

## 28<sup>th</sup> Joseph T. Nall Report

General Aviation Accidents in 2016

### Commercial fixed-wing

**Figure 2.1: General Aviation Accidents in 2016**

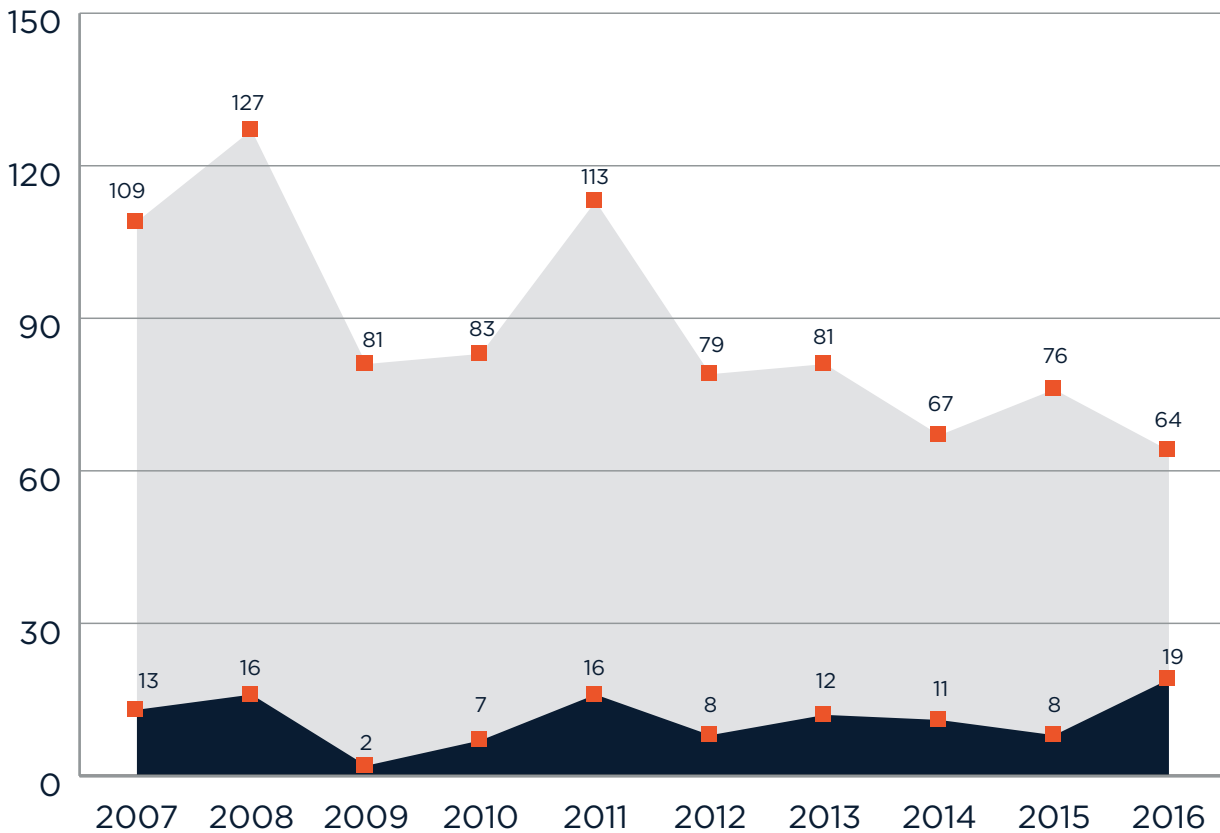
Commercial fixed-wing

Number of accidents	64
Number of aircraft*	65
Number of fatal accidents	19
Lethality (percent)	29.7
Fatalities	33

\*Each aircraft involved in a collision is counted separately.

**Figure 2.2: General Aviation Accident Trends 2007-2016**

Commercial fixed-wing



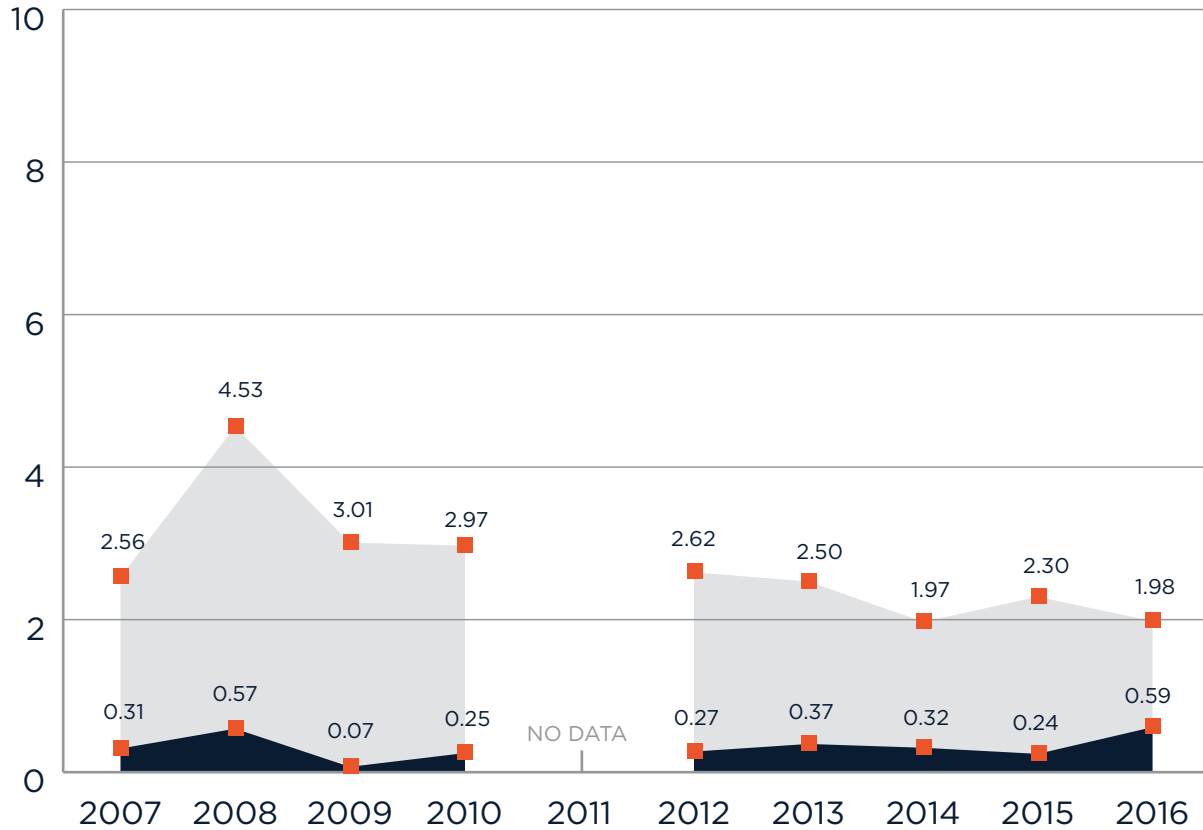
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**Figure 2.3: General Aviation Accident Rates 2007-2016**

Commercial fixed-wing



**Figure 2.4: General Aviation Accidents in 2016**

	Commercial	
	All Accidents	Fatal Accidents
Pilot Related	<b>50</b> 78.1%	<b>16</b> 84.2%
Mechanical	<b>9</b> 14.1%	<b>2</b> 10.5%
Other/Unknown	<b>5</b> 7.8%	<b>1</b> 5.3%

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**Figure 2.5: Commercial fixed-wing Accidents**

	Accidents		Fatal Accidents		Fatalities	
Aerial application (137)	<b>40</b>	61.5%	<b>13</b>	65.0%	<b>13</b>	39.4%
Charter or cargo (135)	<b>25</b>	38.5%	<b>7</b>	35.0%	<b>20</b>	60.6%

#### Aircraft Class

Commercial fixed-wing

##### Part 137:

	Accidents		Fatal Accidents		Lethality
Single-engine fixed-gear	<b>40</b>	100.0%	<b>13</b>	100.0%	32.5%
SEF tailwheel	<b>39</b>		<b>13</b>		33.3%
Single-engine turbine	<b>26</b>		<b>12</b>		46.2%

##### Part 135:

Single-engine fixed-gear	<b>16</b>	64.0%	<b>4</b>	57.1%	25.0%
SEF tailwheel	<b>5</b>		<b>0</b>		0.0%
Single-engine turbine	<b>6</b>		<b>3</b>		50.0%
Single-engine retractable	<b>1</b>	4.0%	<b>0</b>	0.0%	0.0%
Multiengine	<b>8</b>	32.0%	<b>3</b>	42.9%	37.5%
Multiengine turbine	<b>6</b>		<b>2</b>		33.3%

#### Flight conditions:

Commercial fixed-wing

##### Part 137:

	Accidents		Fatal Accidents		Lethality
Day VMC	<b>37</b>	92.5%	<b>13</b>	100.0%	35.1%
Night VMC*	<b>3</b>	7.5%	<b>0</b>	0.0%	0.0%

##### Part 135:

Day VMC	<b>16</b>	64.0%	<b>2</b>	28.6%	12.5%
Night VMC*	<b>3</b>	12.0%	<b>2</b>	28.6%	66.7%
Day IMC	<b>4</b>	16.0%	<b>2</b>	28.6%	50.0%
Night IMC*	<b>2</b>	8.0%	<b>1</b>	14.3%	50.0%

\*Includes dusk.

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#### Pilots involved in commercial fixed-wing accidents

##### Part 137:

	Accidents	Fatal Accidents	Lethality
ATP	2 5.0%	0 0.0%	0.0%
Commercial	38 95.0%	13 100.0%	34.2%
CFI on board*	6 15.0%	2 15.4%	33.3%
IFR pilot on board*	17 42.5%	6 46.2%	35.3%

##### Part 135:

ATP	16 64.0%	4 57.1%	25.0%
Commercial	9 36.0%	3 42.9%	33.3%
Second pilot on board	2 8.0%	1 14.3%	50.0%
CFI on board*	10 40.0%	4 57.1%	40.0%
IFR pilot on board*	25 100.0%	7 100.0%	28.0%

\*Includes single-pilot flights.

#### Types of Commercial fixed-wing accidents

##### Part 137:

	Accidents	Fatal Accidents	Lethality
Collision	2 5.0%	2 15.4%	100.0%
Fuel management	3 7.5%	0 0.0%	0.0%
Landing	4 10.0%	0 0.0%	0.0%
Maneuvering	20 50.0%	10 76.9%	50.0%
Mechanical	6 15.0%	1 7.7%	16.7%
Other	2 5.0%	0 0.0%	0.0%
Other (power loss)	2 5.0%	0 0.0%	0.0%
Take-off	1 2.5%	0 0.0%	0.0%

##### Part 135

Collision	1 4.0%	1 14.3%	100.0%
Descent / approach	2 8.0%	1 14.3%	50.0%
Landing	2 8.0%	0 0.0%	0.0%
Maneuvering	1 4.0%	0 0.0%	0.0%
Mechanical	3 12.0%	1 14.3%	33.3%
Other (power loss)	1 4.0%	1 14.3%	100.0%
Pre-flight	2 8.0%	0 0.0%	0.0%
Take-off	6 24.0%	1 14.3%	16.7%
Taxi	2 8.0%	0 0.0%	0.0%
Weather	5 20.0%	2 28.6%	40.0%