

Table 1

Reportable aircraft occurrences

	July			Year to date (July)		
	2017	2016	2012-2016 average	2017	2016	2012-2016 average
Number of reportable accidents	40	32	38	138	138	152
Accidents in Canada involving Canadian-registered aircraft	39	30	36	129	125	142
Accidents outside Canada involving Canadian-registered aircraft	1	1	1	6	6	4
Accidents in Canada involving foreign-registered aircraft	0	1	1	3	7	6
Number of accidents by operator type	40	32	38	138	138	152
Commercial	13	7	12	58	36	48
Airliner (705)	1	0	0	3	0	3
Commuter (704)	1	1	0	4	2	2
Air taxi (703)	4	2	4	18	16	19
Aerial work (702)	5	4	5	11	8	11
Foreign/Other (a)	2	0	3	22	11	14
State	0	0	0	0	0	2
Corporate	0	0	0	0	0	1
Private/Other (b)	27	25	26	80	102	102
Number of accidents by aircraft type	40	32	38	138	138	152
Aeroplane	31	26	27	102	112	114
Helicopter	3	2	5	15	12	19
Ultralight	4	3	5	18	10	14
Other (c)	2	1	2	3	4	5
Number of aircraft involved in accidents*	40	32	38	142	140	154
Aeroplanes	31	26	27	106	114	115
Helicopters	3	2	5	15	12	19
Ultralights	4	3	5	18	10	14
Others (c)	2	1	2	3	4	5
Number of fatal accidents by aircraft type	1	5	4	10	12	15
Aeroplane	0	5	3	8	12	10
Helicopter	0	0	1	0	0	2
Ultralight	0	0	1	1	0	2
Other (c)	1	0	0	1	0	1
Reportable accident fatalities	1	6	5	15	20	25
Reportable accident serious injuries	5	0	5	16	5	16
Accidents in Canada involving foreign-registered aircraft	0	1	1	3	7	6
Fatal accidents	0	0	0	0	1	1
Fatalities	0	0	0	0	7	2
Serious Injuries	0	0	0	0	0	0
Occurrences with a dangerous good release	1	1	0	3	3	2
Number of reportable incidents**	86	105	74	545	453	415
Incidents in Canada involving Canadian-registered aircraft	65	83	61	406	338	326
Incidents outside Canada involving Canadian-registered aircraft	18	15	7	95	59	35
Incidents in Canada involving foreign-registered aircraft	8	10	8	65	67	65
Number of reportable incidents by type	86	105	74	545	453	415
Risk of collision/Loss of separation	17	25	11	105	72	62
Declared emergency	27	38	28	201	179	173
Engine failure	12	13	11	60	59	55
Smoke/Fire	8	9	7	57	50	45
Collision	3	5	2	13	7	6
Other	19	15	14	109	86	75

Data extracted August 15, 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

	July			Year to date (July)		
	2017	2016	2012-2016 average	2017	2016	2012-2016 average
Number of accidents by aircraft and operator type	36	28	33	117	121	132
Aeroplane accidents	31	25	26	99	106	109
Commercial	10	6	7	45	27	32
Airliner (705)	1	0	0	3	0	3
Commuter (704)	1	1	0	4	2	2
Air taxi (703)	3	2	2	12	10	10
Aerial work (702)	3	3	3	8	6	6
Other	2	0	2	18	10	12
State	0	0	0	0	0	1
Corporate	0	0	0	0	0	0
Private/Other (a)	21	19	19	54	79	76
Helicopter accidents	3	2	5	15	11	19
Commercial	3	1	4	12	7	14
State	0	0	0	0	0	1
Corporate	0	0	0	0	0	0
Private/Other (a)	0	1	1	3	4	4
Other aircraft accidents (b)	2	1	2	3	4	5
Number of fatal accidents by aircraft and operator type	1	5	3	9	11	12
Aeroplane accidents	0	5	3	8	11	10
Commercial	0	2	0	4	2	2
Airliner (705)	0	0	0	0	0	0
Commuter (704)	0	0	0	0	0	0
Air taxi (703)	0	1	0	1	1	1
Aerial work (702)	0	1	0	1	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	0	3	2	4	9	8
Helicopter accidents	0	0	1	0	0	2
Other aircraft accidents (b)	1	0	0	1	0	1
Accident fatalities	1	6	4	14	13	21
Accident serious injuries	5	0	4	11	4	12
Number of incidents by type*	83	98	67	501	397	361
Risk of collision/Loss of separation	16	25	11	96	61	55
Declared emergency	25	33	24	185	155	144
Engine failure	12	13	10	55	53	50
Smoke/Fire	8	8	6	54	46	39
Collision	3	5	2	13	7	6
Other	19	14	13	98	75	67
Number of accidents involving ultralight aircraft	4	3	5	18	10	14
Fatal accidents	0	0	1	1	0	2
Fatalities	0	0	1	1	0	2
Serious injuries	0	0	1	5	1	3

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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

	July			Year to date (July)		
	2017	2016	2012-2016 average	2017	2016	2012-2016 average
Number of accidents by operation type	34	27	31	114	117	128
Aeroplane accidents	31	25	26	99	106	109
Training	3	0	3	20	14	15
Pleasure/Travel	18	16	16	48	67	66
Business	0	0	0	1	2	2
Forest fire management	0	0	1	0	1	1
Test/Demonstration/Ferry	1	1	0	1	2	1
Aerial application	2	4	2	3	6	3
Inspection	1	0	0	1	0	0
Air transport	4	3	2	17	9	12
Air ambulance	0	0	0	0	1	1
Sightseeing	0	0	1	1	0	1
Other/Unknown	2	1	1	7	5	6
Helicopter accidents	3	2	5	15	11	19
Training	0	0	0	3	1	2
Pleasure/Travel	0	1	1	2	4	3
Business	0	0	0	0	0	0
Forest fire management	1	0	1	1	0	1
Test/Demonstration/Ferry	0	0	0	0	0	0
Aerial application	1	1	1	1	1	1
Inspection	0	0	0	0	0	1
Air transport	1	0	2	1	2	6
Air ambulance	0	0	0	1	0	0
Sightseeing	0	0	0	1	0	0
Other/Unknown	0	0	0	5	3	4
Number of fatal accidents by operation type	0	5	3	8	11	12
Training	0	0	0	2	0	0
Pleasure/Travel	0	1	2	3	7	7
Business	0	0	0	0	0	1
Forest fire management	0	0	0	0	0	0
Test/Demonstration/Ferry	0	1	0	0	1	0
Aerial application	0	2	0	0	2	0
Inspection	0	0	0	0	0	0
Air transport	0	1	1	1	1	2
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	0	0
Other/Unknown	0	0	0	2	0	1
Fatalities	0	6	4	13	13	20
Serious injuries	5	0	4	11	3	11

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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.