

28th Joseph T. Nall Report

General Aviation Accidents in 2016

Non-commercial helicopter

Figure 3.1: General Aviation Accidents in 2016

Non-commercial helicopter

Number of accidents	79
Number of aircraft*	79
Number of fatal accidents	14
Lethality (percent)	17.7
Fatalities	24

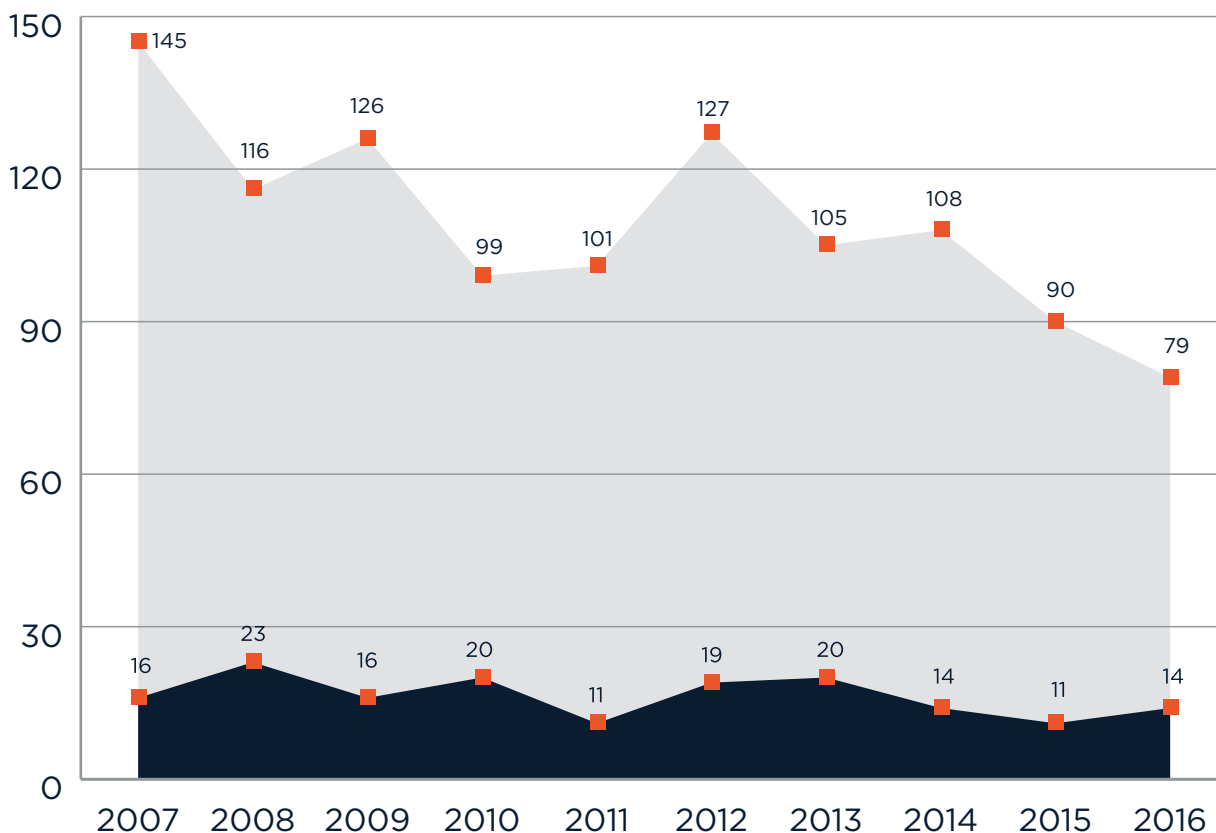
*Each aircraft involved in a collision is counted separately.

**Figure 3.2:
Major causes: Helicopter general aviation accidents**

	Non-Commercial			
	All Accidents		Fatal Accidents	
Pilot-related	67	84.8%	11	78.6%
Mechanical	12	15.2%	3	21.4%

Figure 3.3: General Aviation Accident Trends 2007-2016

Non-commercial helicopter



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Figure 3.4: General Aviation Accident Rates 2007-2016

Non-commercial helicopter

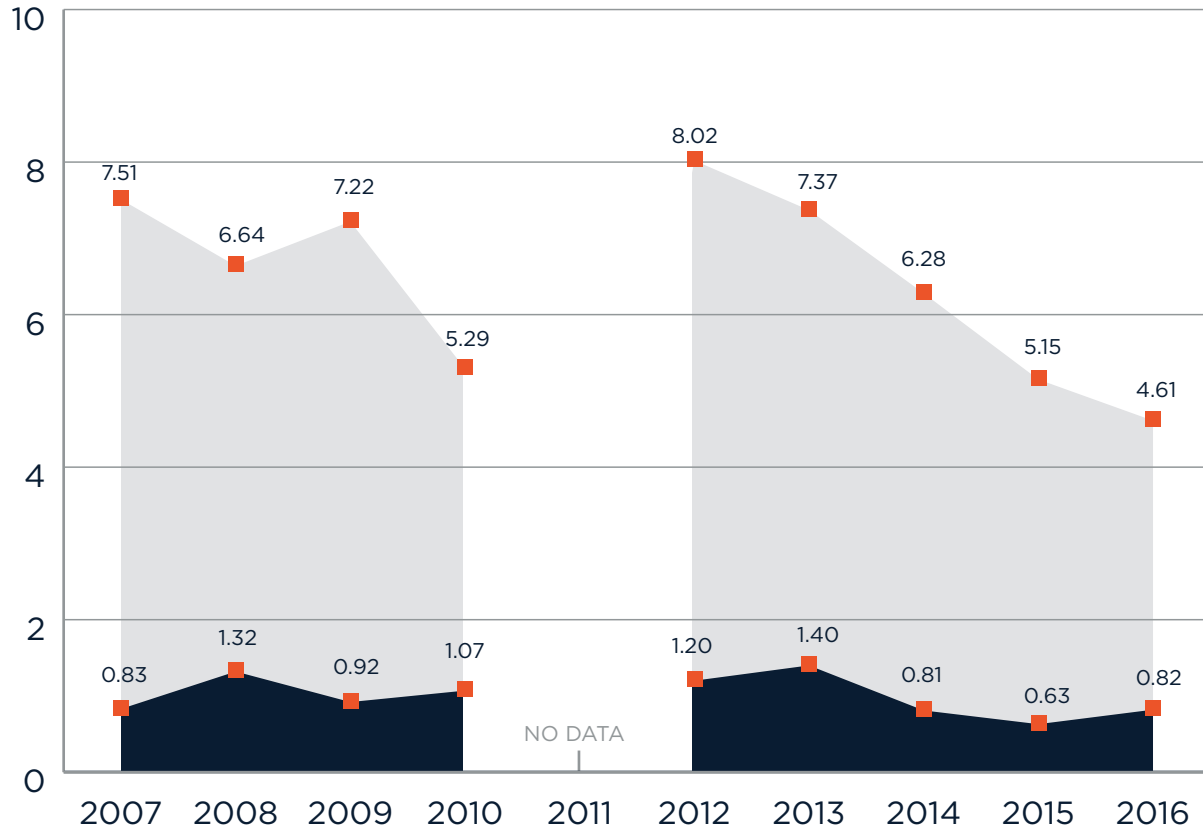


Figure 3.5: Aircraft class:

Non-commercial helicopter

	Accidents	Fatal Accidents	Fatalities
Single-engine piston	45 57.0%	4 28.6%	4 16.7%
Single-engine turbine	29 36.7%	8 57.1%	16 66.7%
Multiengine turbine	5 6.3%	2 14.3%	4 16.7%

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Figure 3.6: Type of operation:

Non-commercial helicopter	Accidents	Fatal Accidents	Fatalities
Personal	23 29.1%	4 28.6%	6 25.0%
Instructional	18 22.8%	1 7.1%	1 4.2%
Public use	10 12.7%	1 7.1%	1 4.2%
Positioning	4 5.1%	1 7.1%	2 8.3%
Aerial observation	7 8.9%	3 21.4%	7 29.2%
Business	5 6.3%	1 7.1%	1 4.2%
Other work use	5 6.3%	1 7.1%	1 4.2%
Other or unknown	7 8.9%	2 14.3%	5 20.8%

Figure 3.7: Flight conditions:

Non-commercial helicopter	Accidents	Fatal Accidents	Fatalities
Day VMC	72 91.1%	10 71.4%	19 79.2%
Night VMC*	4 5.1%	1 7.1%	1 4.2%
Day IMC	2 2.5%	2 14.3%	2 8.3%
Night IMC	1 1.3%	1 7.1%	2 8.3%

*Includes dusk.

Figure 3.8: Pilots involved in accidents

Non-commercial helicopter	Accidents	Fatal Accidents	Fatalities
ATP	16 20.3%	5 35.7%	11 45.8%
Commercial	45 57.0%	8 57.1%	12 50.0%
Private	13 16.5%	1 7.1%	1 4.2%
Student	2 2.5%	0 0.0%	0 0.0%
Other or unknown	3 3.8%	0 0.0%	0 0.0%
Second pilot on board	25 31.6%	4 28.6%	8 33.3%
CFI on board*	43 54.4%	8 57.1%	17 70.8%
IFR pilot on board*	56 70.9%	12 85.7%	22 91.7%

*Includes single-pilot flights.

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Figure 3.9:

Types of non-commercial helicopter accidents

	Accidents	Fatal Accidents	Lethality
External load	2 2.5%	1 7.1%	50.0%
Fuel management	2 2.5%	0 0.0%	0.0%
Landing	7 8.9%	0 0.0%	0.0%
Maneuvering	7 8.9%	1 7.1%	14.3%
Mechanical	12 15.2%	3 21.4%	25.0%
Other / miscellaneous	12 15.2%	3 21.4%	25.0%
Pre-flight / static	2 2.5%	0 0.0%	0.0%
Rotorcraft aerodynamics	23 29.1%	2 14.3%	8.7%
Take-off / climb	2 2.5%	0 0.0%	0.0%
Taxi / ground operations	5 6.3%	0 0.0%	0.0%
Weather	5 6.3%	4 28.6%	80.0%