



**Federal Aviation  
Administration**

# **Rotorcraft Standards Branch**

## **AIR-680**

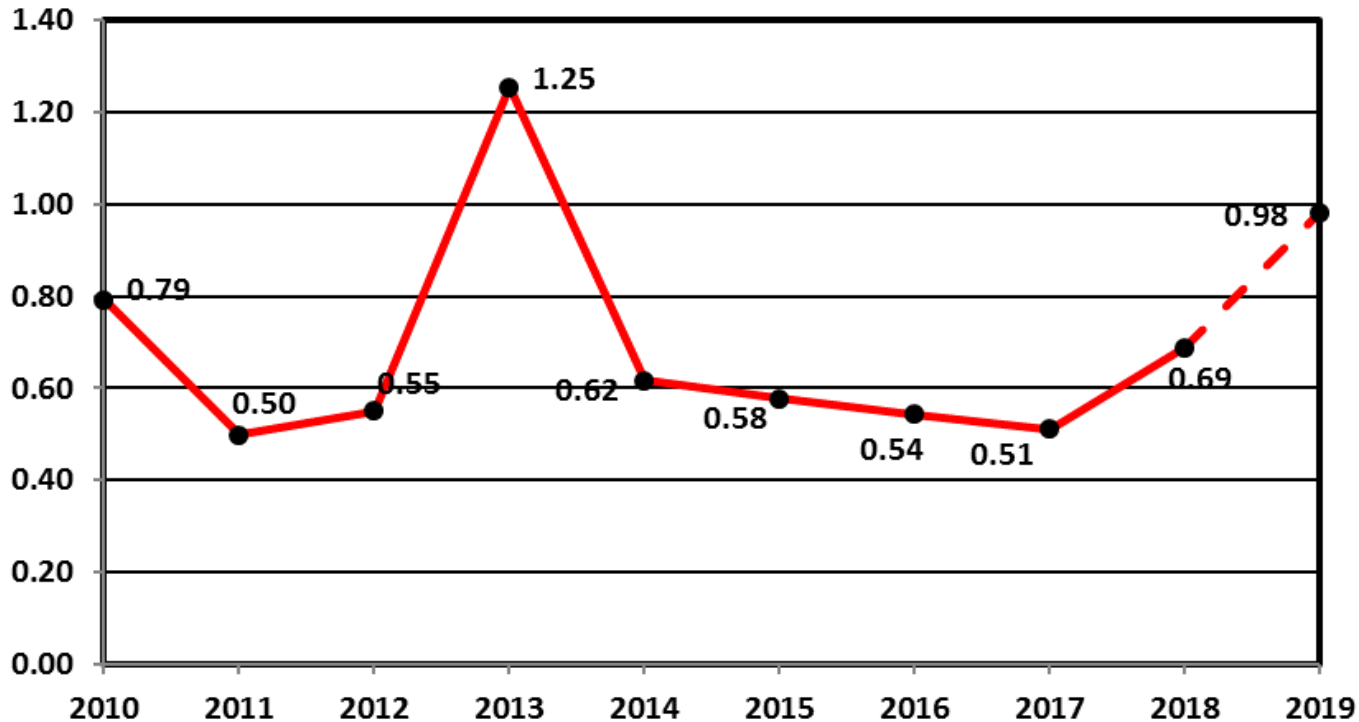
### **Monthly Accident Briefing**

**Oct 2018**

**By: AIR-682, Safety Management Section,  
Rotorcraft Standards Branch**



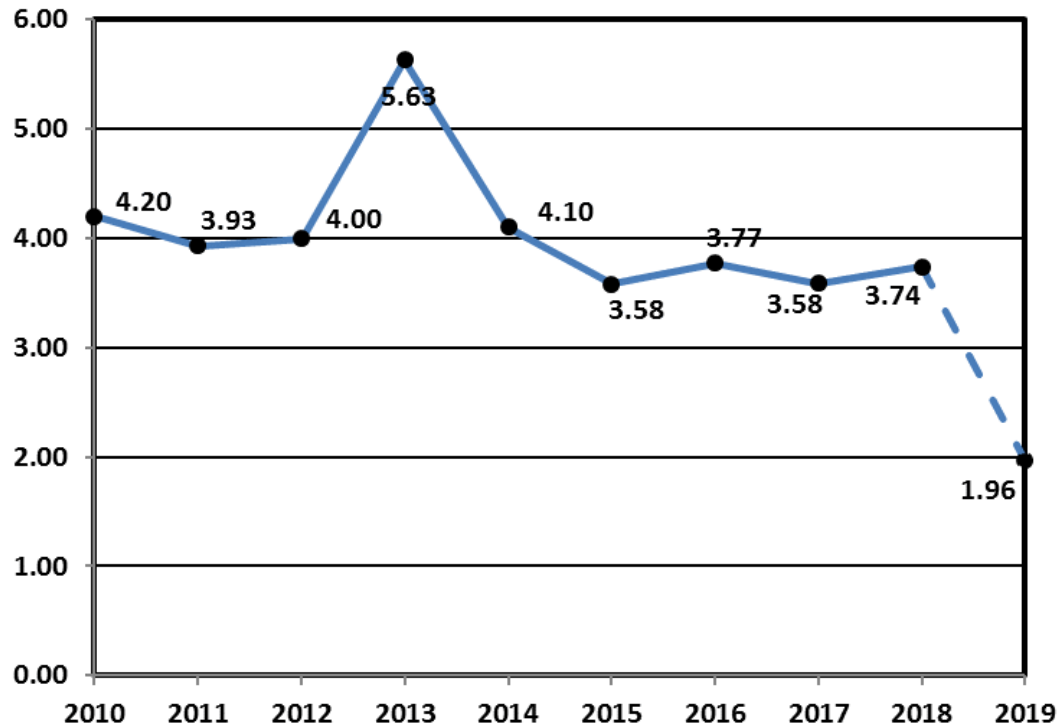
# Estimated U.S. Rotorcraft FATAL Accident Rate (per 100,000 hours) – 10 Year Lookback



## Rate calculation based on the following:

- 1) Accident totals compiled by AIR-682.
- 2) Historic rotorcraft flight hours extracted from General Aviation and Part 135 Activity Survey. The survey categorizes flight hours by calendar year. Assumption was that hours would be comparable if used for fiscal year calculations.
- 3) FY 11 rotorcraft flight hours and the projected hours for FY 18-19 were based on the FAA's FY2018-2038 forecast (released March 2018).

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# FY 19 – U.S. Registered Rotorcraft Accidents

## Cumulative Counts – 6 Accidents, 3 Fatal Accidents, 4 Fatalities

Same time period, previous FY: 8 Accidents, 3 Fatal Accidents, 4 Fatalities

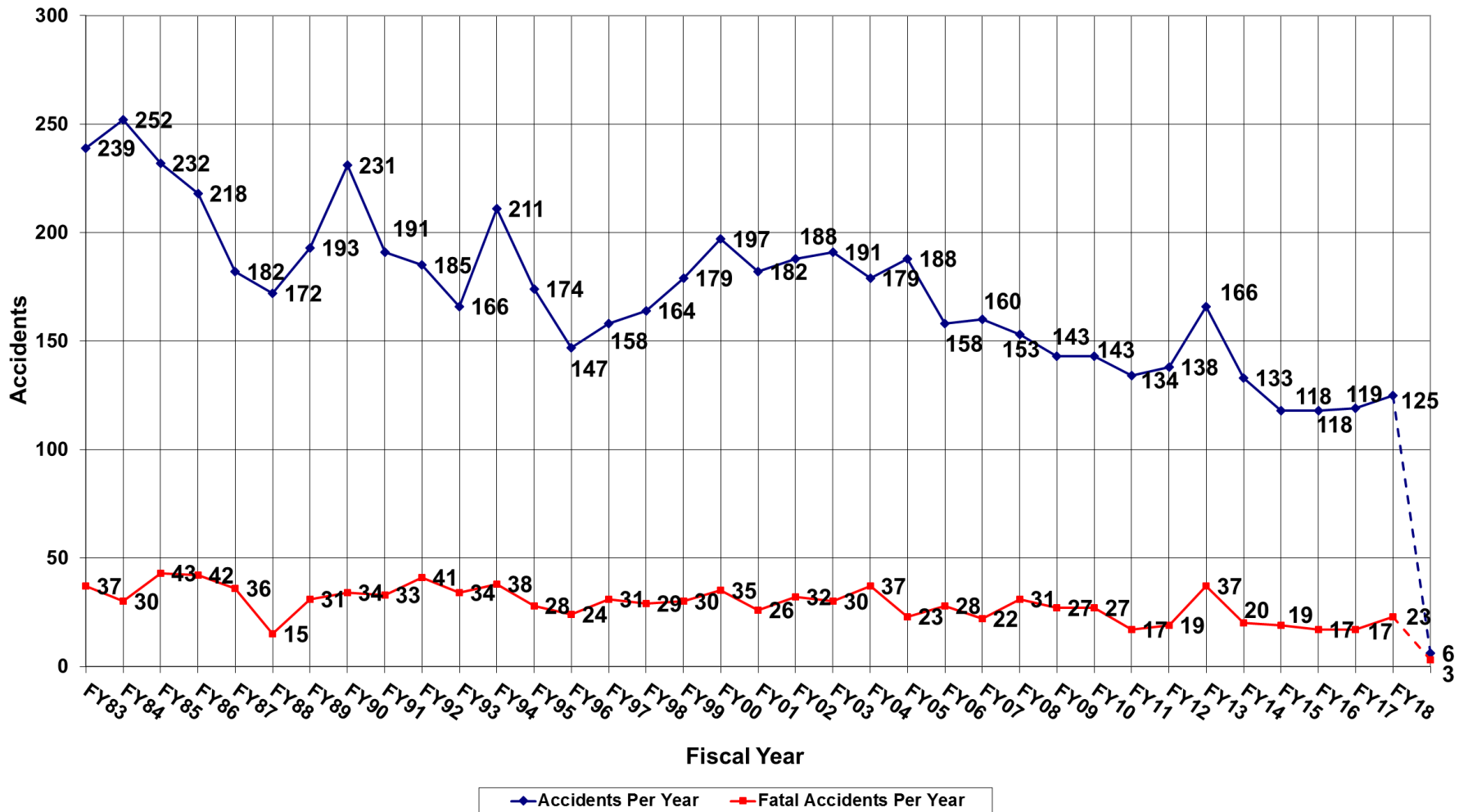
	<b>Oct</b>	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
<b>Accidents:</b>	6												6
<b>Fatal:</b>	3												3
<b>Fatalities:</b>	4												4

Data Source: FAA, NTSB Databases. Includes only events classified as accidents and does not include incidents. The accident numbers for each month of the Fiscal Year may vary from the previous monthly briefing based on analysis between FAA and NTSB databases for the specified month. The NTSB database may include accidents that were not reported to this office resulting in slightly different numbers.

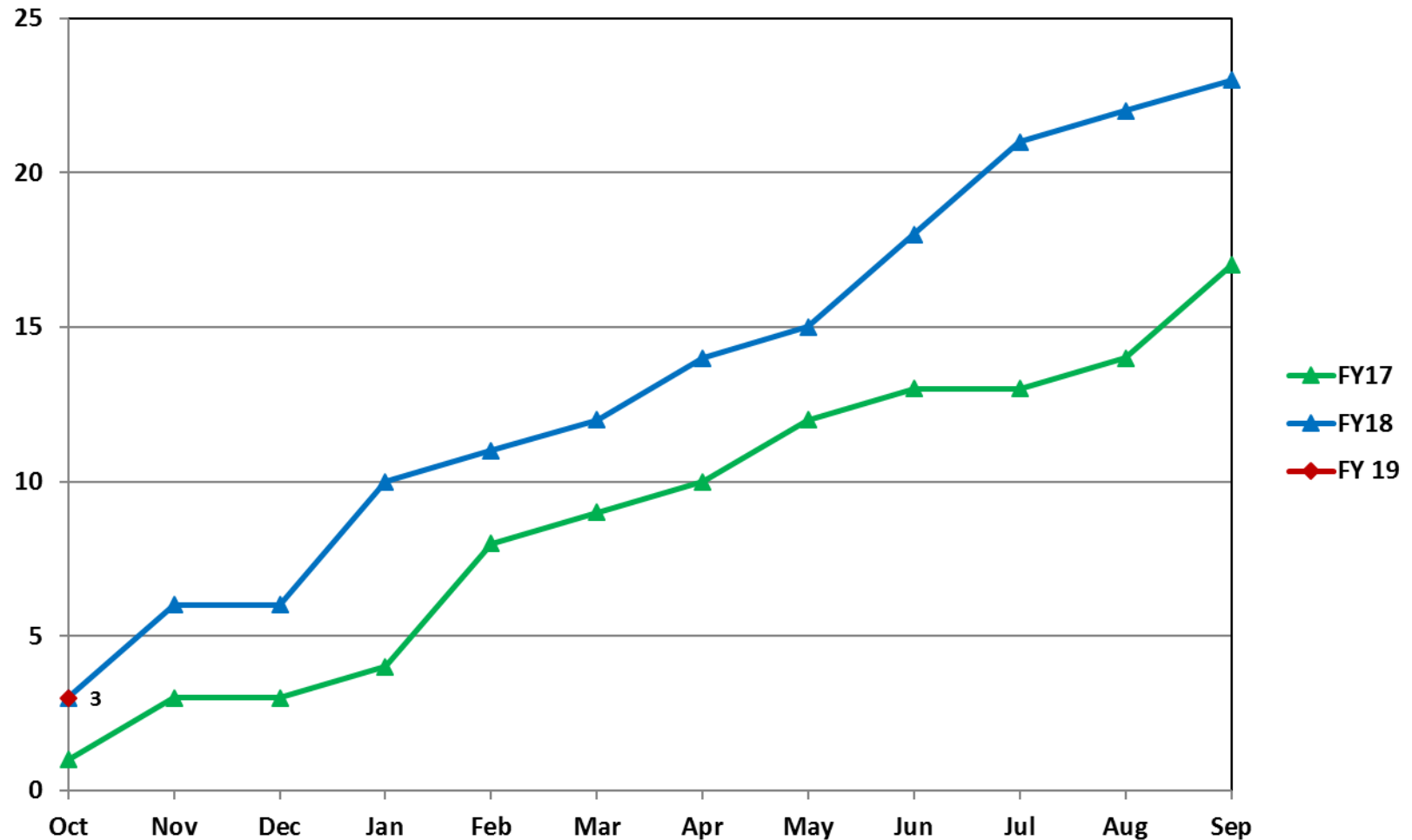
## Estimated Rates by Month (per 100,000 flight hours)

	<b>Oct</b>	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	YTD
<b>Accidents:</b>	1.96												1.96
<b>Fatal:</b>	0.98												0.98
<b>Fatalities:</b>	1.31												1.31

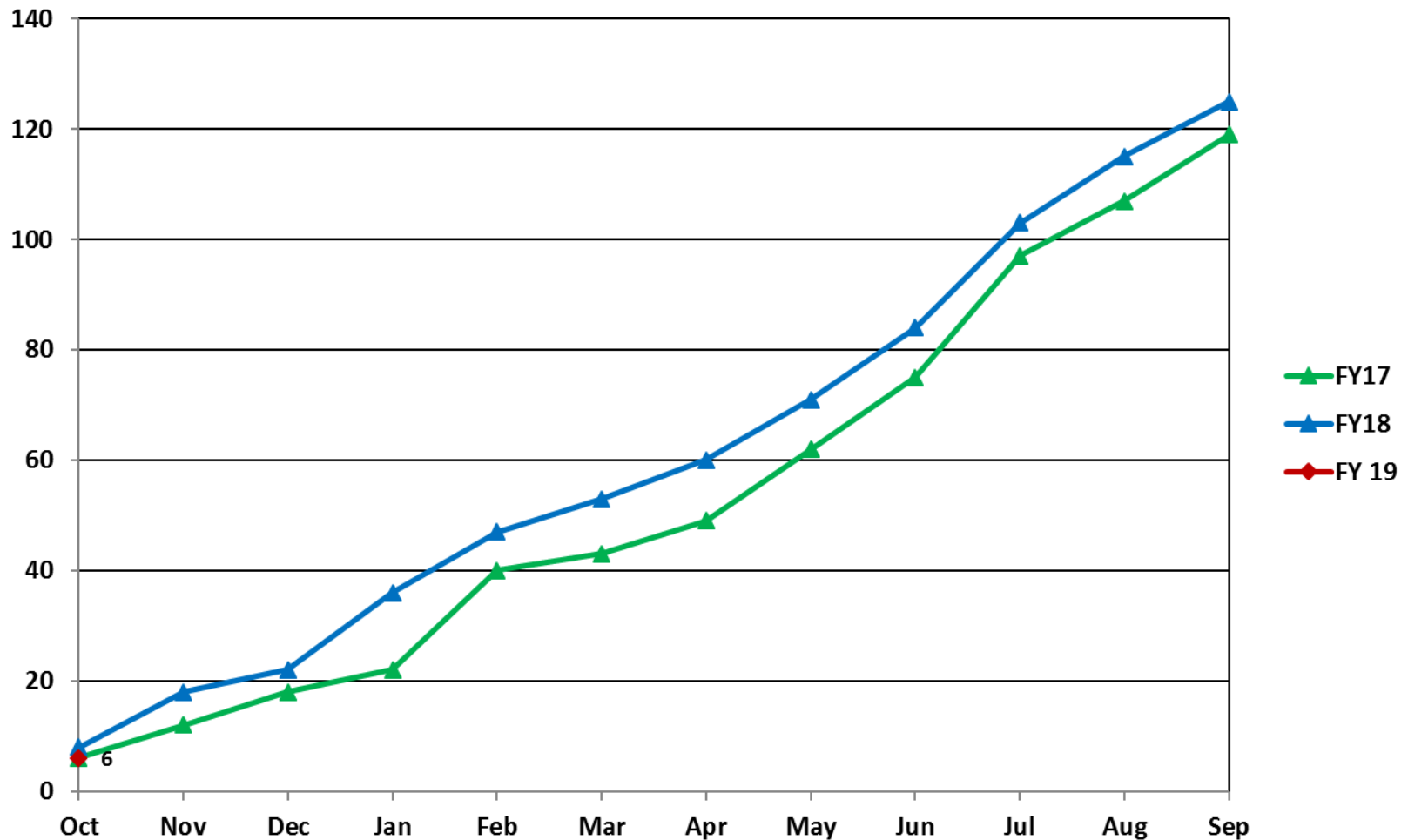
# U.S. Registered Rotorcraft Accidents FY83 - FY19



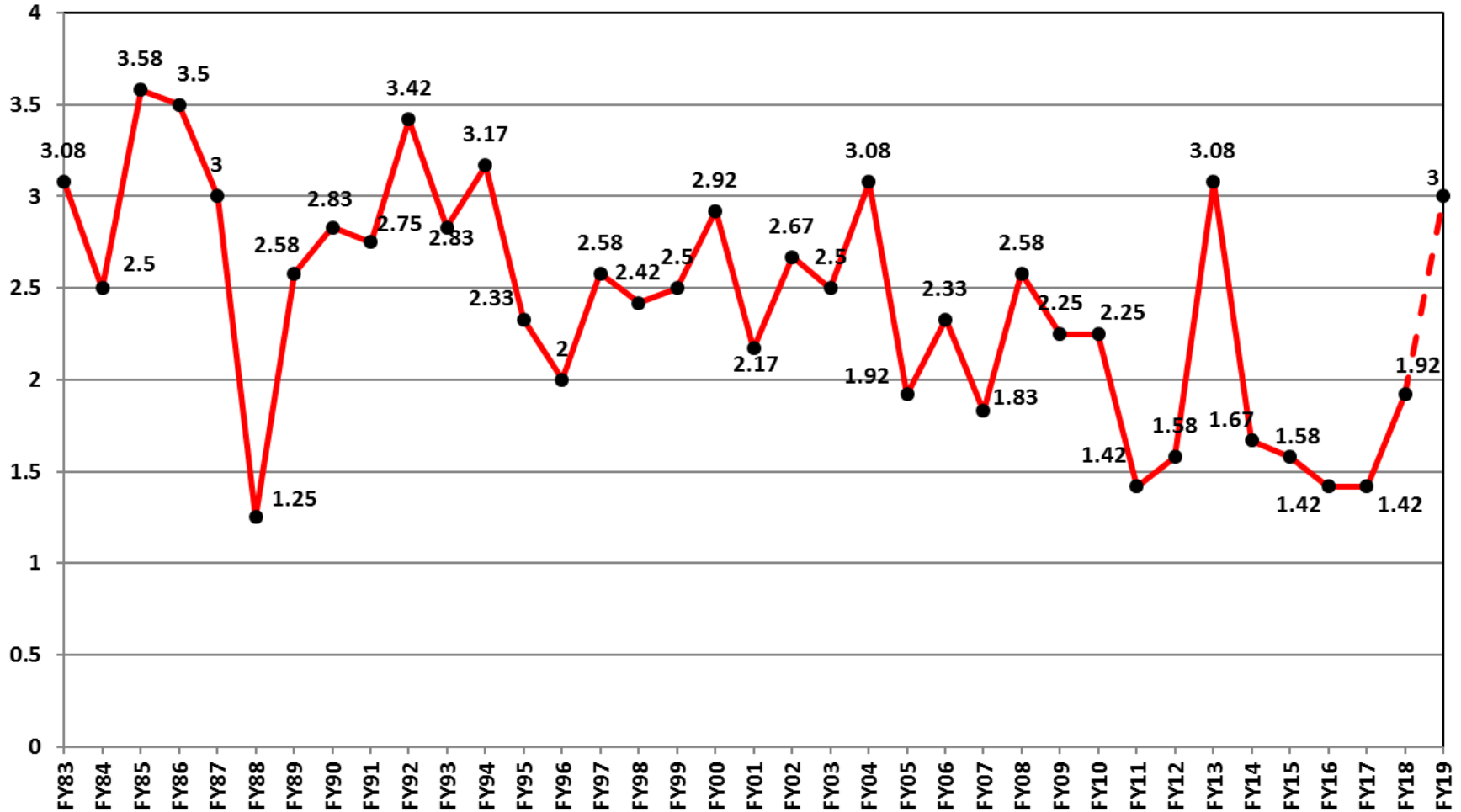
# U.S. Registered Rotorcraft Cumulative Fatal Accident Count: FY17 - 19



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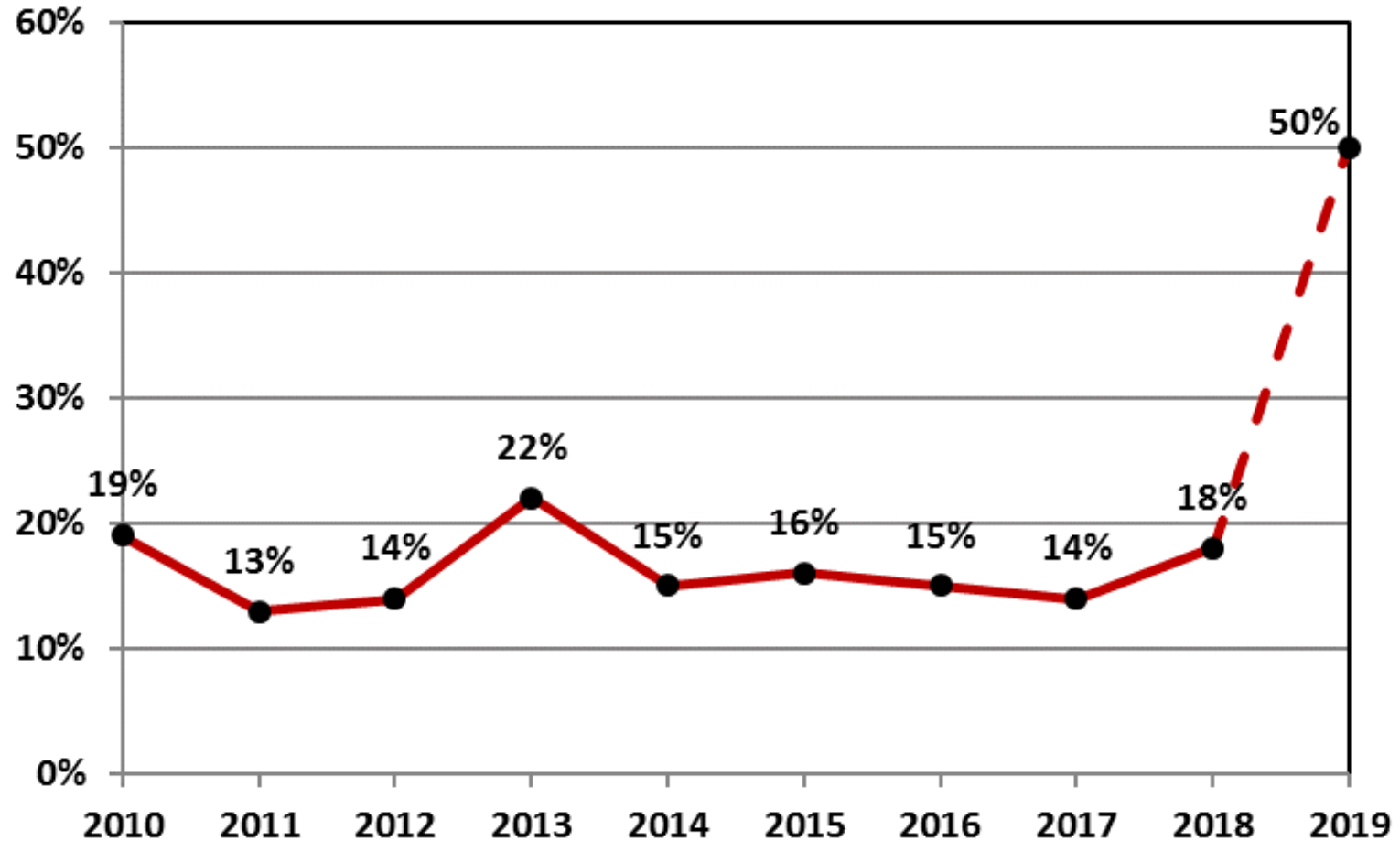


# U.S. Registered Rotorcraft Average Fatal Accidents Per Month, FY83-FY19

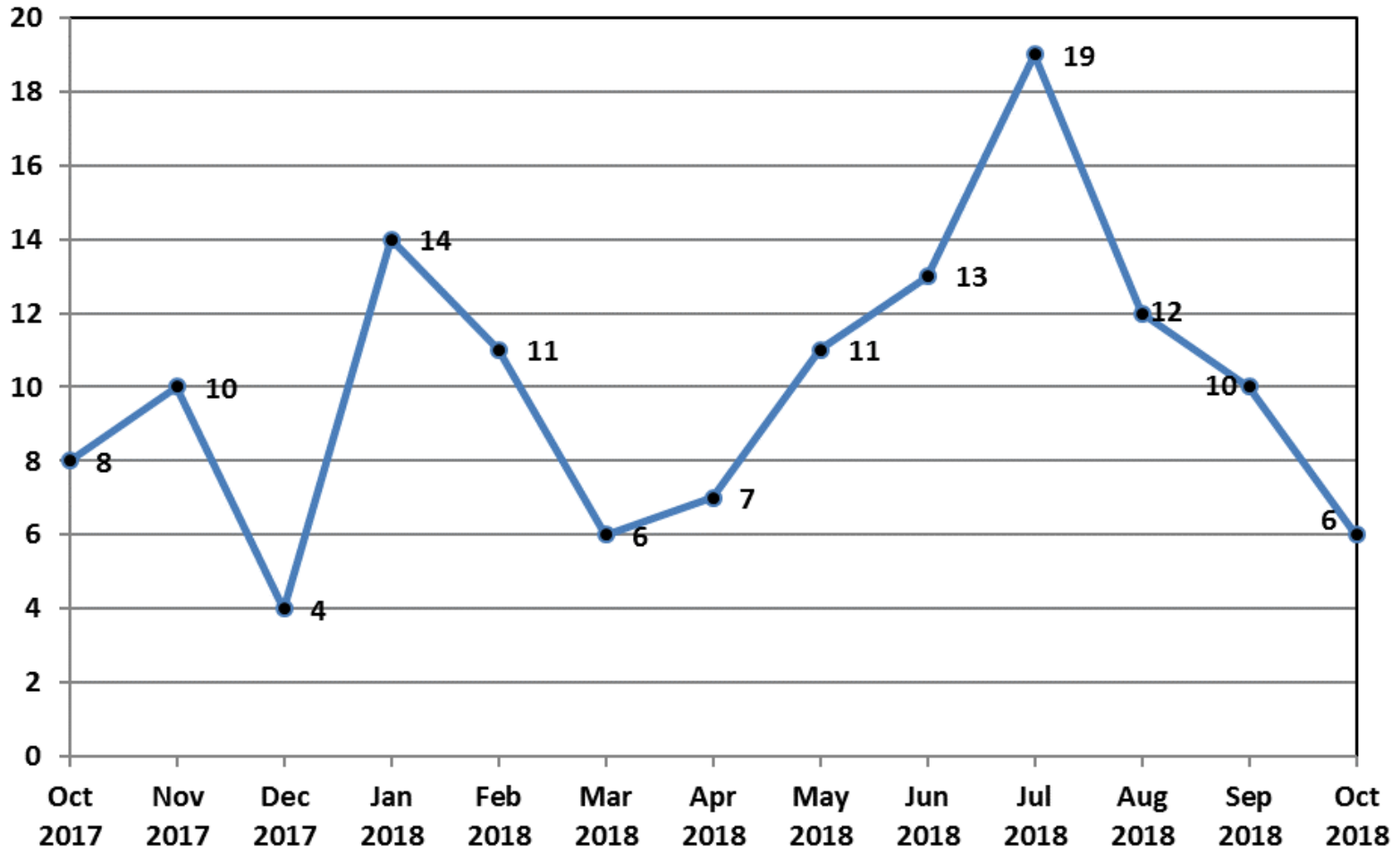




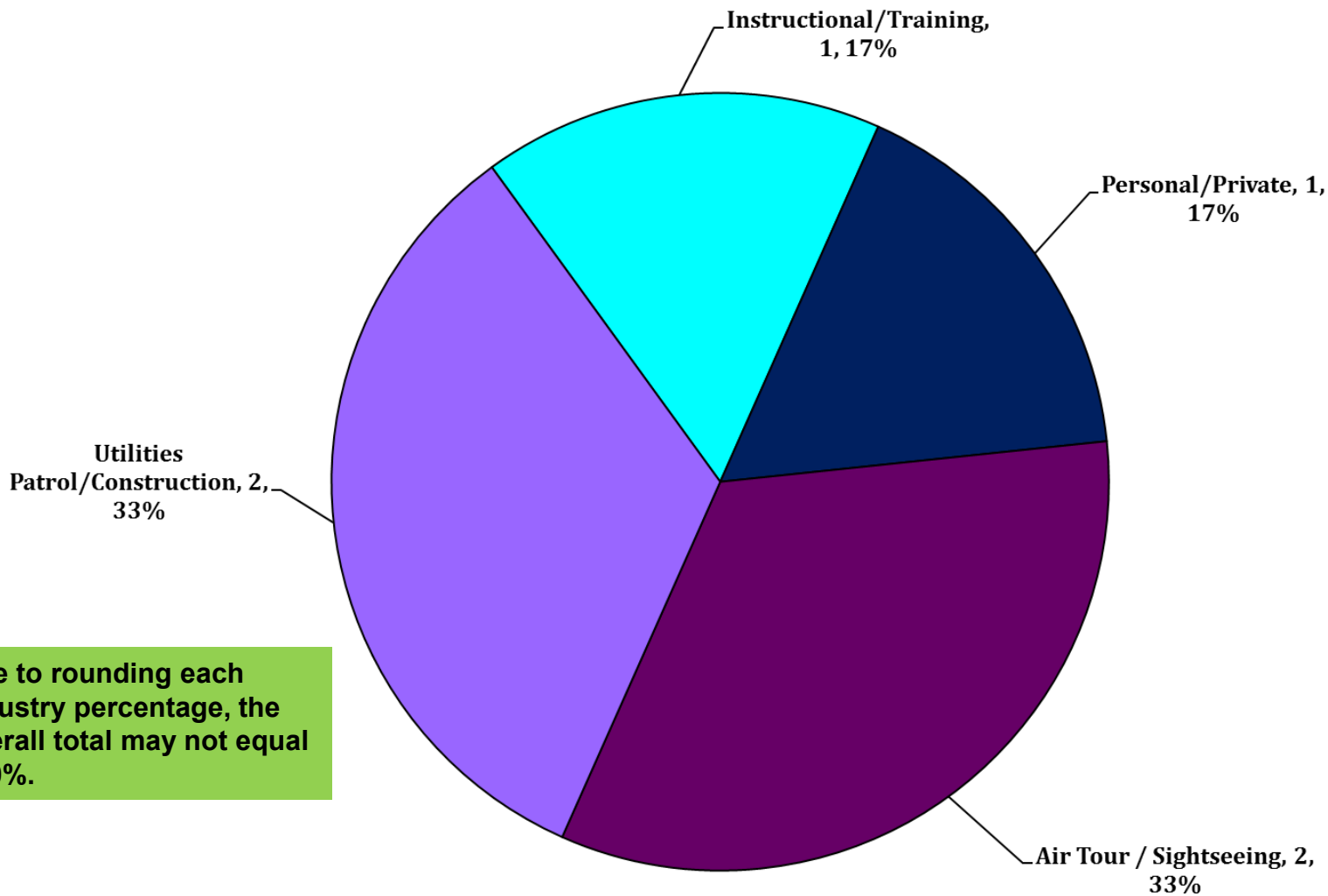
# % of U.S. Rotorcraft Accidents with a Fatality (FY19, Oct only)



# U.S. Registered Rotorcraft 13 Month Rolling Accident Count

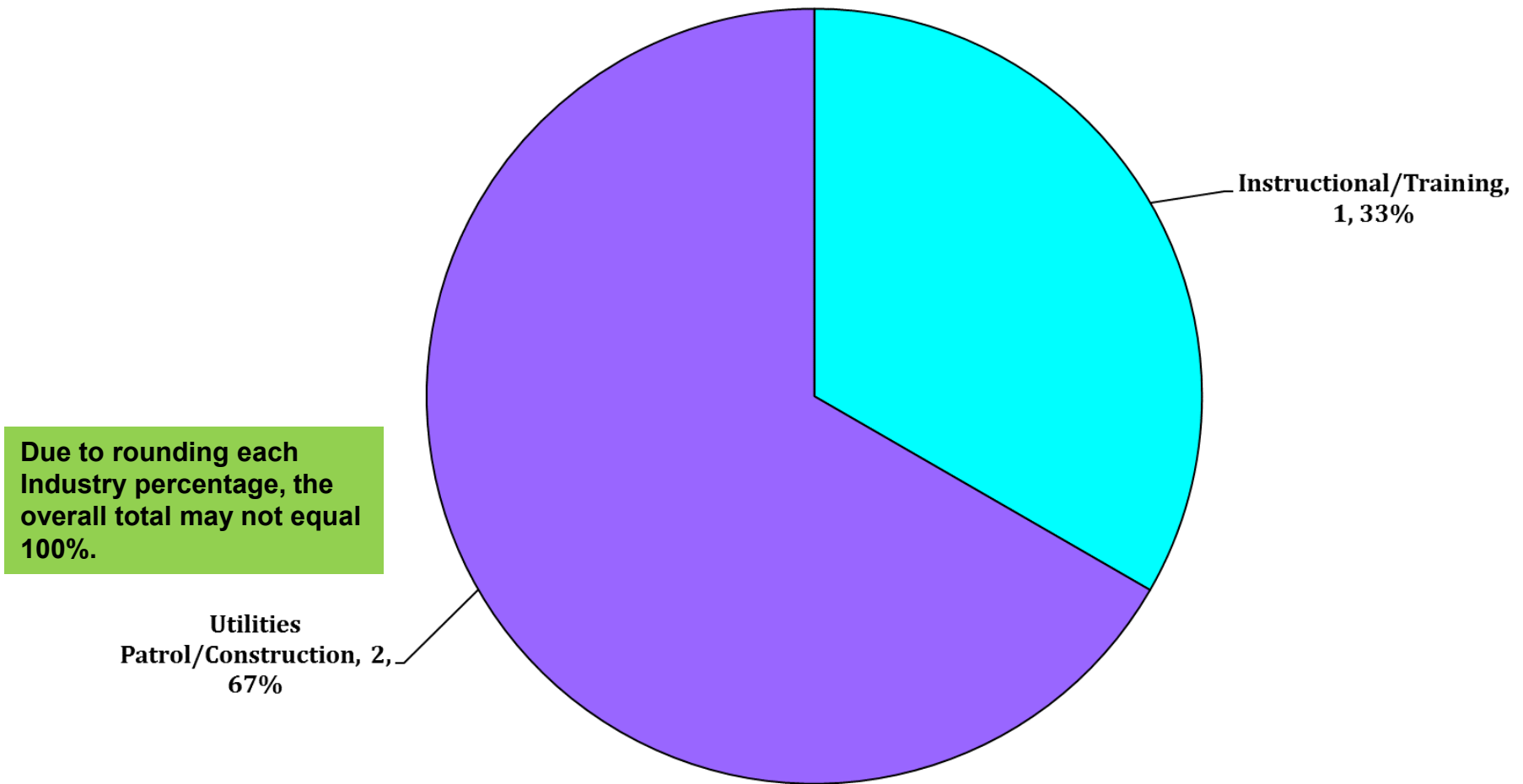


# FY 19 – Total Accidents by Industry (Oct 2018)



Due to rounding each Industry percentage, the overall total may not equal 100%.

# FY 19 – Total FATAL Accidents by Industry (Oct 2018)



## FY 19 – U.S. Registered Fatal Rotorcraft Accidents

- 10-30-18 – Airbus Helicopter AS355F2, N372CA, Beekmantown, NY, Part 133,  
2 Fatal, 2 Survivors
- Utilities Patrol/Construction; stringing fiber optic line along existing power lines
  - Contacted lines, became entangled, fire ensued NTSB Number Pending
- 10-29-18 – Airbus Helicopter AS350B3, N910S, Odanah, WI, Part 91, 1 Fatal
- Utilities Patrol/Construction; oil and gas aerial pipeline patrol
  - Crashed under unknown circumstances, post-crash fire NTSB Number Pending
- 10-17-18 – Robinson R22, N923SH, Fulton, MO, Part 91, 1 Fatal
- Instructional/Training; Solo cross country flight to Columbia, MO
  - Crashed while enroute [NTSB: CEN19FA009](#)

## FY 19 - US Rotorcraft Accidents By Model

MFR	Model	Registered U.S. Fleet Size	Percentage of Total U.S. Fleet	Number of FY19 U.S. Registered Accidents	Percentage of Total FY19 U.S. Registered Accidents
<b>Airbus Helicopters</b>	<b>AS350 (H125)</b>	<b>918</b>	<b>7%</b>	<b>1</b>	<b>17%</b>
	<b>AS355</b>	<b>47</b>	<b>&lt; 1%</b>	<b>1</b>	<b>17%</b>
	<b>BK117 (H145)</b>	<b>203</b>	<b>2%</b>		
	<b>EC120 (H120)</b>	<b>95</b>	<b>1%</b>		
	<b>EC130 (H130)</b>	<b>247</b>	<b>2%</b>		
	<b>EC135 (H135)</b>	<b>311</b>	<b>2%</b>		

**Only models that comprise at least 1% of U.S. registered rotorcraft are listed unless an accident has occurred.**

\*Fleet size based on analysis of rotorcraft on FAA registry as of Apr 2018

## FY 19 - US Rotorcraft Accidents By Model

<b>MFR</b>	<b>Model</b>	<b>Registered U.S. Fleet Size</b>	<b>Percentage of Total U.S. Fleet</b>	<b>Number of FY19 U.S. Registered Accidents</b>	<b>Percentage of Total FY19 U.S. Registered Accidents</b>
<b>Bell</b>	<b>206Bs</b>	<b>1,027</b>	<b>8%</b>		
	<b>206Ls</b>	<b>580</b>	<b>5%</b>		
	<b>212</b>	<b>93</b>	<b>1%</b>		
	<b>407</b>	<b>722</b>	<b>6%</b>		
	<b>412</b>	<b>93</b>	<b>1%</b>		
	<b>429</b>	<b>85</b>	<b>1%</b>		

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## FY 19 - US Rotorcraft Accidents By Model

MFR	Model	Registered U.S. Fleet Size	Percentage of Total U.S. Fleet	Number of FY18 U.S. Registered Accidents	Percentage of Total FY18 U.S. Registered Accidents
<b>Robinson</b>	<b>R-22</b>	<b>910</b>	<b>7%</b>	<b>1</b>	<b>17%</b>
	<b>R-44</b>	<b>1,605</b>	<b>13%</b>	<b>2</b>	<b>33%</b>
	<b>R-66</b>	<b>249</b>	<b>2%</b>		

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<b>Sikorsky</b>	<b>S-76</b>	<b>244</b>	<b>2%</b>		
	<b>S-92</b>	<b>85</b>	<b>1%</b>		

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MFR	Model	Registered U.S. Fleet Size	Percentage of Total U.S. Fleet	Number of FY19 U.S. Registered Accidents	Percentage of Total FY19 U.S. Registered Accidents
Brantly	B-2	76	1%		
Enstrom	280	137	1%		
	480	69	1%		
	F28	164	1%	1	17%
Hiller	UH-12/H-23	311	2%		
Leonardo (formerly Agusta Westland)	A109	174	1%		
	A119	98	1%		
	AW139	124	1%		
MDHI	369	718	6%		
Restricted Category (all TCs)	HH-1/TH-1/UH-1	572	5%		
	OH-58	442	3%		
Schweizer Rotorcraft Services Group	269/300/TH-55	557	4%		
Scott's Bell	47	628	5%		

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# U.S. Helicopter Safety Team (USHST) Fatal Accident Rate (Jan-Oct)

