Rail Trends 2024



Railway Association of Canada



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Member Companies 2023

ACR	Agawa Canyon Railroad, ULC (incl. Agawa Canyon Tour Train, ACTT)
AMC	ArcelorMittal Infrastructure Canada S.E.N.C.
AMTK	Amtrak
APR	Alberta Prairie Railway Excursions
BCR	BCR Properties Ltd.
BCRY	Barrie-Collingwood Railway
BNSF	BNSF Railway Company
BRR	Battle River Railway NGC Inc.
BSR	Big Sky Rail Corp.
BTRC	Boundary Trail Railway Co.
CBNS	Cape Breton & Central Nova Scotia Railway
CEMR	Central Manitoba Railway Inc.
CFC	Train Touristique de Charlevoix Inc.
CFL	Compagnie du Chemin de Fer Lanaudière Inc.
CN	Canadian National Railway
CPKC	Canadian Pacific Kansas City
CR	Capital Railway
CFRR	Romaine River Railway Company
CSX	CSX Transportation Inc.
CTRW	Carlton Trail Railway
EMRY	Eastern Maine Railway Company
ETR	Essex Terminal Railway Company
EXO	exo
GEXR	Goderich-Exeter Railway Company Limited
GIO	GIO Rail Holdings Corporation (incl. Trillium Railway (TRRY) and St. Thomas, Aylmer, Tillsonburg Railway (STTY))
GO	Metrolinx
GWRS	Great Western Railway Ltd.
HBRY	Hudson Bay Railway
HCRY	Huron Central Railway Inc.
KLTR	Knob Lake and Timmins Railway
KRC	Keewatin Railway Company

LMR	Last Mountain Railway
NBSR	New Brunswick Southern Railway Company Limited
NCR	Nipissing Central Railway Company
NS	Norfolk Southern Railway
ONR	Ontario Northland Transportation Commission
OSR	Ontario Southland Railway Inc.
OVR	Ottawa Valley Railway
PDCR	Prairie Dog Central Railway–Vintage Locomotive Society Inc.
QGRY	Québec Gatineau Railway Inc.
QIO	Quebec Iron Ore Inc.
QNSL	Québec North Shore and Labrador Railway Company Inc.
RMR	Great Canadian Railtour Company Ltd.
RS	Roberval and Saguenay Railway Company
SFG	Société du chemin de fer de la Gaspésie
SFP	SFP Pointe-Noire (Chemin de fer Arnaud Québec)
SLQ	St. Lawrence & Atlantic Railroad (Québec) Inc.
SOR	Southern Ontario Railway
SRY	Southern Railway of British Columbia Ltd. (incl. Southern Railway of Vancouver Island (SVI))
SSHR	South Simcoe Railway
STPP	St. Paul & Pacific Northwest Railroad Company LLC
TRT	Tshiuetin Rail Transportation Inc.
TTR	Toronto Terminals Railway Company Limited
UP	Union Pacific Railroad Company
VDS	Immeuble VDS Inc.
VIA	VIA Rail Canada Inc.
WCE	West Coast Express Ltd.
WP&YR	White Pass and Yukon Route Railroad

Current membership: https://www.railcan.ca/membership/member-railways/

Associate Members 2023

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Current associate membership: <u>https://www.railcan.ca/membership/rac-associate-members/</u>

Foreword

This is the 32nd edition of *Rail Trends*. For over 30 years, the Railway Association of Canada (RAC) has issued its annual report on Canada's rail industry. This publication contains a rolling 10-year review of financial and statistical results, reflecting multiple aspects of railway performance in Canada.¹ This edition covers the 2014 to 2023 period.

The data in Rail Trends are reported by RAC member railways,² including:

- 38 shortline freight railways
- 6 Class 1 freight railways³
- 6 tourist railways
- 5 commuter railways
- 3 intercity passenger railways

Canadian Class 1 freight railways (CN and CPKC⁴) account for the majority of freight rail activity in Canada. For this reason, the freight data presented in *Rail Trends* largely reflects the performance of these two Class 1 carriers.

RAC members account for the vast majority of non-Class 1 railway activity in Canada. However, this report does not capture data from non-members; it is therefore not representative of the entire sector. Data pertaining to non-Class 1 railways in this report should be viewed with that lens.

¹ In some cases, relative variations over time reflect a change in the way certain members report data, or a change in membership.

² Some railways perform more than one service (e.g., shortline freight and intercity passenger). To avoid double-counting, railways are listed by their primary service.

³ Data from the four U.S. Class 1 railways are treated as shortline data in the Rail Trends Reports.

⁴ Canadian Pacific (CP) and Kansas City Southern (KCS) combined on April 14, 2023, to create Canadian Pacific Kansas City (CPKC). The data in the *Rail Trends* reports reflect Canadian operations.

Rail Trends data are categorized into the following sections:

- Freight Transportation
- Fuel
- Passenger transportation
- Safety
- Operating finances, investments, and taxes
- Employment
- Track and equipment

Data reflects performance in Canada only. All monetary statistics are in Canadian dollars. Figures may not add up to totals due to rounding. Definitions of terms that are capitalized are included in the glossary in <u>Appendix A</u>, conversion factors can be found in <u>Appendix B</u>, safety-specific definitions are provided in <u>Appendix C</u>, and notes on statistical revisions are provided in <u>Appendix D</u>.

Readers' Comments

Comments on this report may be addressed to:

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Executive Summary

Canada's railways are making an investment in this country's future. These investments enhance the safety, efficiency, and capacity of the Canadian rail network, which underpins cost-effective supply chains. These are investments in people, good jobs, and essential public services (through record tax contributions). Moreover, investments in rail help to reduce Canada's transportation sector emissions, as rail continues to be the most fuel efficient mode of ground transportation available.

In 2023, Canadian railways invested \$2.9 billion in their Canadian assets, bringing the total to more than \$22.7 billion over the past decade. These investments in track, rolling stock, technology, and other equipment improve the safety, efficiency, capacity, and fluidity of Canadian supply chains. In fact, average railway dwell times remained below ten hours in 2023, while ports' average terminal dwell times and delays for late marine vessels remained above 100 hours.

The safety performance of Canada's railways in 2023 was exceptional. Compared to 2022, the total number of accidents decreased by 8.5%, the passenger train accident rate improved by 52.4%, the freight accident rate improved by 7.7%, and the dangerous goods accident rate decreased by 15.9%.

Rail freight rates remained amongst the most competitive in the world, supporting cost-effective supply chains, which is critical for a country where trade is equal to two-thirds of its GDP. Rail freight rates increased by just 2.1% compared to a 3.9% increase in the Consumer Price Index. Since 1998, following enactment of the *National Transportation Act, 1987*, railway freight rates have increased by much less than consumer prices, industrial product prices, and commodity prices, all of which have more than doubled.

Canada's railways continued to make significant investments in people. The average industry wage increased by \$1,700 to over \$106,000, which is approximately 50% higher than the average full-time Canadian salary. Railways added 2,000 direct industry jobs, bringing the workforce to 37,400 strong-37,400 dedicated railroaders that work through all conditions to deliver for Canadians and the future of Canada's economy. And this workforce better reflected the diversity of Canadians than in years past, as the representation of women and workers from diverse groups increased-including persons with disabilities, visible minorities, and Indigenous peoples.

In 2023, the rail sector maintained its status as the most fuel-efficient means of transporting goods and people over land. Freight and passenger railways will continue to play a key role in the decarbonization of Canada's transportation sector and the economy overall. Freight railways were able to move one tonne of goods 228 kilometres on a single litre of fuel. Passenger railways regained more of the ridership that they had lost

during the pandemic, year-over-year, the number of commuters increased by 70.5% and intercity passengers increased by 30.7%.

Regarding taxation, the industry set a consecutive record for taxes paid to federal and provincial governments—more than \$2.5 billion, representing a 12.8% year-over-year increase.

Despite the positive momentum created by the solid performance of Canada's railways, there exist serious challenges for the industry that put supply chain improvement and investment at risk. These are not insurmountable. In fact, the government could take decisive action to minimize these risks and create opportunities for growth.

Canadian labour instability and frequent work stoppages (or threat thereof) are increasingly impacting supply chain performance and Canada's reputation as a reliable trading partner. The 13-day B.C. ports strike in July 2023 brought Canadian supply chains to a standstill and its impacts have shown to be lasting. This is just one example in a wave of labour disruption that continues to threaten important trading and business relationships.

The country needs a supportive tax environment to support Canadian competitiveness. Implementing accelerated depreciation measures for all supply chain players would increase investment and bolster Canadian supply chains, supporting all economic sectors. First-mile last-mile rail infrastructure could be strengthened through a track maintenance tax credit. Programs at both the federal and state level have shown to be effective at driving significant investment in shortline rail infrastructure in the U.S.

Lastly, there needs to be a pause, and reverse, on the ever-increasing regulatory burden and economically damaging policies like extended regulated interswitching. In a country like Canada that is in need of an economic boost, there is no place for such policies that threaten unionized jobs, put a disincentive on investment and place Canadian railways at a competitive disadvantage vis-a-vis American ones.

Industry and government can work together to address these issues and foster the conditions for investment and prosperity moving forward.

A 10-year Snapshot of Rail in Canada

	2014	2022	2023
Freight Traffic			
Revenue ton-miles (billions)	289.9	301.0	305.0
Revenue tonne-kilometres (billions)	423.2	439.4	445.3
Gross ton-miles (billions)	544.4	564.5	565.6
Gross tonnes-kilometres (billions)	794.8	824.0	825.7
Freight train-miles (thousands)	70,525.9	62,615.3	63,925.0
Freight train-kilometres (thousands)	113,500.2	100,769.3	102,877.1
Carloads originated (thousands)	4,332.2	5,593.8	5,592.5
Tons originated (thousands)	319,780.8	367,989.6	378,290.6
Tonnes originated (thousands)	290,105.1	333,839.9	343,185.0
Intermodal carloads originated (thousands)	1,072.3	2,012.0	1,912.1
Freight revenue per ton-mile (cents)	4.58	5.95	6.08
Freight revenue per tonne-km (cents)	3.14	4.07	4.16
Gallons of fuel consumed (millions)	484.2	444.9	453.4
Litres of fuel consumed (millions)	2,201.3	2,022.4	2,061.4
RTM per gallon of fuel consumed	626.3	711.4	711.0
RTK per litre of fuel consumed	201.1	228.5	228.3
Passenger Transportation			
Total passengers carried (thousands)	80,366	31,367	52,242
Financial Information			
Operating revenues (millions)	14,641.1	20,474.9	20,932.2
Operating expenses (millions)	11,570.5	13,596.8	13,944.1
Operating income (millions)	3,070.6	6,878.1	6,988.1

	2014	2022	2023
Investments			
Total investments (millions)	1,808.2	2,423.6	2,935.4
Taxes			
Taxes paid (millions)	1,148.4	2,230.5	2,515.6
Employment			
Employees	33,323	35,404	37,401
Average wage per employee	91,798	104,443	106,157
Track and Equipment			
Total miles of freight track operated	27,304	26,439	26,469
Total kilometres of freight track operated	43,942	42,550	42,597
Freight cars (thousands)	58.6	55.8	52.9
Locomotives	2,700	3,828	4,252



Freight Transportation

REVENUE TON-MILES, GROSS TON-MILES AND FREIGHT TRAIN-MILES

Over the past decade, the freight rail sector has grown. Freight traffic, measured by REVENUE TON-MILES (RTMs),⁵ increased by 5.2% while the freight sector's total workload, measured by GROSS TON-MILES (GTMs), increased by 3.9%.

Measured in RTMs, overall freight traffic in 2023 was 1.3% higher than in 2022. GTMs were relatively flat, increasing by 0.2% compared to 2022.

The distance travelled by Canada's freight trains, measured in freight TRAIN-MILES (FTMs), increased by 2.1% compared to 2022. The general trend over the past decade towards longer and heavier trains, which enable railways to carry more traffic without a corresponding increase in TRAIN MILES, did not continue in 2022 and 2023. The average train became slightly shorter and lighter in 2022 and again in 2023 (see *Freight Train Statistics on page 23*).

	RTM (millions)	RTK (millions)	GTM (millions)	GTK (millions)	FTM (thousands)	FTK (thousands)
2014	289,890	423,197	544,443	794,808	70,526	113,500
2015	286,869	418,786	545,136	795,819	68,407	110,091
2016	280,217	409,075	525,771	767,549	62,023	99,816
2017	298,825	436,240	565,148	825,034	65,437	105,310
2018	312,758	456,581	593,461	866,366	68,571	110,354
2019	312,216	455,790	592,862	865,491	68,377	110,041
2020	309,831	452,308	580,971	848,133	63,383	102,004
2021	303,883	443,624	571,720	834,628	61,611	99,154
2022	300,986	439,395	564,452	824,017	62,615	100,769
2023	305,020	445,285	565,589	825,677	63,925	102,877

RTMs, GTMs and FTMs

5 Definitions of terms that are capitalized are found in Appendix A-Glossary.



RTMs, GTMs and FTMs

CARLOADS

From 2022 to 2023, the number of Canadian originating carloads remained flat while tonnage increased by 2.8%. Year-over-year, the number of intermodal carloads decreased, which were offset by an increase in non-intermodal carloadings, led by agricultural products. The average weight of an INTERMODAL carload, even with double stacking of containers, is significantly less than that of a non-INTERMODAL carload, which helps explain how tonnage increased without a corresponding increase in carloads.⁶

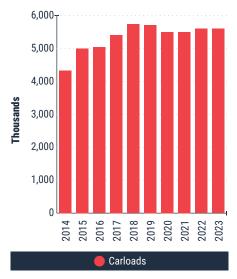
The opposite trend is observed when looking back over the past decade. From 2014 to 2023, the number of INTERMODAL carloads nearly doubled (+78.3%), while non-INTERMODAL carloads increased by just 15.5% (see *Ereight Carloads and Revenues by Commodity on page 17*).

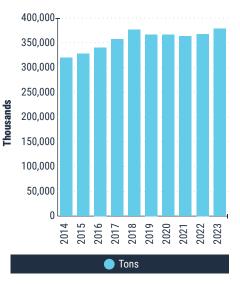
⁶ Data from Statistics Canada's Monthly Railway Carloadings show that in 2023, the average weight of a non-intermodal carload was 85.9 tonnes, compared to 15.3 tonnes for an intermodal unit (or 30.6 tonnes if intermodal units are double stacked on a single railcar).

	Carloads originated (thousands)	Tons originated (thousands)	Tonnes originated (thousands)
2014	4,332	319,781	290,105
2015	4,995	328,212	297,754
2016	5,035	340,628	309,017
2017	5,410	357,152	324,008
2018	5,732	376,625	341,674
2019	5,708	366,956	332,903
2020	5,497	366,396	332,394
2021	5,493	363,479	329,748
2022	5,594	367,990	333,840
2023	5,593	378,291	343,185

Originating Carloads and Tonnage

Originating Carloads and Tonnage





FREIGHT CARLOADS AND REVENUES BY COMMODITY

RAC tracks 11 commodity groupings of freight moved by railways in Canada. Over the past decade, the commodity groupings that experienced the most significant increases in carloads include intermodal (839,798 or 78.3%), minerals (480,984 or 71.1%), and manufactured & miscellaneous goods (95,394 or 93.8%).⁷

7 The largest increases and decreases are listed by absolute number of carloads, and not percentage.



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	Agriculture Coal	Coal	Minerals	Forest products	Metals	Machinery & automotive	Fuel & chemicals	Paper products	Food products	Manufactured & miscellaneous	Intermodal	Total Commodities*
2014	547,122	336,632	676,865	213,980	157,086	193,294	593,186	139,110	61,993	101,733	1,072,278	4,093,278
2015	537,013	303,932	854,186	235,169	150,273	178,429	579,254	133,800	62,160	112,194	1,683,988	4,830,398
2016	511,228	309,403	859,479	257,774	151,609	199,927	565,331	130,882	68,951	99,480	1,669,892	4,823,956
2017	527,271	326,228	937,737	251,273	165,404	189,632	617,792	129,675	79,041	118,651	1,828,225	5,170,929
2018	542,722	337,323	1,060,395	260,377	178,784	214,592	622,769	140,822	78,864	181,935	1,878,392	5,496,976
2019	538,726	361,067	1,027,286	225,031	164,230	208,879	645,268	127,821	80,009	178,379	1,927,291	5,483,989
2020	615,441	323,880	1,086,036	213,474	156,271	154,487	535,268	113,001	87,050	194,640	1,905,493	5,385,041
2021	483,085	321,232	1,105,311	198,714	168,593	126,451	565,748	97,884	79,547	180,944	1,955,771	5,283,280
2022	413,939	352,549	1,145,610	196,436	172,511	138,403	558,806	92,140	65,990	203,449	2,012,003	5,351,835
2023	511,980	380,283	1,157,850	185,071	170,724	186,048	533,786	85,673	79,371	197,126	1,912,076	5,399,988
* Not al carlos	* Not all RAC member companies rel carloads originated (page 16).			iginated by co	mmodity grou	ping. As a result, t	the total numbe	er of carloads o	riginated by co	oort carloads originated by commodity grouping. As a result, the total number of carloads originated by commodity grouping is lower than the total number of	lower than the t	total number of





In 2023, as was the case in 2022, intermodal, minerals, fuels & chemicals, and agriculture were the largest groupings of carloads transported by Canada's railways, accounting for over three-quarters of total carloads.

Five commodity groupings experienced increases in carloads from 2022 to 2023, including agriculture (98,041 or 23.7%), machinery & automotive (47,645 or 34.4%), coal (27,734 or 7.9%), food products (13,381 or 20.3%), and minerals (12,240 or 1.1%). The 2022 grain crop was significantly larger than the 2021 crop, which was affected by severe drought in the Prairies. The 2022 bumper crop, much of which is carried over and shipped throughout 2023, supported the strong year-over-year increase in agricultural shipments in 2023. Automotive remained a bright spot throughout the entire year, as pent-up demand (following the supply shortages experienced in the early days of the pandemic) remained strong.

The other six commodity groupings experienced decreases compared to 2022. Intermodal experienced the most significant decrease in carloads (-99,927 or -5.0%) followed by fuels & chemicals (-25,020 or -4.5%), forest products (-11,365 or 5.8%) and paper products (-6,467 or 7.0%). Several factors contributed to the reduction in intermodal volumes and other consumer-driven lines of business, including soft consumer demand throughout the year, a weak macroeconomic environment, the 13-day B.C. ports strike and resulting traffic diversions to U.S. ports, as well as enhanced pricing pressure from the trucking sector.

The commodity groupings with the higher numbers of carloads tend to generate higher revenues, as would be expected; however, there are some notable differences. The top four commodities by carloads are the same as the top four by revenues, but the order and shares are a bit different. As documented in Canadian railways' public reports, freight revenues per carload and per ton-mile vary by commodity, and the average length of haul can vary by commodity as well. In 2023, intermodal, agriculture, fuel & chemicals, and minerals were the largest revenue generators for Canadian railways, accounting for nearly two-thirds of freight revenues.

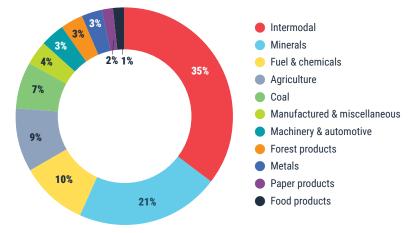
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Agriculture	1,725	1,871	1,731	1,865	2,040	2,129	2,431	1,974	1,927	2,457
Coal	760	632	628	695	768	837	725	692	829	922
Minerals	1,030	1,336	1,061	1,101	1,555	1,544	1,390	1,344	1,564	1,681
Forest products	702	857	952	918	968	899	868	919	1,039	1,017
Metals	501	487	429	478	557	513	481	548	634	685
Machinery & automotive	481	541	567	552	664	630	489	474	605	794
Fuel & chemicals	1,756	1,934	1,719	1,824	1,944	2,137	1,759	1,905	2,186	2,211
Paper products	393	426	423	425	477	445	415	396	427	436
Food products	181	235	258	295	305	326	373	343	321	410
Manufactured & miscellaneous	177	192	181	221	510	516	578	645	823	837
Intermodal	2,162	2,171	2,135	2,354	2,566	2,580	2,553	2,731	3,302	3,097
Total Commodities*	9,869	10,682	10,083	10,728	12,355	12,557	12,062	11,971	13,659	14,551

Freight Revenue by Commodity Grouping (\$ millions)

*Not all RAC member companies report revenue from carloads originated by commodity grouping. The data in this section reflect reported freight revenue from originated carloads grouped by commodity grouping. As a result, total freight revenue from carloads originated by commodity grouping is lower than total freight operating revenue (<u>page 41</u>).

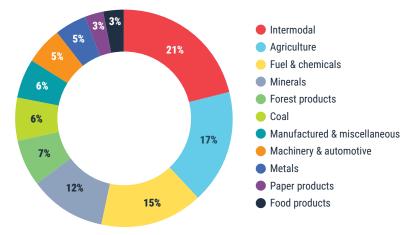


The figures below illustrate the distribution of originating carloads and freight revenues by commodity grouping.



Originating Carloads by Commodity Grouping, 2023

Freight Revenue by Commodity Grouping, 2023



FREIGHT TRAIN STATISTICS

Freight Train Statistics

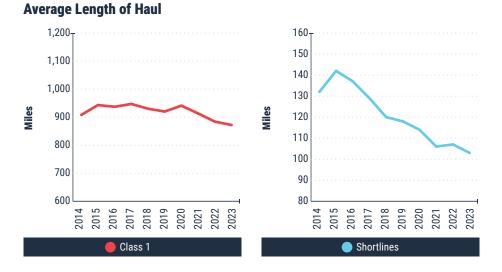
	Average le by Class 1 Miles	ngth of haul railways Kilometres		ength of haul ne railways Kilometres	Average cars per freight train Cars	Average train weight Tons
2014	908	1,462	132	213	100	7,720
2015	943	1,517	142	228	102	7,968
2016	937	1,508	137	220	108	8,477
2017	947	1,524	129	208	114	8,636
2018	930	1,496	120	192	113	8,654
2019	920	1,481	118	190	114	8,670
2020	941	1,515	114	184	120	9,159
2021	913	1,470	106	171	121	9,279
2022	884	1,423	107	172	116	9,014
2023	872	1,403	103	166	112	8,847

In 2023, shipments transported by Canada's CLASS 1 RAILWAYS (CN and CPKC) travelled an average distance⁸ of 872 miles (1,403 kilometres), which is 1.4% shorter than in 2022. Shipments carried by Canada's SHORTLINE RAILWAYS travelled an average distance of 103 miles (166 kilometres), which is 3.7% shorter than in 2022.

The average length of haul varies significantly across SHORTLINE RAILWAYS due to variations in the length of TRACK OPERATED.⁹ Many factors could contribute to changes in the average length of haul. In addition to changes in traffic origin and destination, average haul can be impacted by shifts in traffic shares between railways (that have different average hauls) or shifts in commodity shares (as average haul varies by commodity).

⁸ The average length of haul is calculated by dividing revenue ton-miles (revenue tonne-kilometres) by total tons (tonnes). Data from railways that do not report both metrics are excluded from the calculation.

⁹ In 2023, the length of track operated by Canadian shortline railways ranged from just a few miles to over 700 miles, with a median length of around 85 miles and average of around 140.



Average train length and weight did not continue their upward trend in 2022 or 2023. In 2023, the average number of cars¹⁰ per freight train decreased by 3.6% from 2022 but remained 11.7% above the 2014 level. The average train weight¹¹ decreased by 1.9% from 2022 but remained 14.6% above the 2014 level. In 2023, the average train carried 112 cars and weighed 8,847 tons.



10 The average number of cars per freight train is calculated by dividing loaded & empty car-miles (car-kilometres) by freight train-miles (trainkilometres). Data from railways that do not report both metrics are excluded from the calculation.

11 Average train weight is calculated by dividing gross ton-miles by freight train-miles. Data from railways that do not report both metrics are excluded from the calculation.

24

FREIGHT RATES

Freight revenue per ton-mile is a good measure of railway freight rates. It shows the revenue collected by railways for moving a certain amount of goods over a certain distance.¹² A January 2023 study found that Canada's freight rates were the lowest among all market-based economies examined.¹³

In 2023, rail freight rates increased by 2.1%, to 4.16 cents per REVENUE TONNE-KILOMETRE or 6.08 cents per REVENUE TON-MILE. This increase was smaller than the increase in the Consumer Price Index, which edged up 3.9%. In 2023, commodity prices and industrial product prices began to come back down after two years of significant inflation—which saw commodity prices more than double and industrial product prices increase by 28.5% between 2020 and 2022.

Since 1988 (the first year in RAC's *Rail Trends* Database, following enactment of the *National Transportation Act, 1987*), railway freight rates have increased by a total of 66.5%, which is much less than the increases in consumer prices (120.6%), industrial product prices (112.7%), and commodity prices (124.1%), which have all more than doubled.

	Freight reve per _{RTM}	nue (cents) _{RTK}	Freight revenue per RTM index 1988=100	Commodity price index* 1988=100	Consumer Price Index 1988=100	Industrial product price index 1988=100
2014	4.58	3.14	125.6	226.6	175.8	160.0
2015	4.63	3.17	126.7	144.7	177.8	158.7
2016	4.51	3.09	123.7	131.8	180.3	158.4
2017	4.55	3.12	124.8	152.6	183.1	163.3
2018	4.82	3.30	132.0	166.4	187.4	169.6
2019	5.07	3.47	138.8	160.3	191.0	169.4
2020	4.97	3.41	136.2	139.8	192.4	168.7
2021	5.21	3.57	142.9	223.4	198.9	192.1
2022	5.95	4.07	163.0	285.1	212.4	216.7
2023	6.08	4.16	166.5	224.1	220.6	212.7

Freight Rates and Other Price Indices

Sources: Bank of Canada (commodity price index); Statistics Canada (Consumer Price Index; industrial product price index). *The Bank of Canada regularly revises its commodity price data.

¹² Freight revenue per ton-mile is calculated by dividing freight operating revenue by revenue ton-miles (revenue tonne-kilometres).

¹³ https://www.railcan.ca/wp-content/uploads/2023/02/International-Comparison-of-Railway-Freight-Rates-2.pdf



Freight Rates and Other Price Indices

*The Bank of Canada regularly revises its commodity price data.

PRODUCTIVITY

Freight railway labour productivity can be measured using RTMs per freight employee.¹⁴ Using this measure, employee productivity decreased by 3.8% in 2023, remaining just 2.5% above the 2014 level. The number of freight road miles per freight employee¹⁵ also decreased (-5.1% year-over-year).

Following enactment of the *National Transportation Act, 1987*, the rail sector has been a productivity leader in Canada but this is at risk. Two new government labour regulations significantly impacted rail sector productivity in 2023. A change to the Canada Labour Code, which added 10 days of paid leave for workers in federally regulated sectors, came into force in December 1, 2022; and Duty and Rest Period Rules (DRPR) for Railway Operating Employees came into effect on May 25, 2023.¹⁶ Ultimately, these changes require extra labour to service the same amount of freight traffic–adding scheduling complexity, increasing costs, and reducing productivity.

¹⁴ Freight rail labour productivity is calculated by dividing the total revenue ton-miles by the average number of freight railway employees, each year. Data from railways that don't report both metrics are excluded from the calculation.

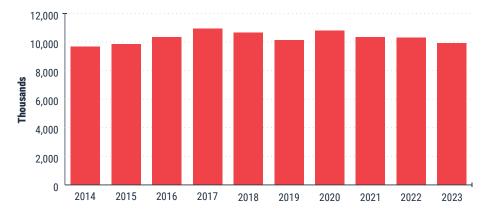
¹⁵ Road miles per employee is calculated by dividing freight road miles operated by freight employment. Data from railways that don't report both metrics are excluded from the calculation.

¹⁶ The DRPR came into effect on May 25, 2023 for the freight railway companies and on November 25, 2024 for passenger railway companies.

Productivity Measures

	RTM per freight employee (thousands)	RTK per freight employee (thousands)	Road miles per freight employee	Road kilometres per freight employee
2014	9,683	14,136	0.90	1.45
2015	9,834	14,356	0.93	1.50
2016	10,329	15,079	1.00	1.61
2017	10,917	15,938	0.96	1.55
2018	10,666	15,571	0.87	1.40
2019	10,137	14,799	0.85	1.37
2020	10,795	15,759	0.90	1.45
2021	10,355	15,117	0.88	1.42
2022	10,319	15,065	0.88	1.42
2023	9,923	14,486	0.84	1.35

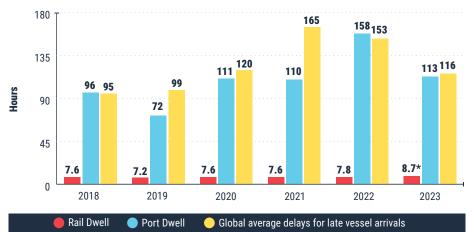
RTM per Freight Employee



SUPPLY CHAINS

Modern supply chains are complex and, when disruption occurs at one link, the impacts are felt widely and deeply across businesses, consumers, and the economy. In July 2023, Canadian supply chains were rocked, as dockworkers at B.C. ports went on strike. The work stoppage produced negative impacts on the performance of the entire supply chain, worker earnings, tax revenues, and overall economic growth and well-being. And while the strike lasted for 13 days, the impacts are lasting. Traffic diversions to U.S. ports continued for several months and Canada's reputation as a reliable trading partner remains at risk.

Canadian rail remained a healthy and strong link in these supply chains. In 2023, and every year throughout the pandemic, Canadian CLASS 1 RAILWAYS' average terminal dwell time¹⁷ remained below ten hours. Yet Canadian ports' average terminal dwell time¹⁸ increased by 120.3%, from 72 hours in 2019 to 158 hours in 2022, but has come down to 113 hours in 2023. At the global level, the ON-TIME PERFORMANCE of marine vessels decreased from 78% in 2019 to 42% in 2022, making a partial recovery to 62% in 2023 (not shown).¹⁹ For vessels that were not on-time, the average delay increased by 54.7%, from 99 hours in 2019 to 153 hours in 2022, but has come down to 116 hours in 2023.²⁰



Supply Chain Performance

* CPKC data for 2023 are reported on a combined basis as if CP's control of KCS occurred on January 1, 2023. CP and KCS officially combined on April 14, 2023. The rail dwell metric includes dwell times from across the railways' networks, including terminals throughout the U.S. and Mexico.

¹⁷ The Canadian Class 1 railways' average dwell time is calculated as a simple average of CN and CP in 2018 through 2022, and a simple average of CN and CPKC in 2023.

¹⁸ The Canadian ports' average dwell time is calculated as a simple average of the Port of Vancouver and the Port of Montreal.

¹⁹ Sea-Intelligence, Global Liner Performance (GLP) report.

²⁰ Ibid.

Fuel

In 2023, RAC member railways consumed 453 million gallons (2.1 billion litres) of fuel, a 1.9% increase compared to 2022, but remained 3.4% below the 2018–2022 average. Passenger rail fuel consumption increased by 12.2% compared to 2022, as ridership and the number of trains increased from the lows experienced during the pandemic. However, passenger fuel consumption remained below pre-pandemic levels, when ridership levels were higher. Freight rail fuel consumption (including yard and work trains) increased by 1.4%.

Diesel fuel costs came down 14.2% in 2023 to \$5.92 per gallon (\$1.30 per litre). Despite this reduction, diesel costs per gallon (or litre) in 2023 were the second highest on record.²¹ The reduction in 2023 followed two years of significant increases when costs more than doubled from \$3.22 per gallon (\$0.71 per litre) in 2020 to \$6.89 per gallon (\$1.52 per litre) in 2022.

21 RAC records date back to 1988, the first year in RAC's Rail Trends Database.



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	Total fuel consumption	nsumption	Freight fuel (incl. yard an	Freight fuel consumption (incl. yard and work train fuel)	Freight fuel consumption (excl. yard and work train	Freight fuel consumption (excl. yard and work train fuel)	Passenger fuel consumption	_	Cost of diesel fuel	sel fuel
	Gallons (thousands)	Litres (thousands)	Gallons (thousands)	Litres (thousands)	Gallons (thousands)	Litres (thousands)	Gallons (thousands)	Litres (thousands)	Per gallon (\$)	Per litre (cents)
2014	484,211	2,201,260	462,838	2,104,096	446,587	2,030,216	21,373	97,164	4.72	103.91
2015	470,084	2,137,037	445,859	2,026,907	431,476	1,961,524	24,225	110,130	3.45	75.99
2016	441,145	2,005,479	416,916	1,895,331	403,995	1,836,593	24,229	110,148	3.02	66.33
2017	475,619	2,162,199	449,509	2,043,500	435,981	1,982,001	26,110	118,699	3.43	75.54
2018	494,194	2,246,644	467,418	2,124,919	454,246	2,065,037	26,776	121,725	4.24	93.20
2019	498,062	2,264,237	468,153	2,128,266	454,315	2,065,359	29,910	135,972	4.03	88.70
2020	460,670	2,094,250	445,252	2,024,159	432,907	1,968,037	15,418	70,092	3.22	70.80
2021	447,900	2,036,194	431,647	1,962,309	419,103	1,905,283	16,253	73,886	4.20	92.39
2022	444,862	2,022,386	423,080	1,923,361	410,439	1,865,894	21,782	99,025	6.89	151.59
2023	453,433	2,061,351	428,994	1,950,248	415,786	1,890,204	24,439	111,103	5.92	130.14

FREIGHT FUEL EFFICIENCY

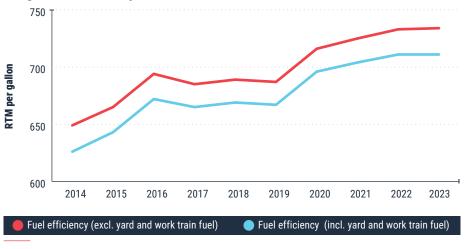
In 2023, Canadian railways maintained their status as the most fuel-efficient means of transporting goods over land. The sector continue to make significant investments in locomotive fleet modernization, fuel saving technologies, operational efficiencies, low carbon fuels, and pilot projects in zero-emissions propulsion technologies.

There is a strong correlation between train weight (or length) and fuel efficiency– heavier (or longer) trains tend to have better fuel efficiency per RTM. In 2023, average train weight decreased by 1.9%, but the sector was successful in maintaining its freight fuel efficiency at 711 RTMs per gallon (or 228 RTKs per litre).²² Since 2014, freight fuel efficiency has improved by 13.5%.

	Fuel efficiency (incl. y RTM per gallon	ard and work train fuel) RTK per litre	Fuel efficiency (excl. y RTM per gallon	r ard and work train fuel) RTK per litre
2014	626	201	649	208
2015	643	207	665	214
2016	672	216	694	223
2017	665	213	685	220
2018	669	215	689	221
2019	667	214	687	221
2020	696	223	716	230
2021	704	226	725	233
2022	711	228	733	235
2023	711	228	734	236

Freight Fuel Efficiency

Freight Fuel Efficiency



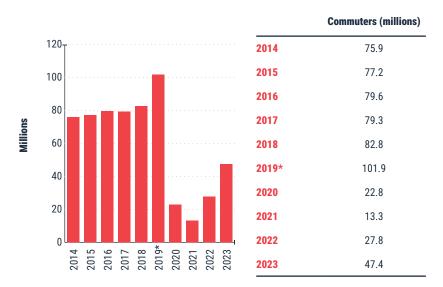
22 Including yard and work train fuel.

Passenger Transportation

In 2023, passenger rail ridership continued to climb from the pandemic-induced lows, improving across all segments of passenger railways—commuter, intercity, and tourist. However, despite significant year-over-year improvements, ridership remained well-below pre-pandemic (2019) levels.

COMMUTER RAIL

From 2022 to 2023, commuter rail ridership increased by 70.5%, from 27.8 million to 47.4 million commuters. Despite this significant growth, commuter ridership remained 53.5% below 2019 levels.



Commuter Ridership

*The significant increase in commuters from 2018 to 2019 was due to a combination of increasing ridership on commuter rail services as well as the inclusion of one additional rail service beginning in 2019.

INTERCITY PASSENGER RAIL

From 2022 to 2023, the number of intercity railway passengers (across all RAC member railways) increased by 30.7%, from 3.4 million to 4.4 million.

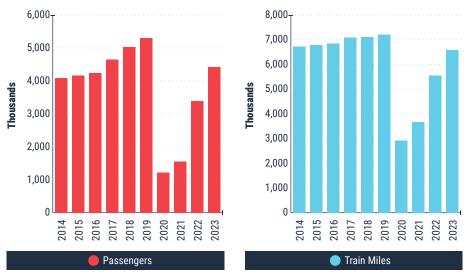
As Canada's national passenger rail service, VIA Rail accounts for the majority of intercity passenger rail traffic; therefore, the data presented in *Rail Trends* is typically very similar to the data contained in VIA Rail's annual reports. In 2023, VIA Rail ridership in the corridor increased by 24.8% as several key train frequencies were restored.²³ VIA Rail ridership also increased on every non-corridor route, resulting in an overall ridership increase of 23.3% outside the corridor.²⁴ Intercity passenger TRAIN MILES (across all RAC member railways) increased by 21.9%, and passenger CAR MILES increased by 16.0%.

	Passenger cars in	Number of passengers	Passenger		Passenger train		Passenger car	
	service	(thousands)	Miles (millions)	Kilometres (millions)	Miles (thousands)	Kilometres (thousands)	Miles (thousands)	Kilometres (thousands)
2014	552	4,094	834	1,343	6,720	10,814	41,587	66,928
2015	551	4,171	857	1,380	6,781	10,913	43,843	70,559
2016	527	4,241	876	1,409	6,850	11,024	44,884	72,234
2017	512	4,645	971	1,562	7,094	11,416	46,758	75,249
2018	495	5,028	1,011	1,626	7,107	11,438	47,030	75,688
2019	488	5,305	1,074	1,729	7,216	11,612	46,000	74,030
2020	480	1,227	229	369	2,929	4,714	14,941	24,044
2021	407	1,555	333	535	3,668	5,904	18,534	29,827
2022	397	3,385	760	1,223	5,548	8,928	34,624	55,722
2023	445	4,424	926	1,491	6,582	10,593	40,174	64,654

Intercity Passenger Rail Statistics

23 VIA Rail, Annual Report 2023.

24 VIA Rail, Annual Report 2023.



Intercity Passengers and Train Miles

In 2023, the average passenger load factor remained at 61%, which is higher than in the pre-pandemic period. The average number of passengers per train edged up 2.7%, from 137 to 141. On time performance increased from 57% to 59%. Lastly, average length of journey decreased by 2.6%, as the gain in ridership was more pronounced in the corridor where average length of journeys are shorter than outside of the corridor, on the longhaul and regional services.

Intercity Passenger Rail Performance Metrics

	Average intercity passengers per train	Average length Miles	n of journey Kilometres	Average passenger load factor (%)	On-time performance (%)
2014	124	213	343	60	76
2015	126	213	343	56	71
2016	128	216	348	54	73
2017	137	217	349	57	73
2018	142	209	336	57	71
2019	149	211	339	60	68
2020	78	198	318	45	71
2021	91	216	348	49	72
2022	137	227	365	61	57
2023	141	221	356	61	59

Safety

SAFETY OVERVIEW

The safety data presented in *Rail Trends* reflect the performance of federally and provincially regulated freight and passenger railways in Canada. The Transportation Safety Board (TSB) maintains a live database of the safety performance of all federally regulated railways. Since the data are constantly being updated and revised in the live database, the statistics will change over time. The safety data found in *Rail Trends* are an aggregate of TSB statistics and information provided to RAC by provincially regulated member railways that are not required to report to the TSB. Each organization uses the same safety definitions, and the data reflect railway operations in Canada only.

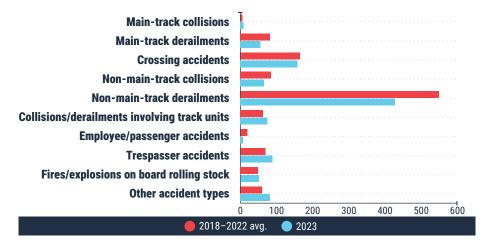
The rail industry's safety performance in 2023 was exceptional. The total number of accidents decreased 8.5% year-over-year, and was 11.0% below the 2018–2022 average. The total number of collisions and derailments was down 22.7% from the 2018–2022 average.²⁵

	2014	2018-2022 avg.	2022	2023
Main-track collisions	9	5	8	9
Main-track derailments	102	82	72	56
Crossing accidents	188	164	180	158
Non-main-track collisions	108	85	68	65
Non-main-track derailments	488	548	469	427
Collisions/derailments involving track units	27	63	83	75
Employee/passenger accidents	16	19	14	7
Trespasser accidents	55	69	84	88
Fires/explosions on board rolling stock	32	49	51	51
Other accident types	37	59	83	82
Total Accidents	1,062	1,143	1,112	1,018

Safety Summary

²⁵ Includes main-track and non-main-track collisions and derailments , does not include collisions/derailments involving track units.

Safety Overview: 2023 vs 2018-2022 Average



CROSSING AND TRESPASSING

Each year, crossing and trespasser accidents account for roughly one fifth of total rail accidents in Canada. However, this number has increased to 24% in each of the past two years. The trend in trespasser accidents is most concerning. In 2023, there were 88 accidents related to trespassing on railway property—the highest in the past decade and 26.8% above the 2018–2022 average. There were also 158 accidents at railway crossings, representing a 12.2% year-over-year improvement, but only a 3.4% reduction from the 2018–2022 average.

Rail safety is a shared responsibility. Accident rates are improving in many of the areas where railways have greater control over the outcomes (such as collisions and derailments), while accidents at crossings and trespassing remain top issues. These statistics reinforce the need for continued support of Operation Lifesaver's rail safety education and awareness activities, as well as continued advocacy for the adoption of FCM-RAC Proximity Guidelines to enhance safety and livability near railway infrastructure.

	Crossing	Trespasser	Crossing & Trespasser
2014	188	55	243
2015	180	52	232
2016	148	71	219
2017	147	76	223
2018	172	69	241
2019	183	57	240
2020	138	65	203
2021	145	72	217
2022	180	84	264
2023	158	88	246

Crossing and Trespasser Accidents

Crossing and Trespasser Accidents

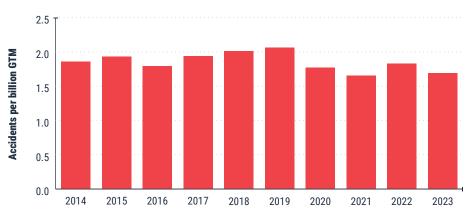


FREIGHT

In 2023, the freight accident rate improved 7.7% year-over-year to 1.69 accidents per billion GTMs. The freight accident rate was 9.3% below the 2018–2022 average. Approximately half of these accidents were collisions/derailments that occurred on non-main-track.

	Freight accidents	GTM (billions)	Accident rate (accidents per billion GTM)
2014	1,012	544.4	1.86
2015	1,051	545.1	1.93
2016	943	525.8	1.79
2017	1,094	565.1	1.94
2018	1,195	593.5	2.01
2019	1,223	592.9	2.06
2020	1,027	581.0	1.77
2021	945	571.7	1.65
2022	1,035	564.5	1.83
2023	957	565.6	1.69

Freight Accidents



Freight Accident Rate

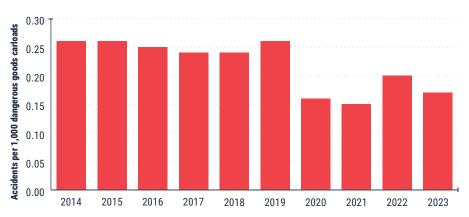
DANGEROUS GOODS

Railways continue to transport large volumes of freight classified as DANGEROUS GOODS—fulfilling their obligations as common carriers. The freight rail sector's DANGEROUS GOODS accident rate decreased by 15.9% year-over-year, cumulating in a 33.6% improvement over the past decade. In 2023, Canadian railways transported 527,490 carloads containing dangerous goods, in which all but six of these carloads reached their destination without a release.

	Accidents involving dangerous goods	Originated dangerous goods carloads (thousands)	Dangerous goods accident rate (accidents per 1,000 dangerous goods carloads)	Accidents with a dangerous goods release
2014	148	576	0.26	5
2015	130	492	0.26	6
2016	111	438	0.25	2
2017	123	505	0.24	5
2018	129	547	0.24	4
2019	174	676	0.26	8
2020	87	536	0.16	3
2021	87	576	0.15	2
2022	111	547	0.20	2
2023	90	527	0.17	6

Accidents Involving Dangerous Goods

Dangerous Goods Accident Rate



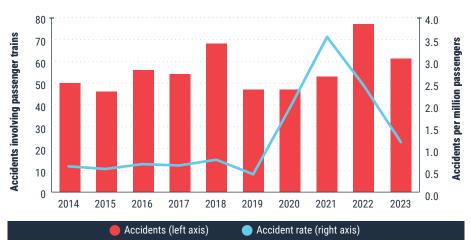
PASSENGER

In 2023, there were 61 accidents involving passenger trains, representing a 20.8% yearover-year reduction.

The accident rate is based on the number of passengers and is therefore sensitive to the significant year-over-year changes in ridership since 2020 (the onset of the COVID-19 pandemic in North America).²⁶ In 2023, the passenger train accident rate improved by 52.4% compared to 2022, but remained elevated compared to the pre-pandemic period, when ridership levels were much higher.

	Passenger accidents	Passengers (millions)	Accident rate (accidents per million passengers)
2014	50	80	0.62
2015	46	82	0.56
2016	56	84	0.67
2017	54	84	0.64
2018	68	88	0.77
2019	47	108	0.44
2020	47	24	1.96
2021	53	15	3.56
2022	77	31	2.45
2023	61	52	1.17





26 The passenger rail sector's accident rate is calculated by dividing the number of accidents involving passenger trains by the total number of intercity, commuter, and tourist rail passengers (in millions).

Operating Finances, Investments, and Taxes

OPERATING FINANCES

In 2023, Canadian railways' total operating revenues increased by \$457 million (or 2.2%), from \$20.5 billion to \$20.9 billion. Passenger-related revenues increased by \$125 million (or 12.7%); freight-related revenues increased by \$629 million (or 3.5%); and other revenues decreased by \$296 million (or -18.7%).

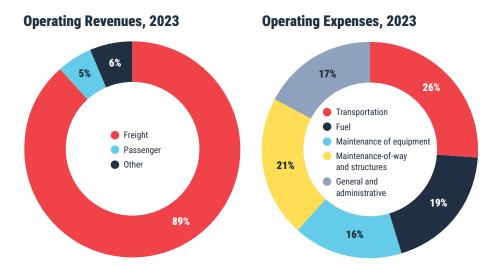
Total operating expenses increased in 2023 by \$347 million (or 2.6%). General and administrative expenses increased by \$274 million (12.9%), followed by increases in expenses related to transportation (\$232 million or 6.8%), maintenance-of-way and structures (\$124 million or 4.4%), and maintenance of equipment (\$100 million or 4.6%). Fuel was the only expense category in which expenses decreased (-\$383 million or -12.5%). Fuel expense came down following a record high in 2022; and despite the reduction, 2023 fuel expense was the second highest on record.

Total expenses increased at a higher rate than total revenues (2.5% vs 2.2%); however, since the dollar increase in revenues was greater than the dollar increase in expenses (\$457 million vs \$347 million), operating income increased by \$110 million (or 1.6%), from \$6.9 billion to \$7.0 billion.²⁷ While operating income increased by only 1.6%, there were significant increases in railways' investments (21.1%) and in the amount of taxes paid to Canadian governments (12.8%), which are presented in the next several pages.

	Freight	Passenger	Other	Total operating revenues
2014	13,287	690	664	14,641
2015	13,270	727	682	14,679
2016	12,649	784	681	14,114
2017	13,610	915	704	15,228
2018	15,064	970	694	16,728
2019	15,820	996	1,088	17,904
2020	15,404	160	1,201	16,765
2021	15,845	236	1,165	17,246
2022	17,903	983	1,589	20,475
2023	18,532	1,107	1,292	20,932

Operating Revenues (\$ millions)

27 Operating income reflects earnings before interest and taxes.



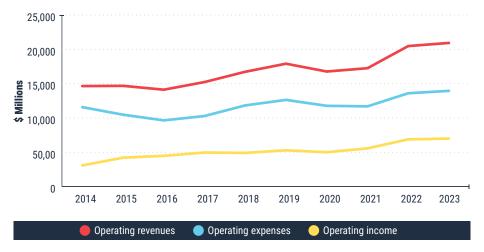
Operating Expenses (\$ millions)

	Transportation	Fuel	Maintenance of equipment	Maintenance- of-way and structures	General and administrative	Total operating expenses
2014	2,759	2,287	1,785	2,108	2,632	11,571
2015	2,508	1,624	1,870	2,315	2,153	10,471
2016	2,592	1,330	1,958	2,013	1,749	9,642
2017	2,895	1,633	2,071	1,998	1,679	10,277
2018	3,172	2,094	1,973	2,270	2,318	11,828
2019	3,719	2,008	2,136	2,280	2,483	12,626
2020	3,029	1,483	2,272	2,446	2,534	11,765
2021	3,029	1,881	2,069	2,515	2,193	11,687
2022	3,429	3,066	2,158	2,820	2,124	13,597
2023	3,661	2,683	2,258	2,944	2,398	13,944

	Total operating revenues	Total operating expenses	Total operating income
2014	14,641	11,571	3,071
2015	14,679	10,471	4,208
2016	14,114	9,642	4,472
2017	15,228	10,277	4,951
2018	16,728	11,828	4,901
2019	17,904	12,626	5,277
2020	16,765	11,765	4,999
2021	17,246	11,687	5,560
2022	20,475	13,597	6,878
2023	20,932	13,944	6,988

Operating Income (\$ millions)

Operating Revenues, Expenses and Income

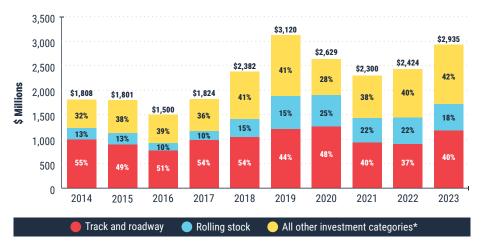


INVESTMENTS

Canadian railways have invested record amounts of capital into their networks and equipment, averaging \$2.7 billion per year across the past five years. Investments in track, rolling stock, technology, and other equipment have improved the safety, efficiency, and capacity of the Canadian rail network, as well as the fluidity of Canada's supply chains.

In 2023, railways invested \$2.9 billion into their Canadian assets—a 21.1% year-overyear increase and a 62.3% increase compared to levels invested a decade ago.

From 2022 to 2023, the category that experienced the most significant increase in investment, in absolute terms, was track & roadway (\$278 million or 30.9%). This was followed by a significant increase in terminals & fuel stations (\$123 million or 323.7%), thanks to contributions from VIA Rail's investments in terminals and maintenance centres in Ontario and Manitoba, as well as CN's investments in a high-throughput fuel distribution centre in the Greater Toronto Area. There was also a significant increase in intermodal equipment (\$116 million or 222.3%), thanks to an increase in investment from CPKC.



Investments in Canadian Rail Assets

* Other investment categories include building & related machinery & equipment; signals, communications & power; terminals & fuel stations; intermodal equipment; work equipment & roadway machines; and other equipment.

		Building &	Signals.				Work equipment		
	Track & roadway	related machinery & equipment	communications & power	Terminals & fuel stations	Rolling stock	Intermodal equipment	& roadway machines	Other equipment	Total
2014	988	292	93	10	240	53	49	83	1,808
2015	888	309	130	26	233	61	92	62	1,801
2016	771	298	102	8	145	53	55	70	1,500
2017	080	275	104	15	182	102	57	109	1,824
2018	1,044	442	146	55	366	166	62	101	2,382
2019	1,206	601	165	89	674	152	66	136	3,120
2020	1,255	427	132	50	645	15	12	95	2,629
2021	929	431	227	33	504	30	55	91	2,300
2022	866	540	177	38	544	52	56	119	2,424
2023	1,176	480	189	161	538	168	51	173	2,935

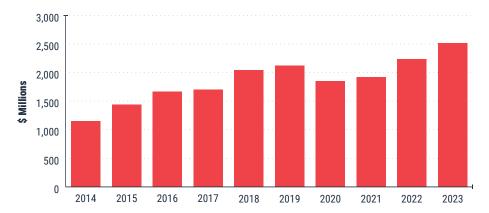
Investments By Category (\$ millions)

TAXES

In 2023, Canadian railways set a consecutive record for taxes paid. Railways paid more than \$2.5 billion in taxes to federal and provincial governments, up 12.8% from 2022, up 23.8% from the 2018–2022 average, and more than double (+119.1%) the amount paid in 2014.

The \$285 million year-over-year increase in total taxes paid was led by a 14.4%, \$181 million increase in income taxes (from \$1,256 million to \$1,437 million). Carbon-related levies continued to escalate rapidly, increasing by 24.7% year-over-year. In 2023, railways contributed \$307 million in carbon-related levies compared to \$247 million a year prior and just \$44 million in 2014. Year-over-year, taxes paid increased by less than 10% in all other categories, except capital tax & custom duties, which increased by just \$3 million (but 168.6% in percentage terms).

Over the past decade, the nearly \$1.4 billion increase in taxes has been driven by a \$975 million (210.8%) increase in income tax, \$264 million (600.8%) increase in carbon-related levies, and an \$80 million (48.1%) increase in payroll taxes.



Total Taxes Paid

millions)
S
Category
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Taxes

	Locomotive		-	Capital tax		Carbon-		Payroll taxes	sa	
	ruei & excise tax	Property tax	utner sales tax	& custom duties	Income tax	relateo levies	СРР/QPP	В	Health taxes	Total
2014	189	179	106	, -	462	44	84	37	46	1,148
2015	159	168	115	3	775	45	82	36	53	1,435
2016	187	180	114	-	976	43	79	37	50	1,667
2017	196	185	122	0	940	78	93	36	52	1,702
2018	217	192	128	4	1,211	100	95	37	58	2,042
2019	215	193	140	S	1,246	124	102	37	60	2,120
2020	199	199	153	2	639	168	103	33	56	1,852
2021	190	203	67	2	1,021	202	113	34	59	1,919
2022	194	207	88	2	1,256	247	135	40	62	2,231
2023	203	224	92	5	1,437	307	139	41	66	2,516

laxes by category and Jurisqiction (\$ thousands) 1/2	gory and Ju	ILISAICTION (3	trousands)	7					
	Locomotive fi 2022	Locomotive fuel & excise tax 2022 2023	2023 ¢/L tax	Property tax 2022	K 2023	Other sales tax	tax 2023	Capital tax 2022	Capital tax & custom duties 2022 2023
Alberta	17,354	18,388	5.5	25,973	26,661	12	87	-	0
British Columbia	19,631	15,781	3.0	57,147	63,370	48,067	47,993	0	0
Manitoba	9,216	9,876	6.3	16,083	15,961	18,124	21,085	83	64
Nfid. & Labrador	0	0	*0	0	0	0	567	0	0
New Brunswick	1,119	1,270	4.3	2,154	2,288	0	0	0	0
Nova Scotia	0	0	*0	2,826	2,968	0	10	0	0
Ontario	23,154	30,888	4.5	34,862	35,828	242	664	0	0
Quebec	6,501	6,766	3.0	41,198	50,022	376	1,536	0	0
Saskatchewan	38,001	40,999	15.0	26,184	27,133	21,165	18,989	31	26
Northwest Territories & Yukon	12	10	11.4	146	166	0	55	0	0
Federal	79,009	78,647	4.0	0	0	348	1,199	1,761	4,949
Total	193,997	202,624	T	206,573	224,395	88,334	92,185	1,876	5,039

* In Newfoundland and Labrador and Nova Scotia, railways are fully exempt from diesel excise tax.

	Income tax		Carbon Levies		Payroll taxes		Total taxes	
	2022	2023	2022	2023	2022	2023	2022	2023
Alberta	72,891	87,342	8	5	0	0	116,239	132,483
British Columbia	131,582	145,518	83,030	85,451	858	1,120	340,316	359,233
Manitoba	54,091	62,586	0	0	7,827	8,196	105,424	117,768
Nfid. & Labrador	0	0	0	0	0	0	0	567
New Brunswick	13,440	15,063	3,360	1,874	0	0	20,073	20,495
Nova Scotia	3,624	4,820	217	310	0	0	6,667	8,108
Ontario	132,714	149,125	6,555	10,175	16,325	16,969	213,851	243,648
Quebec	43,324	53,255	5,875	7,611	71,992	71,113	169,266	190,303
Saskatchewan	90,163	100,889	53	70	0	0	175,597	188,106
Northwest Territories & Yukon	956	1,209	13	14	0	0	1,127	1,453
Federal	713,520	817,312	147,460	201,900	139,867	149,445	1,081,965	1,253,452
Total	1,256,304	1,437,119	246,571	307,410	236,869	246,843	2,230,525	2,515,615

Taxes by Category and Jurisdiction (\$ thousands) 2/2

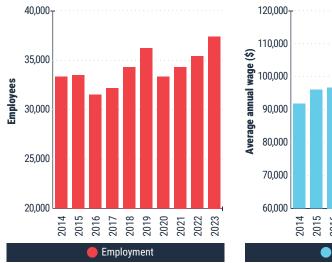
Employment

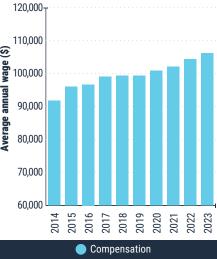
In 2023, Canadian railways directly employed 37,401 people from coast to coast to coast-the highest level since 2001, representing an increase of 1,997 (5.6%) from 2022. The average annual wage per employee climbed by \$1,714 (1.6%) to \$106,157,²⁸ which is approximately 50% higher than the average full-time Canadian salary.²⁹

	Total compensation (\$ millions)	Average number of employees	Average annual wage per employee (\$)
2014	3,059	33,323	91,798
2015	3,136	33,511	96,110
2016	2,956	31,526	96,727
2017	3,077	32,152	99,134
2018	3,296	34,315	99,361
2019	3,477	36,196	99,332
2020	3,237	33,321	100,891
2021	3,359	34,318	102,163
2022	3,690	35,404	104,443
2023	3,970	37,401	106,157

Employment and Compensation

Employment and Compensation





28 Average annual wage per employee is calculated by dividing total compensation by the average number of employees. Data from railways that do not report both metrics are excluded from the calculation.

29 Statistics Canada, Labour Force Survey.

DIVERSITY REPRESENTATION

RAC began collecting information from its members on diversity representation in 2020. In 2022, RAC enhanced data collection to include information on diversity representation on leadership teams and boards of directors. Information is collected on the number of employees in the following categories: women, persons with disabilities, visible minorities, and Indigenous peoples.

From 2022 to 2023, the number of employees in each of the four categories increased, including women (+390 or 7.4%), persons with disabilities (+177 or 14.4%), visible minorities (+1,758 or 36.0%) and Indigenous peoples (+265 or 16.1%). Representation (share of total industry employment) increased for women (from 15.0% to 15.2%), persons with disabilities (from 3.5% to 3.8%), visible minorities (from 13.8% to 17.8%), and Indigenous peoples (from 4.6% to 5.1%).

Diversity Representation

		Number of employees and share of total industry employment						
Women		Persons with disabilities		Visible minorities		Indigenous peoples		
2020	3,926	11.8%	620	1.9%	3,691	11.1%	1,294	3.9%
2021	4,051	11.8%	1,119	3.3%	4,049	11.8%	1,403	4.1%
2022	5,306	15.0%	1,228	3.5%	4,886	13.8%	1,642	4.6%
2023	5,696	15.2%	1,405	3.8%	6,644	17.8%	1,907	5.1%

Note: Some members are unable to provide this information, and as such, the figures in the table above understate the true level of diversity representation in the Canadian rail industry.

In 2023, there was a higher representation of women in leadership (32.0%) and on boards of directors (31.3%), compared to their share of industry employment (15.2%). Indigenous peoples represented 10.4% of positions on boards of directors, which is greater than their share of industry employment (5.1%) but were underrepresented in leadership positions (2.0%). Persons with disabilities and visible minorities were underrepresented in leadership and on boards of directors compared to their share of industry employment.

	Share represented by diverse groups				
	Women	Persons with disabilities	Visible minorities	Indigenous peoples	
Leadership Team	32.0%	2.3%	5.0%	2.0%	
Board of Directors	31.3%	1.0%	3.1%	10.4%	

Diversity Representation in Leadership Teams and on Boards of Directors, 2023

Note: The data on diversity representation in leadership teams and on Boards of Directors is not complete enough for accurate trend analysis. Therefore, only the current year of data are shown in the report.

Note: Some members are unable to provide this information, and as such, the figures in the table above understate the true level of diversity representation in the Canadian rail industry.



Track and Equipment

In 2023, freight railways operated 26,469 miles (42,597 kilometres) of track in Canada–a network that is 12% longer than Canada's National Highway System.³⁰ The industry's freight car fleet decreased by 5.3% to 52,860 cars. The number of active freight and passenger locomotives in service increased by 11.1% to 4,252.³¹

	Freight railwa Miles	y operated track Kilometres	Locomotives in service	Freight cars in service
2014	27,304	43,942	2,700	58,577
2015	27,428	44,141	2,400	59,509
2016	27,070	43,564	2,318	55,230
2017	26,406	42,497	3,177	55,258
2018	25,900	41,682	3,782	59,309
2019	26,499	42,645	3,840	61,030
2020	26,551	42,730	3,756	61,755
2021	26,490	42,631	3,606	60,007
2022	26,439	42,550	3,828	55,789
2023	26,469	42,597	4,252	52,860

Track and Equipment

Note: Freight railway operated track does not include segments terminating in the U.S.

The table on the next page provides a breakdown of TRACK OPERATED by jurisdiction and railway service. There are instances where passenger railways have operating rights on freight railway-owned tracks, and where freight railways have operating rights on passenger railway-owned track. As a result, the length of grand total track operated includes instances of double counting.

³⁰ Transport Canada, Transportation in Canada 2023.

^{31 4,252} is the estimated number of locomotives that were in active service in Canada in 2023. Some of these locomotives may have been in active service in the U.S. and/or Mexico as well throughout the year.

		2014	2022		2023 Miles Kilometres	
	Miles	Kilometres	Miles	Kilometres		Kilometres
Alberta	4,041	6,503	3,941	6,343	3,941	6,342
British Columbia	4,174	6,717	3,977	6,400	3,971	6,390
Manitoba	2,833	4,559	2,829	4,553	2,829	4,553
Nfld. & Labrador	162	261	170	274	170	274
New Brunswick	720	1,159	681	1,097	712	1,145
Nova Scotia	419	674	292	470	292	470
Ontario	6,265	10,082	6,127	9,860	6,134	9,871
Quebec	3,613	5,815	3,605	5,802	3,603	5,799
Saskatchewan	5,002	8,050	4,741	7,630	4,741	7,630
Northwest Territories	75	121	76	122	76	122
Freight total	27,304	43,942	26,439	42,550	26,469	42,597
Intercity passenger	7,820	12,585	7,608	12,244	7,608	12,244
Commuter and tourist	3,101	4,990	2,451	3,945	2,448	3,940
Passenger total	10,921	17,575	10,059	16,189	10,056	16,184
Segments terminating in the U.S.**	152	244	47	75	47	75
Grand total track operated	38,377	61,762	36,546	58,814	36,572	58,856

Track Operated*, by Jurisdiction and Railway Service

* Miles (kilometres) of track operated includes rail over which a railway has operating rights.

** Reflects railways' subdivisions that begin in Canada and terminate in the U.S.

Appendix A–Glossary

Car Mile:

The movement of a freight car or passenger car the distance of one mile.

Class 1 Railway:

A railway with annual operating revenues exceeding \$250 million for two consecutive years.

Container:

A large, weatherproof box designed for shipping and/or transferring freight between rail, truck or marine modes. Specialized containers are equipped with heating and cooling capabilities for perishable products.

Dangerous Goods:

Explosives; gases: compressed, deeply refrigerated, liquified or dissolved under pressure; flammable and combustible liquids; flammable solids; substances liable to spontaneous combustion; substances that on contact with water emit flammable gases; oxidizing substances; organic peroxides; poisonous (toxic) and infectious substances; nuclear substances; corrosives; or miscellaneous products, substances or organisms considered by the Governor in Council to be dangerous to life, health, property or the environment when handled, offered for transport or transported.³²

Gross Tonne-Kilometre (GTK):

The movement of total train weight over a distance of one kilometre. Total train weight is comprised of the freight cars, their contents and any inactive locomotives. It excludes the weight of the locomotives pulling the trains.

Gross Ton-Mile (GTM):

The movement of total train weight over a distance of one mile. Total train weight is comprised of the freight cars, their contents and any inactive locomotives. It excludes the weight of the locomotives pulling the trains.

Intermodal Service:

The movement of trailers or containers by rail and at least one other mode of transportation. Import and export containers generally are shipped via marine and rail. Domestic intermodal service usually involves truck and rail.

On-Time Performance:

The ability to meet customer requirements as to pick-up and delivery schedules.

³² Source: Canadian Transportation of Dangerous Goods Act

Passenger-Mile:

The movement of a passenger the distance of one mile. Passenger miles are used to measure the volume of passenger traffic.

Revenue Tonne-Kilometre (RTK):

The movement of one revenue-producing tonne of freight over a distance of one kilometre.

Revenue Ton-Mile (RTM):

The movement of one revenue-producing ton of freight over a distance of one mile.

Shortline Railway:

A railway with annual operating revenues of less than \$250 million for two consecutive years.

Track Operated:

The first main-track over which a railway operates. This excludes second and other main-track, passing tracks and crossovers, industrial tracks, spurs and yard tracks.

Train-Mile:

The movement of a train the distance of one mile.

Appendix B–Conversion Factors

Miles to kilometres	1.6093
Kilometres to miles	0.6214
Tons (short) to metric tonnes	0.9072
Metric tonnes to tons (short)	1.1023
Gallons to litres	4.5461
Litres to gallons	0.2200
Revenue ton-miles to revenue tonne-kilometres	1.4599
Revenue tonne-kilometres to revenue ton-miles	0.6850
CAD to USD (2023)*	0.7409
USD to CAD (2023)*	1.3497

* Source: Bank of Canada, Average Annual Exchange Rates

Appendix C—Safety Definitions

The safety definitions are sourced from the Transportation Safety Board of Canada's *Rail transportation occurrences in 2023* report. The following definitions apply to rail transportation occurrences that are required to be reported pursuant to the *Canadian Transportation Accident Investigation and Safety Board Act* and the associated regulations.

Occurrence

- Any accident or incident associated with the operation of rolling stock on a railway
- Any situation or condition that the Board has reasonable grounds to believe could, if left unattended, induce an accident or incident described below

Reportable Accident

- A person is killed or sustains a serious injury as a result of
 - getting on or off or being on board the rolling stock, or
 - coming into direct contact with any part of the rolling stock or its contents

- The rolling stock or its contents
 - are involved in a collision and/or a derailment resulting in damages to rolling stock and/or track infrastructure,
 - sustain damage that affects the safe operation of the rolling stock,
 - sustain a fire or explosion, or
 - cause damage to the railway that poses a threat to the safe passage of rolling stock or to the safety of any person, property or the environment
- There is an accidental release on board or from rolling stock that results in any of the events listed in subsection 8.4(2) of the Transportation of *Dangerous Goods Regulations*.

Reportable Incident

- A risk of collision occurs between rolling stock
- An unprotected main-track switch or subdivision track switch is left in an abnormal position
- A railway signal displays a less restrictive indication than that required for the intended movement of rolling stock
- Rolling stock occupies a main track or subdivision track, or track work takes place, in contravention of the rules or any regulations made under the *Railway Safety Act*
- Rolling stock passes a signal indicating stop in contravention of the rules or any regulations made under the *Railway Safety Act*
- There is an unplanned and uncontrolled movement of rolling stock
- A crew member whose duties are directly related to the safe operation of the rolling stock is unable to perform their duties as a result of a physical incapacitation which poses a threat to the safety of persons, property or the environment,
- The rolling stock is involved in a minor collision and/or minor derailment (1 or 2 cars) resulting in no damages; or
- Rolling stock or its contents cause a fire along, or adjacent to, a railway right-ofway.

Serious Injury

- A fracture of any bone, except simple fractures of fingers, toes or the nose
- Lacerations that cause severe hemorrhage or nerve, muscle or tendon damage
- An injury to an internal organ
- Second or third degree burns, or any burns affecting more than 5% of the body surface

- · A verified exposure to infectious substances or injurious radiation, or
- An injury that is likely to require hospitalization.

Dangerous Goods Involvement

"Dangerous goods" has the same meaning as in section 2 of the *Transportation of Dangerous Goods Act*. An accident is considered to have dangerous goods involvement if any car in the consist carrying (or having last contained) a dangerous good derails, strikes or is struck by any other rolling stock or object. It does not mean that there was any release of any product. Also included are crossing accidents in which the motor vehicle involved (e.g., tanker truck) is carrying a dangerous good.

Derailment

Any instance where one or more wheels of rolling stock have come off the normal running surface of the rail.



Appendix D—Statistical Revisions

REVISIONS TO THE RAILWAY ASSOCIATION OF CANADA'S RAIL TRENDS DATABASE

RAC makes every effort to maintain an accurate statistical database. Revisions are periodically carried out in order to incorporate the most accurate and up-to-date information. As new data become available, historical figures (and estimates) may be revised. A revised figure for even a single railway affects the aggregated industry figures presented in *Rail Trends*.

In *Rail Trends 2024*, there were no revisions to the historical RAC member data, which are collected annually through the *Rail Trends* survey.

REVISIONS TO OTHER DATA

All revisions are explained throughout the report, including the Bank of Canada's revisions to its commodity price index and the TSB's revisions to its safety data.