

Table S12: Marine Occurrences, 2020-2024

	2020	2021	2022	2023	2024	2020-2024 Average
Canadian Vessels						
Accidents	224	180	206	184	177	194.2
Shipping Accidents	187	145	170	159	156	163.4
Abandoned	0	1	0	0	1	0.4
Capsizes	2	4	9	3	8	5.2
Collision	25	13	21	28	21	21.6
Explosion	1	2	0	1	3	1.4
Fire	35	36	31	28	28	31.6
Grounding	43	31	45	42	45	41.2
Missing	1	2	0	1	2	1.2
Sank	21	21	29	16	11	19.6
Striking	47	25	26	23	26	29.4
Sustains Damage Render Unseaworthy/Unfit For Purpose	12	10	9	17	11	11.8
Accident Aboard Ship	37	35	36	25	21	30.8
Fatalities	18	11	9	17	11	13.2
Shipping Accident	14	9	4	9	8	8.8
Accident Aboard Ship	4	2	5	8	3	4.4
Injuries	35	35	34	27	27	31.6
Shipping Accident	2	5	7	6	8	5.6
Accident Aboard Ship	33	30	27	21	19	26
Type of Vessels Involved in Shipping Accidents (by Vessel Category)	187	145	170	159	156	163
Commercial	104	84	98	88	91	93
Barge	14	9	13	5	4	9
Cargo - Liquid	4	3	2	2	1	2.4
Cargo - Solid	27	12	14	16	12	16.2
Ferry	13	14	19	14	15	15
Passenger	6	6	10	5	10	7.4
Survey/Research	1	2	0	3	2	1.6
Service Ship	17	14	22	25	33	22.2
Ships boat	4	5	6	3	3	4.2
Tug	18	16	10	14	11	13.8
Sailing Vessel	0	0	0	0	0	0
Other	0	3	2	1	0	1.2
Fishing	72	48	63	54	62	59.8
Non-commercial	11	13	9	17	3	10.6
Commercial Accident Rate						
Commercial vessel accidents (>15 GT, Canadian, non-fishing, non-passenger)	96	62	82	82	68	78
Million vessel-kms	11.9	12.8	12.7	12.4	12.5	12.5
Accident Rate/million vessel-kms	8.1	4.8	6.5	6.6	5.4	6.3
Vessel transits	59,688	59,282	76,317	75,996	N/A	67820.8
Accident Rate/thousand vessel trips	1.6	1.0	1.1	1.1	N/A	1.2
Vessels Lost	14	13	16	12	15	14
Commercial	1	3	2	2	4	2.4

	2020	2021	2022	2023	2024	2020-2024 Average
Canadian Vessels						
Fishing	13	8	11	10	11	10.6
Non-Commercial		2	3	0	0	1.25
Incident	684	670	752	613	565	656.8
<i>Foreign Vessels</i>						
Accidents	40	41	39	51	32	40.6
Shipping Accident	35	33	31	38	23	32
Accident Aboard Ship	5	8	8	13	9	8.6
Type of Vessels Involved in Shipping Accidents (by Vessel Category)	35	33	31	38	23	32
Commercial	33	30	31	36	22	30.4
Fishing	2	3	0	2	1	1.6
Non-commercial	0	0	0	0	0	0
Fatalities	0	0	0	1	0	0.2
Shipping Accident	0	0	0	1	0	0.2
Accident Aboard Ship	0	0	0	0	0	0
Injuries	6	10	7	12	10	9
Shipping Accident	0	0	0	0	0	0
Accident Aboard Ship	6	10	7	12	10	9
Vessels Lost	0	2	0	0	1	0.6
Incident	241	186	216	179	173	199
<i>Total Marine Occurrences</i>						
Accidents	264	221	245	235	209	235
Shipping Accident	222	178	201	197	179	195
Accident Aboard Ship	42	43	44	38	30	39
Fatalities	18	11	9	18	11	13
Injuries	41	45	41	39	37	41
Vessels Involved in Shipping Accidents	261	202	236	227	201	225
Vessels Lost	14	15	16	13	16	15
Incidents (Mandatory reporting)	925	856	968	792	738	856

Notes and Sources

Notes: R= Revised data. P= Preliminary data. GT = Gross tons.

Transport Canada (TC) adopted an adjusted methodology to generate the summary table above.

As of 2021, category "Type of Vessels Involved in Shipping Accidents (by Vessel Category)" represents the number of occurrences, not the number of vessels involved.

The term "Commercial" includes all the activities in Transportation Safety Board's (TSB's) MARSIS database (under "Primary Activity Category") except "Government - General", "Not Engaged in Commercial Act", "Fishing" and "Unknown."

The term "Fishing" includes "Fishing" and "Unknown" categories in TSB's MARSIS ("Primary Activity Category").

Transits are based on fused terrestrial and satellite Automatic Identification System (AIS) data processed and analyzed by Transport Canada.The number of transits were only counted for the 17 Canadian Port Authorities.

The number of kilometers sailed are based on fused terrestrial and satellite Automatic Identification System (AIS) data processed and analyzed by Transport

Canada. Nautical miles sailed were computed for vessels travelling within the limit of 12 nautical miles (nm) territorial sea and converted to Kilometers using a factor of 1.852. Data is not comparable to previous editions because of changes in sources and concepts.

The Accident Rate is calculated for shipping accidents of Canadian commercial vessels (excluding all fishing, passenger, and pleasure vessels and all vessels under 15 gross tonnage), as vessel activity is captured for these vessel sizes only.

TC's commercial accident rate differs slightly from the TSB's rate due to the capture of passenger vessels data by TC.

As of 2021 only serious injuries are counted.

All definitions can be found in the TSB annual report. <https://www.tsb.gc.ca/eng/stats/marine/2021/ssem-ssmo-2021.html>

When the vessel flag was "unknown", "n/a", or not reported ("blank") it was assumed that the vessel was Canadian.

Source: Transportation Safety Board, Transport Canada, Canadian Coast Guard, Automated Information System (AIS)