

Table 1

Reportable aircraft occurrences

	September			Year to date (September)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Number of reportable accidents	24	24	29	202	175	199
Accidents in Canada involving Canadian-registered aircraft	23	20	27	189	156	185
Accidents outside Canada involving Canadian-registered aircraft	1	2	1	6	10	7
Accidents in Canada involving foreign-registered aircraft	0	2	1	8	10	7
Number of accidents by operator type¹	24	24	29	202	175	199
Commercial	8	8	8	73	57	62
Airliner (CAR 705)	0	2	1	6	7	5
Commuter (CAR 704)	0	0	0	3	0	2
Air taxi (CAR 703)	2	2	3	23	20	22
Aerial work (CAR 702)	2	2	1	19	15	15
Foreign air operator (CAR 701)	0	1	1	1	2	1
Flight training units (CAR 406)	4	1	1	22	12	18
Other commercial	0	0	0	0	1	1
Private	16	15	21	126	118	133
Private operators (CAR 604)	0	1	0	3	4	2
Recreational	16	13	20	117	108	126
Other private	0	1	0	6	7	5
State	0	1	0	1	1	1
Other/Unknown	0	0	0	2	0	3
Number of accidents by aircraft type¹	24	24	29	202	175	199
Aeroplane	16	19	21	153	136	149
Helicopter	2	3	4	26	20	24
Ultralight	6	2	4	19	16	20
Other ²	0	0	1	5	3	6
Number of aircraft involved in accidents^{1,3}	25	25	30	205	180	203
Aeroplanes	17	20	21	155	141	153
Helicopters	2	3	4	26	20	24
Ultralights	6	2	4	19	16	20
Other ²	0	0	1	5	3	6
Number of fatal accidents by aircraft type¹	3	2	4	26	19	18
Aeroplane	3	1	2	22	14	14
Helicopter	0	1	1	2	3	2
Ultralight	0	0	1	2	2	3
Other ²	0	0	0	1	0	0
Reportable accident fatalities	4	2	5	48	33	29
Reportable accident serious injuries	0	3	4	25	26	24
Accidents in Canada involving foreign-registered aircraft	0	2	1	8	10	7
Fatal accidents	0	0	0	3	0	1
Fatalities	0	0	0	4	0	3
Serious Injuries	0	0	0	1	4	1
Occurrences with a dangerous good release	1	0	0	5	7	5
Number of reportable incidents⁴	68	67	65	684	656	620
Incidents in Canada involving Canadian-registered aircraft	54	55	51	496	469	475
Incidents outside Canada involving Canadian-registered aircraft	7	7	8	135	120	80
Incidents in Canada involving foreign-registered aircraft	10	5	9	82	85	84
Number of reportable incidents by category⁴	68	67	65	684	656	620
Risk of collision / Loss of separation	13	14	12	104	115	103
Declared emergency	30	22	24	276	250	242
Engine failure	7	9	10	78	77	78
Smoke / Fire	8	9	8	65	73	67
Collision	3	4	2	27	18	13
Other	7	9	9	134	123	116

Data extracted 16 October 2019

¹ Breakdowns may not add up to totals. For example, when an occurrence involves an airplane and a helicopter, the occurrence is counted in each type, but only once in the total.

² Includes balloons, gyroplanes, gliders, airships, hang gliders, unmanned aerial vehicles (UAV) and similar aircraft types.

³ "Number of aircraft involved in accidents" are aircraft counts, all other data are accident counts.

⁴ New TSB regulations came into effect on 1 July 2014. Under new reporting requirements aviation incidents include: a) aircraft having a maximum certificated take-off weight greater than 2 250 kg (formerly 5 700 kg); b) aircraft being operated under an air operator certificate issued under CARs Part VII.

Table 2

Occurrences involving Canadian-registered aircraft

	September			Year to date (September)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Number of accidents by aircraft and operator type	18	20	24	176	150	172
Aeroplane accidents	16	17	20	147	127	143
Commercial	6	5	5	58	42	44
Airliner (CAR 705)	0	2	1	6	7	5
Commuter (CAR 704)	0	0	0	3	0	2
Air taxi (CAR 703)	1	2	2	18	16	13
Aerial work (CAR 702)	1	0	0	9	6	8
Flight training units (CAR 406)	4	1	1	22	12	16
Other commercial	0	0	0	0	1	0
Private	10	11	14	86	85	97
Private operators (CAR 604)	0	1	0	2	4	2
Recreational	10	9	14	81	79	93
Other private	0	1	0	3	2	3
State	0	1	0	1	1	1
Other/Unknown	0	0	0	2	0	1
Helicopter accidents	2	3	4	25	20	23
Commercial	2	2	3	15	13	17
Private	0	1	1	10	7	6
State	0	0	0	0	0	0
Other/Unknown	0	0	0	0	0	0
Other aircraft accidents ³	0	0	1	5	3	6
Number of fatal accidents by aircraft and operator type^{1,2}	3	2	3	21	17	15
Aeroplane accidents	3	1	2	19	14	13
Commercial	1	0	0	6	4	3
Airliner (CAR 705)	0	0	0	0	0	0
Commuter (CAR 704)	0	0	0	0	0	0
Air taxi (CAR 703)	0	0	0	4	2	1
Aerial work (CAR 702)	0	0	0	0	2	1
Flight training units (CAR 406)	1	0	0	2	0	1
Other commercial	0	0	0	0	0	0
Private	2	1	2	13	10	10
Private operators (CAR 604)	0	0	0	0	0	0
Recreational	2	1	2	13	10	9
Other private	0	0	0	0	0	0
State	0	0	0	0	0	0
Other/Unknown	0	0	0	0	0	0
Helicopter accidents	0	1	1	2	3	2
Commercial	0	1	1	0	1	1
Private	0	0	0	2	2	1
State	0	0	0	0	0	0
Other/Unknown	0	0	0	0	0	0
Other aircraft accidents ³	0	0	0	1	0	0
Accident fatalities²	4	2	4	40	31	24
Accident serious injuries²	0	3	4	20	20	19
Number of incidents by category^{2,4}	61	62	58	631	589	555
Risk of collision/Loss of separation	12	13	11	98	110	94
Declared emergency	25	20	21	245	220	212
Engine failure	7	8	9	72	67	71
Smoke/Fire	7	8	7	59	62	59
Collision	3	4	2	25	14	12
Other	7	9	8	132	116	106
Number of accidents involving ultralight aircraft	6	2	4	19	16	20
Fatal accidents	0	0	1	2	2	2
Fatalities	0	0	1	4	2	2
Serious injuries	0	0	0	4	2	4

Data extracted 16 October 2019

¹ Breakdowns may not add up to totals. For example, when an occurrence involves an airplane and a helicopter, the occurrence is counted in each type, but only once in the total.

² Excludes ultralight aircraft

³ Includes balloons, gyroplanes, gliders, airships, hang gliders, unmanned aerial vehicles (UAV) and similar aircraft types.

⁴ New TSB regulations came into effect on 1 July 2014. Under new reporting requirements aviation incidents include: a) aircraft having a maximum certificated take-off weight greater than 2 250 kg (formerly 5 700 kg); b) aircraft being operated under an air operator certificate issued under CARs Part VII.

Table 3

Accidents involving Canadian-registered fixed-wing and rotary-wing aircraft by type of operation

	September			Year to date (September)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Number of accidents by operation type	18	20	23	172	147	166
Aeroplane accidents	16	17	20	147	127	143
Training	5	0	1	25	12	18
Pleasure/Travel	8	11	14	73	74	86
Business	0	0	0	3	6	3
Forest fire management	0	1	0	2	1	1
Test/Demonstration/Ferry	1	0	0	3	1	2
Aerial application	1	1	0	6	5	5
Inspection	0	0	0	0	0	0
Air transport	1	3	3	24	23	18
Air ambulance	0	1	0	1	1	1
Sightseeing	0	0	0	2	1	1
Other/Unknown	0	0	0	8	4	7
Helicopter accidents	2	3	4	25	20	23
Training	0	0	0	1	0	2
Pleasure/Travel	0	1	1	8	5	6
Business	0	0	0	1	1	0
Forest fire management	0	0	0	1	2	1
Test/Demonstration/Ferry	0	1	0	0	1	0
Aerial application	0	0	0	4	1	2
Inspection	0	1	0	0	1	1
Air transport	2	0	1	8	3	6
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	0	0
Other/Unknown	0	0	0	2	6	4
Number of fatal accidents by operation type	3	2	3	21	17	15
Training	1	0	0	1	0	1
Pleasure/Travel	2	1	2	13	12	9
Business	0	0	0	1	0	0
Forest fire management	0	0	0	0	0	0
Test/Demonstration/Ferry	0	1	0	1	1	0
Aerial application	0	0	0	0	1	1
Inspection	0	0	0	0	0	0
Air transport	0	0	0	4	2	2
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	0	0
Other/Unknown	0	0	0	1	1	1
Fatalities	4	2	4	40	31	23
Serious injuries	0	3	4	20	20	19

Data extracted 16 October 2019

Reportable accidents and incidents are reported in accordance with the TSB's regulations for mandatory reporting of occurrences.

Breakdowns may not add up to totals. For example, in the total "Number of accidents by operation type", when an occurrence involves an airplane and a helicopter, the occurrence is counted in each category, but only once in the total.

Canadian-registered aircraft, excluding ultralights, balloons, gyroplanes, gliders, dirigibles, hang gliders and similar aircraft types

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