

Table S3: Railways Under Federal Jurisdiction, Accidents and Incidents, 2013–2022

	2013 ^R	2014 ^R	2015 ^R	2016 ^R	2017 ^R	2018 ^R	2019 ^R	2020 ^R	2021 ^R	2022 ^P	Average 2013 - 2022
Accident Type											
Crossing collision	184	185	165	133	143	167	178	130	136	160	158.1
Trespasser accident	56	54	50	68	77	68	56	60	63	73	62.5
Main-track train derailment	84	100	74	58	81	87	93	70	76	68	79.1
Main-track train collision	4	9	4	5	3	5	4	7	3	8	5.2
Non-main-track train derailment	549	481	523	435	541	599	606	492	400	440	506.6
Non-main track train collision	93	106	92	69	103	101	112	67	62	63	86.8
Derailment involving track unit	18	7	11	7	24	16	19	15	16	32	16.5
Collision involving track unit	23	20	32	16	21	32	31	24	34	32	26.5
Employee accident	8	10	9	11	13	8	14	9	8	8	9.8
Passenger accident	0	3	6	5	4	5	1	0	3	2	2.9
Rolling stock with object	32	22	20	36	30	31	30	30	43	45	31.9
Rolling stock with abandoned vehicle	10	2	6	7	3	9	7	4	3	4	5.5
Rolling stock damage without derailment/collision	23	13	20	12	12	6	5	1	5	14	11.1
Fire on board rolling stock	10	30	30	34	32	33	58	32	46	46	35.1
Other accidents								1			1.0
Total Accidents	1,094	1,042	1,042	896	1,087	1,167	1,214	942	898	995	1037.7
Incident Type											
Main-track switch in abnormal position	7	6	12	7	12	7	15	3	13	8	9.0
Movement exceeds limits of authority	98	129	142	133	122	138	136	149	109	134	129.0
Signal less restrictive than required	1	2	5	1	1	2	0	1	0	6	1.9
Unprotected overlap of authorities	4	5	6	4	2	11	6	5	4	2	4.9
Runaway rolling stock	14	11	14	10	14	15	16	19	13	9	13.5
Crew member incapacitated	6	1	2	1	4	5	0	1	0	0	2.0
Dangerous goods leakage	94	63	33	7	0	0	0	0	0	0	19.7
Main-track train derailment ¹	0	2	3	5	3	4	3	1	2	1	2.4
Non-main-track train derailment ¹	0	166	125	97	67	96	58	32	39	121	80.1
Non-main track train collision ¹	0	8	4	4	2	2	0	1	2	4	2.7
Derailment involving track unit ¹	0	7	10	13	5	5	7	9	4	4	6.4
Rolling stock with object ²	0	6	10	14	3	0	1	2	6	5	4.7
Rolling stock with abandoned vehicle ²	0	1	5	5	0	1	0	1	1	0	1.4
Fire on railway right-of-way	1	6	2	1	1	1	42	46	143	87	33.0
Other incidents	0	0	1	0	0	0	1	5	1	0	0.8
Total Incidents	225	413	374	302	236	287	285	275	337	381	311.5
Million Train-Miles (MTM)³	84.3	87.4	85.0	79.6	82.9	88.0	88.9	80.2	79.6	81.0	83.7
Accidents per MTM - Accident Rate	13.0	11.9	12.3	11.3	13.1	13.3	13.7	11.7	11.3	12.3	12.4
Accident Fatalities											
Crossing collision	30	21	15	19	19	19	28	18	17	14	20.0
Trespasser accident	42	32	30	47	53	34	38	40	41	52	40.9
Other	52	3	1	0	4	4	6	2	2	0	7.4
Total Fatalities	124	56	46	66	76	57	72	60	60	66	68.3
Accident Injuries											
Crossing collision	27	29	18	24	22	42	31	12	24	27	25.6
Trespasser accident	10	21	17	20	22	30	17	20	17	16	19.0
Other	2	3	15	12	21	19	17	8	11	14	12.2
Total Injuries	39	53	50	56	65	91	65	40	52	57	56.8
Dangerous Goods Involved in Accidents	141	143	126	99	115	123	169	81	86	110	119.3
Passenger Train Accidents	45	48	46	56	51	67	47	31	41	52	48.4
Passenger Train-Miles (PTM)⁴	6.1	6.0	6.1	6.5	5.9	6.8	6.9	2.8	3.7	3.7	5.4
Passenger Rate	7.4	8.1	7.5	8.6	8.7	9.8	6.8	11.0	11.2	14.2	9.3

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)*