## Railway Association of Canada



Railway Association of Canada



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## MEMBER COMPANIES 2014

| GSR | 6970184 Canada |
| :---: | :---: |
| AMT | Agence métropolitaine de transport |
| APR | Alberta Prairie Railway Excursions |
| AMTK | Amtrak |
| AMMC | ArcelorMittal Infrastructure Canada |
| CFA | Arnaud Railway |
| BCRY | Barrie-Collingwood Railway |
| BRR | Battle River Railway |
| BCR | BCR Properties |
| BSR | Big Sky Rail |
| BNSF | BNSF Railway |
| CP | CP |
| CBNS | Cape Breton \& Central Nova Scotia Railway |
| CR | Capital Railway |
| CTRW | Carlton Trail Railway |
| CMQ | Central Maine \& Québec Railway |
| CEMR | Central Manitoba Railway |
| CN | CN |
| CFL | Compagnie du chemin de fer Lanaudière |
| CSX | CSX Transportation |
| EMRY | Eastern Maine Railway |
| ETR | Essex Terminal Railway |
| GO | GO Transit |
| GEXR | Goderich-Exeter Railway |
| RMR | Great Canadian Railtour Company |
| GSR | Great Sandhills Railway |
| GWR | Great Western Railway |
| HBRY | Hudson Bay Railway |
| HCRY | Huron Central Railway |

KRC Keewatin Railway
KFR Kettle Falls International Railway
LMR Last Mountain Railway
NBSR New Brunswick Southern Railway
NCR Nipissing Central Railway
NS Norfolk Southern Railway
ONR Ontario Northland Transportation Commission
OSR Ontario Southland Railway
OBRY Orangeville Brampton Railway
OVR Ottawa Valley Railway
PDCR Prairie Dog Central Railway
CFQG Québec Gatineau Railway
QNSL Québec North Shore and Labrador Railway
RS Roberval and Saguenay Railway
CFRR Romaine River Railway
SCFG Société du chemin de fer de la Gaspésie
SSR South Simcoe Railway
SOR Southern Ontario Railway
SRY Southern Railway of British Columbia
SLQ St. Lawrence \& Atlantic Railroad (Québec)
SSRY Stewart Southern Railway
SCR Sydney Coal Railway
TTR Toronto Terminals Railway
CFC Train Touristique de Charlevoix
PCHR Trillium Railway
TSH Tshiuetin Rail Transportation
VIA VIA Rail Canada
WCE West Coast Express
WP\&YR White Pass and Yukon Route Railroad

## ASSOCIATE MEMBERS <br> 2014

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## PRESIDENTS MESSAGE



For Canada's freight and passenger railways, 2014 was defined by one of the coldest winters in Canadian history and its resulting impact on railway operations.

In the freight rail sector, the perfect storm of unusually harsh weather and the largest grain crop in 100 years resulted in well-publicized transportation bottlenecks across the country.

Some critics suggested that those delays were due to a lack of investment, capacity, preparedness or effort on the part of Canada's railways. The data presented in the following pages suggests otherwise.

Rail Trends 2015 illustrates the outstanding performance of Canada's freight and passenger railway sector in 2014. Freight railways worked collaboratively with supply chain partners - including ports, terminal operators and others - to transport more traffic than ever before, including the record grain crop. In addition, Canada's passenger railways moved millions of travellers while reducing congestion and emissions.

Most importantly, Canada's railways achieved these results while improving their overall safety record - a testament to the industry's commitment to moving goods and people efficiently and safely.


Michael Bourque
President and Chief Executive Officer
Railway Association of Canada

## FOREWORD

This is the $23^{\text {rd }}$ edition of Rail Trends, the Railway Association of Canada's (RAC) annual report on the performance of Canada's freight and passenger railways. This publication contains a rolling 10-year review of financial and statistical results, reflecting multiple aspects of railway performance in Canada.

The data in Rail Trends comes from RAC members - Class 1 and shortline railways, as well as tourist, intercity and commuter passenger service providers. While RAC represents the vast majority of non-Class 1 railways in Canada, it does not represent the entire sector. Data reflects performance in Canada only.

Canada's Class 1 freight railways (CN and CP) account for the majority of Canadian freight rail activity. For that reason, most of the data presented in Rail Trends reflects Class 1 carriers. Figures may not add up to totals due to rounding. Definitions of railway terms appear in Appendix A, and safety-specific definitions are provided in Appendix B.

The data in Rail Trends is categorized into the following sub-sections:

- Freight traffic
- Passenger transportation
- Safety
- Financial information, investments and taxes
- Employment
- Track and equipment

Statistical highlights (year-over-year and 10-year comparison)

|  | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ |
| :--- | ---: | ---: | ---: |
| Revenue ton-miles (billions) | 241.7 | 291.2 | 306.3 |
| Revenue tonne-kilometres (billions) | 352.9 | 425.1 | 447.1 |
| Miles of rail operated |  | 30,380 | 27,270 |
| 27,304 |  |  |  |
| Kilometres of rail operated | 48,893 | 43,887 | 43,942 |
| Locomotives | 3,253 | 3,043 | 2,696 |
| Freight cars (000) | 102 | 59 | 59 |
| Gallons of fuel (millions) | 486 | 464 | 485 |
| Litres of fuel (millions) | 2,209 | 2,111 | 2,203 |
| Employees | 35,389 | 33,167 | 32,681 |
| Annual wage per employee (\$) | 71,994 | 88,153 | 92,491 |

[^0]
## FREIGHT TRAFFIC

Canada's railways moved more goods than ever before in 2014, continuing an upward trend that began in 2010. This pattern demonstrates the capacity of Canada's railways to move essential commodities safely and efficiently, while allowing Canadian businesses to compete in North America and internationally.

## REVENUE TON-MILES, GROSS TON-MILES \& FREIGHT TRAIN-MILES

Freight rail traffic, as measured by revenue ton-miles (RTM), rose to a record high of 306.3 billion RTM ( 447.1 billion revenue tonne-kilometres or RTK) in 2014. This represents 5.2 per cent growth from the previous year, and a 19.9 per cent increase over the 2009-2013 average of 255.5 billion RTM ( 373.1 billion RTK).

Year over year, gross ton-miles (GTM) grew 6.6 per cent to 564.3 billion GTM (823.8 billion gross tonne-kilometres or GTK), and freight train-miles (freight train-kilometres) increased by 4.6 per cent.

|  | Revenue ton-miles (millions) | Revenue tonnekilometres (millions) | Gross ton-miles (millions) | $\begin{array}{r} \text { Gross } \\ \text { tonne- } \\ \text { kilometres } \\ \text { (millions) } \end{array}$ | Freight train-miles (000) | Freight trainkilometres (000) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2005 | 241,745 | 352,912 | 457,950 | 668,540 | 76,400 | 122,953 |
| 2006 | 243,744 | 355,831 | 459,633 | 670,997 | 76,451 | 123,035 |
| 2007 | 247,709 | 361,619 | 463,356 | 676,433 | 74,100 | 119,253 |
| 2008 | 237,323 | 346,457 | 449,922 | 656,821 | 71,712 | 115,409 |
| 2009 | 210,898 | 307,880 | 397,293 | 579,990 | 59,576 | 95,877 |
| 2010 | 247,154 | 360,809 | 455,047 | 664,303 | 65,157 | 104,859 |
| 2011 | 255,001 | 372,264 | 473,312 | 690,960 | 66,082 | 106,348 |
| 2012 | 273,504 | 399,275 | 503,879 | 735,590 | 68,145 | 109,668 |
| 2013 | 291,172 | 425,069 | 529,379 | 772,816 | 67,207 | 108,160 |
| 2014 | 306,282 | 447,127 | 564,313 | 823,815 | 70,313 | 113,157 |




Photo: CN

## CARLOADS

The number of carloads originated in Canada² edged up by 0.1 per cent in 2014 from the previous year, led by intermodal goods and agricultural products. However, the overall weight of freight transported fell by 5.1 per cent, as railways carried fewer heavy commodities such as coal and minerals. As a result, the tonnage per carload declined by 5.4 per cent from the previous year.

In 2014, carloads and tons (tonnes) originated increased by 8.0 per cent and 8.2 per cent, respectively, over their five-year averages.

|  | Carloads <br> originated <br> $(\mathbf{0 0 0})$ | Tons <br> originated <br> $(\mathbf{0 0 0})$ | Tonnes <br> originated <br> $\mathbf{( 0 0 0 )}$ | Tons per <br> carload | Tonnes per <br> carload |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 2005 | 4,290 | 343,464 | 311,590 | 80 | 73 |
| 2006 | 4,260 | 339,394 | 307,897 | 80 | 73 |
| 2007 | 4,196 | 337,989 | 306,623 | 81 | 73 |
| 2008 | 3,984 | 318,688 | 289,114 | 80 | 73 |
| 2009 | 3,367 | 269,028 | 244,062 | 80 | 73 |
| 2010 | 3,872 | 334,264 | 303,258 | 86 | 78 |
| 2011 | 4,044 | 337,074 | 305,793 | 83 | 76 |
| 2012 | 4,113 | 375,780 | 340,907 | 91 | 83 |
| 2013 | 4,234 | 388,621 | 352,557 | 92 | 83 |
| 2014 | 4,238 | 368,970 | 334,730 | 87 | 79 |



[^1]
## CARLOADS BY COMMODITY

Rail Trends tracks 11 commodity groupings moved by freight railways in Canada. ${ }^{3}$ Based on the number of carloads moved, the largest increases among commodity groupings in 2014 (according to each grouping's year-over-year increase) were agricultural products (+17.6\%), fuels \& chemicals (+9.9\%), and food products (+9.9\%). The largest declines were reported in the minerals ( $-16.5 \%$ ) and coal ( $-12.1 \%$ ) groupings.

## Carloads originated by commodity grouping ${ }^{4}$

|  | Agriculture | Coal | Minerals | Forest <br> products |  <br> automotalse |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 2005 | 416,473 | 353,197 | 657,410 | 433,138 | 295,022 | 235,480 |
| 2006 | 453,151 | 321,266 | 600,823 | 388,035 | 362,000 | 244,395 |
| 2007 | 454,034 | 349,983 | 609,422 | 317,158 | 359,982 | 234,830 |
| 2008 | 430,292 | 324,931 | 574,645 | 253,279 | 369,475 | 195,308 |
| 2009 | 474,980 | 277,048 | 368,631 | 182,395 | 273,800 | 148,123 |
| 2010 | 462,445 | 327,419 | 703,270 | 205,120 | 160,895 | 185,962 |
| 2011 | 466,305 | 348,556 | 790,520 | 228,448 | 160,827 | 186,522 |
| 2012 | 472,474 | 353,201 | 805,952 | 209,654 | 161,541 | 220,216 |
| 2013 | 465,340 | 383,013 | 810,750 | 215,254 | 150,906 | 199,068 |
| 2014 | 547,122 | 336,632 | 676,865 | 213,980 | 157,086 | 193,294 |
|  | Fuels \& | Paper | Food | Manufactured \& |  |  |
|  | chemicals | products | products | miscellaneous | Intermodal | Total |
| 2005 | 469,655 | 333,830 | 44,169 | 65,629 | 769,936 | $4,073,939$ |
| 2006 | 470,833 | 274,092 | 41,454 | 66,333 | 819,552 | $4,041,934$ |
| 2007 | 470,876 | 252,150 | 41,822 | 65,923 | 832,663 | $3,988,843$ |
| 2008 | 443,125 | 228,072 | 42,365 | 75,160 | 847,647 | $3,784,299$ |
| 2009 | 401,141 | 175,693 | 42,232 | 79,445 | 741,807 | $3,165,295$ |
| 2010 | 419,905 | 170,823 | 52,240 | 92,949 | 847,832 | $3,628,860$ |
| 2011 | 432,657 | 157,780 | 54,948 | 94,935 | 890,168 | $3,811,666$ |
| 2012 | 479,669 | 149,740 | 60,906 | 93,129 | 946,223 | $3,952,706$ |
| 2013 | 539,566 | 150,029 | 56,405 | 103,605 | 987,186 | $4,061,122$ |
| 2014 | 593,186 | 139,110 | 61,993 | 101,733 | $1,072,278$ | $4,093,278$ |

[^2]The chart below illustrates carloads originated by commodity grouping as a percentage of all commodity carloads in 2014.


In 2014, RAC members moved a record 487,794 carloads of grain in Canada, an increase of 21.4 per cent from the previous year, and 18.0 per cent over the five-year average. ${ }^{5}$ The industry's contribution enabled Canada's grain supply chain to move the historic bumper crop of 2013-2014.


[^3]
## AVERAGE CARS PER FREIGHT TRAIN \& AVERAGE LENGTH OF HAUL

Canada's railways have made significant investments in logistics technologies and locomotive power, allowing for longer trains to be operated and more efficient railway movements. In 2014, the average length of haul ${ }^{6}$ by transcontinental railways ( CN and CP ) and shortline railways increased by 4.2 per cent and 2.2 per cent, respectively, to record highs. The average number of cars per freight train ${ }^{7}$ also increased by 1.0 per cent to a record high of 100 cars.

|  | Average miles (kilometres) hauled by transcontinental railways (CN and CPR) |  | Average miles (kilometres) hauled by shortline railways |  | Average cars per freight train |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Miles | Kilometres | Miles | Kilometres |  |
| 2005 | 789 | 1,270 | 149 | 240 | 79 |
| 2006 | 803 | 1,292 | 159 | 256 | 79 |
| 2007 | 807 | 1,299 | 151 | 243 | 81 |
| 2008 | 818 | 1,316 | 146 | 235 | 82 |
| 2009 | 830 | 1,336 | 159 | 256 | 87 |
| 2010 | 850 | 1,368 | 138 | 163 | 92 |
| 2011 | 849 | 1,366 | 170 | 274 | 81 |
| 2012 | 868 | 1,396 | 99 | 159 | 90 |
| 2013 | 871 | 1,402 | 186 | 300 | 99 |
| 2014 | 908 | 1,462 | 190 | 306 | 100 |

Average length of haul


[^4]
## INTERMODAL TRAFFIC

Total intermodal traffic ${ }^{8}$ originated in Canada - including container and trailer traffic - rose by 8.4 per cent to a record high of more than 2.9 million units in 2014. Intermodal traffic in 2014 was 19.6 per cent higher than the five-year average of 2.5 million units.

|  | Trailers (000) | Containers (000) | Total (000) |
| :--- | ---: | ---: | ---: |
| 2005 | 112 | 2,134 | 2,246 |
| 2006 | 106 | 2,251 | 2,357 |
| 2007 | 102 | 2,334 | 2,436 |
| 2008 | 101 | 2,396 | 2,497 |
| 2009 | 83 | 2,033 | 2,116 |
| 2010 | 81 | 2,361 | 2,442 |
| 2011 | 80 | 2,424 | 2,504 |
| 2012 | 98 | 2,540 | 2,638 |
| 2013 | 118 | 2,628 | 2,746 |
| 2014 | 93 | 2,883 | 2,978 |

Intermodal units originated (000) (containers \& trailers)


[^5]
## RATES

## FREIGHT REVENUE PER RTM

Freight revenue per RTM $^{9}$ is often viewed as a proxy for railway rates because it shows the level of revenue collected by railways for moving goods over a certain distance.

In 2014, freight revenue per RTM grew by 4.9 per cent from the previous year, as revenues outpaced traffic growth. Since 2005, freight revenue per RTM has increased by an average of 2.1 per cent each year, while commodity prices have risen by an average of 2.5 per cent per year. ${ }^{10}$

|  | Freight revenue (cents) per |  |  | Index |
| :--- | :---: | :---: | :---: | :---: |
|  | RTM | RTK | $\mathbf{2 0 0 1 = 1 0 0}$ |  |
| 2005 | 3.64 | 2.49 | 111.3 |  |
| 2006 | 3.87 | 2.65 | 118.3 |  |
| 2007 | 3.84 | 2.63 | 117.4 |  |
| 2008 | 4.20 | 2.87 | 128.4 |  |
| 2009 | 4.00 | 2.74 | 122.3 |  |
| 2010 | 3.99 | 2.74 | 122.0 |  |
| 2011 | 4.04 | 2.77 | 123.5 |  |
| 2012 | 4.14 | 2.84 | 126.6 |  |
| 2013 | 4.13 | 2.83 | 126.5 |  |
| 2014 | 4.34 | 2.97 | 132.7 |  |

Freight revenue per RTM


[^6]
## FREIGHT REVENUE BY COMMODITY

Freight revenue increased by 9.6 per cent to $\$ 9.9$ billion in 2014 from the previous year. On a revenue basis, the largest increases among commodity groupings (based on each grouping's year-over-year increase) were fuels and chemicals (+23.7\%), agricultural products (+20.4\%), and food products (+17.2\%). Year over year, revenues decreased in the coal (-8.7\%) and paper products (-3.2\%) groupings.

Revenue from carloads originated by commodity grouping (\$ millions)

|  | Agriculture | Coal | Minerals | Forest <br> products | Metals |  <br> automotive |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 2005 | 948 | 738 | 811 | 969 | 429 | 414 |
| 2006 | 1,125 | 676 | 764 | 928 | 489 | 433 |
| 2007 | 1,157 | 709 | 819 | 780 | 476 | 445 |
| 2008 | 1,161 | 706 | 833 | 646 | 531 | 443 |
| 2009 | 1,259 | 502 | 525 | 478 | 317 | 337 |
| 2010 | 1,221 | 598 | 772 | 500 | 381 | 394 |
| 2011 | 1,297 | 713 | 898 | 564 | 424 | 381 |
| 2012 | 1,374 | 749 | 926 | 611 | 455 | 508 |
| 2013 | 1,433 | 833 | 973 | 660 | 448 | 481 |
| 2014 | 1,725 | 760 | 1,030 | 702 | 501 | 481 |


|  |  <br> chemicals | Paper <br> products | Food <br> products |  <br> miscellaneous | Intermodal | Total |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 2005 | 804 | 642 | 74 | 112 | 2,152 | 8,093 |
| 2006 | 836 | 582 | 81 | 114 | 2,377 | 8,405 |
| 2007 | 837 | 541 | 81 | 116 | 2,452 | 8,413 |
| 2008 | 902 | 531 | 89 | 126 | 2,702 | 8,672 |
| 2009 | 818 | 423 | 94 | 113 | 2,273 | 7,139 |
| 2010 | 853 | 437 | 128 | 130 | 2,592 | 8,006 |
| 2011 | 928 | 427 | 146 | 133 | 1,893 | 7,805 |
| 2012 | 1,155 | 411 | 161 | 153 | 1,997 | 8,499 |
| 2013 | 1,420 | 406 | 155 | 174 | 2,019 | 9,001 |
| 2014 | $\mathbf{1 , 7 5 6}$ | 393 | 181 | 177 | $\mathbf{2 , 1 6 2}$ | 9,869 |

The chart below illustrates revenues by commodity grouping as a per cent of all revenues collected by RAC freight member-railways in 2014.

Agriculture (17\%)
Coal (8\%)
Minerals (10\%)
Forest products (7\%)
Metals (5\%)
Machinery \& automotive (5\%)
Fuels \& chemicals (18\%)
Paper products (4\%)
Food products (2\%)
Manufactured
\& miscellaneous (2\%)
Intermodal (22\%)

Canada's freight railways pass their productivity gains directly on to their customers - as they move more traffic, they are able to charge lower prices. In fact, Canada has some of the lowest freight rail rates in the world. Between 2005 and 2014, freight rail traffic grew by an average of 3.0 per cent per year. By comparison, average freight rail rates - as measured by revenue per revenue ton-mile (revenue tonne-kilometre) increased by an average of 2.1 per cent each year, while commodity prices grew by an average of 2.5 per cent per year during that same period.


## PRODUCTIVITY

The best measure of freight railway labour productivity is the rate of revenue ton-miles per employee." By this measure, employee productivity rose by 17.6 per cent in 2014, as traffic increased and the freight railway workforce shrunk.

|  | Revenue <br> ton-miles per <br> employee (000) | Revenue <br> tonne-kilometres <br> per employee (000) | Road <br> miles per <br> employee | Road <br> kilometres per <br> employee |
| :--- | ---: | ---: | ---: | ---: |
| 2005 | 7,679 | 11,210 | 0.96 | 1.54 |
| 2006 | 7,963 | 11,625 | 0.98 | 1.58 |
| 2007 | 8,045 | 11,745 | 0.96 | 1.54 |
| 2008 | 7,625 | 11,132 | 0.94 | 1.51 |
| 2009 | 7,404 | 10,809 | 0.98 | 1.58 |
| 2010 | 8,287 | 12,098 | 0.96 | 1.54 |
| 2011 | 8,496 | 12,402 | 0.90 | 1.46 |
| 2012 | 8,772 | 12,806 | 0.86 | 1.39 |
| 2013 | 9,608 | 14,026 | 0.91 | 1.47 |
| 2014 | 11,302 | 16,499 | 0.84 | 1.35 |

## RTM per employee (000)



[^7]
## FUEL CONSUMPTION AND COST

Investments in modern locomotives, among other fuel-management technologies and policies, have allowed Canada's railways to make substantial emissions reductions, and to improve their fuel efficiency by 27.5 per cent since 2005.

In 2014, freight railways consumed 484.6 million gallons (2.2 billion litres) of fuel, up 4.4 per cent from the previous year, while moving a record amount of traffic. As a result, the freight railway sector's fuel efficiency ${ }^{12}$ improved by 0.5 per cent to a record 667 RTM per gallon ( 215 RTK per litre). The cost of diesel fuel ${ }^{13}$ increased by 8.8 per cent to $\$ 4.83$ per gallon ( $\$ 1.06$ per litre) in 2014.

|  | Total fuel consumed |  | Revenue ton-miles per gallon of fuel consumed | Revenue tonne-kilometres per litre of fuel consumed | Cost of diesel fuel |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | gallons (000) | $\begin{aligned} & \hline \text { litres } \\ & \text { (000) } \end{aligned}$ |  |  | per gallon (\$) | per litre (cents) |
| 2005 | 485,915 | 2,209,007 | 523 | 168 | 2.38 | 52.5 |
| 2006 | 486,218 | 2,210,384 | 527 | 169 | 2.81 | 61.8 |
| 2007 | 492,125 | 2,237,237 | 529 | 170 | 3.07 | 67.6 |
| 2008 | 480,661 | 2,185,120 | 520 | 167 | 4.23 | 93.0 |
| 2009 | 411,612 | 1,871,221 | 545 | 175 | 2.94 | 64.8 |
| 2010 | 450,782 | 2,049,289 | 562 | 182 | 3.25 | 71.40 |
| 2011 | 436,558 | 1,984,178 | 621 | 202 | 4.25 | 93.46 |
| 2012 | 471,912 | 2,145,346 | 615 | 198 | 4.24 | 93.33 |
| 2013 | 464,275 | 2,110,651 | 664 | 214 | 4.44 | 97.63 |
| 2014 | 484,572 | 2,202,872 | 667 | 215 | 4.83 | 106.21 |

Canada's railways move $\mathbf{7 5}$ million people and close to $\mathbf{7 0}$ per cent of all intercity surface goods in Canada each year, while producing just 3 per cent of our country's transportation-related greenhouse gas emissions - making rail one of Canada's greenest transportation options.

[^8]
## PASSENGER TRANSPORTATION

Canada's passenger railways move millions of people each year, while reducing congestion on highways and limiting harmful emissions. In 2014, overall passenger rail traffic grew, mainly due to a rise in the use of commuter rail.

## COMMUTER RAIL

Within the passenger sector, the total number of railway commuters in British Columbia, Ontario and Quebec - the three provinces with commuter railway services - increased by 2.2 per cent in 2014 from the previous year. Commuter passenger-miles rose by 2.0 per cent, and commuter train-miles grew by 3.0 per cent. However, the average number of commuters per train declined by 3.7 per cent, year over year.

|  | Commuter passenger ${ }^{14}$ |  | Commuter train |  | Average rail commuters per train | Rail commuters (000) in British Columbia, Ontario and Quebec |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | miles (000) | kilometres (000) | miles <br> (000) | kilometres (000) |  |  |
| 2005 | 224,833 | 361,834 | 2,820 | 4.539 | 283 | 58,235 |
| 2006 | 237,781 | 382,672 | 2,730 | 4.394 | 300 | 60,634 |
| 2007 | 247,066 | 397,615 | 2,808 | 4,518 | 339 | 63,393 |
| 2008 | 256,123 | 412,190 | 2,832 | 4.558 | 340 | 67,052 |
| 2009 | 245,942 | 395,806 | 2,876 | 4.628 | 301 | 65,962 |
| 2010 | 256,134 | 412,209 | 3,008 | 4,841 | 310 | 68,562 |
| 2011 | 278,244 | 447,791 | 3,171 | 5,103 | 255 | 68,427 |
| 2012 | 288,161 | 463,752 | 4,356 | 7,011 | 342 | 70,035 |
| 2013 | 2,570,664 | 4,137,075 | 4,477 | 7,205 | 287 | 70,266 |
| 2014 | 2,622,039 | 4,219,754 | 4,610 | 7,419 | 276 | 71,829 |



[^9]
## INTERCITY PASSENGER RAIL

In the intercity passenger sector, passenger-miles and passenger train-miles decreased by 3.1 and 1.3 per cent, respectively, in 2014 from the previous year. The average number of intercity passengers per train ${ }^{15}$ declined by 1.8 per cent, while the average length of journey edged down by 0.6 per cent.

|  | Passenger <br> cars in service | Number of <br> passengers <br> (000) | miles <br> (millions) | kilometres <br> (millions) |
| :--- | ---: | ---: | ---: | ---: |
| 2005 | 538 | 4,322 | 919 | 1,479 |
| 2006 | 537 | 4,320 | 906 | 1,458 |
| 2007 | 538 | 4,478 | 912 | 1,468 |
| 2008 | 540 | 4,899 | 986 | 1,588 |
| 2009 | 559 | 4,538 | 894 | 1,439 |
| 2010 | 545 | 4,477 | 877 | 1,412 |
| 2011 | 544 | 4,461 | 888 | 1,428 |
| 2012 | 542 | 4,246 | 871 | 1,402 |
| 2013 | 552 | 4,186 | 861 | 1,386 |
| 2014 | 552 | 4,094 | 834 | $\mathbf{1 , 3 4 3}$ |


|  | Passenger train |  | Passenger car |  |
| :---: | :---: | :---: | :---: | :---: |
|  | miles <br> (000) | kilometres (000) | miles (000) | kilometres (000) |
| 2005 | 7.415 | 11,933 | 49,966 | 80.412 |
| 2006 | 7,381 | 11,879 | 49,400 | 79,501 |
| 2007 | 7,330 | 11,796 | 48,708 | 78,388 |
| 2008 | 7.414 | 11,932 | 49,140 | 79,083 |
| 2009 | 7,334 | 11,803 | 47,290 | 76,106 |
| 2010 | 7,331 | 11,799 | 46,275 | 74,472 |
| 2011 | 7,273 | 11,705 | 48,239 | 77,633 |
| 2012 | 7,075 | 11,386 | 48,725 | 78,415 |
| 2013 | 6,809 | 10,958 | 43,673 | 70,285 |
| 2014 | 6,720 | 10,814 | 41,587 | 66,928 |

[^10]|  | Average <br> intercity <br> passengers <br> per train | Average length <br> of journey | Average <br> passenger <br> load factor <br> (\%) | On-time <br> performance <br> (\%) |  |
| :--- | :---: | ---: | ---: | :---: | :---: |
| 2005 | 124 | 217 | kilometres | 349 | 55 |
| 2006 | 123 | 214 | 344 | 54 | 81 |
| 2007 | 124 | 209 | 336 | 55 | 84 |
| 2008 | 133 | 206 | 332 | 59 | 77 |
| 2009 | 122 | 203 | 327 | 57 | 75 |
| 2010 | 120 | 204 | 328 | 57 | 83 |
| 2011 | 122 | 204 | 328 | 55 | 82 |
| 2012 | 123 | 213 | 342 | 54 | 84 |
| 2013 | 126 | 214 | 344 | 56 | 82 |
| 2014 | 124 | 213 | 342 | 60 | 82 |
|  |  |  |  |  |  |



## SAFETY

Nothing is more important to Canada's railways than operating safely. In 2014, the railway industry introduced new initiatives to improve safety, transparency and emergency preparedness, while accelerating existing efforts. The industry also increased its training and outreach, and invested $\$ 1.8$ billion to maintain and upgrade the safety and efficiency of its Canadian network. ${ }^{16}$

Excluding crossing and trespassing incidents, non-main-track accidents accounted for more than three quarters of all railway accidents in 2014. Most non-main-track accidents are minor and occur during switching operations at speeds of less than 10 m.p.h.

NOTE: Rail Trends safety data reflects the performance of RAC's federally and provincially regulated freight and passenger member-railways. The data in this section comes from the Transportation Safety Board of Canada (TSB) and RAC. The TSB maintains a database of safety performance statistics on federally regulated railways, as well as provincially regulated railways that voluntarily report their data. RAC collects similar statistics for its member-railways. Each organization uses the same safety definitions, and the data reflects railway operations in Canada only.


[^11][^12]
## FREIGHT

In 2014, the freight sector's accident rate ${ }^{17}$ fell by 2.8 per cent to 2.11 accidents per billion gross ton-miles (BGTM), the second-lowest freight accident rate ever recorded. This accident rate was 11.0 per cent lower than the five-year average. Since 2005, the freight sector's accident rate has dropped by 41.4 per cent. Main-track collisions and derailments accounted for less than 10.0 per cent of all freight rail accidents in 2014.

|  | Freight accidents | BGTM | Accident rate |
| :--- | ---: | ---: | ---: |
| 2005 | 1647 | 457.95 | 3.60 |
| 2006 | 1578 | 459.63 | 3.43 |
| 2007 | 1497 | 463.36 | 3.23 |
| 2008 | 1304 | 449.92 | 2.90 |
| 2009 | 1104 | 397.29 | 2.78 |
| 2010 | 1155 | 447.05 | 2.58 |
| 2011 | 1057 | 473.31 | 2.23 |
| 2012 | 1060 | 503.88 | 2.10 |
| 2013 | 1149 | 529.38 | 2.17 |
| 2014 | 1191 | 564.31 | 2.11 |

Freight accident rate


[^13]
## PASSENGER

In 2014, the passenger rail sector's accident rate ${ }^{18}$ rose by 17.6 per cent to 0.80 accidents per million passengers, but fell by 8.0 per cent from the five-year average. Since 2005, the passenger sector's accident rate has fallen by 35.0 per cent. Main-track collisions and derailments accounted for less than 5.0 per cent of all passenger rail accidents in 2014.

|  | Passenger <br> accidents | Intercity <br> passengers | Commuters | Tourist <br> passengers | Total <br> (million) | Accident <br> rate |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2005 | 77 | 4322 | 58,235 | 277 | 63 | 1.23 |
| 2006 | 64 | 4320 | 60,634 | 360 | 65 | 0.98 |
| 2007 | 72 | 4478 | 63,393 | 378 | 68 | 1.05 |
| 2008 | 71 | 4899 | 67,052 | 352 | 72 | 0.98 |
| 2009 | 73 | 4538 | 65,962 | 175 | 71 | 1.03 |
| 2010 | 67 | 4477 | 68,562 | 222 | 73 | 0.91 |
| 2011 | 74 | 4461 | 68,427 | 192 | 73 | 1.01 |
| 2012 | 52 | 4246 | 70,035 | 214 | 74 | 0.70 |
| 2013 | 51 | 4250 | 70,092 | 215 | 75 | 0.68 |
| 2014 | 61 | 4094 | 71,829 | 371 | 76 | 0.80 |

Passenger accident rate


[^14]
## CROSSING AND TRESPASSING ACCIDENTS

The number of crossing accidents decreased by 10.7 per cent in 2014 from the previous year, and fell by 7.4 per cent from the 2009-2013 average. Trespassing accidents dropped by 9.7 per cent, year over year, and fell by 24.7 per cent from the five-year average. Other accident types declined by 27.7 per cent from 2013.

|  | Crossing accidents | Trespassing accidents | Other accident types |
| :--- | ---: | ---: | ---: |
| 2005 | 299 | 89 | 26 |
| 2006 | 280 | 122 | 46 |
| 2007 | 246 | 132 | 50 |
| 2008 | 237 | 77 | 54 |
| 2009 | 206 | 75 | 38 |
| 2010 | 204 | 91 | 28 |
| 2011 | 179 | 69 | 47 |
| 2012 | 198 | 75 | 40 |
| 2013 | 206 | 62 | 65 |
| 2014 | 184 | 56 | 47 |

## Accidents by type of occurrence



Operation Lifesaver (OL) is an organization sponsored by Canada's railway industry and Transport Canada, which works to teach Canadians about rail crossing and trespassing safety. In 2014, OL's network of more than 400 volunteers conducted nearly 800 presentations and other activities across Canada about the importance of public-rail safety.

## ACCIDENTS INVOLVING DANGEROUS GOODS

Canada's railways are legally obligated to move dangerous goods ${ }^{19}$ under the Canada Transportation Act. Over many years, the industry has developed a strong safety record thanks to robust investments in infrastructure, training and technology.

In 2014, the industry's accident rate involving dangerous goods ${ }^{20}$ fell by 3.1 per cent from the previous year, and by 6.1 per cent from the 2009-2013 average. More than three quarters of reportable dangerous goods accidents in 2014 occurred off the main track.

|  | Total accidents <br> involving <br> dangerous goods | Dangerous goods <br> carloads | Accident rate <br> (accidents per 1,000 <br> dangerous goods carloads) |
| :--- | ---: | ---: | ---: |
| 2005 | 229 | 414,752 | 0.55 |
| 2006 | 196 | 406,425 | 0.48 |
| 2007 | 206 | 426,789 | 0.48 |
| 2008 | 170 | 422,764 | 0.40 |
| 2009 | 145 | 379,650 | 0.38 |
| 2010 | 149 | 400,318 | 0.37 |
| 2011 | 129 | 425,124 | 0.30 |
| 2012 | 124 | 428,660 | 0.29 |
| 2013 | 157 | 493,360 | 0.32 |
| 2014 | 179 | 576,226 | 0.31 |

## Accidents involving dangerous goods



[^15]In 2014, Canada's railways trained more than 9,500 first responders, railway employees and industrial plant workers on dangerous goods handling and emergency response. The industry also sponsored more than 300 first responders to receive rail-specific dangerous goods training in Pueblo, Colo. Canada's railways also held 125 safety-related public meetings with mayors, city managers and First Nations chiefs from coast to coast, and shared information about the goods moving through 565 communities, to help first responders prepare and plan.


## FINANCIAL INFORMATION, INVESTMENTS AND TAXES

Over the last 10 years, Canada's railways have invested close to 14 per cent of their revenues - more than $\$ 16.0$ billion - back into their Canadian network. These investments cover all areas of railroading, and ensure Canada's railway sector remains globally competitive, sustainable, and most importantly, safe.

## OPERATING EXPENSES

In 2014, the Canadian rail sector's operating expenses rose 10.1 per cent to $\$ 11.4$ billion, mainly due to higher costs for transportation, ${ }^{21}$ fuel, and equipment maintenance.

Operating expenses (\$ millions)
Maintenance-

|  | Transportation | Fuel | Equipment <br> maintenance | Maintenance- <br> of-way and <br> structures | General and <br> administrative | Total |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 2005 | 2,241 | 1,159 | 1,382 | 1,493 | 1,501 | 7,776 |
| 2006 | 2,224 | 1,367 | 1,575 | 1,408 | 1,637 | 8,211 |
| 2007 | 2,337 | 1,513 | 1,634 | 1,549 | 1,462 | 8,495 |
| 2008 | 2,376 | 2,032 | 1,564 | 1,718 | 1,477 | 9,167 |
| 2009 | 2,065 | 1,212 | 1,555 | 1,612 | 1,908 | 8,352 |
| 2010 | 2,195 | 1,464 | 1,452 | 1,766 | 2,294 | 9,171 |
| 2011 | 2,381 | 1,854 | 1,570 | 1,910 | 2,059 | 9,774 |
| 2012 | 2,534 | 2,002 | 1,549 | 1,873 | 2,617 | 10,575 |
| 2013 | 2,521 | 2,061 | 1,698 | 1,968 | 2,132 | 10,380 |
| $\mathbf{2 0 1 4}$ | $\mathbf{2 , 9 7 6}$ | $\mathbf{2 , 3 4 0}$ | $\mathbf{1 , 8 7 6}$ | $\mathbf{2 , 1 0 9}$ | $\mathbf{2 , 1 3 1}$ | $\mathbf{1 1 , 4 3 1}$ |



21 Transportation costs are expenses incurred through the movement of rolling stock (locomotives, railcars, etc.) that are not reported under other operating expense categories.

## OPERATING REVENUES

The Canadian rail sector's operating revenue grew to $\$ 14.7$ billion in 2014, a 9.9 per cent jump from 2013. Operating revenue is made up of three components: freight, passenger and other revenue sources. Freight revenue accounted for more than 90.0 per cent of total operating revenue in 2014, while passenger revenue accounted for just over 5.0 per cent. Other revenue is largely accrued from services provided to passenger and commuter rail companies, as well as switching, demurrage (the rental or storage of railcars) and miscellaneous rentals.

## OPERATING INCOME

The operating income ${ }^{22}$ of RAC members rose 9.2 per cent to $\$ 3.2$ billion in 2014.

| Operating revenue <br> (\$ millions) |  |  |  | Operating income <br> (\$ millions) |  |  |
| :--- | ---: | ---: | ---: | ---: | :--- | ---: |
| 2005 | Freight | Passenger | Other | Total |  | Total |
| 2006 | 9,430 | 576 | 570 | 9,940 |  | 2,164 |
| 2007 | 9,516 | 622 | 561 | 10,613 | 2005 | 2,402 |
| 2008 | 9,957 | 624 | 564 | 10,704 | 2007 | 2,209 |
| 2009 | 8,433 | 661 | 579 | 11,197 | 2008 | 2,030 |
| 2010 | 9,551 | 627 | 539 | 9,599 | 2009 | 1,247 |
| 2011 | 10,305 | 673 | 544 | 10,768 | 2010 | 1,598 |
| 2012 | 11,322 | 668 | 561 | 11,533 | 2011 | 1,760 |
| 2013 | 12,040 | 674 | 637 | 12,633 | 2012 | 2,058 |
| 2014 | 13,287 | 668 | 622 | 13,330 | 2013 | 2,948 |
|  |  | 687 | 679 | 14,653 | 2014 | 3,218 |



[^16]
## INVESTMENTS

Canada's railways invested $\$ 1.8$ billion into their Canadian network in 2014 , a 2.4 per cent increase from the previous year, and a 4.8 per cent rise over the five-year average. In particular, investment (based on year-over-year changes) increased for intermodal equipment (+211.8\%), other equipment (+32.5\%), and track and roadway (+10.1\%).

Investments (\$ millions)

|  |  <br> roadway | Buildings \& related <br>  <br> equipment | Signals, <br> communications <br> \& power |  <br> fuel stations |
| :--- | ---: | ---: | ---: | ---: |
| 2005 | 582 | 189 | 95 | 27 |
| 2006 | 613 | 212 | 74 | 37 |
| 2007 | 618 | 255 | 44 | 43 |
| 2008 | 688 | 189 | 79 | 26 |
| 2009 | 706 | 257 | 72 | 24 |
| 2010 | 804 | 231 | 109 | 16 |
| 2011 | 971 | 314 | 108 | 15 |
| 2012 | 961 | 269 | 122 | 41 |
| 2013 | 892 | 357 | 100 | 32 |
| 2014 | 982 | 287 | 93 | 10 |


|  | Rolling <br> stock | Intermodal <br> equipment |  <br> roadway machines | Other <br> equipment | Total <br> additions |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 2005 | 416 | 39 | 31 | 15 | 1,394 |
| 2006 | 352 | 48 | 44 | 28 | 1,408 |
| 2007 | 350 | 30 | 41 | 18 | 1,399 |
| 2008 | 290 | 29 | 68 | 22 | 1,391 |
| 2009 | 317 | 34 | 42 | 72 | 1,524 |
| 2010 | 427 | 15 | 49 | 55 | 1,706 |
| 2011 | 307 | 11 | 53 | 64 | 1,844 |
| 2012 | 255 | 22 | 49 | 77 | 1,795 |
| 2013 | 239 | 17 | 50 | 77 | 1,764 |
| 2014 | 230 | 53 | 48 | 102 | $\mathbf{1 , 8 0 6}$ |



Investments


The chart below illustrates investments by category as a percentage of all investments made by RAC member-railways in 2014.


Track \& roadway (54\%)
Buildings \& related machinery \& equipment (16\%)
Signals, communications \& power (5\%)
$\square$ Terminals \& fuel stations (<1\%)
Rolling stock (13\%)

- Intermodal equipment (3\%)
- Work equipment \& roadway machines (3\%)
- Other equipment (6\%)


## TAXES

In 2014, Canada's railways paid $\$ 1.1$ billion in total taxes - a 9.8 per cent decrease from the previous year. The main contributor to this decline was a 26.5 per cent drop in the total corporate income taxes paid by railways from the previous year.

Meanwhile, payroll taxes grew by 2.7 per cent in 2014 over the previous year.

|  | Locomotive fuel \& excise tax | Property tax | Other sales tax | Capital tax \& customs duties | $\begin{aligned} & \text { Income } \\ & \text { tax } \end{aligned}$ | Payroll taxes | Carbon tax ${ }^{23}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2005 | 180 | 155 | 98 | 31 | 101 | 151 | n/a | 716 |
| 2006 | 188 | 155 | 102 | 21 | 471 | 147 | n/a | 1,084 |
| 2007 | 188 | 154 | 97 | 15 | 381 | 154 | n/a | 989 |
| 2008 | 187 | 152 | 99 | 14 | 323 | 155 | n/a | 930 |
| 2009 | 177 | 152 | 97 | 14 | 265 | 148 | n/a | 853 |
| 2010 | 195 | 150 | 96 | 14 | 185 | 147 | n/a | 787 |
| 2011 | 204 | 153 | 70 | 0 | 372 | 158 | n/a | 957 |
| 2012 | 220 | 158 | 70 | 0 | 159 | 170 | n/a | 777 |
| 2013 | 219 | 169 | 43 | 1 | 629 | 150 | n/a | 1,209 |
| 2014 | 186 | 179 | 65 | 1 | 462 | 154 | 44 | 1,091 |

The chart below illustrates taxes paid by category as a percentage of total taxes paid by RAC member-railways.


[^17]Payroll taxes (\$ millions)

|  | Canada/Quebec <br> Pension Plan | Unemployment <br> insurance | Health taxes | Total |
| :--- | ---: | ---: | ---: | ---: |
| 2005 | 72 | 36 | 43 | 151 |
| 2006 | 72 | 32 | 43 | 147 |
| 2007 | 75 | 33 | 46 | 154 |
| 2008 | 77 | 33 | 45 | 155 |
| 2009 | 74 | 30 | 44 | 148 |
| 2010 | 73 | 31 | 43 | 147 |
| 2011 | 77 | 34 | 47 | 158 |
| 2012 | 84 | 37 | 49 | 170 |
| 2013 | 75 | 32 | 43 | 150 |
| 2014 | 77 | 37 | 40 | 154 |

Taxes by jurisdiction (\$000)

|  | Locomotive fuel \& excise tax |  | $\begin{gathered} \begin{array}{c} \text { Fuel tax per } \\ \text { litre (cents) } \end{array} \\ \hline 2014 \\ \hline \end{gathered}$ | Property tax |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2014 |  | 2013 | 2014 |
| Alberta | 4.739 | 5,034 | 1.5 | 15,825 | 16,254 |
| British Columbia | 56,904 | 16,413 | 10.7 | 42,011 | 41,204 |
| Manitoba | 10,687 | 11,090 | 6.3 | 14,118 | 13,644 |
| Nfld. \& Labrador | 0 | 0 | 16.5 | 33 | 33 |
| New Brunswick | 1,195 | 1,183 | 4.3 | 1,865 | 1,976 |
| Nova Scotia | 0 | 0 | 15.4 | 3,000 | 2,816 |
| Ontario | 23,835 | 26,212 | 4.5 | 34,300 | 43,671 |
| Quebec | 4,143 | 3,404 | 3.0 | 38,863 | 39,508 |
| Saskatchewan | 38,645 | 40,114 | 15.0 | 18,542 | 19,645 |
| Northwest Territories | 0 | 0 | 11.4 | 61 | 93 |
| Federal | 78,791 | 82,650 | 4.0 | 0 | 0 |
| Total | 218,939 | 186,100 |  | 168,617 | 178,844 |


|  | Other sales tax |  | Capital tax \& customs duties |  | Income tax |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2014 | 2013 | 2014 | 2013 | 2014 |
| Alberta | 73 | 0 | 594 | 1027 | 46,384 | 37,585 |
| British Columbia | 16,674 | 35,074 | 0 | 0 | 0 | 1,358 |
| Manitoba | 14,089 | 15,972 | 137 | 137 | 612 | 1,414 |
| Nfld. \& Labrador | 0 | 0 | 0 | 0 | 0 | 0 |
| New Brunswick | 0 | 0 | 0 | 0 | 0 | 0 |
| Nova Scotia | 0 | 0 | 23 | 0 | 4 | 4 |
| Ontario | 26 | 2,154 | 118 | 118 | 47,248 | 48,514 |
| Quebec | 469 | 1,470 | 0 | 0 | 28,471 | 19,545 |
| Saskatchewan | 10,908 | 9,643 | 88 | 88 | 649 | 2,634 |
| Northwest Territories | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal | 380 | 513 | -376 | -375 | 505,634 | 351,343 |
| Total | 42,618 | 64,826 | 584 | 995 | 629,002 | 462,396 |

## EMPLOYMENT

A large percentage of Canadian railway employees are reaching retirement age, and the workforce is shrinking due to attrition. In 2014, RAC membercompanies developed education and recruitment initiatives in partnership with stakeholders, to ensure that Canada's railway industry remains well positioned to both replenish and grow its workforce.

The Canadian rail industry's workforce shrunk by 1.5 per cent in 2014, while the sector's compensation ${ }^{24}$ grew by 3.4 per cent. As a result, the average annual wage per employee increased by 4.9 per cent in 2014, to $\$ 92,491$.
\(\left.$$
\begin{array}{lrrr}\text { Total compensation } \\
\text { (\$ millions) }\end{array}
$$ \quad $$
\begin{array}{r}\text { Average number } \\
\text { of employees }\end{array}
$$ \quad \begin{array}{r}Average annual wage <br>

per employee (\$)\end{array}\right]\)| 71,994 |  |
| :--- | :--- |
| 2005 | 2,548 |
| 35,389 | 73,356 |
| 2006 | 2,535 |



[^18]
## TRACK AND EQUIPMENT

Canadian railways operated 27,304 miles (43,942 kilometres) of track in 2014, up 0.1 per cent from the previous year. ${ }^{25}$ The increase was mainly due to track mileage reported by new RAC member-railways.

The industry's freight car fleet was reduced by 1.4 per cent in 2014 , mainly due to shippers owning more of their own cars. The number of locomotives in service fell by 11.4 per cent from the previous year.

|  | Miles | Kilometres | Index <br> $\mathbf{2 0 0 0}=\mathbf{1 0 0}$ | Freight cars <br> in service | Locomotives <br> in service |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 2005 | 30,380 | 48,893 | 104.9 | 101,606 | 3,253 |
| 2006 | 29,978 | 48,243 | 103.5 | 99,946 | 3,271 |
| 2007 | 29,713 | 47,816 | 102.6 | 92,373 | 3,165 |
| 2008 | 29,366 | 47,258 | 101.4 | 83,984 | 3,046 |
| 2009 | 28,163 | 45,323 | 97.3 | 75,836 | 2,742 |
| 2010 | 27,654 | 44,501 | 95.5 | 71,788 | 2,954 |
| 2011 | 27,102 | 43,617 | 93.6 | 71,750 | 2,977 |
| 2012 | 26,923 | 43,328 | 93.0 | 64,485 | 3,063 |
| 2013 | 27,270 | 43,887 | 94.2 | 59,395 | 3,043 |
| $\mathbf{2 0 1 4}$ | $\mathbf{2 7 , 3 0 4}$ | 43,942 | 94.3 | $\mathbf{5 8 , 5 7 7}$ | $\mathbf{2 , 6 9 6}$ |

Track operated, by provinces and territories

|  | 2013 |  |  | 2014 |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  | Miles | Kilometres |  | Miles | Kilometres |
| Alberta | 4,150 | 6,679 |  | 4,041 | 6,503 |
| British Columbia | 4,174 | 6,717 |  | 4,174 | 6,717 |
| Manitoba | 2,662 | 4,284 |  | 2,833 | 4,559 |
| Nfld. \& Labrador | 162 | 261 |  | 162 | 261 |
| New Brunswick | 720 | 1,159 |  | 720 | 1,159 |
| Nova Scotia | 419 | 674 |  | 419 | 674 |
| Ontario | 6,270 | 10,091 |  | 6,265 | 10,082 |
| Quebec | 3,554 | 5,719 |  | 3,613 | 5,815 |
| Saskatchewan | 5,083 | 8,181 | 5,002 | 8,050 |  |
| Northwest Territories | 75 | 121 | 75 | 121 |  |
| Total | 27,270 | 43,887 |  | 27,304 | 43,942 |
| Intercity passenger trains ${ }^{26}$ | 7,820 | 12,585 |  | 7,820 | 12,585 |
| Commuter and tourist trains | 27 | 2,365 | 3,806 |  | 3,101 |

[^19]
## APPENDIX A GLOSSARY

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.

Gross ton-mile (Gross tonne-kilometre): 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.

Passenger-mile: A passenger-mile denotes one mile travelled by one passenger, and is used to measure the volume of passenger traffic.

Revenue ton-miles (Revenue tonne-kilometres): 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. Excludes track used by intercity passenger trains, commuter and tourist trains, and segments of track terminating in the U.S.

Train-mile: The movement of a train the distance of one mile.

## APPENDIX B SAFETY DEFINITIONS

The following definitions apply to railway occurrences that are required to be reported under the Canadian Transportation Accident Investigation and Safety Board Act and its associated regulations.

## Reportable railway accident

An incident in which:

1. a person is killed or sustains a serious injury as a result of
(i) getting on or off or being on board the rolling stock, or
(ii) coming into contact with any part of the rolling stock or its contents;
2. the rolling stock or its contents
(i) are involved in a collision or derailment,
(ii) sustain damage that affects the safe operation of the rolling stock,
(iii) cause or sustain a fire or explosion, or
(iv) 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.

## Dangerous goods involvement

An accident is considered to have dangerous goods involvement if any of a train's cars 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 product. Also included are crossing accidents in which the motor vehicle involved (e.g., tanker truck) is carrying a dangerous good.

## Crossing accident

A crossing accident is when a locomotive or railcar is involved in a collision with a motor vehicle or pedestrian at a railway crossing, resulting in death, serious injury or property damage.

## Trespassing accident

Trespassing accidents occur when people - primarily pedestrians who are not authorized to be on railway rights-of-way - are struck by locomotives or railway cars anywhere other than at railway crossings.

## Other accident types

Other accident types include but are not limited to, trespassing, collisions/ derailments involving track units, rolling stock collisions with objects, or employee/passenger accidents.

## APPENDIX C CONVERSION FACTORS

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


[^0]:    1 Miles (kilometres) of rail operated includes rail over which a railway has operating rights.

[^1]:    2 A detailed profile of railway industry performance by province is available on www.railcan.ca.

[^2]:    3 Statistics Canada provides monthly statistics of commodity movements in Canada in its Railway Carloadings publication. This publication offers a brief analysis, along with a number of tables showing car loadings and tonnes carried for 63 commodity groupings.
    4 Not all RAC member-companies record carloads originated by commodity grouping. The intermodal total is estimated by multiplying the number of intermodal units by an average load factor to determine the equivalent number of carloads.

[^3]:    5 Source: Statistics Canada, CANSIM Table 404-0002.

[^4]:    6 Calculated by dividing revenue ton-miles (revenue tonne-kilometres) by revenue tons (revenue tonnes).
    7 Calculated by dividing loaded and empty car-miles (car-kilometres) by train-miles (train-kilometres).

[^5]:    8 Total intermodal traffic originated in Canada reflects both the Canadian and U.S. operations of Canadian Class 1 railways. Intermodal units are actual counts of trailers and containers, regardless of size, and are not "twenty-foot equivalent units (TEUs)."

[^6]:    9 Calculated by dividing freight revenue by revenue ton-miles (revenue tonne-kilometres).
    10 Source: Bank of Canada data.

[^7]:    11 Calculated by dividing the annual sum of revenue-producing tonnage by the average number of freight railway employees.

[^8]:    12 Calculated by dividing total revenue ton-miles (revenue tonne-milometres) by the total volume of fuel consumed.
    13 Includes fuel expenses and gallons (litres) consumed by both freight and passenger railways.

[^9]:    14 Commuter passenger-miles (commuter passenger-kilometres) statistics before 2013 exclude CO Transit, which began reporting this data to RAC in 2013.

[^10]:    15 Calculated by dividing the number of intercity passengers by the number of passenger trains.

[^11]:    Photo: CP

[^12]:    16 See the Investments sub-section for a breakdown of railway industry investments.

[^13]:    17 Calculated by dividing the number of reportable freight rail accidents by the freight sector's workload in gross ton-miles.

[^14]:    18 Calculated by dividing the number of passenger rail accidents by the total number of intercity and tourist passengers and rail commuters.

[^15]:    19 "Dangerous goods" are defined in section 2 of the Transportation of Dangerous Goods Act, 1992.
    20 Calculated by dividing total accidents involving dangerous goods by the number of dangerous goods carloads moved by Canada's railways.

[^16]:    22 Operating income reflects earnings before interest and taxes.

[^17]:    23 Prior to 2014, carbon tax data was included in the Locomotive fuel \& excise tax category.

[^18]:    24 Compensation includes salaries and compensation paid, but excludes company paid benefits such as the Canada/Quebec Pension Plan, unemployment insurance and health taxes.

[^19]:    25 Segments of track acquired by non-RAC-member railways would have the effect of reducing the total track mileage reported in Rail Trends.
    26 Reflects intercity passenger railways' track and operating rights over track owned by other railways.
    27 Reflects commuter and tourist railways' track and operating rights over track owned by other railways.
    28 Reflects railway subdivisions that begin in Canada and terminate in the United States.

