

2016  
2017

# GA ACCIDENT SCORECARD



AOPA AIR SAFETY  
INSTITUTE



2016  
2017

# GA ACCIDENT SCORECARD



## General Aviation Accidents Summary

**T**he GA Accident Scorecard is produced by the Air Safety Institute to provide a broad view of GA safety performance and trends. The GA Scorecard precedes ASI's Joseph T. Nall Report, which provides much deeper analysis of GA accidents, trends and causes. The Nall Report relies heavily on NTSB accident investigations, which can take up to two years to complete for fatal accidents. The GA Scorecard is produced to provide an earlier view of GA performance to include total numbers of GA accidents, and the GA accident rate viewed in total and broken into several broad categories of GA activity. Each year, the GA Scorecard provides an initial look at the most recently completed year (2017 in this issue), and then completes the data for the initial look that was provided in the preceding year (2016 in this issue).

The news across GA is once again encouraging. For the third straight year, the overall GA fatal accident rate declined. Initial data from 2017 indicates that 2017 will reveal a fourth straight year. GA is benefiting from the combined impact of more activity and fewer numbers of fatal accidents, producing a substantial reduction in the overall fatal accident rate. Such overall performance indicates the constant work by all in the GA industry to drive safety initiatives is producing results in preserving aircraft and saving lives.

There is so much more we can do...must do to drive the GA accident rates even lower. Every fraction of a point improvement in the accident rate represents lives saved. ASI joins others in the GA industry in relentless pursuit of enhancing training, proficiency, equipment and the GA culture to continue these inspiring results.

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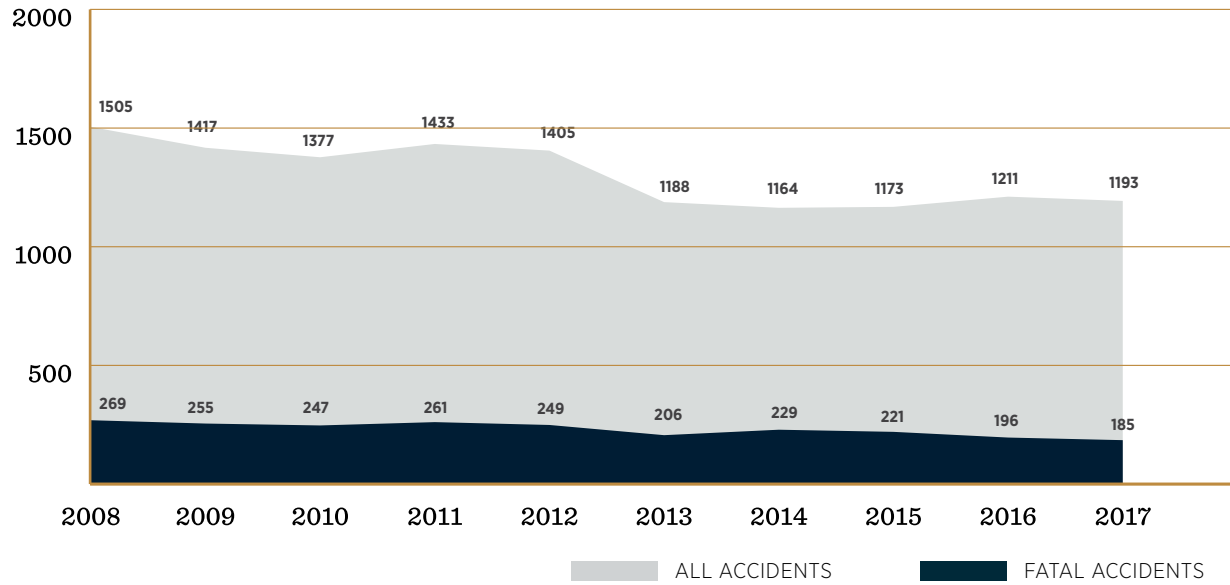
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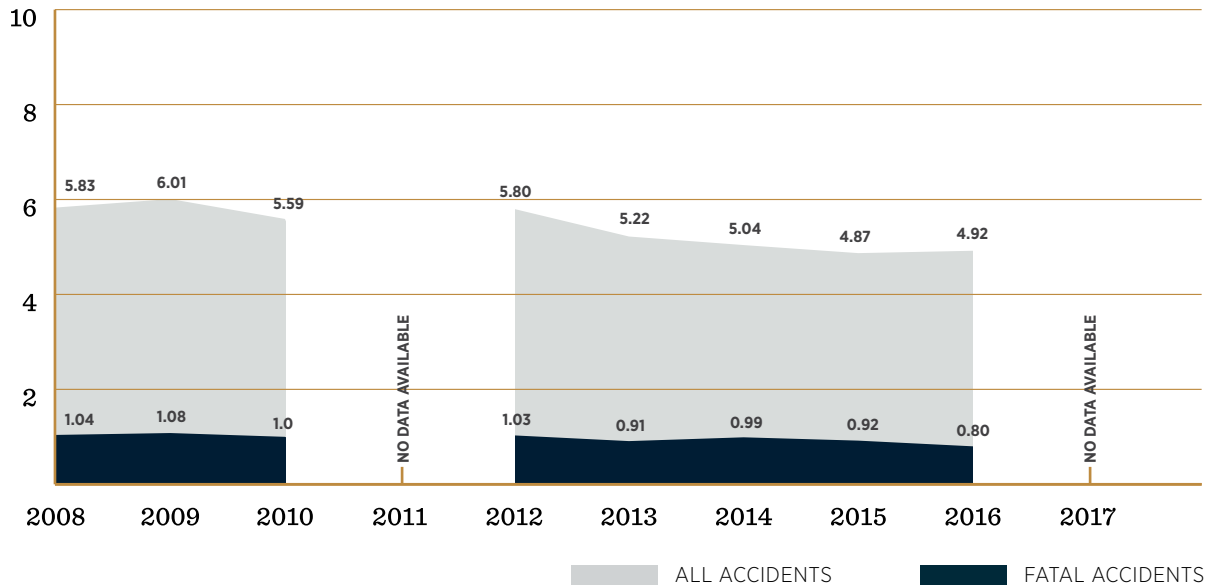
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## Overall General Aviation Accidents 2008-2017



## Overall General Aviation Accident Rate 2008-2017



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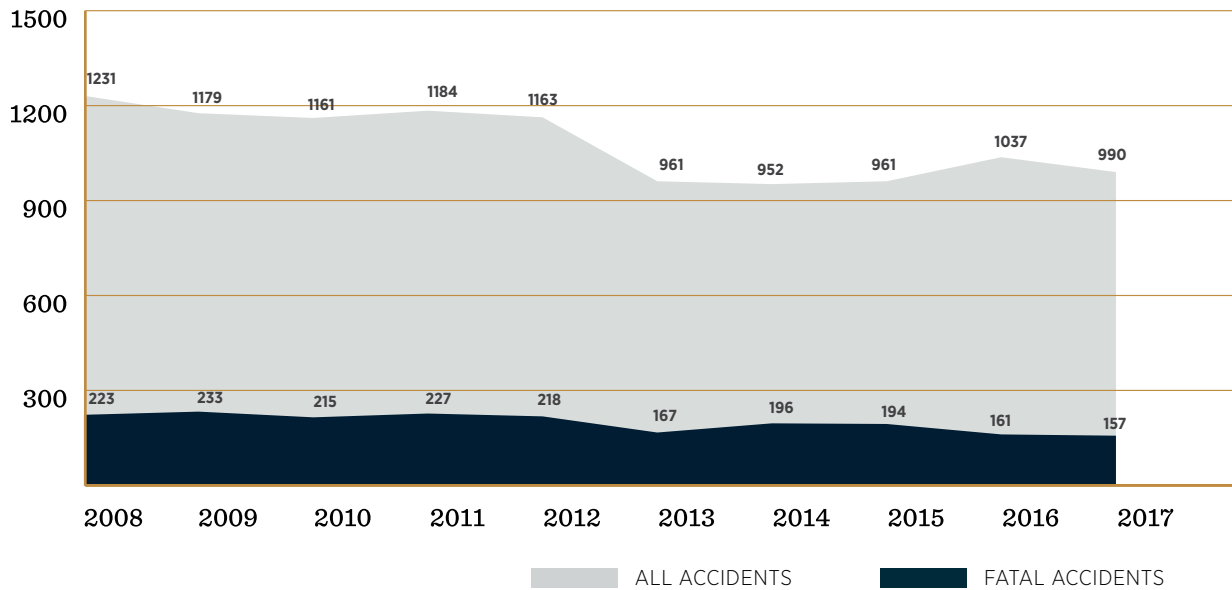
# SECTION 1

FIXED-WING NON-COMMERCIAL  
& COMMERCIAL

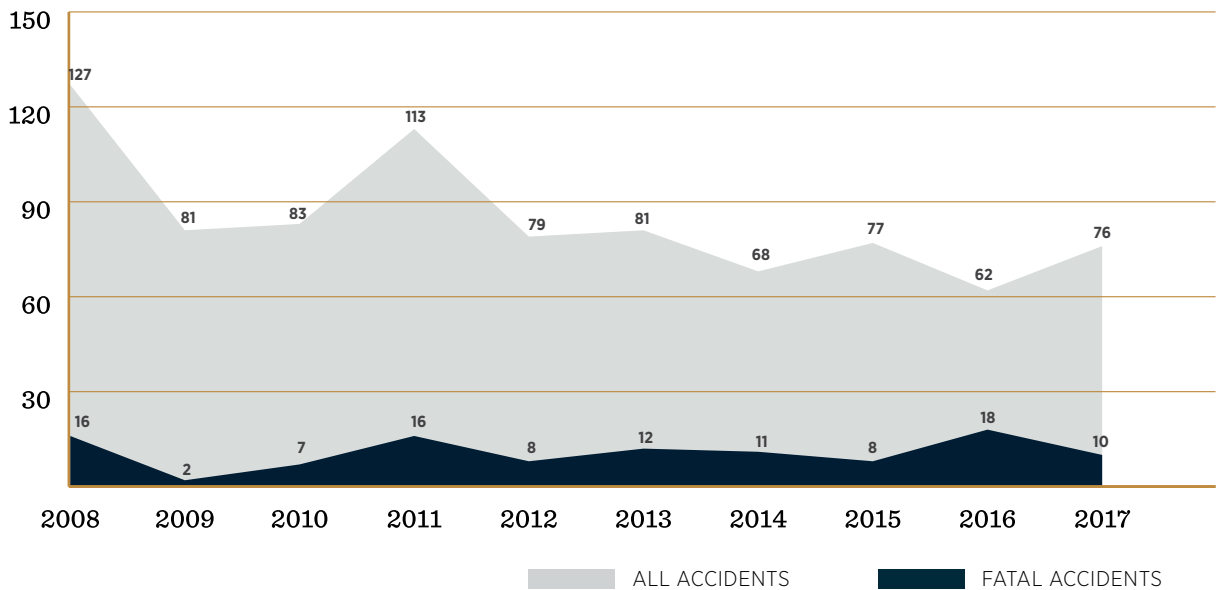


# General Aviation Accidents, 2008-2017

## NON-COMMERCIAL FIXED-WING

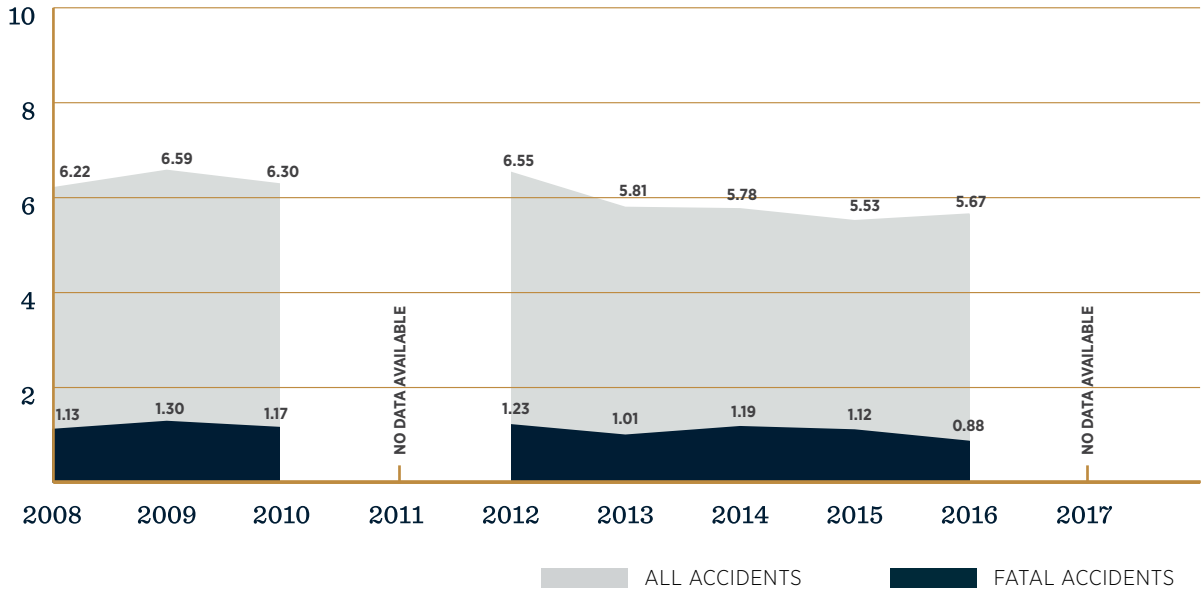


## COMMERCIAL FIXED-WING

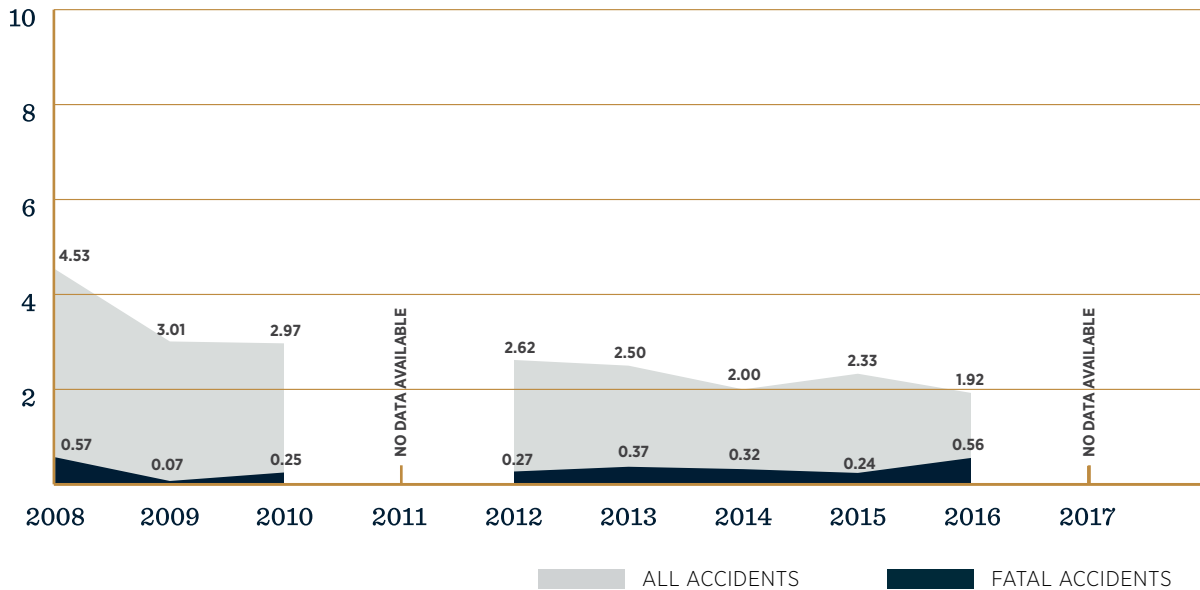


# General Aviation Accident Rates, 2008-2017

## NON-COMMERCIAL FIXED-WING



## COMMERCIAL FIXED-WING



NOTE: ACCIDENT RATES ARE PER 100,000 FLIGHT HOURS

## Summary of General Aviation Fixed-Wing Accidents by Year

2016	Non-Commercial FIXED-WING	Commercial FIXED-WING
Number of accidents	1037	62
Number of aircraft*	1052	63
Number of fatal accidents	161	18
Lethality (percent)	15.5	29
Fatalities	305	34

2017	Non-Commercial FIXED-WING	Commercial FIXED-WING
Number of accidents	990	76
Number of aircraft*	1000	76
Number of fatal accidents	157	10
Lethality (percent)	15.9	13.2
Fatalities	263	12

*\*EACH AIRCRAFT INVOLVED IN A COLLISION IS COUNTED SEPARATELY.*

# SECTION 1

2017 PRELIMINARY DATA FIXED-WING

## 2017 Accident Conditions: Non-Commercial Fixed-Wing

### AIRCRAFT CLASS

CONFIGURATION	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine fixed-gear	724	72.4%	98	62.0%	143	54.4%
SEF tailwheel	302		32		43	
Single-engine retractable	200	19.9%	40	25.3%	73	27.8%
Single-engine turbine	14		3		4	
Multiengine	74	7.4%	20	12.7%	47	17.9%
Multiengine turbine	15		4		7	
Unknown/Unclassified	2	0.2%	0	0.0%	0	0.0%

### TYPE OF OPERATION

PURPOSE OF FLIGHT	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Personal	754	75.4%	128	81.0%	215	81.7%
Instructional	158	15.8%	20	12.7%	33	12.5%
Public use	4	0.4%	0	0.0%	0	0.0%
Positioning	13	1.3%	0	0.0%	0	0.0%
Aerial observation	5	0.5%	1	0.6%	1	0.4%
Business	25	2.5%	5	3.2%	10	3.8%
Other work use	15	1.5%	1	0.6%	1	0.4%
Other or unknown	26	2.6%	3	1.9%	3	1.1%



## SECTION 1: 2017 PRELIMINARY DATA FIXED-WING

### Non-Commercial Fixed-Wing, 2017 (Continued)

#### PILOT QUALIFICATIONS

CERTIFICATE LEVEL	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
ATP	149	14.9%	26	16.5%	46	17.5%
Commercial	248	24.8%	48	30.4%	74	28.1%
Private	486	48.6%	75	47.5%	133	50.6%
Sport	14	1.4%	4	2.5%	5	1.9%
Student	56	5.6%	4	2.5%	4	1.5%
None	7	0.7%	0	0.0%	0	0.0%
Other or unknown	40	4.0%	1	0.6%	1	0.4%
Second pilot on board	125	12.5%	24	15.2%	44	16.7%
CFI on board*	192	19.2%	34	21.5%	61	23.2%
IFR pilot on board*	495	49.5%	96	60.8%	162	61.6%

\* INCLUDES SINGLE-PILOT FLIGHTS

#### LIGHT AND WEATHER CONDITIONS

CONDITIONS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Day VMC	858	86.7%	118	75.2%	173	66.3%
Night VMC*	70	7.1%	13	8.3%	30	11.5%
Day IMC	28	2.8%	15	9.6%	41	15.7%
Night IMC*	12	1.2%	6	3.8%	12	4.6%
Not Reported	22	2.2%	5	3.2%	5	1.9%

\* INCLUDES DUSK

## SECTION 1: 2017 PRELIMINARY DATA FIXED-WING

### 2017 Accident Conditions: Commercial Fixed-Wing

#### TYPE OF OPERATION

PURPOSE OF FLIGHT	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Aerial application (Part 137)	40	52.6%	6	60.0%	6	50.0%
Charter or cargo (Part 135)	36	47.4%	4	40.0%	6	50.0%

#### AERIAL APPLICATION (PART 137)

AIRCRAFT CLASS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine fixed-gear (SEF)	40	100.0%	6	100.0%	6	100.0%
SEF tailwheel	38		6		6	
Single-engine turbine	20		5		5	

#### CONDITIONS

Day VMC	37	92.5%	4	66.7%	4	66.7%
Day IMC	3	7.5%	2	33.3%	2	33.3%

#### PILOT QUALIFICATIONS

ATP	1	2.5%	0	0.0%	0	0.0%
Commercial	37	92.5%	6	100.0%	6	100.0%
Other or unknown	2	5.0%	0	0.0%	0	0.0%
CFI on board*	3	7.5%	1	16.7%	1	16.7%
IFR pilot on board*	19	47.5%	2	33.3%	2	33.3%

\* INCLUDES SINGLE-PILOT FLIGHTS

## SECTION 1: 2017 PRELIMINARY DATA FIXED-WING

### Commercial Fixed-Wing, 2017 (Continued)

#### CHARTER AND CARGO (PART 135)

AIRCRAFT CLASS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine fixed-gear (SEF)	23	63.9%	2	50.0%	2	33.3%
SEF tailwheel	6		0		0	
Single-engine retractable	3	8.3%	1	25.0%	3	50.0%
Single-engine turbine	6		2		4	
Multiengine	10	27.8%	1	25.0%	1	16.7%
Multiengine turbine	7		0		0	

#### CONDITIONS

Day VMC	26	72.2%	1	25.0%	1	16.7%
Night VMC*	3	8.3%	0	0.0%	0	0.0%
Day IMC	2	5.6%	0	0.0%	0	0.0%
Night IMC*	3	8.3%	1	25.0%	3	50.0%
Not reported	2	5.6%	2	50.0%	2	33.3%

\* INCLUDES DUSK

#### PILOT QUALIFICATIONS

ATP	10	27.8%	2	50.0%	4	66.7%
Commercial	23	63.9%	2	50.0%	2	33.3%
Other or unknown	3	8.3%	0	0.0%	0	0.0%
Second pilot on board	2	5.6%	0	0.0%	0	0.0%
CFI on board*	15	41.7%	3	75.0%	5	83.3%
IFR pilot on board*	31	86.1%	3	75.0%	5	83.3%

\* INCLUDES SINGLE-PILOT FLIGHTS

# SECTION 1

2016 UPDATED DATA FIXED-WING

## 2016 Accident Conditions: Non-Commercial Fixed-Wing

### AIRCRAFT CLASS

CONFIGURATION	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine fixed-gear (SEF)	780	74.1%	102	61.4%	180	59.0%
SEF tailwheel	324		37		60	
Single-engine retractable gear	193	18.3%	44	26.5%	78	25.6%
Single-engine turbine	22		4		7	
Multiengine	79	7.5%	20	12.0%	47	15.4%
Multiengine turbine	20		3		6	

### TYPE OF OPERATION

PURPOSE OF FLIGHT	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Personal	777	73.9%	129	77.7%	242	79.3%
Instructional	175	16.6%	15	9.0%	22	7.2%
Public use	7	0.7%	3	1.8%	5	1.6%
Positioning	11	1.0%	2	1.2%	3	1.0%
Aerial observation	9	0.9%	1	0.6%	3	1.0%
Business	24	2.3%	5	3.0%	12	3.9%
Other work use	23	2.2%	5	3.0%	12	3.9%
Other or unknown	26	2.5%	6	3.6%	6	2.0%

**NOTE:** PERCENTAGES ARE PERCENT OF ALL ACCIDENTS, ALL FATAL ACCIDENTS, OR INDIVIDUAL FATALITIES, RESPECTIVELY.



## SECTION 1: 2016 UPDATED DATA FIXED-WING

### Non-Commercial Fixed-Wing, 2016 (Continued)

#### PILOT QUALIFICATIONS

CERTIFICATE LEVEL	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
ATP	197	18.7%	33	19.9%	65	21.3%
Commercial	265	25.2%	49	29.5%	86	28.2%
Private	472	44.9%	79	47.6%	148	48.5%
Sport	20	1.9%	2	1.2%	2	0.7%
Student	83	7.9%	2	1.2%	3	1.0%
None	7	0.7%	0	0.0%	0	0.0%
Other or unknown	8	0.8%	1	0.6%	1	0.3%
Second pilot on board	152	14.4%	31	18.7%	64	21.0%
CFI on board*	260	24.7%	41	24.7%	74	24.3%
IFR pilot on board*	555	52.8%	93	56.0%	182	59.7%

\* INCLUDES SINGLE-PILOT FLIGHTS

#### LIGHT AND WEATHER CONDITIONS

CONDITIONS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Day VMC	921	88.8%	126	78.3%	223	76.4%
Night VMC*	86	8.3%	23	14.3%	45	15.4%
Day IMC	23	2.2%	6	3.7%	11	3.8%
Night IMC*	5	0.5%	5	3.1%	10	3.4%
Not yet reported	2	0.2%	1	0.6%	3	1.0%

\* INCLUDES DUSK

## SECTION 1: 2016 UPDATED DATA FIXED-WING

### 2016 Accident Conditions: Commercial Fixed-Wing

#### TYPE OF OPERATION

PURPOSE OF FLIGHT	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Aerial application (Part 137)	38	60.3%	12	63.2%	12	35.3%
Charter or cargo (Part 135)	25	39.7%	7	36.8%	22	64.7%

#### AERIAL APPLICATION (PART 137)

AIRCRAFT CLASS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine fixed-gear (SEF)	38	100.0%	12	100.0%	12	100.0%
SEF tailwheel	37		12		12	
Single-engine turbine	22		9		9	

#### CONDITIONS

Day VMC	35	92.1%	12	100.0%	12	100.0%
Night VMC*	2	5.3%	0	0.0%	0	0.0%
Day IMC	1	2.6%	0	0.0%	0	0.0%

\* INCLUDES DUSK

#### PILOT QUALIFICATIONS

ATP	2	5.3%	0	0.0%	0	0.0%
Commercial	36	94.7%	12	100.0%	12	100.0%
CFI on board*	5	13.2%	2	16.7%	2	16.7%
IFR pilot on board*	15	39.5%	6	50.0%	6	50.0%

\* INCLUDES SINGLE-PILOT FLIGHTS

## SECTION 1: 2016 UPDATED DATA FIXED-WING

### Commercial Fixed-Wing, 2016 (Continued)

#### CHARTER AND CARGO (PART 135)

AIRCRAFT CLASS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine fixed-gear	16	64.0%	4	57.1%	12	54.5%
SEF tailwheel	5		0		0	
Single-engine retractable	1	4.0%	0		0	
Single-engine turbine	6		3		9	
Multiengine	8	32.0%	3	42.9%	10	45.5%
Multiengine turbine	6		2		8	

#### CONDITIONS

Day VMC	16	64.0%	2	28.6%	8	36.4%
Night VMC*	3	12.0%	2	28.6%	5	22.7%
Day IMC	4	16.0%	2	28.6%	5	22.7%
Night IMC*	2	8.0%	1	14.3%	4	18.2%

\* INCLUDES DUSK

#### PILOT QUALIFICATIONS

ATP	16	64.0%	4	57.1%	15	68.2%
Commercial	9	36.0%	3	42.9%	7	31.8%
Second pilot on board	2	8.0%	1	14.3%	3	13.6%
CFI on board*	10	40.0%	4	57.1%	10	45.5%
IFR pilot on board*	24	96.0%	7	100.0%	22	100.0%

\* INCLUDES SINGLE-PILOT FLIGHTS

# SECTION 2

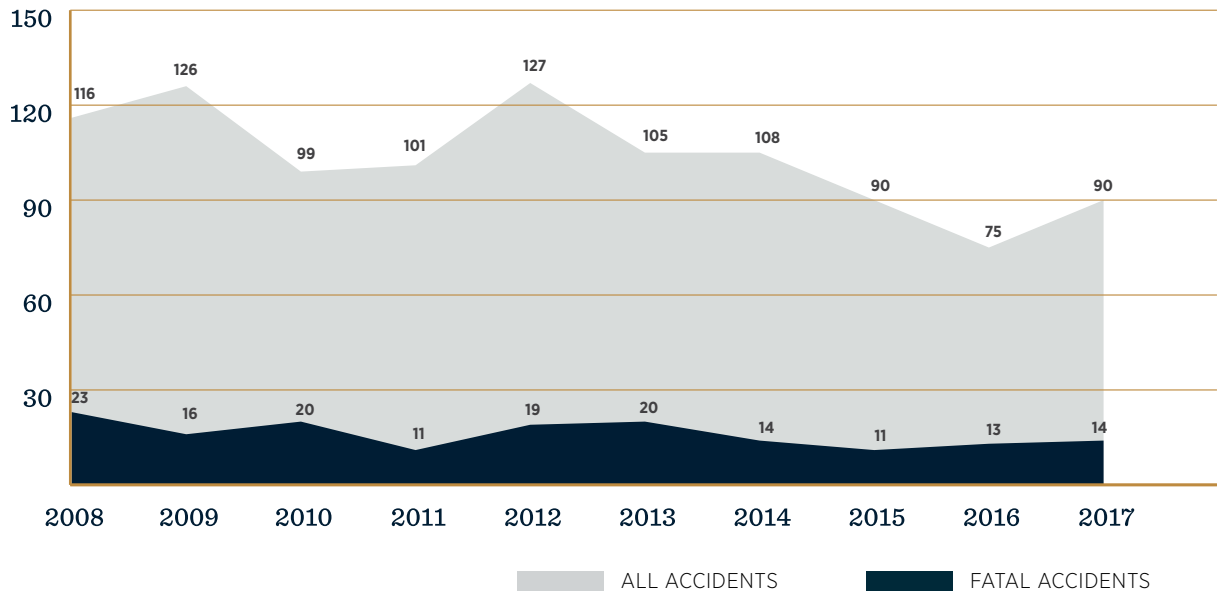
HELICOPTER NON-COMMERCIAL  
& COMMERCIAL



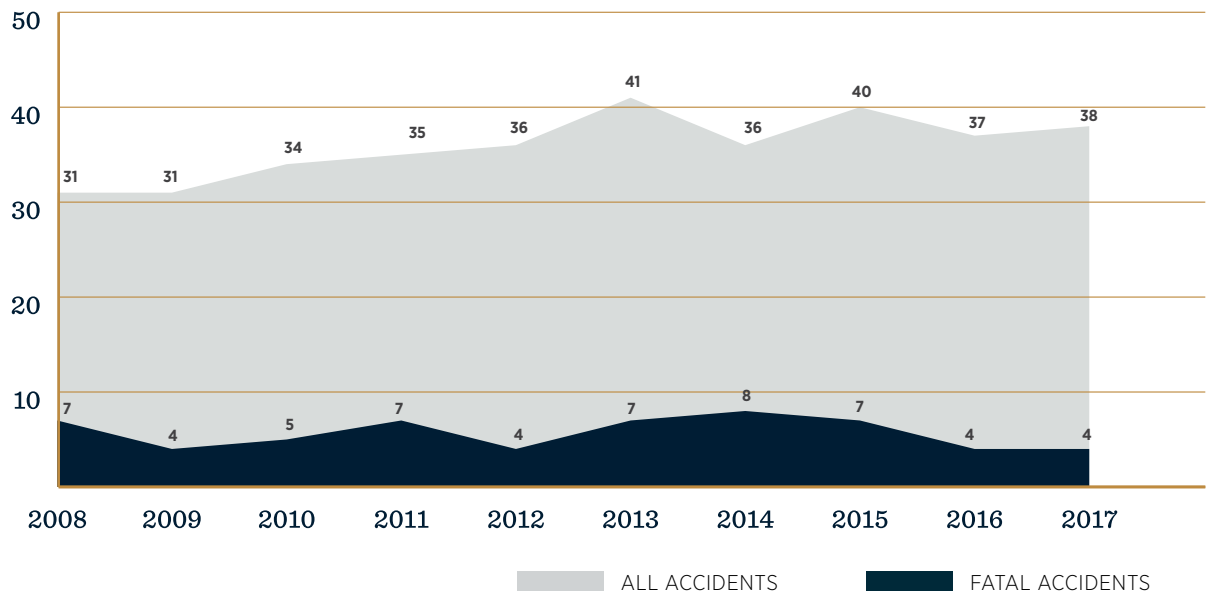


# General Aviation Accidents, 2008-2017

## NON-COMMERCIAL HELICOPTER

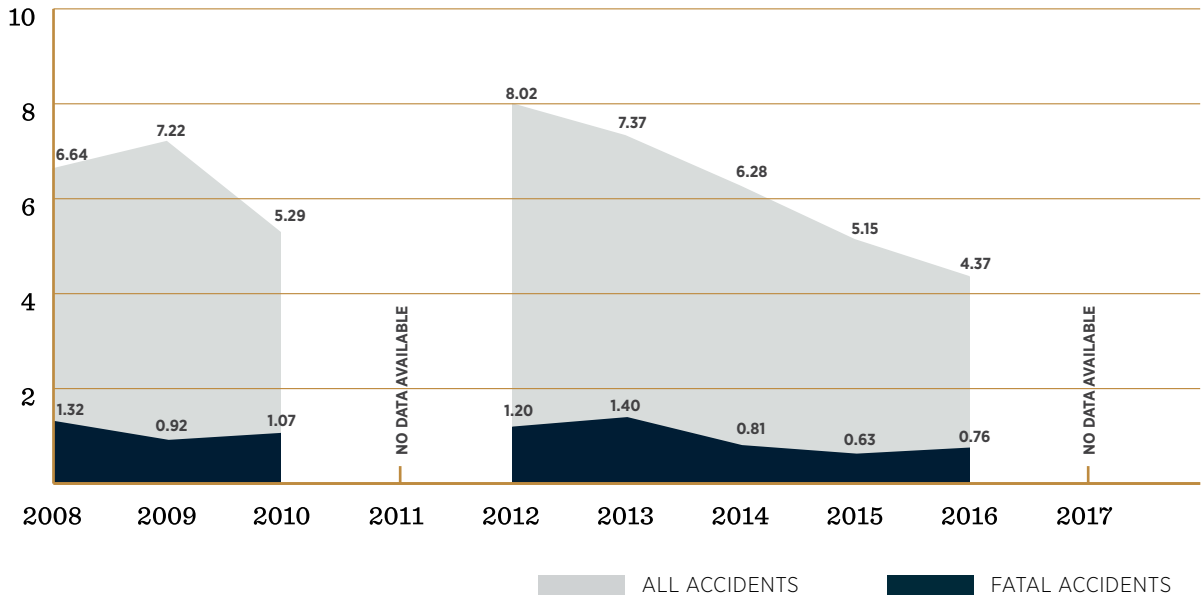


## COMMERCIAL HELICOPTER

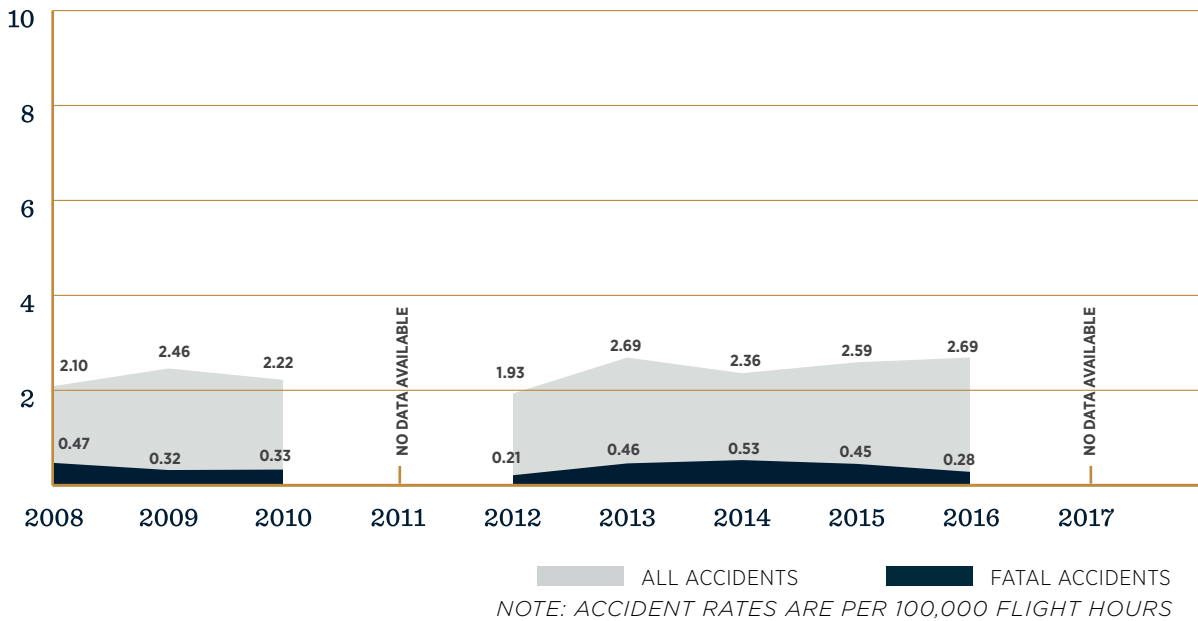


# General Aviation Accident Rates, 2008-2017

## NON-COMMERCIAL HELICOPTER



## COMMERCIAL HELICOPTER



## Summary of General Aviation Helicopter Accidents by Year

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2016	Non-Commercial HELICOPTER	Commercial HELICOPTER
Number of accidents	75	37
Number of aircraft*	75	37
Number of fatal accidents	13	4
Lethality (percent)	17.3	10.8
Fatalities	23	7

2017	Non-Commercial HELICOPTER	Commercial HELICOPTER
Number of accidents	90	38
Number of aircraft*	90	38
Number of fatal accidents	14	4
Lethality (percent)	15.6	10.5
Fatalities	21	8

*\*EACH AIRCRAFT INVOLVED IN A COLLISION IS COUNTED SEPARATELY.*

# SECTION 2

2017 PRELIMINARY DATA HELICOPTER

## 2017 Accident Conditions: Non-Commercial Helicopter

### AIRCRAFT CLASS

CONFIGURATION	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine piston	63	70.0%	8	57.1%	11	52.4%
Single-engine turbine	23	25.6%	4	28.6%	7	33.3%
Multiengine turbine	4	4.4%	2	14.3%	3	14.3%

### TYPE OF OPERATION

PURPOSE OF FLIGHT	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Personal	28	31.1%	5	35.7%	7	33.3%
Instructional	27	30.0%	1	7.1%	2	9.5%
Public use	6	6.7%	1	7.1%	2	9.5%
Positioning	7	7.8%	2	14.3%	4	19.0%
Aerial observation	6	6.7%	1	7.1%	2	9.5%
Business	8	8.9%	2	14.3%	2	9.5%
Other work use	6	6.7%	2	14.3%	2	9.5%
Other or unknown	2	2.2%	0	0.0%	0	0.0%



## SECTION 2: 2017 PRELIMINARY DATA HELICOPTER

### *Non-Commercial Helicopter, 2017 (Continued)*

#### PILOT QUALIFICATIONS

CERTIFICATE LEVEL	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
ATP	17	18.9%	2	14.3%	3	14.3%
Commercial	47	52.2%	7	50.0%	10	47.6%
Private	20	22.2%	4	28.6%	5	23.8%
Student	5	5.6%	0	0.0%	0	0.0%
Other or unknown	1	1.1%	1	7.1%	3	14.3%
Second pilot on board	22	24.4%	2	14.3%	4	19.0%
CFI on board*	41	45.6%	4	28.6%	7	33.3%
IFR pilot on board*	57	63.3%	9	64.3%	14	66.7%

\* INCLUDES SINGLE-PILOT FLIGHTS

#### LIGHT AND WEATHER CONDITIONS

CONDITIONS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Day VMC	80	88.0%	9	64.3%	11	52.4%
Night VMC*	7	7.8%	3	21.4%	7	33.3%
Day IMC	2	2.2%	1	7.1%	1	4.8%
Night IMC*	1	1.1%	1	7.1%	2	9.5%

\* INCLUDES DUSK

## SECTION 2: 2017 PRELIMINARY DATA HELICOPTER

### 2017 Accident Conditions: Commercial Helicopter

#### TYPE OF OPERATION

PURPOSE OF FLIGHT	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Aerial application (Part 137)	22	57.9%	0	0.0%	0	0.0%
Charter or cargo (Part 135)	12	31.6%	2	50.0%	5	62.5%
External load (Part 133)	4	10.5%	2	50.0%	3	37.5%

#### AERIAL APPLICATION (PART 137)

AIRCRAFT CLASS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine piston	13	59.1%	0	0.0%	0	0.0%
Single-engine turbine	9	40.9%	0	0.0%	0	0.0%

#### CONDITIONS

Day VMC	21	95.5%	0	100.0%	0	0.0%
Night VMC*	1	4.5%	0	0.0%	0	0.0%

\* INCLUDES DUSK

#### PILOT QUALIFICATIONS

ATP	1	4.5%	0	0.0%	0	0.0%
Commercial	17	77.3%	0	0.0%	0	0.0%
Private	1	4.5%	0	0.0%	0	0.0%
None	1	4.5%	0	0.0%	0	0.0%
Other or unknown	2	9.1%	0	0.0%	0	0.0%
CFI on board*	6	27.3%	0	0.0%	0	0.0%
IFR pilot on board*	12	54.5%	0	0.0%	0	0.0%

\* INCLUDES SINGLE-PILOT FLIGHTS

## SECTION 2: 2017 PRELIMINARY DATA HELICOPTER

### Commercial Helicopter, 2017 (Continued)

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#### CHARTER AND CARGO (PART 135)

AIRCRAFT CLASS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine piston	3	25.0%	0	0.0%	0	0.0%
Single-engine turbine	6	50.0%	1	50.0%	1	20.0%
Multiengine turbine	3	25.0%	1	50.0%	4	80.0%

#### CONDITIONS

Day VMC	9	75.0%	1	50.0%	4	80.0%
Night VMC*	2	16.7%	0	0.0%	0	0.0%
Night IMC*	1	8.3%	1	50.0%	1	20.0%

\* INCLUDES DUSK

#### PILOT QUALIFICATIONS

ATP	3	25.0%	1	50.0%	1	20.0%
Commercial	7	58.3%	1	50.0%	4	80.0%
Other or unknown	2	16.7%	0	0.0%	0	0.0%
CFI on board*	4	33.3%	0	0.0%	0	0.0%
IFR pilot on board*	8	66.7%	2	100.0%	5	100.0%

\* INCLUDES SINGLE-PILOT FLIGHTS

## SECTION 2: 2017 PRELIMINARY DATA HELICOPTER

### Commercial Helicopter, 2017 (Continued)

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#### EXTERNAL LOAD (PART 133)

AIRCRAFT CLASS	ACCIDENTS	FATAL ACCIDENTS	FATALITIES
Single-engine turbine	4 100.0%	2 100%	3 100%
CONDITIONS			
Day VMC	4 100.0%	2 100%	3 100%
PILOT QUALIFICATIONS			
Commercial	4 100.0%	2 100.0%	3 100.0%
CFI on board*	4 100.0%	2 100.0%	3 100.0%
IFR pilot on board*	4 100.0%	2 100.0%	3 100.0%

\* INCLUDES SINGLE-PILOT FLIGHTS



# SECTION 2

2016 UPDATED DATA HELICOPTER

## 2016 Accident Conditions: Non-Commercial Helicopter

### AIRCRAFT CLASS

CONFIGURATION	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine piston	46	61.3%	5	38.5%	6	26.1%
Single-engine turbine	25	33.3%	6	46.2%	13	56.5%
Multiengine turbine	4	5.3%	2	15.4%	4	17.4%

### TYPE OF OPERATION

PURPOSE OF FLIGHT	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Personal	23	30.7%	4	30.8%	6	26.1%
Instructional	18	24.0%	1	7.7%	1	4.3%
Public use	10	13.3%	1	7.7%	1	4.3%
Positioning	4	5.3%	1	7.7%	2	8.7%
Aerial observation	6	8.0%	3	23.1%	7	30.4%
Business	5	6.7%	1	7.7%	1	4.3%
Other work use	2	2.7%	0	0.0%	0	0.0%
Other or Unknown	7	9.3%	2	15.4%	5	21.7%

## SECTION 2: 2016 UPDATED DATA HELICOPTER

### Non-Commercial Helicopter, 2016 (Continued)

#### PILOT QUALIFICATIONS

CERTIFICATE LEVEL	ACCIDENTS	FATAL ACCIDENTS	FATALITIES
ATP	15 20.0%	5 38.5%	11 47.8%
Commercial	42 56.0%	7 53.8%	11 47.8%
Private	12 16.0%	1 7.7%	1 4.3%
Student	2 2.7%	0 0.0%	0 0.0%
None	3 4.0%	0 0.0%	0 0.0%
Other or unknown	1 1.3%	0 0.0%	0 0.0%
Second pilot on board	18 24.0%	4 30.8%	8 34.8%
CFI on board*	38 50.7%	8 61.5%	17 73.9%
IFR pilot on board*	50 66.7%	12 92.3%	22 95.7%

\* INCLUDES SINGLE-PILOT FLIGHTS

#### LIGHT AND WEATHER CONDITIONS

CONDITIONS	ACCIDENTS	FATAL ACCIDENTS	FATALITIES
Day VMC	69 92.0%	10 76.9%	19 82.6%
Night VMC*	5 6.7%	2 15.4%	3 13.0%
Day IMC	1 1.3%	1 7.7%	1 4.3%

\* INCLUDES DUSK

## SECTION 2: 2016 UPDATED DATA HELICOPTER

### 2016 Accident Conditions: Commercial Helicopter

#### TYPE OF OPERATION

PURPOSE OF FLIGHT	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Aerial application (Part 137)	21	56.8%	1	25.0%	1	14.3%
Charter or cargo (Part 135)	13	35.1%	2	50.0%	5	71.4%
External load (Part 133)	3	8.1%	1	25.0%	1	14.3%

#### AERIAL APPLICATION (PART 137)

AIRCRAFT CLASS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine piston	10	47.6%	0	0.0%	0	0.0%
Single-engine turbine	11	52.4%	1	100.0%	1	100.0%

#### CONDITIONS

Day VMC	18	85.7%	1	100.0%	1	100.0%
Night VMC*	3	14.3%	0	0.0%	0	0.0%

\* INCLUDES DUSK

#### PILOT QUALIFICATIONS

ATP	2	9.5%	0	0.0%	0	0.0%
Commercial	19	90.5%	1	100.0%	1	100.0%
CFI on board*	8	38.1%	0	0.0%	0	0.0%
IFR pilot on board*	10	47.6%	0	0.0%	0	0.0%

\* INCLUDES SINGLE-PILOT FLIGHTS

## SECTION 2: 2016 UPDATED DATA HELICOPTER

### Commercial Helicopter, 2016 (Continued)

#### CHARTER AND CARGO (PART 135)

AIRCRAFT CLASS	ACCIDENTS		FATAL ACCIDENTS		FATALITIES	
Single-engine turbine	12	92.3%	2	100.0%	5	100.0%
Multiengine turbine	1	7.7%	0	0.0%	0	0.0%
CONDITIONS						
Day VMC	9	69.2%	1	50.0%	1	20.0%
Night VMC*	2	15.4%	0	0.0%	0	0.0%
Night IMC*	2	15.4%	1	50.0%	4	80.0%

\* INCLUDES DUSK

PILOT QUALIFICATIONS						
ATP	1	7.7%	1	50.0%	4	80.0%
Commercial	12	92.3%	1	50.0%	1	20.0%
Second pilot on board	1	7.7%	0	0.0%	0	0.0%
CFI on board*	4	30.8%	1	50.0%	4	80.0%
IFR pilot on board*	12	92.30%	1	50.00%	4	80.0%

\* INCLUDES SINGLE-PILOT FLIGHTS

## SECTION 2: 2016 UPDATED DATA HELICOPTER

### Commercial Helicopter, 2016 (Continued)

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#### EXTERNAL LOAD (PART 133)

AIRCRAFT CLASS	ACCIDENTS	FATAL ACCIDENTS	FATALITIES
Single-engine turbine	3 100.0%	1 100.0%	1 100.0%
CONDITIONS			
Day VMC	3 100.0%	1 100.0%	1 100.0%
PILOT QUALIFICATIONS			
ATP	1 33.3%	0 0.0%	0 0.0%
Commercial	2 66.7%	1 100.0%	1 100.0%
CFI on board*	2 66.7%	1 100.0%	1 100.0%
IFR pilot on board*	1 33.3%	0 0.0%	0 0.0%

\* INCLUDES SINGLE-PILOT FLIGHTS

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