

Table 1
Railway occurrence and casualty

	November			January to November		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Accidents	66	96	88	1160	1090	962
Main-track train collisions	0	0	0	4	4	5
Main-track train derailments - 1-2 cars*	1	2	3	50	38	39
Main-track train derailments - 3-5 cars	0	0	0	5	10	8
Main-track train derailments - 6 or more cars	2	0	1	30	36	27
Crossings	12	23	16	161	158	141
Non-main-track train collisions	4	7	9	104	89	84
Non-main-track train derailments - 1-2 cars*	26	33	31	453	448	371
Non-main-track train derailments - 3-5 cars	8	9	7	79	88	76
Non-main-track train derailments - 6 or more cars	1	1	2	26	21	27
Collisions/Derailments involving track units	4	7	5	47	48	37
Employee/Passenger	0	3	1	11	12	12
Trespassers	1	7	5	52	65	62
Fires/Explosions	3	0	2	99	30	31
Other	2	4	5	38	43	42
Incidents	10	28	30	228	260	295
Main-track train derailments - 1-2 cars* (no damage)	0	0	1	2	4	3
Non-main-track train collisions* (no derailment, no damage)	0	1	1	0	2	4
Non-main-track train derailments - 1-2 cars* (no damage)	2	5	8	54	87	100
Dangerous goods leaker**	0	0	1	0	0	20
Main-track switch in abnormal position	0	0	1	15	7	8
Movement exceeds limits of authority	7	16	13	129	126	122
Uncontrolled movement of rolling stock	1	4	2	14	13	12
Others	0	2	3	13	21	25
Million train-miles (a)				80.38	80.31	77.47
Accidents/Million train-miles				14.43	13.57	12.42
Accidents involving dangerous goods	7	8	10	159	108	109
Main-track train derailments	0	0	0	17	16	14
Crossings	1	1	1	7	7	5
Non-main-track train collisions	1	3	4	42	27	28
Non-main-track train derailments	5	3	5	88	52	57
All others	0	1	1	5	6	6
Accidents with a DG release	0	1	1	8	5	5
Accidents involving passenger trains	0	10	5	43	63	50
Accidents involving an uncontrolled movement of rolling	1	2	4	56	44	38
Fatalities	3	7	7	69	51	57
Crossings	2	1	2	28	17	17
Trespassers	1	5	4	36	32	38
All others	0	1	1	5	2	2
Serious Injuries	4	15	5	55	85	58
Crossings	4	10	3	27	40	24
Trespassers	0	2	1	15	28	21
All others	0	3	1	13	17	12

Data extracted 16 December 2019.

All 5-year averages have been rounded. The totals sometimes do not coincide to the sum of these averages.

a. Train-miles estimated. (Source: Transport Canada)

New TSB regulations came into effect on July 1, 2014, changing some reporting requirements.

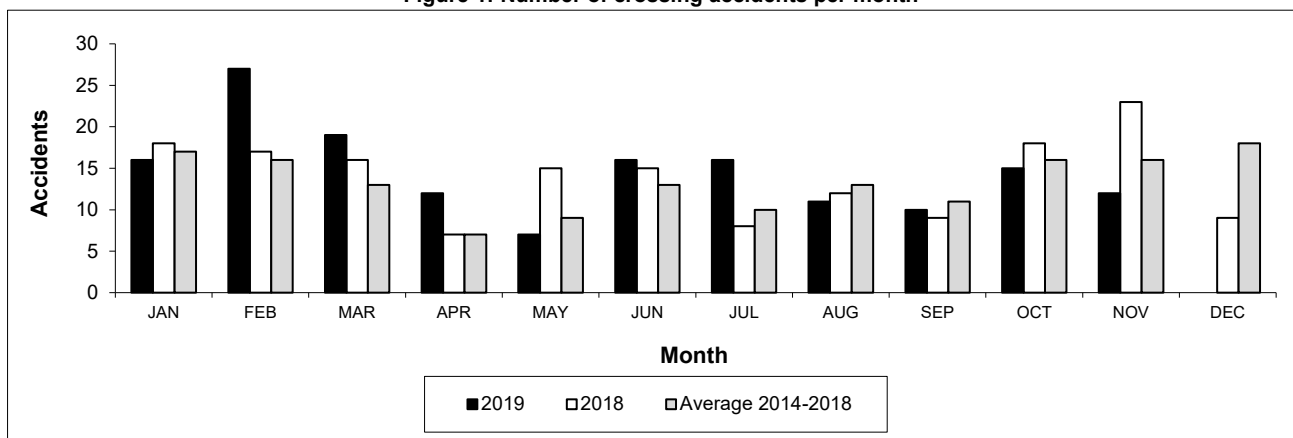
* Under new reporting requirements all derailments are reportable. The TSB has reviewed derailments and collisions back to January 1, 2014 and recategorized occurrences with minimal consequences as reportable incidents including: derailments involving 1 to 2 cars, with no equipment or track damage, no injuries, no fires, and no release of dangerous goods; Non-main-track collisions, with no equipment or track damage, no injuries, no fires, no release of dangerous goods, and did not foul the main track.

** TSB Regulations have been harmonized with Section 8.4 of the Transportation of Dangerous Goods Regulations, under which TSB DG leaker incidents are only reportable if they result in death or serious injury, evacuation, or the closure of a DG loading facility, a road, a main railway line, or a main waterway.

Table 2
Railway crossing and trespasser accidents by province

	Crossings with type recorded 2019 - Year to date*				All crossings Year to date*		Trespasser Year to date*	
	Public automated	Public passive	Private	Farm	2019	2018	2019	2018
Newfoundland								
Accidents	0	0	0	0	0	0	0	0
Fatalities	0	0	0	0	0	0	0	0
Serious injuries	0	0	0	0	0	0	0	0
Nova Scotia								
Accidents	0	0	1	0	1	3	0	0
Fatalities	0	0	0	0	0	0	0	0
Serious injuries	0	0	2	0	2	0	0	0
New Brunswick								
Accidents	0	0	2	0	2	3	1	0
Fatalities	0	0	0	0	0	0	0	0
Serious injuries	0	0	0	0	0	0	1	0
Quebec								
Accidents	13	0	9	1	23	22	6	11
Fatalities	1	0	1	0	2	3	4	7
Serious injuries	0	0	1	0	1	10	2	4
Ontario								
Accidents	29	8	7	1	45	42	18	29
Fatalities	6	3	2	0	11	7	15	13
Serious injuries	4	1	0	0	5	8	3	12
Manitoba								
Accidents	7	8	2	1	18	14	2	3
Fatalities	4	1	0	0	5	0	2	2
Serious injuries	0	0	0	0	0	8	0	1
Saskatchewan								
Accidents	12	10	0	0	22	20	3	1
Fatalities	3	1	0	0	4	1	3	0
Serious injuries	4	2	0	0	6	8	0	1
Alberta								
Accidents	13	15	5	0	33	34	14	9
Fatalities	1	1	0	0	2	3	9	3
Serious injuries	6	1	2	0	9	2	4	6
British Columbia								
Accidents	8	2	7	0	17	20	8	12
Fatalities	4	0	0	0	4	3	3	7
Serious injuries	2	1	1	0	4	4	5	4
Northwest Territories								
Accidents	0	0	0	0	0	0	0	0
Fatalities	0	0	0	0	0	0	0	0
Serious injuries	0	0	0	0	0	0	0	0
Canada								
Accidents	82	43	33	3	161	158	52	65
Fatalities	19	6	3	0	28	17	36	32
Serious injuries	16	5	6	0	27	40	15	28

Figure 1: Number of crossing accidents per month



Data extracted 16 December 2019.

*Year to date is from January to November.

New TSB regulations came into effect on July 1, 2014, changing some reporting requirements.

Table 3
Main-track train derailment accidents and incidents by province*

	January to November			Derailments with DG involvement January to November		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Canada	87	88	77	17	16	14
Newfoundland	0	0	0	0	0	0
Nova Scotia	0	0	0	0	0	0
New Brunswick	1	0	1	0	0	1
Quebec	11	11	9	3	1	1
Ontario	16	13	16	4	2	4
Manitoba	13	8	6	3	2	1
Saskatchewan	11	16	10	1	3	2
Alberta	17	21	19	4	5	4
British Columbia	18	19	16	2	3	1
Northwest Territories	0	0	0	0	0	0

* There were 5 occurrences with dangerous goods release to date in 2019 and 1 in 2018.

Figure 1: Number of main-track train derailments per month

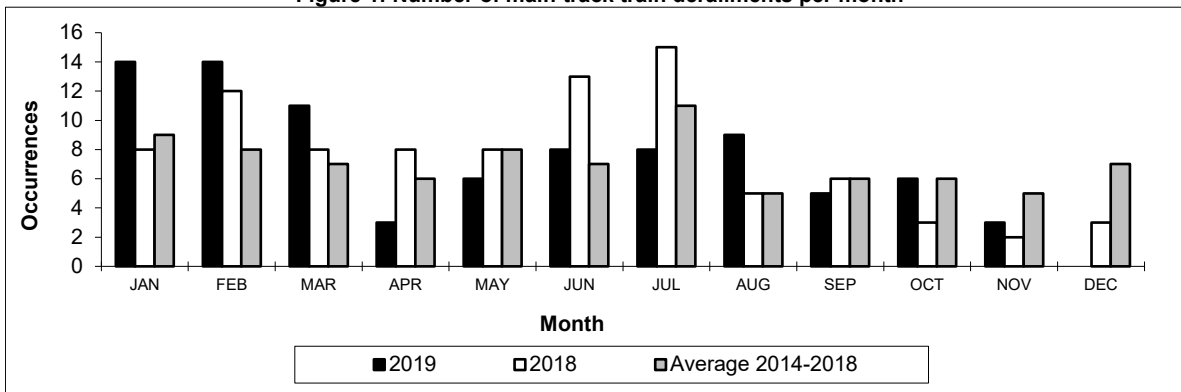
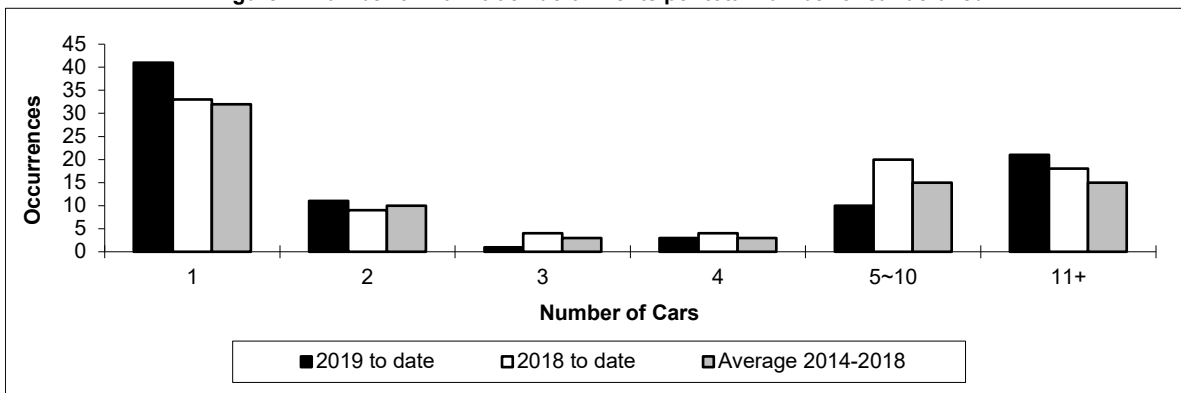


Figure 2: Number of main-track derailments per total number of car derailed



Data extracted 16 December 2019.

Figure 1: Number of main-track train derailments per month

New TSB regulations came into effect on July 1, 2014, changing some reporting requirements.

* Under new reporting requirements all derailments are reportable.

Table 4
Non main-track train collision accidents and incidents by province

	January to November			Collisions with DG involvement January to November		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
	Canada	104	91	88	42	27
Newfoundland	0	1	0	0	0	0
Nova Scotia	0	0	0	0	0	0
New Brunswick	0	1	1	0	0	0
Quebec	7	4	7	2	3	2
Ontario	24	20	21	12	6	7
Manitoba	14	6	12	5	2	4
Saskatchewan	11	13	11	4	3	3
Alberta	29	21	18	15	7	7
British Columbia	19	25	18	4	6	5
Northwest Territories	0	0	0	0	0	0

* There were no occurrences with dangerous goods release to date in 2019 or in 2018.

Figure 1: Number of non main-track train collisions per month

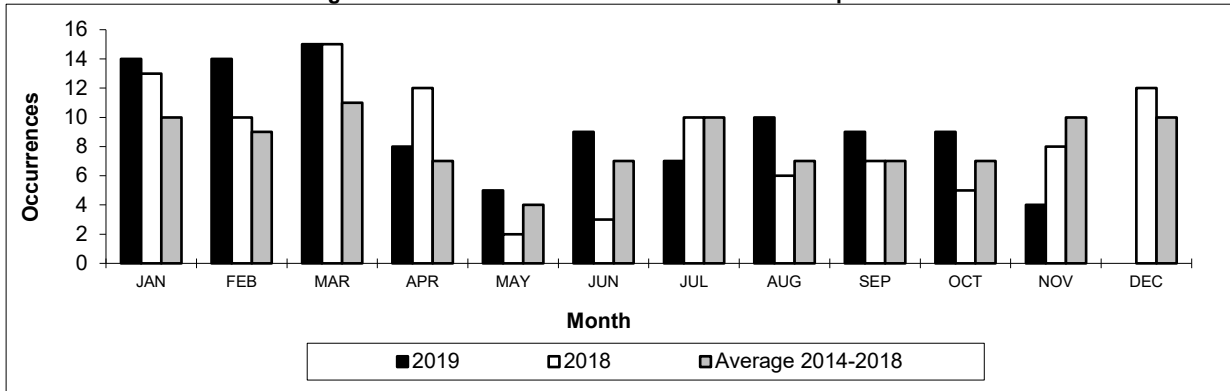
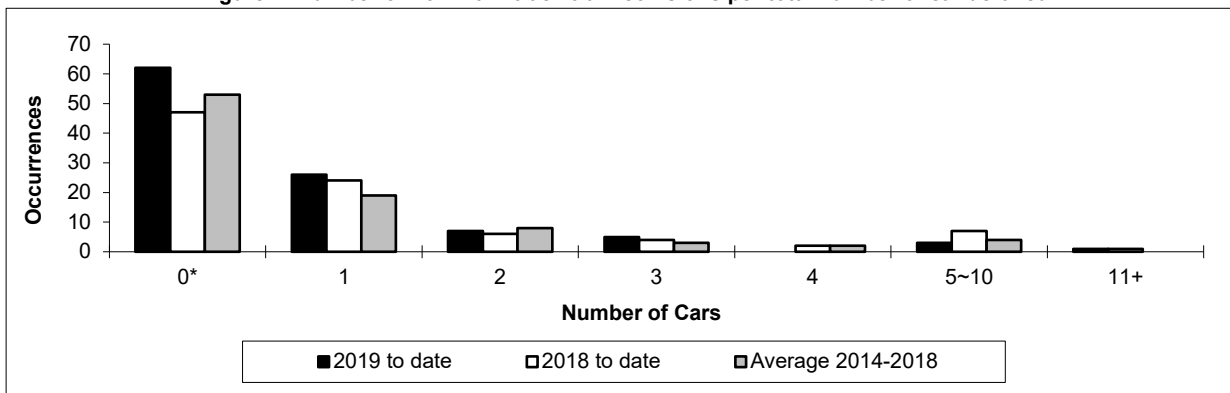


Figure 2: Number of non main-track train collisions per total number of car derailed



Data extracted 16 December 2019.

* Number of collisions with no derailments.

New TSB regulations came into effect on July 1, 2014, changing some reporting requirements.

Table 5
Non main-track train derailment accidents and incidents by province*

	January to November			Derailments with DG involvement January to November		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
	Canada	613	644	575	98	61
Newfoundland	7	6	7	0	0	0
Nova Scotia	4	5	4	0	1	0
New Brunswick	12	6	10	2	0	3
Quebec	124	88	83	20	12	8
Ontario	130	122	111	15	10	15
Manitoba	72	72	73	14	5	7
Saskatchewan	59	88	66	9	2	7
Alberta	115	137	118	27	20	19
British Columbia	89	120	102	10	11	11
Northwest Territories	1	0	0	1	0	0

* There were no occurrences with dangerous goods release to date in 2019 or in 2018.

Figure 1: Number of non main-track train derailments per month

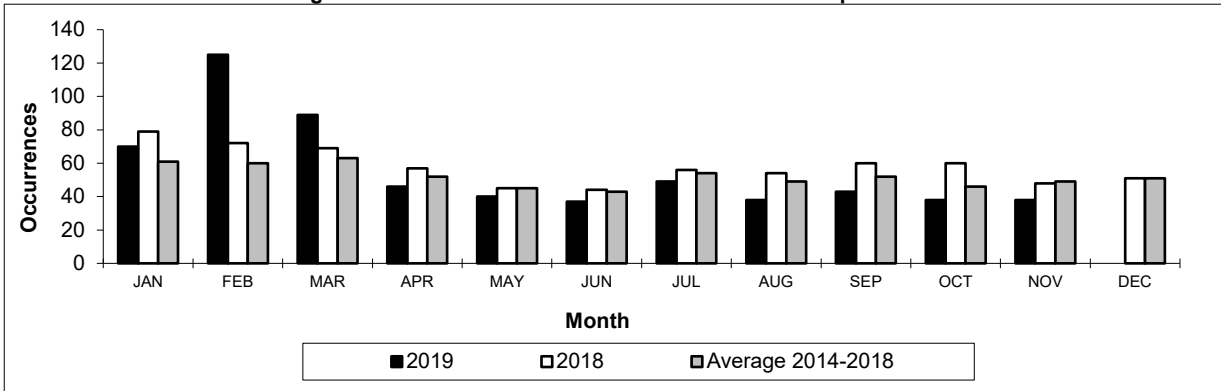
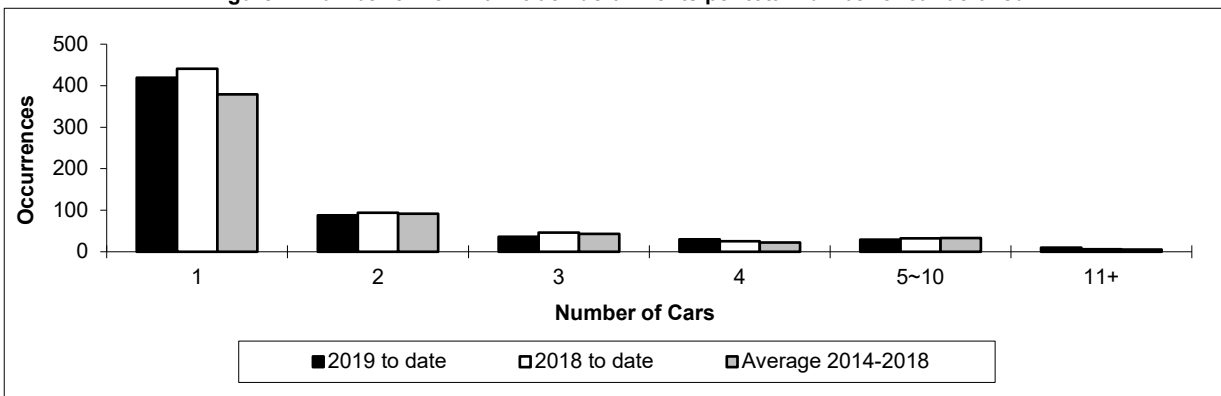


Figure 2: Number of non main-track derailments per total number of car derailed



Data extracted 16 December 2019.

New TSB regulations came into effect on July 1, 2014, changing some reporting requirements.

* Under new reporting requirements all derailments are reportable.