

Table 1

Reportable aircraft occurrences

	August			Year to date (August)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Number of reportable accidents	35	23	29	178	151	170
Accidents in Canada involving Canadian-registered aircraft	35	22	28	166	136	158
Accidents outside Canada involving Canadian-registered aircraft	0	0	0	5	8	6
Accidents in Canada involving foreign-registered aircraft	1	1	1	8	8	6
Number of accidents by operator type¹	35	23	29	178	151	170
Commercial	10	8	7	65	49	54
Airliner (CAR 705)	1	1	0	6	5	3
Commuter (CAR 704)	0	0	0	3	0	2
Air taxi (CAR 703)	6	4	3	21	18	19
Aerial work (CAR 702)	2	2	2	17	13	13
Foreign air operator (CAR 701)	1	0	0	1	1	0
Flight training units (CAR 406)	1	1	2	18	11	17
Other commercial	0	0	0	0	1	1
Private	24	15	21	110	103	113
Private operators (CAR 604)	0	0	0	3	3	2
Recreational	21	13	19	101	95	106
Other private	3	2	1	6	6	5
State	1	0	0	1	0	1
Other/Unknown	0	0	1	2	0	3
Number of accidents by aircraft type¹	35	23	29	178	151	170
Aeroplane	27	18	21	137	117	129
Helicopter	4	3	3	24	17	20
Ultralight	3	2	4	13	14	16
Other ²	1	0	2	5	3	5
Number of aircraft involved in accidents^{1,3}	36	23	29	180	155	173
Aeroplanes	28	18	21	138	121	132
Helicopters	4	3	3	24	17	20
Ultralights	3	2	4	13	14	16
Other ²	1	0	2	5	3	5
Number of fatal accidents by aircraft type¹	4	4	3	22	17	15
Aeroplane	4	4	3	19	13	12
Helicopter	0	0	0	1	2	1
Ultralight	0	0	0	2	2	2
Other ²	0	0	0	1	0	0
Reportable accident fatalities	5	8	6	42	31	24
Reportable accident serious injuries	8	6	4	25	23	19
Accidents in Canada involving foreign-registered aircraft	1	1	1	8	8	6
Fatal accidents	0	0	0	3	0	1
Fatalities	0	0	1	4	0	3
Serious Injuries	0	2	0	1	4	1
Occurrences with a dangerous good release	1	2	2	4	7	5
Number of reportable incidents⁴	84	91	79	609	589	555
Incidents in Canada involving Canadian-registered aircraft	65	63	60	437	414	424
Incidents outside Canada involving Canadian-registered aircraft	17	18	11	126	113	72
Incidents in Canada involving foreign-registered aircraft	8	14	12	72	80	76
Number of reportable incidents by category⁴	84	91	79	609	589	555
Risk of collision / Loss of separation	15	19	16	91	101	91
Declared emergency	40	30	28	243	228	218
Engine failure	6	9	9	71	68	68
Smoke / Fire	4	14	9	57	64	60
Collision	1	3	2	24	14	11
Other	18	16	15	123	114	107

Data extracted 16 September 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

	August			Year to date (August)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Number of accidents by aircraft and operator type	32	20	24	158	130	148
Aeroplane accidents	27	17	20	131	110	123
Commercial	7	6	6	52	37	39
Airliner (CAR 705)	1	1	0	6	5	3
Commuter (CAR 704)	0	0	0	3	0	2
Air taxi (CAR 703)	5	3	2	17	14	11
Aerial work (CAR 702)	0	1	2	8	6	8
Flight training units (CAR 406)	1	1	2	18	11	15
Other commercial	0	0	0	0	1	0
Private	19	11	14	76	74	83
Private operators (CAR 604)	0	0	0	2	3	1
Recreational	17	10	13	71	70	79
Other private	2	1	1	3	1	3
State	1	0	0	1	0	1
Other/Unknown	0	0	0	2	0	1
Helicopter accidents	4	3	3	23	17	19
Commercial	3	2	2	13	11	14
Private	1	1	1	10	6	5
State	0	0	0	0	0	0
Other/Unknown	0	0	0	0	0	0
Other aircraft accidents ³	1	0	2	5	3	5
Number of fatal accidents by aircraft and operator type^{1,2}	4	4	3	17	15	12
Aeroplane accidents	4	4	3	16	13	11
Commercial	1	3	1	5	4	3
Airliner (CAR 705)	0	0	0	0	0	0
Commuter (CAR 704)	0	0	0	0	0	0
Air taxi (CAR 703)	1	2	1	4	2	1
Aerial work (CAR 702)	0	1	0	0	2	1
Flight training units (CAR 406)	0	0	0	1	0	1
Other commercial	0	0	0	0	0	0
Private	3	1	1	11	9	8
Private operators (CAR 604)	0	0	0	0	0	0
Recreational	3	1	1	11	9	8
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	0	1	2	1
Commercial	0	0	0	0	0	0
Private	0	0	0	1	2	0
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	5	8	5	34	29	20
Accident serious injuries²	8	4	3	20	17	15
Number of incidents by category^{2,4}	82	81	71	563	527	496
Risk of collision/Loss of separation	14	18	15	86	97	83
Declared emergency	39	26	24	217	200	192
Engine failure	6	8	8	65	59	62
Smoke/Fire	4	10	6	52	54	52
Collision	1	3	2	22	10	10
Other	18	16	15	121	107	98
Number of accidents involving ultralight aircraft	3	2	4	13	14	16
Fatal accidents	0	0	0	2	2	2
Fatalities	0	0	0	4	2	2
Serious injuries	0	0	0	4	2	3

Data extracted 16 September 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

	August			Year to date (August)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
Number of accidents by operation type	31	20	23	154	127	143
Aeroplane accidents	27	17	20	131	110	123
Training	0	1	2	20	12	17
Pleasure/Travel	15	10	13	65	63	72
Business	0	1	0	3	6	3
Forest fire management	1	0	0	2	0	1
Test/Demonstration/Ferry	2	0	1	2	1	2
Aerial application	0	0	1	5	4	5
Inspection	0	0	0	0	0	0
Air transport	5	4	2	23	20	15
Air ambulance	0	0	0	1	0	0
Sightseeing	2	0	0	2	1	1
Other/Unknown	2	1	1	8	4	7
Helicopter accidents	4	3	3	23	17	19
Training	0	0	0	1	0	2
Pleasure/Travel	1	1	1	8	4	5
Business	0	0	0	1	1	0
Forest fire management	0	0	0	1	2	1
Test/Demonstration/Ferry	0	0	0	0	0	0
Aerial application	2	0	0	4	1	1
Inspection	0	0	0	0	0	0
Air transport	1	1	1	6	3	5
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	0	0
Other/Unknown	0	1	0	2	6	4
Number of fatal accidents by operation type	4	4	3	17	15	12
Training	0	0	0	0	0	1
Pleasure/Travel	2	1	1	10	11	7
Business	0	0	0	1	0	0
Forest fire management	0	0	0	0	0	0
Test/Demonstration/Ferry	1	0	0	1	0	0
Aerial application	0	0	0	0	1	1
Inspection	0	0	0	0	0	0
Air transport	1	2	1	4	2	1
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	0	0
Other/Unknown	0	1	0	1	1	1
Fatalities	5	8	5	34	29	19
Serious injuries	8	4	3	20	17	14

Data extracted 16 September 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.