

Table 1

Reportable aircraft occurrences

	October			Year to date (October)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Number of reportable accidents	10	11	17	213	186	215
Accidents in Canada involving Canadian-registered aircraft	10	11	15	200	167	200
Accidents outside Canada involving Canadian-registered aircraft	0	0	1	6	10	8
Accidents in Canada involving foreign-registered aircraft	0	0	0	8	10	8
Number of accidents by operator type¹	10	11	17	213	186	215
Commercial	5	2	5	79	59	67
Airline (CAR 705)	0	0	0	6	7	5
Commuter (CAR 704)	0	0	0	3	0	2
Air taxi (CAR 703)	2	2	2	26	22	24
Aerial work (CAR 702)	1	0	1	20	15	16
Foreign air operator (CAR 701)	0	0	0	1	2	1
Flight training units (CAR 406)	2	0	1	24	12	19
Other commercial	0	0	0	0	1	1
Private	5	9	11	132	127	145
Private operators (CAR 604)	0	0	1	3	4	3
Recreational	5	9	11	123	117	137
Other private	0	0	0	6	7	6
State	0	0	0	1	1	1
Other/Unknown	0	0	0	1	0	3
Number of accidents by aircraft type¹	10	11	17	213	186	215
Aeroplane	9	6	11	163	142	161
Helicopter	0	2	3	26	22	26
Ultralight	1	2	2	20	18	22
Other ²	0	1	1	5	4	7
Number of aircraft involved in accidents^{1,3}	10	11	17	216	191	220
Aeroplanes	9	6	11	165	147	165
Helicopters	0	2	3	26	22	26
Ultralights	1	2	2	20	18	22
Other ²	0	1	1	5	4	7
Number of fatal accidents by aircraft type¹	0	1	2	28	20	21
Aeroplane	0	1	2	23	15	16
Helicopter	0	0	1	3	3	2
Ultralight	0	0	0	2	2	3
Other ²	0	0	0	1	0	0
Reportable accident fatalities	0	1	4	53	34	33
Reportable accident serious injuries	0	1	2	30	27	26
Accidents in Canada involving foreign-registered aircraft	0	0	0	8	10	8
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	2	0	0	7	7	5
Number of reportable incidents⁴	61	71	70	751	727	690
Incidents in Canada involving Canadian-registered aircraft	44	44	52	543	513	527
Incidents outside Canada involving Canadian-registered aircraft	11	15	11	149	135	91
Incidents in Canada involving foreign-registered aircraft	7	14	8	89	99	93
Number of reportable incidents by category⁴	61	71	70	751	727	690
Risk of collision / Loss of separation	5	10	10	111	125	113
Declared emergency	25	34	28	301	284	270
Engine failure	6	8	10	85	85	89
Smoke / Fire	10	7	8	76	80	75
Collision	1	3	2	29	21	15
Other	14	9	12	149	132	128

Data extracted 18 November 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

	October		2014-2018 average	Year to date (October)		
	2019	2018		2019	2018	2014-2018 average
Number of accidents by aircraft and operator type	9	9	14	186	159	186
Aeroplane accidents	9	6	11	157	133	154
Commercial	4	1	3	63	43	47
Airliner (CAR 705)	0	0	0	6	7	5
Commuter (CAR 704)	0	0	0	3	0	2
Air taxi (CAR 703)	2	1	1	21	17	14
Aerial work (CAR 702)	1	0	0	10	6	9
Flight training units (CAR 406)	1	0	1	23	12	17
Other commercial	0	0	0	0	1	0
Private	5	5	8	92	90	105
Private operators (CAR 604)	0	0	1	2	4	2
Recreational	5	5	7	87	84	100
Other private	0	0	0	3	2	3
State	0	0	0	1	1	1
Other/Unknown	0	0	0	1	0	1
Helicopter accidents	0	2	3	25	22	26
Commercial	0	1	2	15	14	18
Private	0	1	1	10	8	7
State	0	0	0	0	0	0
Other/Unknown	0	0	0	0	0	0
Other aircraft accidents ³	0	1	1	5	4	7
Number of fatal accidents by aircraft and operator type^{1,2}	0	1	2	23	18	17
Aeroplane accidents	0	1	2	20	15	15
Commercial	0	0	1	6	4	4
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	5	2	1
Aerial work (CAR 702)	0	0	0	0	2	2
Flight training units (CAR 406)	0	0	0	1	0	1
Other commercial	0	0	0	0	0	0
Private	0	1	1	14	11	11
Private operators (CAR 604)	0	0	0	0	0	0
Recreational	0	1	1	14	11	10
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	0	1	3	3	2
Commercial	0	0	0	1	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	0	1	4	45	32	27
Accident serious injuries²	0	0	2	25	20	21
Number of incidents by category^{2,4}	55	59	63	692	648	618
Risk of collision/Loss of separation	5	10	10	105	120	104
Declared emergency	20	28	25	265	248	237
Engine failure	6	6	9	79	73	80
Smoke/Fire	9	4	7	69	66	66
Collision	1	2	2	27	16	14
Other	14	9	11	147	125	117
Number of accidents involving ultralight aircraft	1	2	2	20	18	22
Fatal accidents	0	0	0	2	2	2
Fatalities	0	0	0	4	2	2
Serious injuries	0	1	0	4	3	4

Data extracted 18 November 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 aircraft³ 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

	October			Year to date (October)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Number of accidents by operation type	9	8	13	182	155	180
Aeroplane accidents	9	6	11	157	133	154
Training	1	1	1	27	13	19
Pleasure/Travel	3	3	7	76	77	93
Business	1	0	0	4	6	4
Forest fire management	0	0	0	2	1	1
Test/Demonstration/Ferry	0	0	0	3	1	3
Aerial application	0	0	0	6	5	5
Inspection	0	0	0	0	0	0
Air transport	2	0	1	27	23	20
Air ambulance	0	0	0	1	1	1
Sightseeing	0	0	0	2	1	1
Other/Unknown	2	2	1	9	6	8
Helicopter accidents	0	2	3	25	22	26
Training	0	0	1	1	0	3
Pleasure/Travel	0	1	1	8	6	7
Business	0	0	0	1	1	0
Forest fire management	0	0	0	1	2	1
Test/Demonstration/Ferry	0	0	0	0	1	0
Aerial application	0	0	0	3	1	2
Inspection	0	0	0	0	1	1
Air transport	0	0	1	9	3	7
Air ambulance	0	0	0	0	0	0
Sightseeing	0	1	0	0	1	1
Other/Unknown	0	0	0	2	6	5
Number of fatal accidents by operation type	0	1	2	23	18	17
Training	0	0	1	1	0	1
Pleasure/Travel	0	0	1	13	12	10
Business	0	0	0	1	0	1
Forest fire management	0	0	0	0	0	0
Test/Demonstration/Ferry	0	0	0	1	1	0
Aerial application	0	0	0	0	1	1
Inspection	0	0	0	0	0	0
Air transport	0	0	0	6	2	2
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	0	0
Other/Unknown	0	1	0	1	2	2
Fatalities	0	1	4	45	32	27
Serious injuries	0	0	2	25	20	21

Data extracted 18 November 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.