

**Table S3: Railways Under Federal Jurisdiction, Accidents and Incidents, 2014–2023**

Accident Type	2014 <sup>R</sup>	2015 <sup>R</sup>	2016 <sup>R</sup>	2017 <sup>R</sup>	2018 <sup>R</sup>	2019	2020 <sup>R</sup>	2021	2022 <sup>R</sup>	2023 <sup>P</sup>	Average 2014 - 2023
Crossing collision	187	167	137	146	166	178	130	136	162	149	155.8
Trespasser accident	54	50	68	76	69	56	60	63	73	80	64.9
Main-track train derailment	116	76	60	81	89	93	71	76	68	55	78.5
Main-track train collision	9	4	6	3	5	4	7	4	8	14	6.4
Non-main-track train derailment	494	537	444	548	601	606	492	400	451	405	497.8
Non-main track train collision	109	94	72	106	102	112	67	62	67	66	85.7
Derailment involving track unit	7	11	7	24	16	19	15	16	32	25	17.2
Collision involving track unit	20	33	16	21	32	31	24	34	33	25	26.9
Employee accident	10	9	11	14	8	14	9	8	9	3	9.5
Passenger accident	4	6	5	4	5	1		3	2	1	3.4
Rolling stock with object	22	20	36	30	31	30	30	43	46	50	33.8
Rolling stock with abandoned vehicle	2	6	7	3	9	7	4	3	3	5	4.9
Rolling stock damage without derailment/collision	13	20	12	12	6	5	1	5	13	3	9.0
Fire on board rolling stock	31	30	34	32	33	58	32	45	46	42	38.3
Other accidents							1				1.0
<b>Total Accidents</b>	<b>1,078</b>	<b>1,063</b>	<b>915</b>	<b>1,100</b>	<b>1,172</b>	<b>1,214</b>	<b>943</b>	<b>898</b>	<b>1,013</b>	<b>923</b>	<b>1031.9</b>
<b>Incident Type</b>											
Main-track switch in abnormal position	6	12	7	12	7	15	3	13	8	8	9.1
Movement exceeds limits of authority	129	144	136	123	139	136	150	109	136	166	136.8
Signal less restrictive than required	2	5	1	1	2		1		7		2.7
Unprotected overlap of authorities	5	6	4	2	11	6	5	4	2		5.0
Runaway rolling stock	11	14	10	15	15	15	19	13	9	9	13.0
Crew member incapacitated	1	2	1	4	5		1				2.3
Dangerous goods leakage	63	33	7								34.3
Main-track train derailment1	2	3	5	3	4	3	1	2	1		2.7
Non-main-track train derailment1	166	129	97	67	96	58	32	39	112	66	86.2
Non-main track train collision1	10	4	4	2	2		1	2	4	3	3.6
Derailment involving track unit1	7	10	13	5	5	7	9	4	4	12	7.6
Rolling stock with object2	6	10	14	3		1	2	6	6	6	6.0
Rolling stock with abandoned vehicle2	1	5	5		1		1	1			2.3
Fire on railway right-of-way	6	2	1	1	1	43	46	145	88	56	38.9
Other incidents	0	1	0	0	0	1	5	0	1	0	0.8
<b>Total Incidents</b>	<b>415</b>	<b>380</b>	<b>305</b>	<b>238</b>	<b>288</b>	<b>285</b>	<b>276</b>	<b>338</b>	<b>378</b>	<b>326</b>	<b>322.9</b>
<b>Million Train-Miles (MTM)<sup>3</sup></b>	<b>87.4</b>	<b>85.0</b>	<b>79.6</b>	<b>82.9</b>	<b>88.0</b>	<b>88.9</b>	<b>80.2</b>	<b>79.6</b>	<b>81.0</b>	<b>81.0</b>	<b>83.4</b>
<b>Accidents per MTM - Accident Rate</b>	<b>11.9</b>	<b>12.3</b>	<b>11.3</b>	<b>13.1</b>	<b>13.3</b>	<b>13.7</b>	<b>11.7</b>	<b>11.3</b>	<b>12.3</b>	<b>12.3</b>	<b>12.3</b>
<b>Accident Fatalities</b>											
Crossing collision	23	15	21	20	19	28	18	17	15	13	18.9
Trespasser accident	32	30	47	52	34	38	40	41	51	53	41.8
Other	3	1	0	5	4	6	2	2	0	1	2.4
<b>Total Fatalities</b>	<b>58</b>	<b>46</b>	<b>68</b>	<b>77</b>	<b>57</b>	<b>72</b>	<b>60</b>	<b>60</b>	<b>66</b>	<b>67</b>	<b>63.1</b>
<b>Accident Injuries</b>											
Crossing collision	33	18	24	22	41	31	12	24	28	19	25.2
Trespasser accident	21	17	20	22	31	17	20	17	17	20	20.2
Other	3	15	12	21	19	17	8	11	15	6	12.7
<b>Total Injuries</b>	<b>57</b>	<b>50</b>	<b>56</b>	<b>65</b>	<b>91</b>	<b>65</b>	<b>40</b>	<b>52</b>	<b>60</b>	<b>45</b>	<b>58.1</b>
<b>Dangerous Goods Involved in Accidents</b>	<b>163</b>	<b>131</b>	<b>104</b>	<b>119</b>	<b>124</b>	<b>169</b>	<b>81</b>	<b>86</b>	<b>109</b>	<b>89</b>	<b>117.5</b>
<b>Passenger Train Accidents</b>	<b>52</b>	<b>48</b>	<b>58</b>	<b>52</b>	<b>66</b>	<b>47</b>	<b>31</b>	<b>41</b>	<b>51</b>	<b>35</b>	<b>48.1</b>
<b>Passenger Train-Miles (PTM)<sup>4</sup></b>	<b>6.0</b>	<b>6.1</b>	<b>6.5</b>	<b>5.9</b>	<b>6.8</b>	<b>6.9</b>	<b>2.8</b>	<b>3.7</b>	<b>3.7</b>	<b>5.3</b>	<b>5.4</b>
<b>Passenger Rate</b>	<b>8.7</b>	<b>7.8</b>	<b>8.9</b>	<b>8.9</b>	<b>9.7</b>	<b>6.8</b>	<b>11.0</b>	<b>11.2</b>	<b>13.9</b>	<b>6.6</b>	<b>9.3</b>

## Notes and Sources

Notes: P = Preliminary. R = Revised.

The reported occurrences cover only railways under federal jurisdiction. Final figures over preliminary and estimated figures historically have changed less than one per cent. Fatalities and serious injuries involved in incidents are not included in the Fatality and Serious Injury totals. For accident and reportable incident definitions, see Transportation Safety Board Regulation Web site: <http://www.tsb.gc.ca/eng/stats/rail/2011/ss11.asp#AppB>.

New TSB regulations came into effect on July 1, 2014, changing some reporting requirements: 1 = No Damage, 2 = No Derailment & No Damage

3 Train-miles include main track-miles and yard switching miles.

4 PTM = Passenger train-miles; figures are estimated.

Sources: Transport Canada, adapted from the Transportation Safety Board, Transport Canada (activity data)