647
Locomotive chassis, tops, wheels and bodies ....	...	...	36,423	...	40,157
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.	30	892,482	32	1,059,461
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 ...	...	...	903,615	...	1,041,291
Pressed wheels for use on railway rolling stock. ...	...	...	55,512	...	53,758
Steel wheels, other, for use on railway rolling stock .....	...	...	412,339	...	334,378
Tires of steel, in the rough, not drilled or machined in any manner, for railway vehicles...	cwt.	192,322	885,040	232,040	1,070,357
(b) Exports					
Railway cars and coaches, and parts .....	No.	61	3,910,560	39	2,579,346
Locomotives and parts .....	No.	37	3,188,798	122	10,683,348

## LIST OF FIRMS IN THE RAILWAY ROLLING STOCK INDUSTRY, 1944

Name	Location of Works
<u>Nova Scotia -</u>	
Canadian Car & Foundry Company Limited	Amherst
Dominion Wheel Foundries, Ltd.	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	Rivières 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
Dominion Brake Shoe Company Limited	1000 Talbot Street, St. Thomas
Dominion Wheel Foundries, Ltd.	171 Eastern Avenue, Toronto
Dominion Wheel Foundries, Ltd.	Princess Street, Cobourg
Fairmont Railway Motors Limited	58 Palham Avenue, Toronto
Hammant 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, Ltd.	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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