

**Table 1**  
**Reportable aircraft occurrences**

	December			Year to date (December)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
<b>Number of reportable accidents</b>	<b>8</b>	<b>6</b>	<b>8</b>	<b>226</b>	<b>201</b>	<b>234</b>
Accidents in Canada involving Canadian-registered aircraft	6	5	7	209	180	217
Accidents outside Canada involving Canadian-registered aircraft	1	1	1	8	11	9
Accidents in Canada involving foreign-registered aircraft	1	0	0	10	11	8
<b>Number of accidents by operator type<sup>1</sup></b>	<b>8</b>	<b>6</b>	<b>8</b>	<b>226</b>	<b>201</b>	<b>234</b>
Commercial	1	3	5	83	66	76
Airliner (CAR 705)	0	1	1	7	8	6
Commuter (CAR 704)	1	0	0	5	1	3
Air taxi (CAR 703)	0	1	1	26	23	27
Aerial work (CAR 702)	0	1	1	20	17	17
Foreign air operator (CAR 701)	0	0	0	1	3	1
Flight training units (CAR 406)	0	0	1	25	13	21
Other commercial	0	0	0	0	1	1
Private	7	2	4	141	134	154
Private operators (CAR 604)	2	0	0	5	5	3
Recreational	4	2	4	129	124	146
Other private	1	0	0	7	7	6
State	0	1	0	1	2	1
Other/Unknown	0	0	0	1	0	3
<b>Number of accidents by aircraft type<sup>1</sup></b>	<b>8</b>	<b>6</b>	<b>8</b>	<b>226</b>	<b>201</b>	<b>234</b>
Aeroplane	7	5	7	173	153	176
Helicopter	1	1	1	29	26	30
Ultralight	0	0	0	20	18	23
Other <sup>2</sup>	0	0	0	5	4	7
<b>Number of aircraft involved in accidents<sup>1,3</sup></b>	<b>8</b>	<b>6</b>	<b>9</b>	<b>229</b>	<b>207</b>	<b>240</b>
Aeroplanes	7	5	7	175	159	180
Helicopters	1	1	1	29	26	30
Ultralights	0	0	0	20	18	23
Other <sup>2</sup>	0	0	0	5	4	7
<b>Number of fatal accidents by aircraft type<sup>1</sup></b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>32</b>	<b>23</b>	<b>23</b>
Aeroplane	2	0	1	27	17	18
Helicopter	0	0	0	3	4	3
Ultralight	0	0	0	2	2	3
Other <sup>2</sup>	0	0	0	1	0	0
<b>Reportable accident fatalities</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>67</b>	<b>38</b>	<b>37</b>
<b>Reportable accident serious injuries</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>30</b>	<b>28</b>	<b>29</b>
<b>Accidents in Canada involving foreign-registered aircraft</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>11</b>	<b>8</b>
Fatal accidents	0	0	0	4	0	1
Fatalities	0	0	0	11	0	3
Serious Injuries	0	0	0	1	4	1
<b>Occurrences with a dangerous good release</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>7</b>	<b>6</b>
<b>Number of reportable incidents<sup>4</sup></b>	<b>76</b>	<b>76</b>	<b>73</b>	<b>905</b>	<b>860</b>	<b>832</b>
Incidents in Canada involving Canadian-registered aircraft	56	50	53	646	608	633
Incidents outside Canada involving Canadian-registered aircraft	14	18	13	180	161	114
Incidents in Canada involving foreign-registered aircraft	7	9	8	112	115	109
<b>Number of reportable incidents by category<sup>4</sup></b>	<b>76</b>	<b>76</b>	<b>73</b>	<b>905</b>	<b>860</b>	<b>832</b>
Risk of collision / Loss of separation	9	7	9	135	141	131
Declared emergency	30	34	31	364	340	329
Engine failure	7	3	8	102	91	103
Smoke / Fire	10	11	8	91	99	92
Collision	2	4	2	31	26	18
Other	18	17	15	182	163	159

Data extracted 15 January 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**

	December			Year to date (December)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
<b>Number of accidents by aircraft and operator type</b>	<b>7</b>	<b>6</b>	<b>8</b>	<b>197</b>	<b>173</b>	<b>204</b>
Aeroplane accidents	6	5	7	165	143	168
Commercial	1	2	3	65	46	53
Airliner (CAR 705)	0	1	1	7	8	6
Commuter (CAR 704)	1	0	0	4	1	3
Air taxi (CAR 703)	0	1	1	21	18	17
Aerial work (CAR 702)	0	0	0	10	6	9
Flight training units (CAR 406)	0	0	1	23	12	19
Other commercial	0	0	0	0	1	0
Private	5	2	4	98	96	114
Private operators (CAR 604)	1	0	0	3	5	2
Recreational	4	2	4	92	90	109
Other private	0	0	0	3	2	3
State	0	1	0	1	2	1
Other/Unknown	0	0	0	1	0	1
Helicopter accidents	1	1	1	28	26	29
Commercial	0	1	1	17	17	21
Private	1	0	0	11	9	8
State	0	0	0	0	0	0
Other/Unknown	0	0	0	0	0	0
Other aircraft accidents <sup>3</sup>	0	0	0	5	4	7
<b>Number of fatal accidents by aircraft and operator type<sup>1,2</sup></b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>26</b>	<b>21</b>	<b>20</b>
Aeroplane accidents	2	0	1	23	17	17
Commercial	0	0	0	7	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	6	2	2
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	2	0	1	16	13	13
Private operators (CAR 604)	0	0	0	0	1	0
Recreational	2	0	1	16	13	12
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	3	4	3
Commercial	0	0	0	1	1	2
Private	0	0	0	2	3	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	1	0	0
<b>Accident fatalities<sup>2</sup></b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>52</b>	<b>36</b>	<b>32</b>
<b>Accident serious injuries<sup>2</sup></b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>25</b>	<b>21</b>	<b>24</b>
<b>Number of incidents by category<sup>2,4</sup></b>	<b>70</b>	<b>68</b>	<b>66</b>	<b>826</b>	<b>769</b>	<b>747</b>
Risk of collision/Loss of separation	9	6	9	126	134	121
Declared emergency	28	30	26	316	298	289
Engine failure	7	3	8	95	79	93
Smoke/Fire	9	11	8	83	85	82
Collision	0	4	1	27	21	16
Other	17	14	14	179	152	146
<b>Number of accidents involving ultralight aircraft</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>18</b>	<b>22</b>
Fatal accidents	0	0	0	2	2	2
Fatalities	0	0	0	4	2	2
Serious injuries	0	0	0	4	3	4

Data extracted 15 January 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

	December			Year to date (December)		
	2019	2018	2014-2018 average	2019	2018	2014-2018 average
<b>Number of accidents by operation type</b>	<b>7</b>	<b>6</b>	<b>8</b>	<b>193</b>	<b>169</b>	<b>197</b>
Aeroplane accidents	6	5	7	165	143	168
Training	0	1	2	27	14	22
Pleasure/Travel	3	2	4	80	83	102
Business	1	0	0	5	7	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	1	2	1	29	26	23
Air ambulance	0	0	0	1	1	1
Sightseeing	0	0	0	2	1	1
Other/Unknown	1	0	0	10	6	8
Helicopter accidents	1	1	1	28	26	29
Training	0	0	0	2	1	3
Pleasure/Travel	0	0	0	8	6	7
Business	1	1	0	2	2	1
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	0	10	3	8
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	1	1
Other/Unknown	0	0	1	2	8	6
<b>Number of fatal accidents by operation type</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>26</b>	<b>21</b>	<b>19</b>
Training	0	0	0	1	0	1
Pleasure/Travel	1	0	1	14	14	12
Business	0	0	0	1	1	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	7	2	2
Air ambulance	0	0	0	0	0	0
Sightseeing	0	0	0	0	0	0
Other/Unknown	1	0	0	2	3	2
<b>Fatalities</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>52</b>	<b>36</b>	<b>31</b>
<b>Serious injuries</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>25</b>	<b>21</b>	<b>24</b>

Data extracted 15 January 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.