

Table 1
Railway occurrence and casualty

	October			January to October		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Accidents	88	103	87	1094	994	875
Main-track train collisions	1	1	0	4	4	4
Main-track train derailments - 1-2 cars*	2	2	2	49	36	36
Main-track train derailments - 3-5 cars	0	0	1	5	10	8
Main-track train derailments - 6 or more cars	4	1	3	28	36	25
Crossings	15	18	16	149	135	125
Non-main-track train collisions	9	5	6	100	82	76
Non-main-track train derailments - 1-2 cars*	31	46	30	427	415	340
Non-main-track train derailments - 3-5 cars	7	7	6	71	79	69
Non-main-track train derailments - 6 or more cars	0	5	3	25	20	25
Collisions/Derailments involving track units	6	7	4	43	41	32
Employee/Passenger	0	1	2	11	9	11
Trespassers	5	1	5	51	58	57
Fires/Explosions	6	3	4	96	30	29
Other	2	6	5	36	39	36
Incidents	13	18	25	218	232	266
Main-track train derailments - 1-2 cars* (no damage)	0	0	0	2	4	3
Non-main-track train collisions* (no derailment, no damage)	0	0	0	0	1	3
Non-main-track train derailments - 1-2 cars* (no damage)	0	2	6	52	82	92
Dangerous goods leaker**	0	0	1	0	0	19
Main-track switch in abnormal position	1	0	1	15	7	7
Movement exceeds limits of authority	10	15	14	122	110	109
Uncontrolled movement of rolling stock	1	1	1	13	9	9
Others	1	0	2	13	19	23
Million train-miles (a)				73.78	72.62	70.41
Accidents/Million train-miles				14.83	13.69	12.43
Accidents involving dangerous goods	13	8	9	152	100	98
Main-track train derailments	0	0	1	17	16	13
Crossings	0	0	0	6	6	4
Non-main-track train collisions	4	2	2	41	24	24
Non-main-track train derailments	9	5	5	83	49	52
All others	0	1	1	5	5	5
Accidents with a DG release	0	0	1	8	4	4
Accidents involving passenger trains	1	3	4	43	53	45
Accidents involving an uncontrolled movement of rolling	1	3	3	55	42	34
Fatalities	6	4	5	66	44	50
Crossings	3	4	3	26	16	15
Trespassers	3	0	3	35	27	34
All others	0	0	0	5	1	1
Serious Injuries	7	6	4	51	70	52
Crossings	5	5	2	23	30	21
Trespassers	2	1	2	15	26	20
All others	0	0	1	13	14	11

Data extracted 3 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.

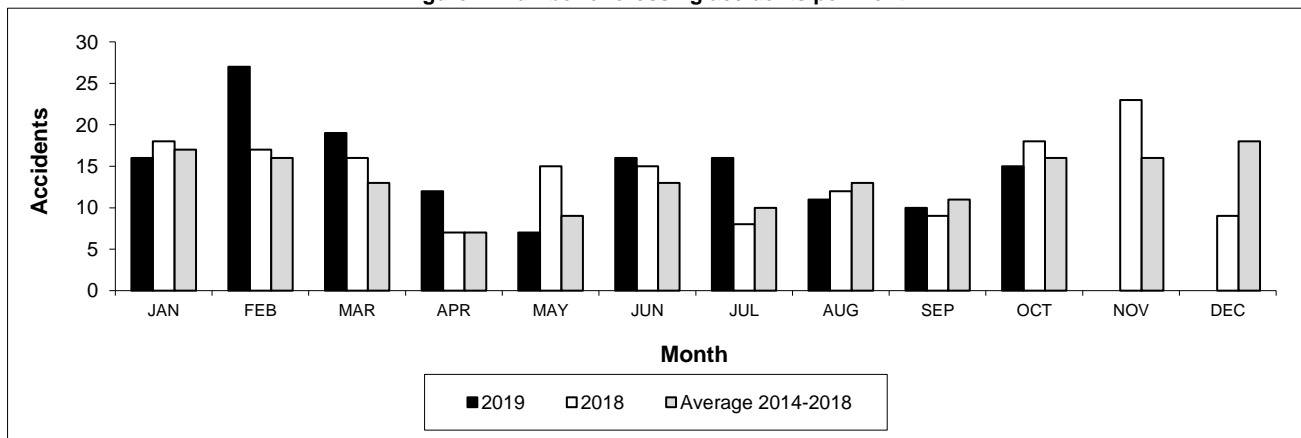
* Under new reporting requirements all derailments are reportable. The TSB has reviewed derailments and collisions back to January 1, 2014 and reclassified occurrences with minimal consequences as reportable incidents including: derailments involving 1 to 2 cars, with no equipment or track damage, no 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				All crossings		Trespasser	
	2019 - Year to date*				Year to date*		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	10	0	9	1	20	17	6	11
Fatalities	1	0	1	0	2	2	4	7
Serious injuries	0	0	1	0	1	7	2	4
Ontario								
Accidents	27	7	7	1	42	35	17	24
Fatalities	6	3	2	0	11	7	14	10
Serious injuries	2	1	0	0	3	7	3	10
Manitoba								
Accidents	6	8	2	1	17	12	2	2
Fatalities	3	1	0	0	4	0	2	1
Serious injuries	0	0	0	0	0	8	0	1
Saskatchewan								
Accidents	12	10	0	0	22	17	3	1
Fatalities	3	1	0	0	4	1	3	0
Serious injuries	4	2	0	0	6	2	0	1
Alberta								
Accidents	12	13	5	0	30	30	14	9
Fatalities	1	1	0	0	2	3	9	3
Serious injuries	4	1	2	0	7	2	4	6
British Columbia								
Accidents	7	2	6	0	15	18	8	11
Fatalities	3	0	0	0	3	3	3	6
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	74	40	32	3	149	135	51	58
Fatalities	17	6	3	0	26	16	35	27
Serious injuries	12	5	6	0	23	30	15	26

Figure 1: Number of crossing accidents per month



Data extracted 3 December 2019.

*Year to date is from January to October.

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 October			Derailments with DG involvement January to October		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Canada	84	86	72	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	10	11	8	3	1	1
Ontario	16	13	15	4	2	4
Manitoba	12	8	6	3	2	1
Saskatchewan	11	15	9	1	3	2
Alberta	17	20	17	4	5	4
British Columbia	17	19	15	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

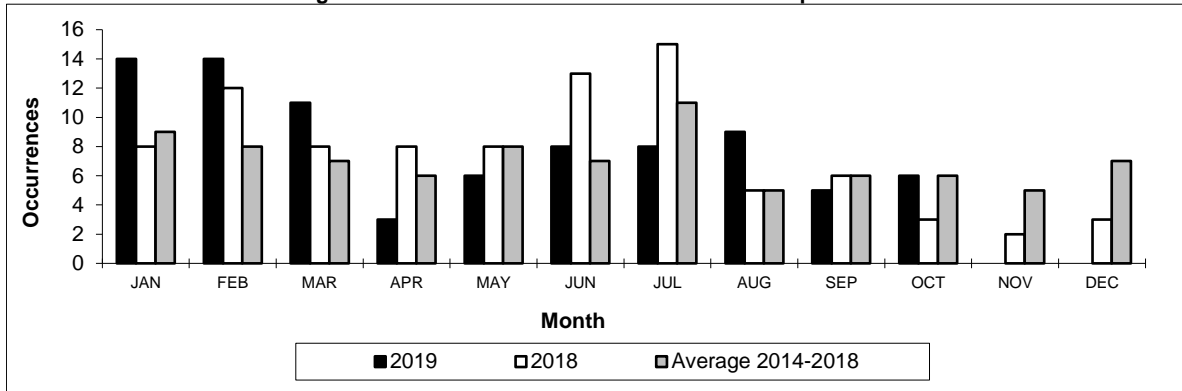
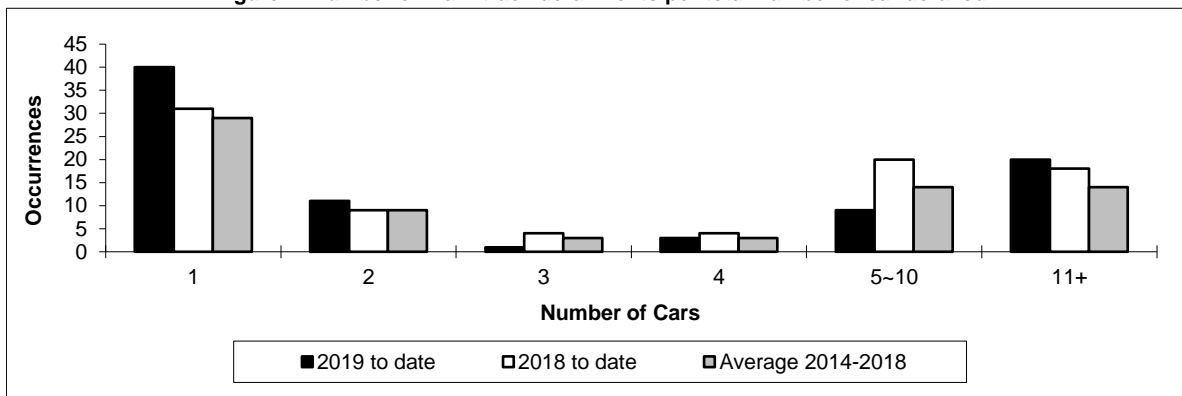


Figure 2: Number of main-track derailments per total number of car derailed



Data extracted 3 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 October			Collisions with DG involvement January to October		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
	Canada	100	83	79	41	24
Newfoundland	0	1	0	0	0	0
Nova Scotia	0	0	0	0	0	0
New Brunswick	0	1	1	0	0	0
Quebec	6	3	7	2	3	2
Ontario	23	18	19	11	5	6
Manitoba	13	5	11	5	2	4
Saskatchewan	11	13	10	4	3	2
Alberta	28	19	15	15	6	6
British Columbia	19	23	16	4	5	4
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

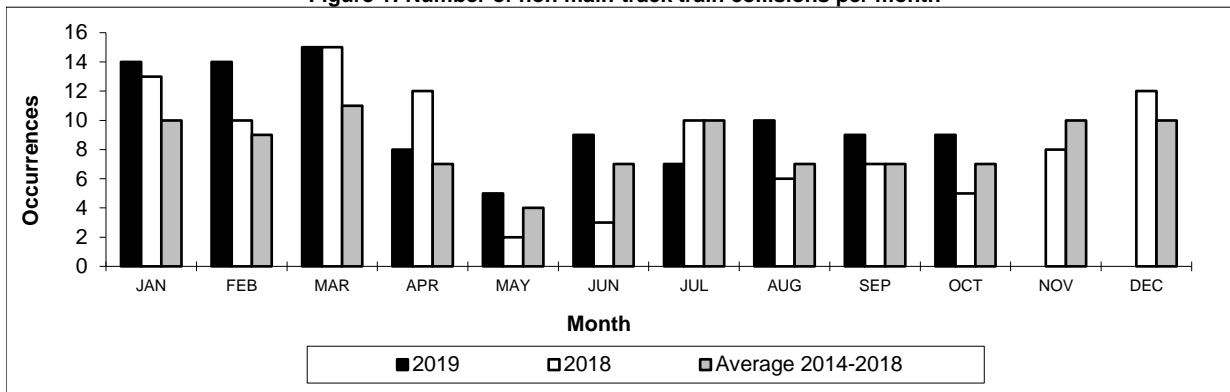
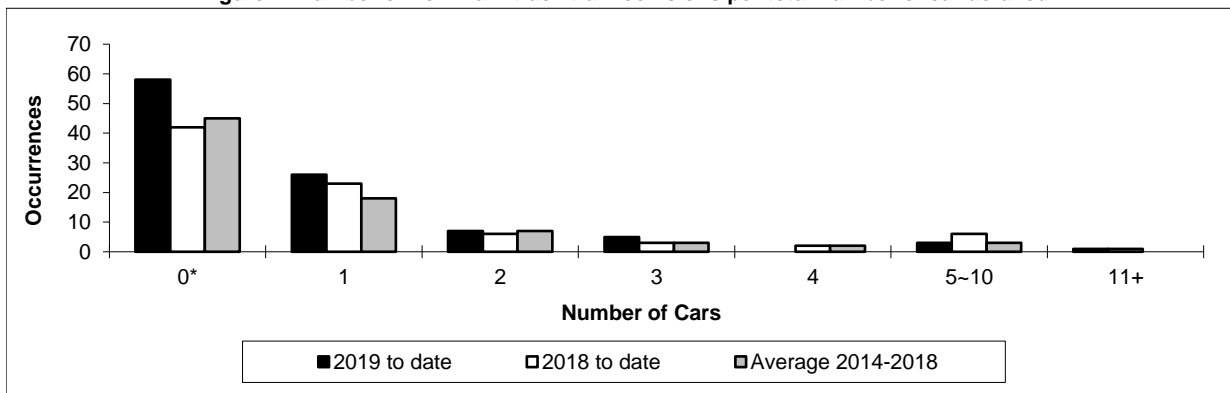


Figure 2: Number of non main-track train collisions per total number of car derailed



Data extracted 3 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 October			Derailments with DG involvement January to October		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
	Canada	575	596	526	93	58
Newfoundland	7	5	6	0	0	0
Nova Scotia	4	4	4	0	1	0
New Brunswick	11	5	9	2	0	3
Quebec	121	82	77	20	12	7
Ontario	113	113	103	11	9	13
Manitoba	69	69	67	14	5	7
Saskatchewan	51	80	60	9	2	6
Alberta	111	125	108	26	18	18
British Columbia	87	113	93	10	11	10
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

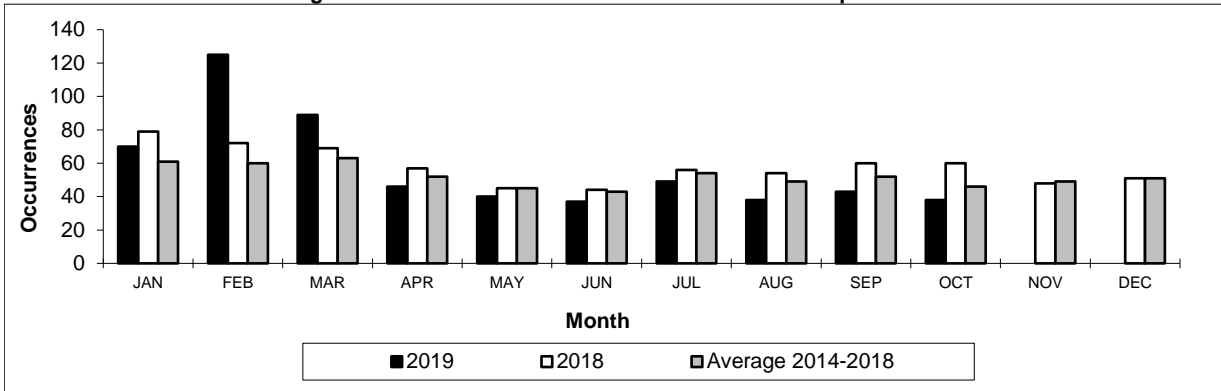
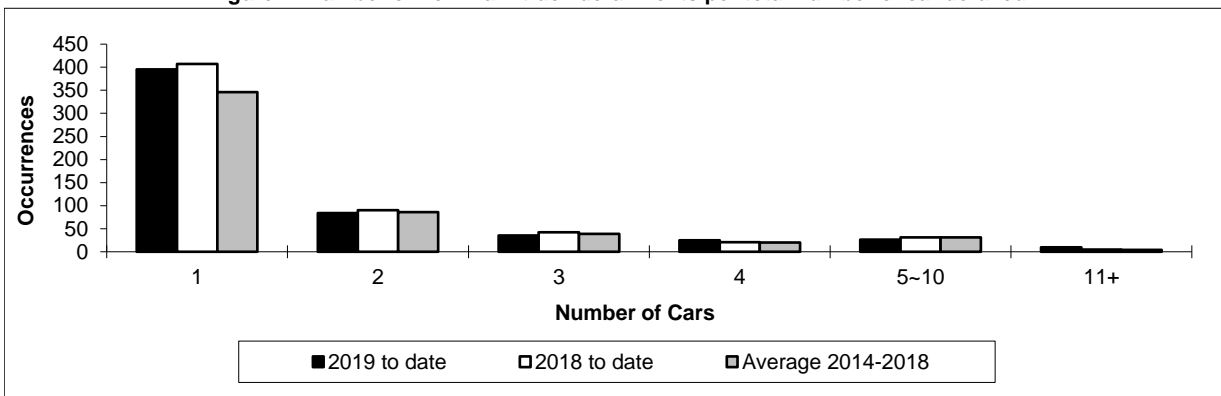


Figure 2: Number of non main-track derailments per total number of car derailed



Data extracted 3 December 2019.

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

* Under new reporting requirements all derailments are reportable.