

Table 1

## Reportable aircraft occurrences

	September			Year to date (September)		
	2020	2019	2015-2019 average	2020	2019	2015-2019 average
<b>Number of reportable accidents</b>	<b>17</b>	<b>26</b>	<b>29</b>	<b>143</b>	<b>206</b>	<b>197</b>
Accidents in Canada involving Canadian-registered aircraft	17	25	27	138	192	183
Accidents outside Canada involving Canadian-registered aircraft	0	1	1	5	7	7
Accidents in Canada involving foreign-registered aircraft	0	0	1	0	8	8
<b>Number of accidents by operator type<sup>1</sup></b>	<b>17</b>	<b>26</b>	<b>29</b>	<b>143</b>	<b>206</b>	<b>197</b>
Commercial	3	9	8	42	76	64
Airliner (CAR 705)	0	0	1	3	7	6
Commuter (CAR 704)	0	0	0	3	3	2
Air taxi (CAR 703)	0	2	2	9	24	21
Aerial work (CAR 702)	0	2	2	13	20	16
Foreign air operator (CAR 701)	0	0	1	0	1	1
Flight training units (CAR 406)	3	5	2	14	22	18
Other commercial	0	0	0	0	0	1
Private	14	17	20	99	129	132
Private operators (CAR 604)	0	0	0	3	3	2
Recreational	14	17	20	94	121	124
Other private	0	0	0	2	5	6
State	0	0	0	0	1	1
Other/Unknown	0	0	0	2	0	2
<b>Number of accidents by aircraft type<sup>1</sup></b>	<b>17</b>	<b>26</b>	<b>29</b>	<b>143</b>	<b>206</b>	<b>197</b>
Aeroplane	14	19	21	108	158	151
Helicopter	0	2	3	14	26	23
Ultralight	3	5	4	17	17	18
Other <sup>2</sup>	0	0	1	4	6	6
<b>Number of aircraft involved in accidents<sup>1,3</sup></b>	<b>17</b>	<b>27</b>	<b>30</b>	<b>145</b>	<b>209</b>	<b>202</b>
Aeroplanes	14	20	22	110	160	155
Helicopters	0	2	3	14	26	23
Ultralights	3	5	4	17	17	18
Other <sup>2</sup>	0	0	1	4	6	6
<b>Number of fatal accidents by aircraft type<sup>1</sup></b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>11</b>	<b>29</b>	<b>22</b>
Aeroplane	1	3	2	6	23	16
Helicopter	0	1	1	2	3	2
Ultralight	0	0	1	3	3	3
Other <sup>2</sup>	0	0	0	0	1	1
<b>Reportable accident fatalities</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>15</b>	<b>56</b>	<b>36</b>
<b>Reportable accident serious injuries</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>17</b>	<b>31</b>	<b>23</b>
<b>Accidents in Canada involving foreign-registered aircraft</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>8</b>	<b>8</b>
Fatal accidents	0	0	0	0	3	1
Fatalities	0	0	0	0	4	3
Serious Injuries	0	0	0	0	1	1
<b>Occurrences with a dangerous good release</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>5</b>
<b>Number of reportable incidents<sup>4</sup></b>	<b>30</b>	<b>74</b>	<b>66</b>	<b>363</b>	<b>692</b>	<b>649</b>
Incidents in Canada involving Canadian-registered aircraft	26	58	52	275	500	489
Incidents outside Canada involving Canadian-registered aircraft	3	9	8	58	138	99
Incidents in Canada involving foreign-registered aircraft	1	10	8	37	83	84
<b>Number of reportable incidents by category<sup>4</sup></b>	<b>30</b>	<b>74</b>	<b>66</b>	<b>363</b>	<b>692</b>	<b>649</b>
Risk of collision / Loss of separation	4	14	13	44	106	109
Declared emergency	17	32	26	157	277	253
Engine failure	2	7	9	44	79	79
Smoke / Fire	0	9	8	22	66	68
Collision	2	3	2	8	27	16
Other	5	9	9	88	137	124

Data extracted 16 October 2020

<sup>1</sup> 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.<sup>2</sup> Includes balloons, gyroplanes, gliders, airships, hang gliders, unmanned aerial vehicles (UAV) and similar aircraft types.<sup>3</sup> "Number of aircraft involved in accidents" are aircraft counts, all other data are accident counts.<sup>4</sup> 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)		
	2020	2019	2015-2019 average	2020	2019	2015-2019 average
<b>Number of accidents by aircraft and operator type</b>	<b>14</b>	<b>21</b>	<b>24</b>	<b>126</b>	<b>182</b>	<b>172</b>
Aeroplane accidents	14	19	20	108	152	144
Commercial	3	7	5	34	61	47
Airliner (CAR 705)	0	0	1	3	7	6
Commuter (CAR 704)	0	0	0	3	3	2
Air taxi (CAR 703)	0	1	1	6	19	14
Aerial work (CAR 702)	0	1	0	8	10	9
Flight training units (CAR 406)	3	5	2	14	22	17
Other commercial	0	0	0	0	0	0
Private	11	12	15	74	90	96
Private operators (CAR 604)	0	0	0	2	3	2
Recreational	11	12	14	71	84	91
Other private	0	0	0	1	3	4
State	0	0	0	0	1	1
Other/Unknown	0	0	0	0	0	1
Helicopter accidents	0	2	3	14	25	23
Commercial	0	2	2	8	15	15
Private	0	0	1	6	10	7
State	0	0	0	0	0	0
Other/Unknown	0	0	0	0	0	0
Other aircraft accidents <sup>3</sup>	0	0	1	4	6	6
<b>Number of fatal accidents by aircraft and operator type<sup>1,2</sup></b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>23</b>	<b>18</b>
Aeroplane accidents	1	3	2	6	20	15
Commercial	0	1	0	0	7	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	0	5	2
Aerial work (CAR 702)	0	0	0	0	1	1
Flight training units (CAR 406)	0	1	0	0	1	1
Other commercial	0	0	0	0	0	0
Private	1	2	2	6	13	11
Private operators (CAR 604)	0	0	0	0	0	0
Recreational	1	2	2	6	13	11
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	1	1	1
Private	0	0	0	1	2	1
State	0	0	0	0	0	0
Other/Unknown	0	0	0	0	0	0
Other aircraft accidents <sup>3</sup>	0	0	0	0	1	1
<b>Accident fatalities<sup>2</sup></b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>12</b>	<b>47</b>	<b>30</b>
<b>Accident serious injuries<sup>2</sup></b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>13</b>	<b>26</b>	<b>19</b>
<b>Number of incidents by category<sup>2,4</sup></b>	<b>29</b>	<b>67</b>	<b>60</b>	<b>333</b>	<b>638</b>	<b>588</b>
Risk of collision/Loss of separation	4	13	12	43	99	101
Declared emergency	17	27	22	139	246	223
Engine failure	1	7	9	40	73	72
Smoke/Fire	0	8	7	19	60	61
Collision	2	3	2	8	25	15
Other	5	9	9	84	135	117
<b>Number of accidents involving ultralight aircraft</b>	<b>3</b>	<b>5</b>	<b>4</b>	<b>17</b>	<b>17</b>	<b>18</b>
Fatal accidents	0	0	1	3	3	3
Fatalities	0	0	1	3	5	3
Serious injuries	0	0	0	4	4	3

Data extracted 16 October 2020

<sup>1</sup> 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.

<sup>2</sup> Excludes ultralight aircraft

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

<sup>4</sup> 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)		
	2020	2019	2015-2019 average	2020	2019	2015-2019 average
<b>Number of accidents by operation type</b>	<b>14</b>	<b>21</b>	<b>23</b>	<b>122</b>	<b>177</b>	<b>167</b>
Aeroplane accidents	14	19	20	108	152	144
Training	3	6	2	17	26	19
Pleasure/Travel	11	9	13	62	75	85
Business	0	0	0	4	3	2
Forest fire management	0	0	0	1	2	1
Test/Demonstration/Ferry	0	1	1	2	3	2
Aerial application	0	1	1	7	6	6
Inspection	0	0	0	0	0	0
Air transport	0	1	3	10	26	20
Air ambulance	0	0	0	1	1	1
Sightseeing	0	0	0	0	2	1
Other/Unknown	0	1	1	4	8	8
Helicopter accidents	0	2	3	14	25	23
Training	0	0	0	0	1	2
Pleasure/Travel	0	0	1	5	8	6
Business	0	0	0	0	1	0
Forest fire management	0	0	0	1	1	1
Test/Demonstration/Ferry	0	0	0	0	0	0
Aerial application	0	0	0	2	3	2
Inspection	0	0	0	0	0	0
Air transport	0	2	1	1	9	5
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	0	0
Other/Unknown	0	0	0	5	2	4
<b>Number of fatal accidents by operation type</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>8</b>	<b>23</b>	<b>17</b>
Training	0	1	0	1	1	1
Pleasure/Travel	1	2	2	6	12	10
Business	0	0	0	0	1	0
Forest fire management	0	0	0	0	0	0
Test/Demonstration/Ferry	0	0	0	0	1	1
Aerial application	0	0	0	0	0	1
Inspection	0	0	0	0	0	0
Air transport	0	1	0	0	6	3
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	0	0
Other/Unknown	0	0	0	1	2	2
<b>Fatalities</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>12</b>	<b>47</b>	<b>30</b>
<b>Serious injuries</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>12</b>	<b>26</b>	<b>19</b>

Data extracted 16 October 2020

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.