

Table 1

Reportable aircraft occurrences

	September			Year to date (September)		
	2017	2016	2012-2016 average	2017	2016	2012-2016 average
Number of reportable accidents	25	28	33	197	190	220
Accidents in Canada involving Canadian-registered aircraft	23	27	31	184	176	206
Accidents outside Canada involving Canadian-registered aircraft	1	0	1	8	6	5
Accidents in Canada involving foreign-registered aircraft	1	1	1	5	8	10
Number of accidents by operator type	25	28	33	197	190	220
Commercial	7	4	8	76	44	65
Airliner (705)	2	0	1	6	0	4
Commuter (704)	0	0	0	4	2	2
Air taxi (703)	2	1	3	22	19	25
Aerial work (702)	1	2	2	16	10	17
Foreign/Other (a)	3	1	1	29	14	18
State	0	0	0	0	0	2
Corporate	0	0	0	0	0	2
Private/Other (b)	18	24	24	121	146	152
Number of accidents by aircraft type	25	28	33	197	190	220
Aeroplane	20	18	23	145	145	163
Helicopter	2	5	4	23	20	27
Ultralight	2	3	4	21	19	23
Other (c)	1	2	1	8	6	8
Number of aircraft involved in accidents*	26	28	34	202	193	224
Aeroplanes	21	18	24	150	148	165
Helicopters	2	5	4	23	20	27
Ultralights	2	3	4	21	19	23
Others (c)	1	2	1	8	6	8
Number of fatal accidents by aircraft type	3	8	4	15	24	24
Aeroplane	3	3	2	13	17	16
Helicopter	0	2	1	0	2	3
Ultralight	0	2	1	1	4	4
Other (c)	0	1	0	1	1	1
Reportable accident fatalities	4	10	5	22	34	38
Reportable accident serious injuries	3	5	5	22	11	25
Accidents in Canada involving foreign-registered aircraft	1	1	1	5	8	10
Fatal accidents	0	0	0	0	1	2
Fatalities	0	0	0	0	7	3
Serious Injuries	0	0	0	0	0	1
Occurrences with a dangerous good release	0	2	1	6	5	3
Number of reportable incidents**	66	66	58	693	599	544
Incidents in Canada involving Canadian-registered aircraft	45	52	46	508	452	428
Incidents outside Canada involving Canadian-registered aircraft	17	6	5	130	75	45
Incidents in Canada involving foreign-registered aircraft	7	12	10	84	89	88
Number of reportable incidents by type	66	66	58	693	599	544
Risk of collision/Loss of separation	14	10	9	135	100	86
Declared emergency	24	27	23	258	233	221
Engine failure	10	10	9	75	77	72
Smoke/Fire	5	6	7	68	67	59
Collision	2	2	1	19	11	9
Other	11	11	9	138	111	98

Data extracted October 17, 2017

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 aircraft type", when an occurrence involves an airplane and a helicopter, the occurrence is counted in each category, but only once in the total.

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

a. The commercial service type is not available for foreign-registered aircraft.

b. Other: contains, but is not limited to, organizations that rent aircraft (i.e., flying schools, flying clubs, etc.).

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

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

**Under new reporting requirements aviation incidents include: a) aircraft having a maximum certificated take-off weight greater than 2 250 kg (formerly 5700 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)		
	2017	2016	2012-2016 average	2017	2016	2012-2016 average
Number of accidents by aircraft and operator type	22	24	28	171	163	188
Aeroplane accidents	19	17	22	140	138	155
Commercial	5	1	5	57	31	43
Airliner (705)	2	0	1	6	0	4
Commuter (704)	0	0	0	4	2	2
Air taxi (703)	1	0	2	13	11	13
Aerial work (702)	1	0	1	12	6	9
Other	1	1	1	22	13	15
State	0	0	0	0	0	1
Corporate	0	0	0	0	0	1
Private/Other (a)	14	16	17	83	107	110
Helicopter accidents	2	5	4	23	19	26
Commercial	1	3	3	17	11	20
State	0	0	0	0	0	1
Corporate	0	0	0	0	0	0
Private/Other (a)	1	2	1	6	8	6
Other aircraft accidents (b)	1	2	1	8	6	8
Number of fatal accidents by aircraft and operator type	3	6	3	14	19	19
Aeroplane accidents	3	3	1	13	16	15
Commercial	0	0	0	5	2	3
Airliner (705)	0	0	0	0	0	0
Commuter (704)	0	0	0	0	0	0
Air taxi (703)	0	0	0	1	1	2
Aerial work (702)	0	0	0	2	1	1
Other	0	0	0	2	0	0
State	0	0	0	0	0	0
Corporate	0	0	0	0	0	0
Private/Other	3	3	1	8	14	11
Helicopter accidents	0	2	1	0	2	3
Other aircraft accidents (b)	0	1	0	1	1	1
Accident fatalities	4	8	4	21	23	31
Accident serious injuries	2	5	5	16	10	20
Number of incidents by type*	62	58	51	638	527	473
Risk of collision/Loss of separation	12	10	9	123	88	78
Declared emergency	23	21	19	237	199	183
Engine failure	10	10	8	70	71	65
Smoke/Fire	5	5	6	63	59	50
Collision	1	2	1	18	11	8
Other	11	10	8	127	99	89
Number of accidents involving ultralight aircraft	2	3	4	21	19	23
Fatal accidents	0	2	1	1	4	4
Fatalities	0	2	1	1	4	4
Serious injuries	1	0	0	6	1	4

Data extracted October 17, 2017

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a. Other: contains, but is not limited to, organizations that rent aircraft (i.e., flying schools, flying clubs, etc.).

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

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Table 3

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

	September			Year to date (September)		
	2017	2016	2012-2016 average	2017	2016	2012-2016 average
Number of accidents by operation type	21	22	27	163	157	181
Aeroplane accidents	19	17	22	140	138	155
Training	2	1	1	25	17	19
Pleasure/Travel	11	16	15	73	94	97
Business	0	0	0	1	2	3
Forest fire management	0	0	0	0	1	2
Test/Demonstration/Ferry	1	0	0	3	2	2
Aerial application	1	0	0	6	6	5
Inspection	0	0	0	1	0	0
Air transport	3	0	4	21	10	17
Air ambulance	0	0	0	0	1	1
Sightseeing	0	0	0	1	0	2
Other/Unknown	1	0	1	9	6	8
Helicopter accidents	2	5	4	23	19	26
Training	0	0	0	4	1	2
Pleasure/Travel	1	2	1	4	8	5
Business	0	0	0	0	0	1
Forest fire management	0	0	0	2	0	1
Test/Demonstration/Ferry	0	0	0	0	0	0
Aerial application	0	0	0	3	1	2
Inspection	0	0	0	0	0	1
Air transport	1	1	2	3	4	8
Air ambulance	0	0	0	1	0	0
Sightseeing	0	0	0	1	0	0
Other/Unknown	0	2	1	5	5	5
Number of fatal accidents by operation type	3	5	3	13	18	18
Training	0	0	0	2	0	1
Pleasure/Travel	2	4	1	6	13	10
Business	0	0	0	0	0	1
Forest fire management	0	0	0	0	0	0
Test/Demonstration/Ferry	0	0	0	0	1	0
Aerial application	0	0	0	1	2	1
Inspection	0	0	0	0	0	0
Air transport	0	0	0	1	1	3
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	0	0
Other/Unknown	1	1	1	3	1	2
Fatalities	4	7	4	20	22	30
Serious injuries	2	5	5	16	9	19

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

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